

Spectrum

Lamp catalogue 2007/2008



GE imagination at work

ecomaginationSM

The future can seem pretty intimidating: Our known reserves of oil and natural gas are expected to be depleted by 2045, the climate is changing, and more than a billion people lack clean water. At GE, we believe some of the world's most pressing challenges present an opportunity to do what we do best: **imagine and build innovative solutions that benefit our customers and society at large.**

As a global leader in energy, technology, manufacturing, and infrastructure, GE is uniquely suited to help solve environmental challenges, today and for generations to come. Our customers want a more prosperous, cleaner future. By harnessing our most abundant renewable resource - the imagination of our people -we can create that future with them. We are taking a new approach to solving some of our customers' toughest environmental problems.

We call it ecomagination.

Our Heritage, Our Future

We believe that better technology is the answer to our customers' environmental challenges. And we are confident we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison. Throughout our 128-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by researching and developing next-generation clean technologies. Our goal is to be a leader in bringing clean energy, air, and water and improved quality of life to all the world's citizens.



Introduction

This is GE... It begins with the best ideas in class and leads to quality products with proven demand, for which GE can offer long term services. We build client relationships with our customers to spark off ideas for new innovations

imagination at work

GE has always been a company that stands for progress. For more than 100 years we have been able to tell stories about GE innovations. GE's new imagination at work approach is about GE people, their curiosity, relentless drive, hard work and willingness to take risks – combined with a foundation of limitless imagination – that makes anything possible. It's a legacy of progress that began with our founder, Thomas Edison, and one that will continue through the 21st century. At GE, what we imagine, we can make happen.



As a Worldwide Partner of the Olympic Games, GE is the exclusive provider of a wide range of innovative products and services that are integral to a successful Games, starting with the 2006 Olympic Winter Games in Torino, Italy.



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Introduction

Improved colour

Lamps that feature superior colour rendering are an art form. Quality of light is specific to GE lamps. Objects and colours actually appear more vivid and lively thanks to the extraordinary colour rendering feature of GE lamps.

CMH SuperMini – “halogen-like” light that provides dramatic accents and highlights with excellent colour rendering. Lamp to lamp colour conformity and consistent colour over life.



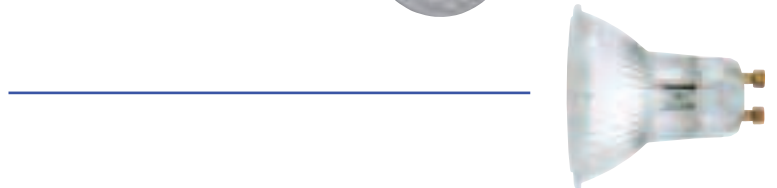
Halogen G9 Capsule – launched under the “TECH” brand as a sign of its high quality and performance – gives out a brighter, whiter light providing a high 2800K colour temperature. The new Capsule offers a constant light quality throughout its whole life.



AR111 Bright and white Halogen – excellent quality of light (up to 2950K) for decorative and architectural lighting.



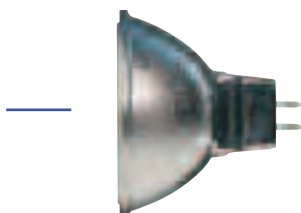
MR16 Mains – This compact mains voltage halogen lamp gives out excellent white light up to 2800K. With the aluminium coating this reflector lamp directs most of its heat to the front.



T5 Starcoat™ lamp – Starcoat™ is a proprietary coating technology that eliminates the need for traditional lower quality halophosphor coating by reflecting the UV-light more effectively. This leaves a pure triphosphor coating for excellent colour rendering and lumen maintenance performance.



Precise™ ConstantColor™ MR16 – features revolutionary GE Thin Film Coating Technology to ensure consistent colour throughout life.



Reduced energy

These lighting products conserve energy use and efficiency while improving the quality of light. Reduce your energy consumption whilst providing improved quality of light, lamp life, colour rendering and energy efficiency.

Genura™ lamps – save up to 80% on energy compared to standard incandescents. At 23W, Genura provides up to 80% energy savings compared to 100W R80 reflector lamps.

Biax™ Extra Mini Electronic Lamps – GE's Extra Mini uses around 20% of the electricity, versus ordinary light bulbs. Saving energy means saving money. And you're not sacrificing of light for lower watts.

Biax™ Plug-in Replaceable lamps – Through outstanding energy efficiency, a significant percentage of your annual electricity bill can be saved.

T5 Starcoat™ Linear Fluorescent System

High lumens in a small, lower wattage package makes GE Starcoat™ T5 the most efficient GE fluorescent lamp available. The new T5 system (lamp, ballast and luminaire) consumes up to 30% less energy when compared to T8 systems.

Lucalox™ XO

This type of High Pressure Sodium lamp provides 20% more light compared to standard Lucalox lamps.



Introduction

Longer life

Extended life means lower costs for lamp replacement and maintenance. GE lamps offer you long life coupled with all the advantages of quality lighting.

Precise™ ConstantColor™ MR16 – ensures outstanding long life-up to 6000 hours.



Biax™ Extra Mini – GE's Extra Mini lamps last about 15 times as long as an ordinary light bulb. Longer life means fewer burned out lamps to replace and reduced labour and maintenance costs.



Lucalox™ Superlife HPS lamp – 67% longer life than standard HPS-up to 55,000 hours. With continuous light after power interruption – standby feature.



CFL Biax Plug-in LongLast™ range – GE's enhanced line of plug-in products includes technical improvements to Biax™ lamps, where the lamp life has been increased by 66% to 20,000 hours



T5 Starcoat™ Linear Fluorescent HO & HE System – Efficiency and elegance couples in this lamp type achieving 30,000 hours with electronic ballast, making this lamp type extremely efficient in commercial and retail application in both direct and indirect luminaires.

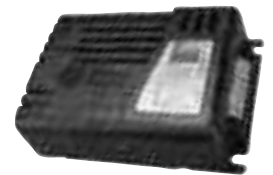


System solution

GE Lamps and Ballasts are the perfect combination for superior light output and long life. Energy savings, superior performance and quality light, are features of GE's new electronic ballast and lamp systems, which enables the creation of a new, environmental-friendly solution for both luminaire manufacturers and lighting designers.

CMH Electronic Ballasts - Coupling

ConstantColor™ CMH lamps with dedicated GE electronic ballasts will ensure further enhanced performance throughout a long lamp life. All CMH ballasts offered by GE are electronic, giving important advantages over conventional electromagnetic circuits.



CFL Electronic Ballasts - Multiwatt

electronic ballast operates best with GE's high output compact fluorescent lamps: the Biax™ Q/E 57W and 70W. A single ballast is suitable for both lamp wattages, enabling more flexibility in design and manufacturing.



GE incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder of General Electric Company, in 1879.

More than a century of research and development later, our current range of GE incandescent lamps represent state-of-the-art lamps for residential and commercial use, as well as special purpose lamps for decorative and display applications. Today's incandescent bulb houses a tungsten filament. When charged with electric current, the filament becomes white hot, and glows through a process called incandescence.

Incandescent lighting is the most prevalent form of lighting today due to its flexibility and cost. Incandescent lamps are commonly available in a large variety of size, shape, colour and wattage offering a wide range of application opportunities from home lighting to medical to industrial uses.



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Incandescent lamps

Product identification

The following glossary of terms and descriptions can help you when checking incandescent lamp specifications and explains how to use the product codes when ordering products. Within each product line, lamps are divided into families – within families lamps are listed by wattage.

Watts:

Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

Product description:

Abbreviation of the lamps' main characteristics

Product Code:

It is important to use this code when ordering to ensure that you receive the exact product you require

Diameter:

Bulb diameter in mm

Lumens:

The lamp's rate output after the initial 2 hours of operation

Energy Efficiency Class:

Energy saving code

Standard Lamps

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
frosted									
15	230	E27	60	15A1/FR/E27	90	1000	1/10/50	F	91178
25	230	E27	60	25A1/FR/E27	230	1000	1/10/50	E	91181
40	230	E27	60	40A1/FR/E27	415	1000	1/10/50	E	91174
60	230	E27	60	60A1/FR/E27	710	1000	1/10/50	E	91175

The finish of the lamp

Cap/Socket

Types for different fittings

Volts:

Each lamp's voltage is listed

Pack structure:

within one outer case 10 individual boxes shrink-wrapped. Altogether 50 lamps fit in a box.

15 A1 / FR / E27

Identifies the lamp's wattage

Identifies the cap type

Describes type of lamp

Identifies the finish of the lamp



Incandescent lamps

General home,
office & industrial Lamps



Enrich™ Standard

General Lighting Service (GLS) incandescent lamps continue to be popular light sources for many applications. They are recommended for their simple operation and ease of installation.


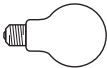

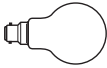
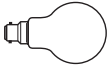
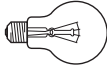
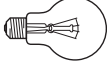
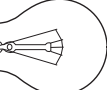
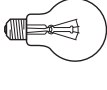
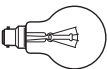
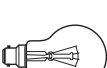

- Standard Lamps
- Softlight Elegance Lamps
- Daylight Lamps
- Longlife GLS Lamps
- GLS Extra Longlife Lamps
- Enrich Lamps
- Linestra Lamps
- Krypton Lamps
- Computer Lights
- Weekend/Insect Lights

Enrich™

For rich, white light that brings out the warmth of all that it touches, look to Enrich™. This unique blue glass bulb brings out the vibrant colours in furnishings and decorations by heightening colour contrast. The result is clear, crisp lighting that enhances family rooms, bedrooms, living rooms, bathrooms and all the other living and entertaining areas of your home. You've worked hard to create the perfect look for your home make it even better with Enrich™.



Standard Lamps – Multi purpose for all applications

	Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code	
	frosted										
	40	120/125	E27	60	40A1/F/E27	490	1000	1/10/100	D	113842	
	60	120/125	E27	60	60A1/F/E27	820	1000	1/10/100	D	115952	
	100	120/125	E27	60	100A1/F/E27	1560	1000	1/10/100	D	119382	
	15	230	E27	50	15A1/FR/E27	90	1000	1/10/60	F	23552	
	25	230	E27	50	25A1/FR/E27	230	1000	1/10/60	E	21670	
	40	230	E27	50	40A1/FR/E27	415	1000	1/10/60	E	21671	
	60	230	E27	50	60A1/FR/E27	710	1000	1/10/60	E	21673	
	75	230	E27	50	75A1/FR/E27	940	1000	1/10/60	E	21675	
	100	230	E27	50	100A1/FR/E27	1340	1000	1/10/60	E	21677	
	150	230	E27	65	150A1/FR/E27	2160	1000	1/20	E	22568	
	200	230	E27	80	200A1/FR/E27	3040	1000	1/20	E	91128	
	25	240	E27	50	25A1/FR/E27	225	1000	1/10/120	E	19950	
	40	240	E27	50	40A1/FR/E27	410	1000	1/10/120	E	19952	
	60	240	E27	50	60A1/FR/E27	700	1000	1/10/120	E	19954	
	75	240	E27	50	75A1/FR/E27	930	1000	1/10/120	E	19955	
	100	240	E27	50	100A1/FR/E27	1330	1000	1/10/120	E	19956	
	60	120/125	B22	60	60A1/F/B22	820	1000	100	D	123792	
	100	120/125	B22	60	100A1/F/B22	1560	1000	100	D	125962	
	25	230	B22	50	25A1/FR/B22	230	1000	1/10/60	E	21657	
	40	230	B22	50	40A1/FR/B22	415	1000	1/10/60	E	21658	
	60	230	B22	50	60A1/FR/B22	710	1000	1/10/60	E	21663	
	75	230	B22	50	75A1/FR/B22	940	1000	1/10/60	E	21664	
	100	230	B22	50	100A1/FR/B22	1340	1000	1/10/60	E	21665	
	150	230	B22	65	150A1/FR/B22	2160	1000	1/20	E	22529	
	clear										
	40	120/125	E27	60	40A1/CL/E27	490	1000	1/10/100	D	109410	
	60	120/125	E27	60	60A1/CL/E27	820	1000	1/10/100	D	115182	
	75	120/125	E27	60	75A1/CL/E27	1070	1000	1/10/100	D	117490	
	100	120/125	E27	60	100A1/CL/E27	1560	1000	1/10/100	D	118780	
	15	230	E27	50	15A1/CL/E27	90	1000	1/10/50	F	23546	
	25	230	E27	50	25A1/CL/E27	230	1000	1/10/50	E	23547	
	40	230	E27	50	40A1/CL/E27	415	1000	1/10/50	E	21666	
	60	230	E27	50	60A1/CL/E27	710	1000	1/10/50	E	21667	
	75	230	E27	50	75A1/CL/E27	940	1000	1/10/50	E	21668	
	100	230	E27	50	100A1/CL/E27	1340	1000	1/10/50	E	21669	
	150	230	E27	65	150A1/CL/E27	2160	1000	1/20	E	22566	
	200	230	E27	80	200A1/CL/E27	3040	1000	1/20	E	91127	
	300	230/240	E27	90	300A1/CL/E27	4850	1000	1/20	E	91226	
	300	230/240	E40	90	300A1/CL/E40	4850	1000	1/20	E	91724	
	40	240	E27	50	40A1/CL/E27	410	1000	1/10/120	E	19946	
	60	240	E27	50	60A1/CL/E27	700	1000	1/10/120	E	19947	
	75	240	E27	50	75A1/CL/E27	930	1000	1/10/120	E	19948	
	100	240	E27	50	100A1/CL/E27	1330	1000	1/10/120	E	19949	
	25	230	B22	50	25A1/CL/B22	230	1000	1/10/60	E	21614	
	40	230	B22	50	40A1/CL/B22	415	1000	1/10/60	E	21619	
	60	230	B22	50	60A1/CL/B22	710	1000	1/10/60	E	21629	
	75	230	B22	50	75A1/CL/B22	940	1000	1/10/60	E	21633	
	100	230	B22	50	100A1/CL/B22	1340	1000	1/10/60	E	21634	
	150	230	B22	65	150A1/CL/B22	2160	1000	1/20	E	22521	
	60	250	B22	60	60A1/CL/B22	695	1000	1/10/100	E	18115	
	75	250	B22	60	75A1/CL/B22	920	1000	1/10/100	E	18116	
	100	250	B22	60	100A1/CL/B22	1320	1000	1/10/100	E	18117	



SOFTLIGHT ELEGANCE – Low glare in white and soft colors

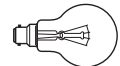
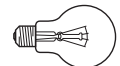
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opal									
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40	230	E27	60	40A1/SL/E27	360	1000	1/10/50	F	90541
60	230	E27	60	60A1/SL/E27	620	1000	1/10/50	F	90542
75	230	E27	60	75A1/SL/E27	820	1000	1/10/50	F	90543
100	230	E27	60	100A1/SL/E27	1165	1000	1/10/50	F	90544
60	230	B22	60	60A1/SL/B22	620	1000	1/10/50	F	92038
100	230	B22	60	100A1/SL/B22	1165	1000	1/10/50	F	91546
jade*									
60	230	E27	60	60A1/JADE/SL/E27	550	1000	2/20	F	92453
azur*									
60	230	E27	60	60A1/AZUR/SL/E27	550	1000	2/20	F	17645

*available only in blister



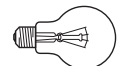
DAYLIGHT – Where crisp colors matter at work and hobby

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
100	240	B22	60	100A1/DAYLIGHT/B22	500	1000	1/10/50	G	34950
60	240	B22	60	60A1/DAYLIGHT/B22	300	1000	1/10/50	G	35090
60	230	E27	60	60A1/DAYLIGHT/E27	300	1000	1/10/50	G	91231
100	230	E27	60	100A1/DAYLIGHT/E27	500	1000	1/10/50	G	91233
40	230	E27	60	40A1/DAYLIGHT/E27	200	1000	1/10/50	G	91858
60	240	E27	60	60A1/DAYLIGHT/E27	300	1000	1/10/50	G	91859
100	240	E27	60	100A1/DAYLIGHT/E27	500	1000	1/10/50	G	91860
60	240	B22	60	60A1/DAYLIGHT/B22	300	1000	1/18	G	93052



LONGLIFE GLS LAMPS – Longer service lower maintenance

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear									
40	240	E27	60	40A1/CL/LL/E27	300	2500	1/10/50	G	91426
60	240	E27	60	60A1/CL/LL/E27	540	2500	1/10/50	F	34907
75	240	E27	60	75A1/CL/LL/E27	730	2500	1/10/50	F	34917
100	240	E27	60	100A1/CL/LL/E27	1080	2500	1/10/50	F	34888
40	240	B22	60	40A1/CL/LL/B22	300	2500	1/10/50	G	34897
60	240	B22	60	60A1/CL/LL/B22	540	2500	1/10/50	F	34905
100	240	B22	60	75A1/CL/LL/B22	1080	2500	1/10/50	F	34887
frosted									
40	240	E27	60	40A1/FR/LL/E27	300	2500	1/10/50	G	34904
60	240	E27	60	60A1/FR/LL/E27	540	2500	1/10/50	F	34910
75	240	E27	60	75A1/FR/LL/E27	730	2500	1/10/50	F	34919
100	240	E27	60	100A1/FR/LL/E27	1080	2500	1/10/50	F	34893
60	240	B22	60	60A1/FR/LL/B22	540	2500	1/10/50	F	34908
75	240	B22	60	75A1/FR/LL/B22	730	2500	1/10/50	F	34918
100	240	B22	60	100A1/FR/LL/B22	1080	2500	1/10/50	F	34892



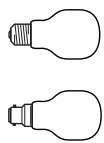
EXTRA LONG LIFE GLS LAMPS – 5000–6000 HOURS – Last for a lifetime

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
frosted									
60	230	E27	60	60A1/F/5000H/E27	590	5000	1/20	F	92766
40	240	E27	60	40A1/F/PL6KH E27	300	6000	1/10/100	G	18171
60	240	E27	60	60A1/F/PL6KH E27	500	6000	1/10/100	G	18188



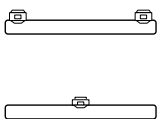
Incandescent lamps

ENRICH – True natural colours



Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
40	230	E27	60	40A1/SL-ENRICH/E27	300	1000	2/20/40	G	91752
60	230	E27	60	60A1/SL-ENRICH/E27	510	1000	2/20/40	G	91753
100	230	E27	60	100A1/SL-ENRICH/E27	960	1000	2/20/40	G	91754
40	240	B22	60	40A1/SL-ENRICH/B22	300	1000	2/20	G	91755
60	240	B22	60	60A1/SL-ENRICH/B22	510	1000	2/20	G	91756
100	240	B22	60	100A1/SL-ENRICH/B22	960	1000	2/20	G	91757

LINESTRA LAMPS – General Linear Lighting for home applications



Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
opal									
35	230	2S14	30	35SL/O/300/2S14	220	2500	1/25	G	91487
60	230	2S14	30	60SL/O/500/2S14	420	2500	1/25	G	91488
35	230	S14	30	35SL/O/300/S14	220	2500	1/25	G	91505
60	230	S14	30	60SL/O/500/S14	420	2500	1/25	G	91486

KRYPTON LAMPS – Slim shape for hanging fixtures



Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
Superbalux – Frosted/Opal									
25	230	E27	50	25MK1/S/E27	215	1000	1/10/50	E	91697
40	230	E27	50	40MK1/S/E27	390	1000	1/10/50	E	91085
60	230	E27	50	60MK1/S/E27	700	1000	1/10/50	E	91086
75	230	E27	55	75MK1/S/E27	900	1000	1/10/50	E	91698
100	230	E27	55	100MK1/S/E27	1320	1000	1/10/50	E	91124



Opal									
25	230	E27	50	25MK1/O/E27	200	1000	1/10/50	F	91495
40	230	E27	50	40MK1/O/E27	380	1000	1/10/50	F	91494
60	230	E27	50	60MK1/O/E27	655	1000	1/10/50	E	91493
75	230	E27	55	75MK1/O/E27	865	1000	1/10/50	E	91492
100	230	E27	55	100MK1/O/E27	1200	1000	1/10/50	F	91536
40	230	B22	50	40MK1/O/B22	380	1000	1/10/50	F	91702
60	230	B22	50	60MK1/O/B22	655	1000	1/10/50	E	91701
75	230	B22	55	75MK1/O/B22	865	1000	1/10/50	E	33336
100	230	B22	55	100MK1/O/B22	1200	1000	1/10/50	F	91700

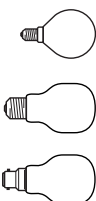


Frosted									
40	230	E27	50	40MK1/FR/E27	425	1000	1/10/50	E	91121
60	230	E27	50	60MK1/FR/E27	730	1000	1/10/50	E	91122
75	230	E27	55	75MK1/FR/E27	965	1000	1/10/50	E	91699
100	230	E27	55	100MK1/FR/E27	1380	1000	1/10/50	E	91123



Clear									
40	230	E27	50	40MK1/CL/E27	425	1000	1/10/50	E	91714
60	230	E27	50	60MK1/CL/E27	730	1000	1/10/50	E	91713
75	230	E27	55	75MK1/CL/E27	965	1000	1/10/50	E	91712
100	230	E27	55	100MK1/CL/E27	1380	1000	1/10/50	E	91711

COMPUTER LIGHT – More relaxing for the eye



Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
40	230	E14	45	40D1/COMPUTER/E14	360	1000	1/10/50	F	91766
40	230	E27	60	40A1/T-COMPUTER/E27	400	1000	1/10/50	E	91762
60	230	E27	60	60A1/T-COMPUTER/E27	680	1000	1/10/50	E	91763
60	240	B22	60	60A1/T-COMPUTER/B22	660	1000	1/10/50	E	91765

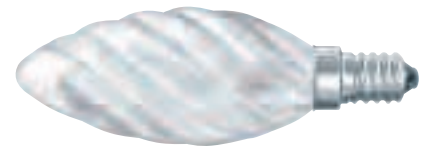
WEEKEND/INSECT LIGHT – Keeps flying insects away



Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
60	230	E27	60	60A1/WEEKEND/E27	200	1000	1/10/50	G	91129
100	230	E27	60	100A1/WEEKEND/E27	330	1000	1/20	G	22582



Decorative lamps



Twisted Decor Lamp

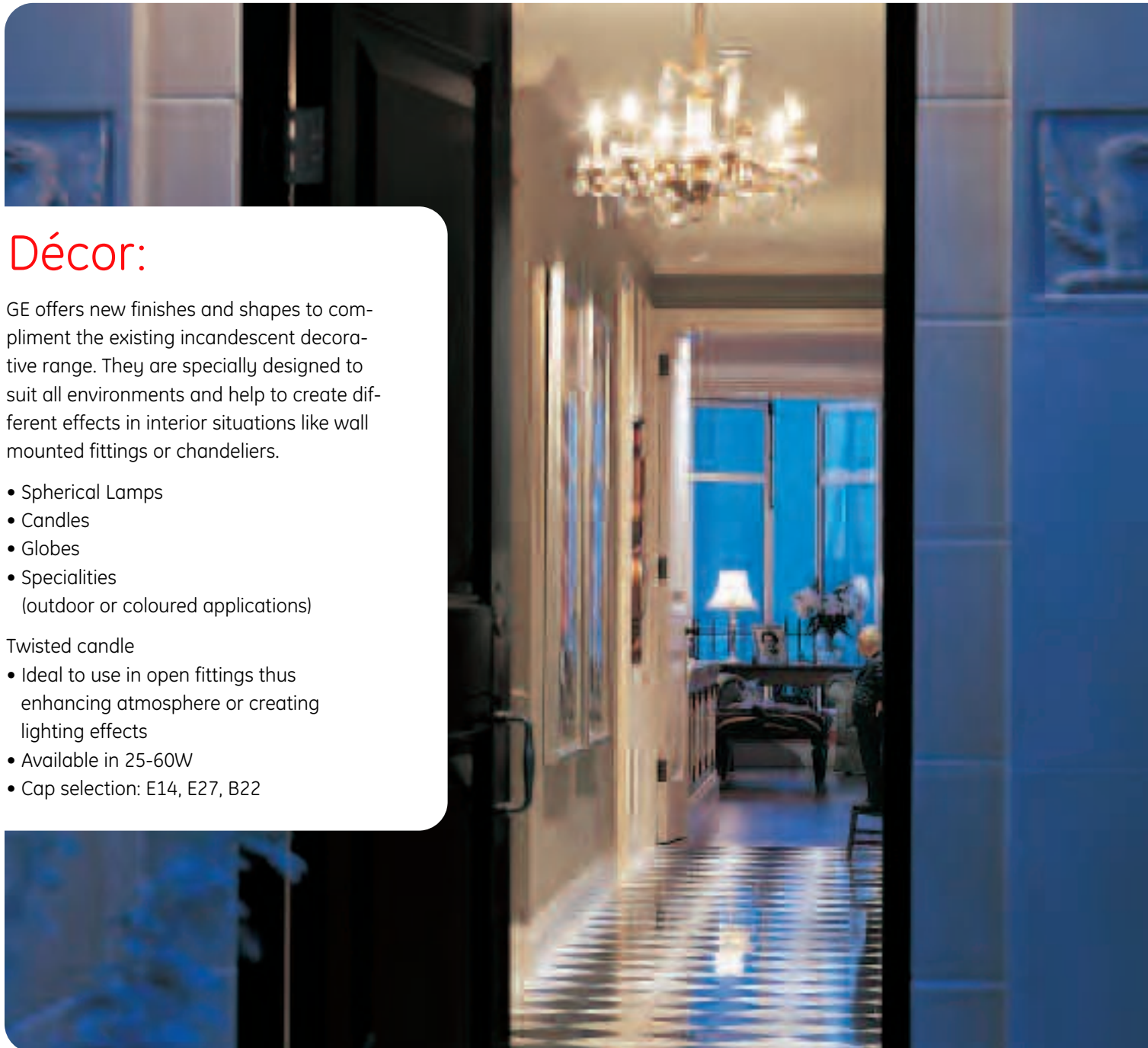
Décor:

GE offers new finishes and shapes to compliment the existing incandescent decorative range. They are specially designed to suit all environments and help to create different effects in interior situations like wall mounted fittings or chandeliers.

- Spherical Lamps
- Candles
- Globes
- Specialities
(outdoor or coloured applications)

Twisted candle

- Ideal to use in open fittings thus enhancing atmosphere or creating lighting effects
- Available in 25-60W
- Cap selection: E14, E27, B22



SPHERICAL FAMILY Decorative Round Lamps

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear									
15	230	E14	45	15D1/CL/E14	90	1000	1/10/50	F	92002
25	230	E14	45	25D1/CL/E14	200	1000	10/100	F	19781
40	230	E14	45	40D1/CL/E14	400	1000	10/100	E	19788
60	230	E14	45	60D1/CL/E14	660	1000	10/100	E	19791
25	240	E14	45	25D1/CL/E14	200	1000	1/10/50	F	19775
40	240	E14	45	40D1/CL/E14	400	1000	1/10/50	E	19782
60	240	E14	45	60D1/CL/E14	660	1000	1/10/50	E	19784
15	230	E27	45	15D1/CL/E27	90	1000	1/10/50	F	91917
25	230	E27	45	25D1/CL/E27	200	1000	1/10/50	F	90564
40	230	E27	45	40D1/CL/E27	400	1000	1/10/50	E	90565
60	230	E27	45	60D1/CL/E27	660	1000	1/10/50	E	91593
15	230	B22	45	15D1/CL/B22	90	1000	1/10/50	F	91911
25	230	B22	45	25D1/CL/B22	200	1000	1/10/50	F	91987
40	230	B22	45	40D1/CL/B22	400	1000	1/10/50	E	91989
60	230	B22	45	60D1/CL/B22	660	1000	1/10/50	E	91991
frosted									
15	230	E14	45	15D1/FR/E14	90	1000	1/10/50	F	92003
25	230	E14	45	25D1/FR/E14	200	1000	10/100	F	19787
40	230	E14	45	40D1/FR/E14	400	1000	10/100	E	19789
60	230	E14	45	60D1/FR/E14	660	1000	10/100	E	19793
25	240	E14	45	25D1/FR/E14	200	1000	1/10/50	F	19777
40	240	E14	45	40D1/FR/E14	400	1000	1/10/50	E	19778
60	240	E14	45	60D1/FR/E14	660	1000	1/10/50	E	19786
15	230	E27	45	15D1/FR/E27	90	1000	1/10/50	F	90569
25	230	E27	45	25D1/FR/E27	200	1000	1/10/50	F	90566
40	230	E27	45	40D1/FR/E27	400	1000	1/10/50	E	90567
60	230	E27	45	60D1/FR/E27	660	1000	1/10/50	E	90568
15	230	B22	45	15D1/FR/B22	90	1000	1/10/50	F	91912
25	230	B22	45	25D1/FR/B22	200	1000	1/10/50	F	91988
40	230	B22	45	40D1/FR/B22	400	1000	1/10/50	E	91990
60	230	B22	45	60D1/FR/B22	660	1000	1/10/50	E	91594

DAYLIGHT – where crisp colors matter at work and hobby

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
40	230	E14	45	40D1/DAY/E14	200	1000	1/10/50	G	12582
60	230	E14	45	60D1/DL/E14	330	1000	1/10/50	G	12516

CROWN MIRRORED LAMPS – Directed light

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
silver crown mirrored									
25	230	E14	45	25D1/SB/E14	150	1000	1/10/50	G	19796
40	230	E14	45	40D1/SB/E14	260	1000	1/10/50	G	18210
40	230	E27	60	40A1/SB/E27	290	1000	1/10/50	G	91130
60	230	E27	60	60A1/SB/E27	500	1000	1/10/50	G	91131
100	230	E27	60	100A1/SB/E27	1000	1000	1/50	G	22584
gold crown mirrored									
25	230	E14	45	25D1/GB/E14	130	1000	1/25	G	91918
40	230	E14	45	40D1/GB/E14	230	1000	1/5/50	G	90557
40	230	E27	60	40A1/GB/E27	260	1000	1/10/50	G	91135
60	230	E27	60	60A1/GB/E27	450	1000	1/10/50	G	91136

T45 SOFTLIGHT ELEGANCE – Low glare in white and soft colors

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
opal									
25	230	E14	45	25T45/SL/E14	175	1000	1/10/50	F	90563
40	230	E14	45	40T45/SL/E14	350	1000	1/10/50	F	90562
60	230	E14	45	60T45/SL/E14	600	1000	1/10/50	F	91952
rose									
40	230	E14	45	40T/SL-ROSE/E14	300	1000	1/20	G	90796
apricot									
40	230	E14	45	40T/SL-APRICOT/E14	320	1000	1/20	F	90797
Gold • Dorée									
25	230	E14	45	25WSPH/CMRGold/E14	130	1000	1/25	G	91918
Kroko-Gold									
25	230	E14	45	25D1/Kroko-Gold/E14	150	1000	1/25	G	91920
Ice Crystal Opal									
25	230	E14	45	25D1/IceCR-WH/E14	160	1000	1/25	G	91615
40	230	E14	45	40D1/IceCR-WH/E14	350	1000	1/25	F	91921
Ice Crystal Amber									
25	230	E14	45	25D1/IceCR-AM/E14	150	1000	1/25	G	91919



CANDLE FAMILY CANDLE LAMPS – Favorite shape in chandeliers

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear									
25	120/125	E14	35	25C1/CL/E14	220	1000	1/10/50	E	91676
40	120/125	E14	35	40C1/CL/E14	440	1000	1/10/50	E	91674
60	120/125	E14	35	60C1/CL/E14	720	1000	1/10/50	E	91678
25	230	E14	35	25C1/CL/E14	200	1000	1/10/50	F	90488
40	230	E14	35	40C1/CL/E14	400	1000	1/10/50	E	90487
60	230	E14	35	60C1/CL/E14	660	1000	1/10/50	E	90480
25	230	E27	35	25C1/CL/E27	200	1000	1/10/50	F	10870
40	230	E27	35	40C1/CL/E27	400	1000	1/10/50	E	10871
60	230	E27	35	60C1/CL/E27	660	1000	1/10/50	E	10873
frosted									
15	230	E14	35	15C1/FR/E14	90	1000	1/10/50	F	91346
25	230	E14	35	25C1/FR/E14	200	1000	1/10/50	F	91322
40	230	E14	35	40C1/FR/E14	400	1000	1/10/50	E	91323
60	230	E14	35	60C1/FR/E14	660	1000	1/10/50	E	91534
25	240	E14	35	25C1/FR/E14	200	1000	1/10/50	F	91680
40	240	E14	35	40C1/FR/E14	400	1000	1/10/50	E	91682
60	240	E14	35	60C1/FR/E14	660	1000	1/10/50	E	91683
25	230	B22	35	25C1/FR/B22	200	1000	1/10/50	F	91634
40	230	B22	35	40C1/FR/B22	400	1000	1/10/50	E	91636
60	230	B22	35	60C1/FR/B22	660	1000	1/10/50	E	91653
opal									
25	230	E27	35	25C1/O/E27	180	1000	1/10/50	F	10875
40	230	E27	35	40C1/O/E27	360	1000	1/10/50	F	10877
60	230	E27	35	60C1/O/E27	600	1000	1/10/50	F	10878







SOFTLIGHT ELEGANCE – Low glare in white and soft colours

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
opal									
25	230	E14	35	25C1/SL/E14	180	1000	1/10/50	F	90483
40	230	E14	35	40C1/SL/E14	360	1000	1/10/50	F	90482
60	230	E14	35	60C1/SL/E14	600	1000	1/10/50	F	90481


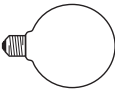


DECOR CANDLE LAMPS - Eye catching design

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code	
twisted candles										
clear										
	15	230	E14	35	15TC1/CL/E14	90	1000	1/10/50	F	10823
	25	230	E14	35	25TC1/CL/E14	200	1000	1/10/50	F	10826
	40	230	E14	35	40TC1/CL/E14	400	1000	1/10/50	E	10827
	60	230	E14	35	60TC1/CL/E14	660	1000	1/10/50	E	10828
	25	240	B22	35	25TC1/CL/B22	200	1000	1/10/50	F	91734
	twisted candles frosted									
	15	230	E14	35	15TC1/FR/E14	90	1000	1/10/50	F	10830
	25	230	E14	35	25TC1/FR/E14	200	1000	1/10/50	F	10831
	40	230	E14	35	40TC1/FR/E14	400	1000	1/10/50	E	10832
	60	230	E14	35	60TC1/FR/E14	660	1000	1/10/50	E	10833
	twisted candles Gold Glossed									
	40	230	E14	35	40TC1/GDGoss-CL/E14	320	1000	1/10/50	F	91324
	bent-tip candles									
frosted										
	25	230	E14	35	25C1/BentTip/Fr/E14	200	1000	1/25	F	27148
	40	230	E14	35	40C1/BentTip/Fr/E14	400	1000	1/25	E	27151
	25	240	B22	35	25C1/BentTip/Fr/B22	200	1000	1/25	F	27182
	40	240	B22	35	40C1/BentTip/Fr/B22	400	1000	2/12	E	27166
	40	240	E14	35	40C1/BentTip/Fr/E14	400	1000	2/12	E	27171
	60	240	B22	35	60C1/BentTip/Fr/B22	660	1000	2/12	E	27172
	60	240	E14	35	60C1/BentTip/Fr/E14	660	1000	2/12	E	27176
clear										
	25	240	B22	35	25C1/BentTip/Cl/B22	200	1000	1/25	F	27177
	40	240	B22	35	40C1/BentTip/Cl/B22	400	1000	2/12	E	27158
	40	240	B15	35	40C1/BentTip/Cl/B15	400	1000	2/12	E	27160
	40	240	E14	35	40C1/BentTip/Cl/E14	400	1000	2/12	E	27190
	60	240	B22	35	60C1/BentTip/Cl/B22	660	1000	2/12	E	27162
	60	240	B15	35	60C1/BentTip/Cl/B15	660	1000	2/12	E	27164
	60	240	E14	35	60C1/BentTip/Cl/E14	660	1000	2/12	E	27192
gold										
	40	240	E14	35	40C1/BentTip/Gold/E14	350	1000	2/12	E	27194

GLOBE FAMILY

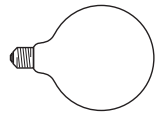
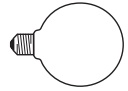
SOFTLIGHT GLOBE LAMPS - Soft decor finishes in giant sizes

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code	
opal - ø 60 mm										
	25	230	E14	60	25G60/O/E14	160	2000	1/25	G	91099
	40	230	E14	60	40G60/O/E14	290	2000	1/25	G	91100
	60	230	E14	60	60G60/O/E14	490	2000	1/25	G	91158
	40	230	E27	60	40G60/O/E27	290	2000	1/25	G	91143
	60	230	E27	60	60G60/O/E27	490	2000	1/25	G	91144
Opal - ø 80 mm										
	40	230	E27	80	40G80/O/E27	290	2000	1/20	G	91104
	60	230	E27	80	60G80/O/E27	490	2000	1/20	G	91109
	100	230	E27	80	100G80/O/E27	890	2000	1/20	G	91147

GLOBE FAMILY continued

SOFTLIGHT GLOBE LAMPS - Soft decor finishes in giant sizes

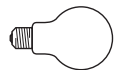
Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
Opal - ø 95 mm									
40	230	E27	95	40G95/O/E27	290	2000	1/20	G	91115
60	230	E27	95	60G95/O/E27	490	2000	1/20	G	91116
75	230	E27	95	75G95/O/E27	650	2000	1/20	G	91458
100	230	E27	95	100G95/O/E27	890	2000	1/20	G	91117
Opal - ø 125 mm									
60	230	E27	125	60G125/O/E27	490	2000	1/20	G	91093
100	230	E27	125	100G125/O/E27	890	2000	1/20	G	91095
150	230	E27	125	150G125/O/E27	1360	2000	1/20	G	91244
Eldea opal									
25	230	E14	72	25ELDEA/O/E14	160	2500	1/25	G	92604
40	230	E14	72	40ELDEA/O/E14	350	2500	1/25	F	92605
Elroyal opal									
40	230	E27	61	40ELROYAL/O/E27	360	2500	1/25	F	32897



SPECIALITY FAMILY – For party decoration and other applications

Coloured General Lighting Service

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
red									
15	230	E27	60	15A1/R/E27	N/A	1000	1/10/50	N/A	91930
25	230	E27	60	25A1/R/E27	N/A	1000	1/10/50	N/A	91162
orange									
15	230	E27	60	15A1/O/E27	N/A	1000	1/10/50	N/A	91929
25	230	E27	60	25A1/O/E27	N/A	1000	1/10/50	N/A	91165
yellow									
15	230	E27	60	15A1/Y/E27	N/A	1000	1/10/50	N/A	91931
25	230	E27	60	25A1/Y/E27	N/A	1000	1/10/50	N/A	91166
60	230	E27	60	60A1/Y/E27	N/A	1000	1/10/50	N/A	91935
green									
15	230	E27	60	15A1/G/E27	N/A	1000	1/10/50	N/A	91928
25	230	E27	60	25A1/G/E27	N/A	1000	1/10/50	N/A	91164
60	230	E27	60	60A1/G/E27	N/A	1000	1/10/50	N/A	91942
blue									
15	230	E27	60	15A1/B/E27	N/A	1000	1/10/50	N/A	91927
25	230	E27	60	25A1/B/E27	N/A	1000	1/10/50	N/A	91163
60	230	E27	60	60A1/B/E27	N/A	1000	1/10/50	N/A	91932



Coloured Decorative Round Lamps



Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
red									
15	230	E14	45	15D1/R/E14	N/A	1000	1/10/50	N/A	90525
15	230	E27	45	15D1/R/E27	N/A	1000	1/10/50	N/A	90531
orange									
15	230	E27	45	15D1/O/E27	N/A	1000	1/10/50	N/A	90528
yellow									
15	230	E14	45	15D1/Y/E14	N/A	1000	1/10/50	N/A	90526
15	230	E27	45	15D1/Y/E27	N/A	1000	1/10/50	N/A	90527
green									
15	230	E14	45	15D1/G/E14	N/A	1000	1/10/50	N/A	92004
15	230	E27	45	15D1/G/E27	N/A	1000	1/10/50	N/A	91521
blue									
15	230	E14	45	15D1/B/E14	N/A	1000	1/10/50	N/A	92001
15	230	E27	45	15D1/B/E27	N/A	1000	1/10/50	N/A	91522

Coloured Candle Lamps



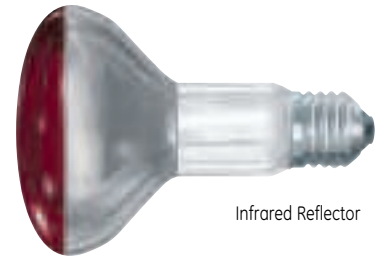
Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
red									
15	230	E14	35	25C1/R/E14	N/A	1000	1/10/50	N/A	90525
yellow									
25	230	E14	35	25C1/Y/E14	N/A	1000	1/10/50	N/A	90526
green									
25	230	E14	35	25C1/G/E14	N/A	1000	1/10/50	N/A	92004
blue									
25	230	E14	35	25C1/B/E14	N/A	1000	1/10/50	N/A	92001

Coloured PYGMY Lamps



Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
Blue									
15	240	E14	28	15P1/B/E14	N/A	1000	1/50	N/A	12318
Green									
15	240	E14	28	15P1/G/E14	N/A	1000	1/50	N/A	12587
Red									
15	240	E14	28	15P1/R/E14	N/A	1000	1/50	N/A	12585
Yellow									
15	240	E14	28	15P1/Y/E14	N/A	1000	1/50	N/A	12586

Reflector lamps



Infrared Reflector

GE Reflector is a lamp range constructed from blown glass bulbs with an interior mirror finish which directs light more efficiently to the required area or object to be illuminated.

- Reflector R39-R95
- PAR Reflector lamps
- Enrich lamps
- Long life Reflector lamps
- Infralamps
- Coloured Reflector lamps (e.g. disco)

Infrared Reflector lamps






These Infrared Reflector lamps convert power into clean, simple and convenient sources of radiant heat. Typical applications range from livestock raising, to industrial drying processes where the control and uniformity of heat distribution is advantageous.

Spot Reflector

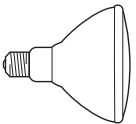
- Available in White Satin or in different colors (Disco)
- Sizes are: R39, R50, R63, R80, R95
- E14/E27/B22 caps available
- In 25W-30W-40W-60W-75W-100W types






REFLECTOR LAMPS – Spot lighting directs light

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Candela	Life (h)	Pack Qty	EEC	Product Code
										
ø 39 mm										
25	230	E14	39	25R39/E14	N/A	65	1000	1/10/100	N/A	91523
30	230	E14	39	30R39/E14	N/A	80	1000	10/100	N/A	91524
										
ø 50 mm										
25	230	E14	50	25R50/E14	N/A	130	1000	10/50	N/A	92373
40	230	E14	50	40R50/E14	N/A	250	1000	10/50	N/A	92366
60	230	E14	50	60R50/E14	N/A	350	1000	10/50	N/A	91327
										
ø 63 mm										
60	120/125	E27	63	60R63/E27	N/A	720	1000	1/10/40	N/A	92130
40	230	E27	63	40R63/E27	N/A	350	1000	10/40	N/A	91079
60	230	E27	63	60R63/E27	N/A	550	1000	10/40	N/A	91080
										
ø 80 mm										
60	120/125	E27	80	60R80/E27	N/A	250	1000	1/10/40	N/A	92127
40	230	E27	80	40R80/E27	N/A	140	1000	1/10	N/A	92858
60	230	E27	80	60R80/E27	N/A	240	1000	1/10	N/A	92839
75	230	E27	80	75R80/E27	N/A	320	1000	1/10	N/A	92859
100	230	E27	80	100R80/E27	N/A	450	1000	1/10	N/A	92860
										
ø 95 mm										
75	230	E27	95	75R95/E27	N/A	1000	1000	1/32	N/A	91351
100	230	E27	95	100R95/E27	N/A	1350	1000	1/32/	N/A	91366
150	230	E27	95	150R95/E27	N/A	2000	1000	1/32	N/A	91367



PAR 38 Reflector Watt-Miser™ – Energy efficient and outdoor applications

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Candela	Life (h)	Pack Qty	EEC	Product Code
										
Spot clear										
60	230	E27	122	60PAR/SP/E27	N/A	3400	2000	1/12	N/A	91572
80	230	E27	122	80PAR/SP/E27	N/A	5400	2000	1/12	N/A	91577
120	230	E27	122	120PAR/SP/E27	N/A	9300	2000	1/12	N/A	91576
Flood clear										
60	230	E27	122	60PAR/FL/E27	N/A	1200	2000	1/12	N/A	91575
80	230	E27	122	80PAR/FL/E27	N/A	1800	2000	1/12	N/A	91574
120	230	E27	122	120PAR/FL/E27	N/A	3100	2000	1/12	N/A	91573

ENRICH REFLECTOR LAMPS – True natural colours

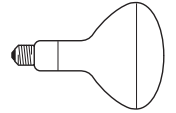
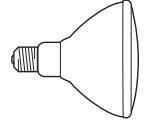
Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Candela	Life (h) Qty	Pack	EEC	Product Code
										
ø 50 mm										
25	230	E14	50	25R50/E14/230V/ENRICH	N/A	N/A	1000	1/25	N/A	91392
40	230	E14	50	40R50/E14/230V/ENRICH	N/A	N/A	1000	1/25	N/A	91393
										
ø 63 mm										
60	230	E27	63	60R63/E27/230V/ENRICH	N/A	N/A	1000	1/25	N/A	91340
										
ø 80 mm										
60	230	E27	80	60R80/E27/230V/ENRICH	N/A	N/A	1000	1/20	N/A	91344
100	230	E27	80	100R80/E27/230V/ENRICH	N/A	N/A	1000	1/20	N/A	91345

LONG LIFE REFLECTOR LAMPS – Longer service lower maintenance

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Candela	Life (h) Qty	Pack	EEC	Product Code
										
Pluslife ø 63 mm										
40	240	E27	63	40R63/PL/E27	N/A	300	3500	1/10	N/A	47978
60	240	E27	63	60R63/PL/E27	N/A	450	3500	1/10	N/A	42831
										
ø 80 mm										
60	240	E27	80	60R80/PL/E27	N/A	200	3500	1/10	N/A	42830
100	240	E27	80	100R80/PL/E27	N/A	400	3500	1/10	N/A	42837

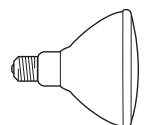
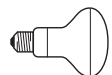
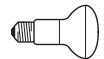
Infrared Reflector Lamps – Heating and healing

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Candela	Life (h) Qty	Pack	EEC	Product Code
Infrared PAR 38										
100	240	E27	122	100PAR/IR/E27	N/A	N/A	5000	1/10	N/A	92060
175	240	E27	122	175PAR/IR/E27	N/A	N/A	5000	1/10	N/A	91542
Infrared reflector – clear										
150	235/245	E27	125	150R/IR/CL/E27	N/A	N/A	5000	1/9	N/A	28720
250	235/245	E27	125	250R/IR/CL/E27	N/A	N/A	5000	1/9	N/A	28724
275	235/245	E27	125	275R/IR/CL/E27	N/A	N/A	5000	1/9	N/A	32569
Infrared reflector – red										
150	240	E27	125	150R/IR/R/E27	N/A	N/A	5000	1/10	N/A	91372
250	240	E27	125	250R/IR/R/E27	N/A	N/A	5000	1/10	N/A	91391
Infrared reflector – satin										
150	240	E27	125	150R/IR/SA/E27	N/A	N/A	5000	1/10	N/A	91288
250	240	E27	125	250R/IR/SA/E27	N/A	N/A	5000	1/10	N/A	91390
275	235/245	E27	125	275R/IR/SA/E27	N/A	N/A	5000	1/9	N/A	32296



COLOURED REFLECTOR LAMPS – Decorative spot lighting

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Candela	Life (h) Qty	Pack	EEC	Product Code
Reflector Disco ø 50 mm										
red										
40	230	E14	50	40R50/R/E14	N/A	N/A	1000	1/25	N/A	91386
yellow										
40	230	E14	50	40R50/Y/E14	N/A	N/A	1000	1/25	N/A	91388
green										
40	230	E14	50	40R50/G/E14	N/A	N/A	1000	1/25	N/A	91389
blue										
40	230	E14	50	40R50/B/E14	N/A	N/A	1000	1/25	N/A	91387
ø 63 mm										
red										
40	230	E27	63	40R63/R/E27	N/A	N/A	1000	1/25	N/A	91532
yellow										
40	230	E27	63	40R63/Y/E27	N/A	N/A	1000	1/25	N/A	91531
green										
40	230	E27	63	40R63/G/E27	N/A	N/A	1000	1/25	N/A	91533
blue										
40	230	E27	63	40R63/B/E27	N/A	N/A	1000	1/25	N/A	91530
ø 80 mm										
red										
60	230	E27	80	60R80/R/E27	N/A	N/A	1000	1/40	N/A	91528
yellow										
60	230	E27	80	60R80/Y/E27	N/A	N/A	1000	1/40	N/A	91527
green										
60	230	E27	80	60R80/G/E27	N/A	N/A	1000	1/40	N/A	91526
blue										
60	230	E27	80	60R80/B/E27	N/A	N/A	1000	1/40	N/A	91525
PAR 38 Colorplus										
red										
80	230	E27	122	80PAR/FL/R/E27	N/A	N/A	2000	1/12	N/A	91540
yellow										
80	230	E27	122	80PAR/FL/Y/E27	N/A	N/A	2000	1/12	N/A	91539
green										
80	230	E27	122	80PAR/FL/G/E27	N/A	N/A	2000	1/12	N/A	91543
blue										
80	230	E27	122	80PAR/FL/B/E27	N/A	N/A	2000	1/12	N/A	91578



Incandescent lamps

Pygmy/Tubular lamps



These lamps are intended to be used in confined spaces of housing or industrial applications.

- Fridge lamps
- Oven lamps
- Cooker hood lamps
- Sewing machine lamps
- Tubular lamps



Pygmy Lamps

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear									
15	110	E14	28	15P1/CL/E14	90	1000	1/50	F	31821
15	110	B15	28	15P1/CL/B15	90	1000	1/50	F	31816
15	110	B22	28	15P1/CL/B22	90	1000	1/50	F	31811
15	230	E14	28	15P1/CL/E14	90	1000	1/50	F	12512
25	230	E14	28	25P1/CL/E14	190	1000	10/50	F	91955
25	230	E14	28	25P1/CL/E14	190	1000	500	F	37916
15	240	E14	28	15P1/CL/E14	90	1000	1/10/50	F	91950
15	240	B15	28	15P1/CL/B15	90	1000	1/10/50	F	91780
15	240	B22	28	15P1/CL/B22	90	1000	1/10/50	F	91948
25	240	E14	28	25P1/CL/E14	190	1000	1/10/50	F	34420
25	240	B22	28	25P1/CL/B22	190	1000	1/10/50	F	34422
frosted									
15	230	E14	26	15P1/FR/E14	90	1000	1/10/50	F	92047
25	230	E14	28	25P1/FR/E14	190	1000	1/10/50	F	92048



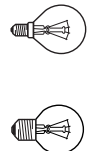
Fridge Lamps

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear fridge									
15	230	E14	26	15P1/CL/E14	90	1000	10/50	F	92046
15	230	E14	26	15P1/CL/E14	90	1000	500	F	149052



Oven Lamps

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear oven									
15	230-240	E14	22	15P1/CL/E14 OVEN	85	1000	1/50	F	12447
25	230	E14	26	25P1/CL/E14 OVEN	190	1000	1/50	G	43381
25	230	E27	45	25D1/CL/E27 OVEN	142	300	1/10/100	G	12513
40	230	E14	45	40D1/CL/E14 OVEN	320	300	1/10/50	F	12462
40	230	E27	45	40D1/CL/E27 OVEN	320	300	1/10/100	F	12515



TUBULAR T25 LAMPS – Cooker hoods, painting or furniture lighting

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
15	230	E14	25	15T25/CL/E14	90	1000	1/50	F	13118
25	230	E14	25	25T25/CL/E14	190	1000	1/50	F	13119



TUBULAR T28 LAMPS – Cooker hoods, painting or furniture lighting

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear									
25	230	E14	28	25T28/CL/E14	200	1000	1/50	F	13109
40	230	E14	28	40T28/CL/E14	400	1000	1/50	E	13110
60	230	E14	28	60T28/CL/E14	660	1000	1/50	E	13111
25	230	B22	28	25T28/CL/B22	200	1000	1/50	F	13117
opal									
40	230	E14	28	40T28/O/E14	400	1000	2/20	E	17688
60	230	E14	28	60T28/O/E14	660	1000	2/20	E	17690



Incandescent lamps

Incandescent lamps
for special application



Traffic Lights Lamp

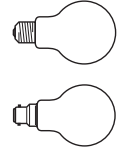
This incandescent lamp group features those products which are ideal for tough conditions in special areas of applications such as:

- Rough service
- Traffic lights
- Extra Low Volt lamps



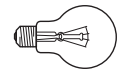
Rough Service Lamps

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
frosted									
60	120	E27	60	60A1/FR/RS/E27	450	1500	1/20	G	31546
100	120	E27	60	100A1/FR/RS/E27	840	3000	1/20	G	31573
40	230/240	E27	60	40A1/FR/RS/E27	250	3000	1/20	G	91228
60	230/240	E27	60	60A1/FR/RS/E27	500	3000	1/20	G	91229
100	230/240	E27	60	100A1/FR/RS/E27	880	3000	1/20	G	91227
40	120	B22	60	40A1/FR/RS/B22	300	1500	1/20	G	31519
60	120	B22	60	60A1/FR/RS/B22	450	3000	1/20	G	31535
100	120	B22	60	100A1/FR/RS/B22	840	3000	1/20	G	31560
100	230/240	B22	60	100A1/FR/RS/B22	880	3000	1/20	G	92018



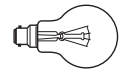
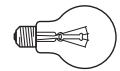
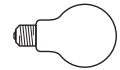
Traffic Lights

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
clear									
40	230	E27	60	40A1/CL/E27	230	3000	1/10/100	G	35218
70	230	E27	60	70A1/CL/E27	420	3000	1/10/100	G	35238
60	230	E27	60	60A1/CL/E27	380	3000	1/10/100	G	35239
65	240	E27	60	65A1/CL/E27	400	3000	1/10/100	G	35240
100	230	E27	60	100A1/CL/E27	830	3000	1/10/10	G	22620
40	230	E27	60	40A1/EXTERIOR/CL/E27	230	3000	1/15	G	91293
60	230	E27	60	60A1/EXTERIOR/CL/E27	380	3000	1/15	G	91294



Low & Extra Low Voltage GLS Lamps

Watts	Volts	Cap	Diameter mm	Product Description	Lumens	Life (h)	Pack Qty	EEC	Product Code
frosted									
40	24	E27	60	24V40/FR/E27	570	1000	1/10/100	D	91874
60	24	E27	60	24V60/FR/E27	900	1000	1/10/100	D	91875
100	24	E27	60	24V100/FR/E27	1700	1000	1/10/100	D	91873
60	42	E27	60	42V60/FR/E27	840	1000	10/100	D	29051
clear									
25	24	E27	60	24V25/CL/E27	300	1000	1/10/100	D	35178
40	24	E27	60	24V40/CL/E27	570	1000	1/10/100	D	91876
60	24	E27	60	24V60/CL/E27	900	1000	1/10/100	D	91877
100	24	E27	60	24V100/CL/E27	1700	1000	1/10/100	D	35174
40	24	B22	60	24V40/CL/B22	570	1000	1/10/100	D	91879
60	24	B22	60	24V60/CL/B22	900	1000	1/10/100	D	91878



Halogen lamps

GE invented and marketed the world's first halogen lamp in 1958.

Halogen lamps provide outstanding light quality – the crisp white light delivers superior colour reproduction.

They are more energy efficient than conventional incandescent lamps and offer a longer life – all within a compact size.

Other features include outstanding beam control, UV control, heat reflective coatings that protect display items and a unique 'twist and lock' cap which makes installation easy and safe.



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Halogen lamps

Product identification

The following glossary of terms and descriptions can help you when checking halogen lamp specifications and explains how to use the product codes when ordering products. Within each product line, lamps are divided into families – within families, lamps are listed by wattage.

Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

Beam Spread Degrees: The angle of the cone of light produced by a reflector lamp at 50% of its intensity

Product Code: It is important to use this code when ordering to ensure that you receive the exact product you require

Volts: Each lamp's voltage is listed

Product Description: The lamp's identification code

Length: Expressed in mm

Pack Quantity: The number of lamps in one box

Precise™ MR16 ConstantColor™ – UV Control

Watts	Volts	Product Description	Cap	Length	Diameter	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	EE Class	Product Code
ø 50 mm – open dichroic mirror												
75	12	EYF/CC	GU5.3	46	50.7	15	11500	3050	4000	10	-	20843
75	12	EYJ/CC	GU5.3	46	50.7	25	5500	3050	4000	10	-	20841
75	12	EYC/CC	GU5.3	46	50.7	42	2000	3050	4000	10	-	20840

Lamp: Description of lamp type, and product features

Cap: The type of cap fitted

Peak Beam Candelas: Luminous intensity of the lamp beam expressed in candelas

Rated Average Life: The point in time when 50% of installed lamps are still burning

Energy Efficiency Class: Energy saving code

EYC/CC

ANSI – Code

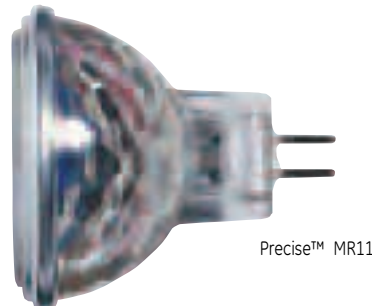
Product Feature, eg. Cover glass

CCT K: Colour temperature – Kelvin. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

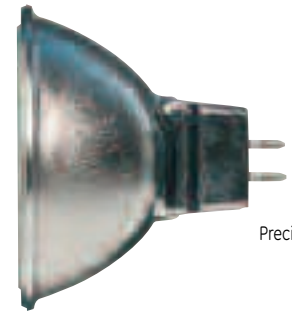


Precise™ MR16 & MR11

If you're looking for halogen, aim for a Precise™ solution



Precise™ MR11



Precise™ MR16

- **Cool, white light, precise beam** control, excellent colour performance and a lamp life of up to 6,000 hours.
- **Ideal for retail display lighting,** decorative lighting and spotlighting of individual features – including heat sensitive items.
- **Choose from a wide range of** beam angles and select Precise™ MR16 lamps for ultra – violet control.

Choose:

Precise™ ConstantColor™ MR16

for consistent light quality and exceptional long life.

Precise™ Bright MR16

for outstanding light output in a mid range lamp.

Precise™ Alutech™ MR16

for all your heat sensitive halogen fixtures.

Precise™ Bright MR11

for high output, light quality and long life in an extra compact form.

Range of beam angles

GE Precise™ MR16 lamps offer a choice of nominal beam angles from 8° to 60°. The range of beam angles can be used to either highlight single features with a tight focus to provide a wash of ambient lighting and a variety of effects achievable with intermediate beams.

8°angle



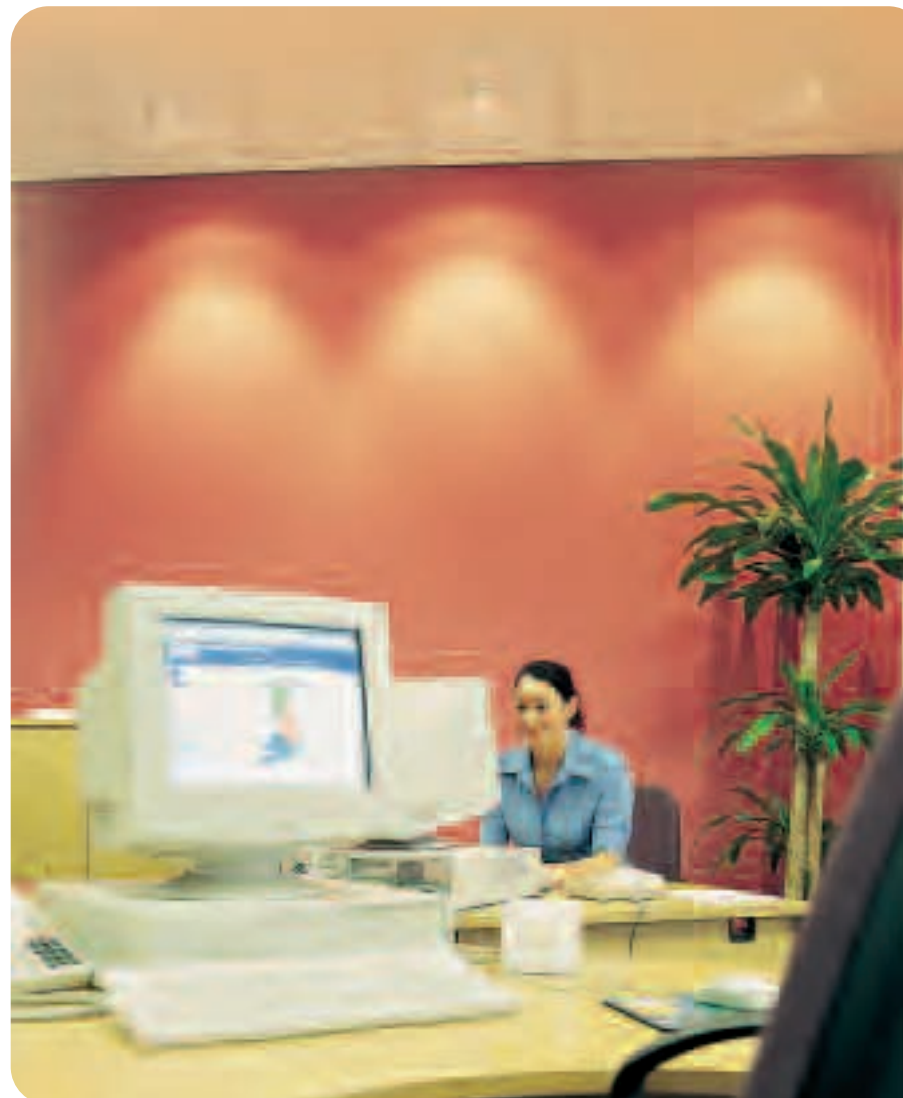
24°angle



36°angle



60°angle



Applications:

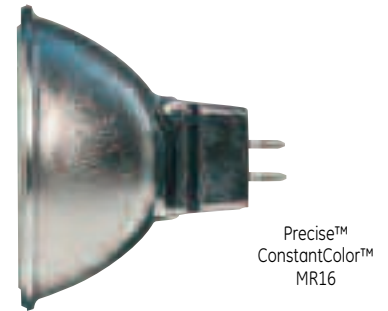
retail display lighting, decorative lighting and spotlighting of individual features.

Halogen lamps

Low voltage

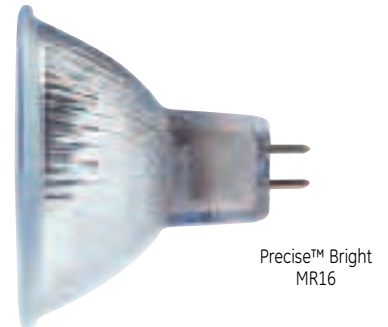
Precise™ ConstantColor™ MR16

A long lasting premium quality halogen lamp, the Precise™ ConstantColor™ lamp features revolutionary GE Thin Film Technology to give consistent light output for the 6000 hour life of the lamp. The advanced coating is designed to withstand temperatures of up to 500°C, making it the ideal choice for long-term reliability and consistent light quality.



Precise™ Bright MR16

Precise™ Bright sets new performance standards offering outstanding long life, outstanding light output and beam quality. Its advanced, computer-designed reflector gives a smooth beam and outstanding light output compared to similar lamps. Precise™ Bright is available in both open and closed forms.



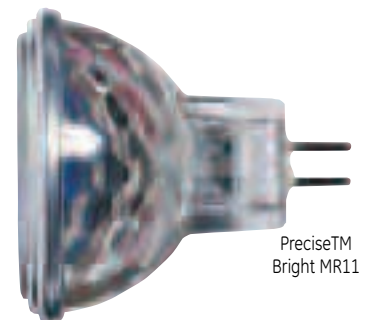
Precise™ Alutech™ MR16

The perfect choice for heat sensitive halogen fixtures. For many years finding a halogen lamp suitable for high technology electronic fixtures was a problem. Precise™ Alutech is the answer. With a GE developed aluminium coating, almost all of the heat is reflected away from the fixture. Throwing heat forward has advantages in downlighters like minimising heat build up in ceiling voids.



Precise™ Bright MR11

The extra compact, high performance halogen lamp GE Precise™ Bright MR11 packs the high output, light quality and long life of halogen into an extra compact form, making it ideal where space is at a premium.

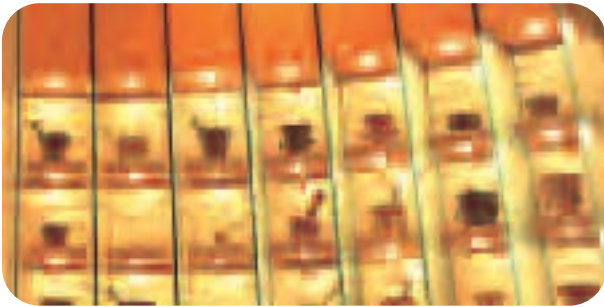


AR111

The GE AR111 Aluminium faceted reflector for a better beam control has been designed to direct light and heat forward to ensure full protection for the gear. AR111 provides bright and white halogen quality of light (up to 2950K) especially suitable for decorative and architectural lighting.



Halogen lamps Low voltage



- Up to 6000 hours life
- 98–99% Lumen maintenance
- Double sided dichroic coating
- With UV control
- The most consistent light output available



- Up to 4000 hours life
- Outstanding light output and beam quality
- Upgraded reflector
- UV control in both open and closed forms



- Heat reflected forward
- Ideal for heat sensitive fixtures
- 3000 hours life
- With UV control



- Extra-compact 35 mm size – perfect for lighting cabinet displays
- 3500 hours life
- Closed lamps with UV control



- Metal cap over filament to avoid direct glare effect and hot point
- UV-block to reduce bleaching effect
- Long life up to 3,000 hours
- 75%+ lumen maintenance to lower maintenance costs

Halogen lamps

Low voltage

Precise™ MR16 ConstantColor™ – UV Control

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Lifel(h)	Pack Qty	Product Code
ø 50 mm – open dichroic mirror											
71	12	EYF/CC	GU5.3	46	50.7	15	11500	3050	4000	10	20843
71	12	EYJ/CC	GU5.3	46	50.7	25	5500	3050	4000	10	20841
71	12	EVC/CC	GU5.3	46	50.7	42	2000	3050	4000	10	20840
ø 50 mm – closed dichroic mirror											
20	12	ESX/CG	GU5.3	50.5	50.7	15	3150	2900	5000	10	20858
20	12	BAB/CG	GU5.3	50.5	50.7	40	475	2900	5000	10	20857
35	12	FRB/CG	GU5.3	50.5	50.7	12	7500	3050	5000	10	20864
35	12	FRA/CG	GU5.3	50.5	50.7	20	3200	3000	5000	10	20860
35	12	FMW/CG	GU5.3	50.5	50.7	40	900	3000	5000	10	20859
50	12	EXT/CG	GU5.3	50.5	50.7	14	8400	3050	6000	10	20872
50	12	EXZ/CG	GU5.3	50.5	50.7	25	2900	3050	6000	10	20871
50	12	EXN/CG	GU5.3	50.5	50.7	40	1500	3050	6000	10	20867
50	12	FNV/CG	GU5.3	50.5	50.7	55	850	3050	6000	10	20865
71	12	EYF/CG	GU5.3	50.5	50.7	15	10400	3050	4000	10	20876
71	12	EYJ/CG	GU5.3	50.5	50.7	25	4550	3050	4000	10	20874
71	12	EVC/CG	GU5.3	50.5	50.7	40	2000	3050	4000	10	20873



m	20W		35W		50W		71W	
	ESX/CG 12° Øm	lux	FRB/CG 12° Øm	lux	EXT/CG 14° Øm	lux	EYF/CG 15° Øm	lux
1	0.21	3150	0.21	7500	0.25	8400	0.26	11500
2	0.42	788	0.42	1875	0.49	2100	0.53	2875
3	0.63	350	0.63	833	0.74	933	0.79	1278
4	0.84	197	0.84	469	0.98	525	1.05	719
5	1.05	126	1.05	300	1.23	336	1.32	460

m	FRA/CG 20° Øm		EXZ/CG 25° Øm		EYJ/CG 25° Øm	
	lux	lux	lux	lux	lux	lux
1	0.35	3200	0.44	2900	0.44	4550
2	0.71	800	0.89	725	0.89	1138
3	1.06	356	1.33	322	1.33	506
4	1.41	200	1.77	181	1.77	284
5	1.76	128	2.22	116	2.22	182

m	BAB/CG 40° Øm		FMW/CG 40° Øm		EXN/CG 40° Øm		EVC/CG 40° Øm	
	lux	lux	lux	lux	lux	lux	lux	
1	0.73	475	0.73	900	0.73	1500	0.73	2000
2	1.46	119	1.46	225	1.46	375	1.46	500
3	2.18	53	2.18	100	2.18	167	2.18	222
4	2.91	30	2.91	56	2.91	94	2.91	125
5	3.64	19	3.64	36	3.64	60	3.64	80

m	FNV/CG 55° Øm	
	lux	lux
1	1.04	850
2	2.08	213
3	3.12	94
4	4.16	53
5	5.21	34



Precise™ Bright MR16 – UV Control

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Lifel(h)	Pack Qty	Product Code
ø 50 mm – open dichroic mirror											
20	12	M69/BAB	GU5.3	46	50.7	36	480	3000	4000	10	88231
35	12	M70/FRA	GU5.3	46	50.7	18	3210	2900	4000	10	88228
35	12	M81/FMW	GU5.3	46	50.7	36	1390	2900	4000	10	88229
50	12	M50/EXZ	GU5.3	46	50.7	18	5080	3000	4000	10	88233
50	12	M58/EXN	GU5.3	46	50.7	36	2250	3000	4000	10	88234
50	12	M80/FNV	GU5.3	46	50.7	60	1070	3000	4000	10	88232



ø 50 mm – closed dichroic mirror											
20	12	M268/ESX/CG	GU5.3	50.5	50.7	8	4000	2800	4000	10	88226
20	12	M269/BAB/CG	GU5.3	50.5	50.7	36	450	2800	4000	10	88235
35	12	M270/FRA/CG	GU5.3	50.5	50.7	18	3000	2900	4000	10	88230
35	12	M281/FMW/CG	GU5.3	50.5	50.7	36	1300	2900	4000	10	88236
50	12	M249/EXT/CG	GU5.3	50.5	50.7	8	8000	3000	4000	10	88227
50	12	M250/EXZ/CG	GU5.3	50.5	50.7	18	4750	3000	4000	10	88237
50	12	M258/EXN/CG	GU5.3	50.5	50.7	36	2100	3000	4000	10	88239
50	12	M280/FNV/CG	GU5.3	50.5	50.7	60	950	3000	4000	10	88238



m	20W		35W		50W	
	Open	Closed	Open	Closed	Open	Closed
	8° Øm	lux			8° Øm	lux
1	0.14	4000			0.14	8000
2	0.28	1000			0.28	2000
3	0.42	444			0.42	889
4	0.56	250			0.56	500
5	0.70	160			0.70	320

m	18°		18°	
	lux	Øm	lux	lux
1	3660	0.32	2950	5920
2	915	0.63	738	1480
3	407	0.95	328	658
4	229	1.27	184	370
5	146	1.58	118	237

m	36°		36°		36°	
	lux	Øm	lux	lux	Øm	lux
1	500	0.65	450	1620	0.65	2100
2	125	1.30	113	405	1.30	525
3	56	1.95	50	180	1.95	233
4	31	2.60	28	101	2.60	131
5	20	3.25	18	65	3.25	84

m	60°	
	lux	Øm
1	1190	1.15
2	298	2.31
3	132	3.46
4	74	4.62
5	48	5.77

Halogen lamps

Low voltage

Standard MR16

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
ø 50 mm – open dichroic mirror											
20	12	M69/BAB/STD	GU5.3	46	50.7	30	500	3000	3000	10	27460
35	12	M70/FRA/STD	GU5.3	46	50.7	18	3660	3000	3000	10	27477
35	12	M81/FMW/STD	GU5.3	46	50.7	30	1620	3000	3000	10	27465
50	12	M58/EXN/STD	GU5.3	46	50.7	30	2600	3000	3000	10	27467
50	12	M80/FNV/STD	GU5.3	46	50.7	55	1190	3000	3000	10	27468
ø 50 mm – closed dichroic mirror											
20	12	M269/BAB/CG/STD	GU5.3	50.5	50.7	30	450	3000	3000	10	27473
35	12	M270/FRA/CG/STD	GU5.3	50.5	50.7	18	2950	3000	3000	10	27487
35	12	M281/FMW/CG/STD	GU5.3	50.5	50.7	30	1300	3000	3000	10	27474
50	12	M250/EXZ/CG/STD	GU5.3	50.5	50.7	18	4750	3000	3000	10	27486
50	12	M258/EXN/CG/STD	GU5.3	50.5	50.7	30	2100	3000	3000	10	27475
50	12	M280/FNV/CG/STD	GU5.3	50.5	50.7	55	950	3000	3000	10	27476

Precise™ Alutech™ MR16 – UV Control

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
ø 50 mm – closed aluminised coating											
20	12	M269/BAB/CG/AL	GU5.3	50.5	50.7	36	450	3000	3000	10	88216
35	12	M281/FMW/CG/AL	GU5.3	50.5	50.7	36	1300	3000	3000	10	88217
50	12	M258/EXN/CG/AL	GU5.3	50.5	50.7	36	1800	3000	3000	10	88215
50	12	M280/FNV/CG/AL	GU5.3	50.5	50.7	60	700	3000	3000	10	88214

MR16 Start

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
ø 50 mm – open dichroic mirror											
20	12	M68/ESX/EC	GU5.3	47.6	50.5	12	3500	2900	2000	20	38003
20	12	M69/BAB/EC	GU5.3	47.6	50.5	36	500	2900	2000	20	38000
35	12	FRB/EC	GU5.3	47.6	50.5	12	7500	3000	2000	20	38004
35	12	M81/FMW/EC	GU5.3	47.6	50.5	36	925	3000	2000	20	38001
50	12	M49/EXT/EC	GU5.3	47.6	50.5	12	9500	3000	2000	20	38005
50	12	M50/EXZ/EC	GU5.3	47.6	50.5	24	2700	3000	2000	20	39874
50	12	M58/EXN/EC	GU5.3	47.6	50.5	36	1500	3000	2000	20	38002
50	12	M80/FNV/EC	GU5.3	47.6	50.5	55	630	3000	2000	20	39881
ø 50 mm – closed dichroic mirror											
20	12	M268/ESX/CG/EC	GU5.3	47.6	50.5	12	3150	2900	2000	20	38012
20	12	M269/BAB/CG/EC	GU5.3	47.6	50.5	36	450	2900	2000	20	38006
35	12	FRB/CG/EC	GU5.3	47.6	50.5	12	6750	3000	2000	20	38013
35	12	M281/FMW/CG/EC	GU5.3	47.6	50.5	36	830	3000	2000	20	38007
50	12	M249/EXT/CG/EC	GU5.3	47.6	50.5	12	8550	3000	2000	20	38014
50	12	M250/EXZ/CG/EC	GU5.3	47.6	50.5	24	2700	3000	2000	20	39611
50	12	M258/EXN/CG/EC	GU5.3	47.6	50.5	36	1350	3000	2000	20	38011
50	12	M280/FNV/CG/EC	GU5.3	47.6	50.5	55	630	3000	2000	20	39236

MR16 IR

Watts	Volts	Product Description	Cap	Length (mm)	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
20	12	M270/FRA/CG IR	GU5.3	50	50,7	24	1000	3000	5000	20	45245
20	12	M281/FMW/CG IR	GU5.3	50	50,7	36	450	3000	5000	20	45240
35	12	M250/EXV/CG IR	GU5.3	50	50,7	24	4400	3000	5000	20	45239
35	12	M258/EXN/CG IR	GU5.3	50	50,7	36	2200	3000	5000	20	45244



Precise™ MR11 – UV Control

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life (h)	Pack	Product Code
ø 35 mm – open dichroic mirror											
12	12	M64/FTA	GU4	40	35.3	8	4400	2900	2000	10	19637
20	12	M52/FTB	GU4	40	35.3	10	4400	2900	3500	10	19998
20	12	M51/FTC	GU4	40	35.3	17	2000	2900	3500	10	19630
20	12	M62/FTD	GU4	40	35.3	26	550	2900	3500	10	19626
35	12	M65/FTE	GU4	40	35.3	10	7000	2900	3500	10	19641
35	12	M66/FTF	GU4	40	35.3	21	2300	2900	3500	10	19635
35	12	M199/FTH	GU4	40	35.3	26	1300	2900	3500	10	19634
20	12	M54/FST	B15D	41	35.3	16	1760	2900	3500	10	19687
20	12	M63/FSV	B15D	41	35.3	30	600	2900	3500	10	19997



ø 35 mm – closed dichroic mirror											
12	12	M264/FTA/CG	GU4	45	35.3	8	3960	3200	2000	10	19639
20	12	M252/FTB/CG	GU4	45	35.3	10	3960	2900	3500	10	19638
20	12	M251/FTC/CG	GU4	45	35.3	17	1800	2900	3500	10	19636
20	12	M262/FTD/CG	GU4	45	35.3	26	490	2900	3500	10	19625
35	12	M265/FTE/CG	GU4	45	35.3	10	6300	3200	3500	10	19640
35	12	M266/FTF/CG	GU4	45	35.3	21	2070	2900	3500	10	19627



m	Cap: GU4 12W			Cap: GU4 20W			Cap: B15D 20W		Cap: GU4 35W		
	Open lux	8° Øm	Closed lux	Open lux	10° Øm	Closed lux	Open lux	Closed lux	Open lux	10° Øm	Closed lux
1	4400	0.14	3960	4400	0.17	3960			7000	0.17	6300
2	1100	0.28	990	1100	0.35	990			1750	0.35	1575
3	489	0.42	440	489	0.52	440			778	0.52	700
4	275	0.56	248	275	0.70	248			438	0.70	394
5	176	0.70	158	176	0.87	158			280	0.87	252

m	17° Øm			16° Øm		21° Øm			
	lux	lux	lux	lux	lux	lux	lux		
1		2000	0.30	1800	1760	0.28	2300	0.37	2070
2		500	0.60	450	440	0.56	575	0.74	518
3		222	0.90	200	196	0.84	256	1.11	230
4		125	1.20	113	110	1.12	144	1.48	129
5		80	1.49	72	70	1.41	92	1.85	83

m	26° Øm			30° Øm		26° Øm		
	lux	lux	lux	lux	lux	lux	lux	
1		550	0.46	490	600	0.54	1300	0.46
2		138	0.92	123	150	1.07	325	0.92
3		61	1.39	54	67	1.61	144	1.39
4		34	1.85	31	38	2.14	81	1.85
5		22	2.31	20	24	2.68	52	2.31

MR11 START

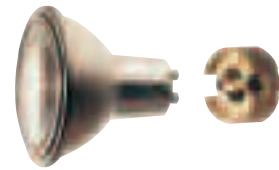
Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life (h)	Pack	Product Code
20	12	FTD/M262/CG	GU4	45	35.3	26	490	2800	2000	10	17200
35	12	FTF/M199/CG	GU4	45	35.3	26	1150	2900	2000	10	17201

Halogen lamps

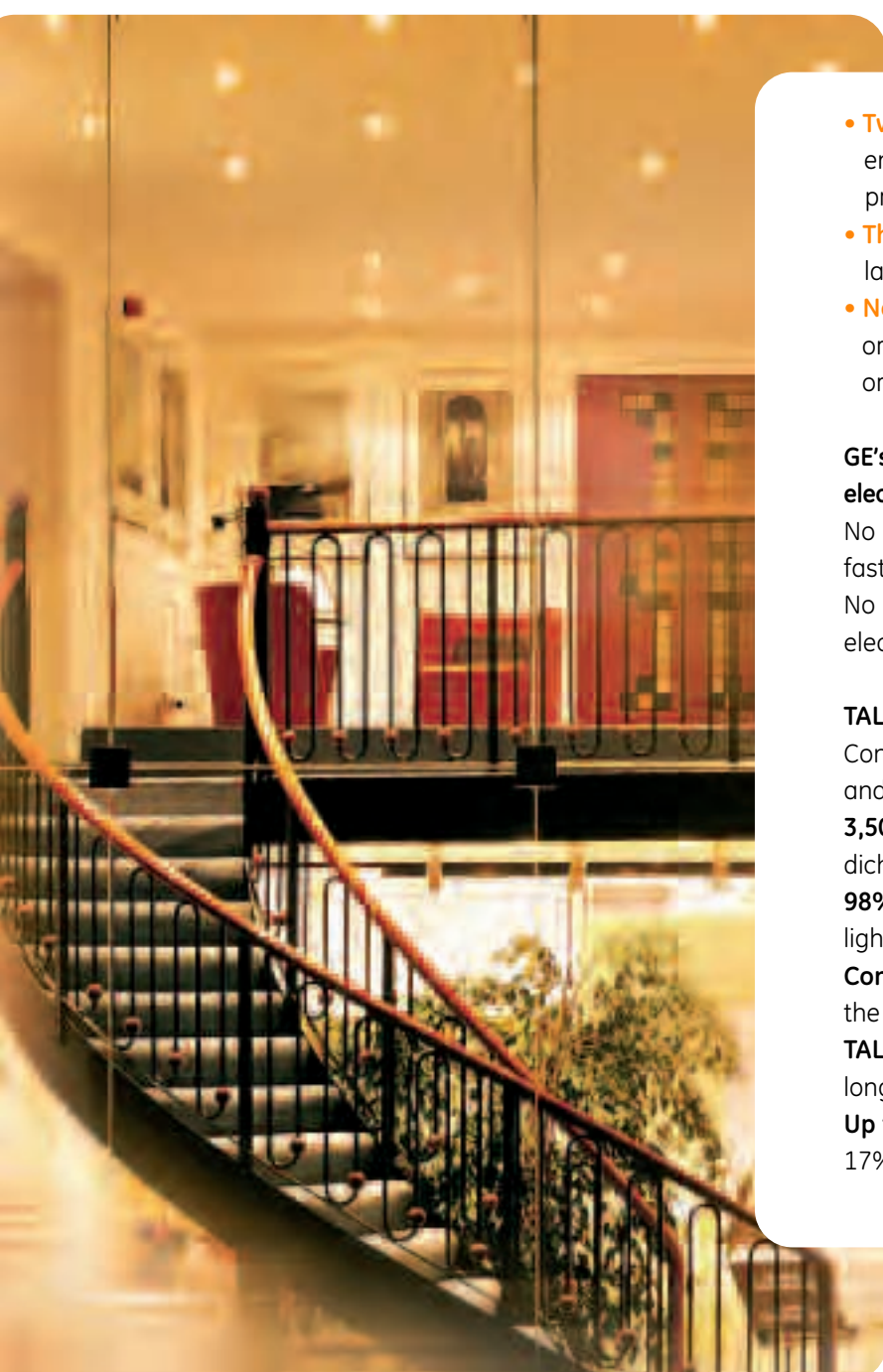
Low voltage

Twist & Lock

Installing halogen?
GE's Twist & Lock makes it easy



TAL 50



- **Twist and Lock (TAL) system**
enables you to locate the lamp with one simple, fool-proof action.
- **The first low voltage halogen**
lamp designed for easy installation.
- **No more installation problems**
or poor connections caused by bent or broken connecting pins, so no more wasted lamps.

GE's Twist And Lock's tough mechanical bond and greater electrical contact between lamp and base means:

No retaining springs or rings to fit or release – offering faster lamp installation and replacement.
No risk of arcing – improving electrical reliability and safety.



TAL 50 lamps are 50 mm dichroic mirror lamps with ConstantColor™ coatings to give exceptional long life and consistent light quality.

3,500 hours life – up to 50% longer than standard dichroic lamps.

98% lumen maintenance producing near maximum light output even at 3,500 hours.

Consistent white light with no colour shift throughout the rated life of the lamp.

TAL 100 lamps are 100 mm reflector lamps designed for long life and extra high light intensity.

Up to 3,500 hours life Exceptional light intensity up to 17% higher than the nearest compatible lamp.

Applications: retail, displays, reception areas and residential interior lighting.

TAL downlighters welcome visitors to Timothy Guy Design's studio in Truro, UK.



TAL 50 ConstantColor™ – UV Control

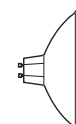
Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
ø 50 mm – closed dichroic mirror											
20	12	TAL 414/CC	GU7	50.5	50.7	11	4500	2900	3500	10	30927
20	12	TAL 416/CC	GU7	50.5	50.7	36	450	2900	3500	10	30931
35	12	TAL 417/CC	GU7	50.5	50.7	8	8100	2900	3500	10	30932
35	12	TAL 419/CC	GU7	50.5	50.7	38	873	2900	3500	10	30934
50	12	TAL 420/CC	GU7	50.5	50.7	10	10800	2900	3500	10	30901
50	12	TAL 421/CC	GU7	50.5	50.7	21	3300	2900	3500	10	30900
50	12	TAL 422/CC	GU7	50.5	50.7	38	1395	2900	3500	10	30899
50	12	TAL 423/CC	GU7	50.5	50.7	60	630	2900	3500	10	30935



20W			35W			50W			
TAL 414		TAL 417		TAL 420		TAL 421			
m	11° Øm	lux	8° Øm	lux	10° Øm	lux			
1	0.19	4500	0.14	8100	0.17	10800			
2	0.39	1125	0.28	2025	0.35	2700			
3	0.58	500	0.42	900	0.52	1200			
4	0.77	281	0.56	506	0.70	675			
5	0.96	180	0.70	324	0.87	432			
TAL 415		TAL 418		TAL 421					
m	24° Øm	lux	18° Øm	lux	21° Øm	lux			
1	0.43	900	0.32	3240	0.37	3300			
2	0.85	225	0.63	810	0.74	825			
3	1.28	100	0.95	360	1.11	367			
4	1.70	56	1.27	203	1.48	206			
5	2.13	36	1.58	130	1.85	132			
TAL 416		TAL 419		TAL 422					
m	36° Øm	lux	38° Øm	lux	38° Øm	lux			
1	0.65	450	0.69	873	0.69	1395			
2	1.30	113	1.38	218	1.38	349			
3	1.95	50	2.07	97	2.07	155			
4	2.60	28	2.75	55	2.75	87			
5	3.25	18	3.44	35	3.44	56			
				TAL 423					
m					60° Øm	lux			
1					0.69	1395			
2					1.38	349			
3					2.07	155			
4					2.75	87			
5					3.44	56			

TAL 100

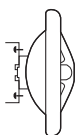
Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
ø 100 mm – closed metal reflector											
35	12	TAL 138	GU7		100	4	33000	3000	3500	20	29408
50	12	TAL 139	GU7		100	6	48000	3000	3500	20	29409
50	12	TAL 140	GU7		100	21	3300	3000	3500	20	29410



Halogen lamps

Low voltage

AR111 – UV Control



Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Lifel(h)	Pack Qty	Product Code
ø 111 mm – aluminium reflector, metal cap over filament											
35	12	AR111 35W12V SP	G53	67	111	8	11000	2800	2000	10	10774
35	12	AR111 35W12V FL	G53	67	111	24	2400	2800	2000	10	10775
50	12	AR111 50W12V SP	G53	67	111	8	17800	2850	3000	10	10766
50	12	AR111 50W12V FL	G53	67	111	24	3000	2850	3000	10	10767
75	12	AR111 75W12V SP	G53	67	111	8	23500	2900	3000	10	10768
75	12	AR111 75W12V FL	G53	67	111	24	4750	2900	3000	10	10769
75	12	AR111 75W12V WFL	G53	67	111	45	1600	2900	3000	10	10771
100	12	AR111 100W12V SP	G53	67	111	8	43000	2950	3000	10	41915
100	12	AR111 100W12V FL	G53	67	111	24	7700	2950	3000	10	41922
100	12	AR111 100W12V WFL	G53	67	111	45	2400	2950	3000	10	41923



AR 111 Reflector

Choose
GE Halogen
Reflectors



AR 111

Bright, white halogen quality light (up to 2950K) for decorative and architectural lighting

- Aluminium faceted reflector for a better beam control
- Metal cap over filament to avoid direct glare effects and hot point
- UV-block to reduce bleaching effect
- Long life (3 000 hours) and 75%+ lumen maintenance to lower maintenance costs

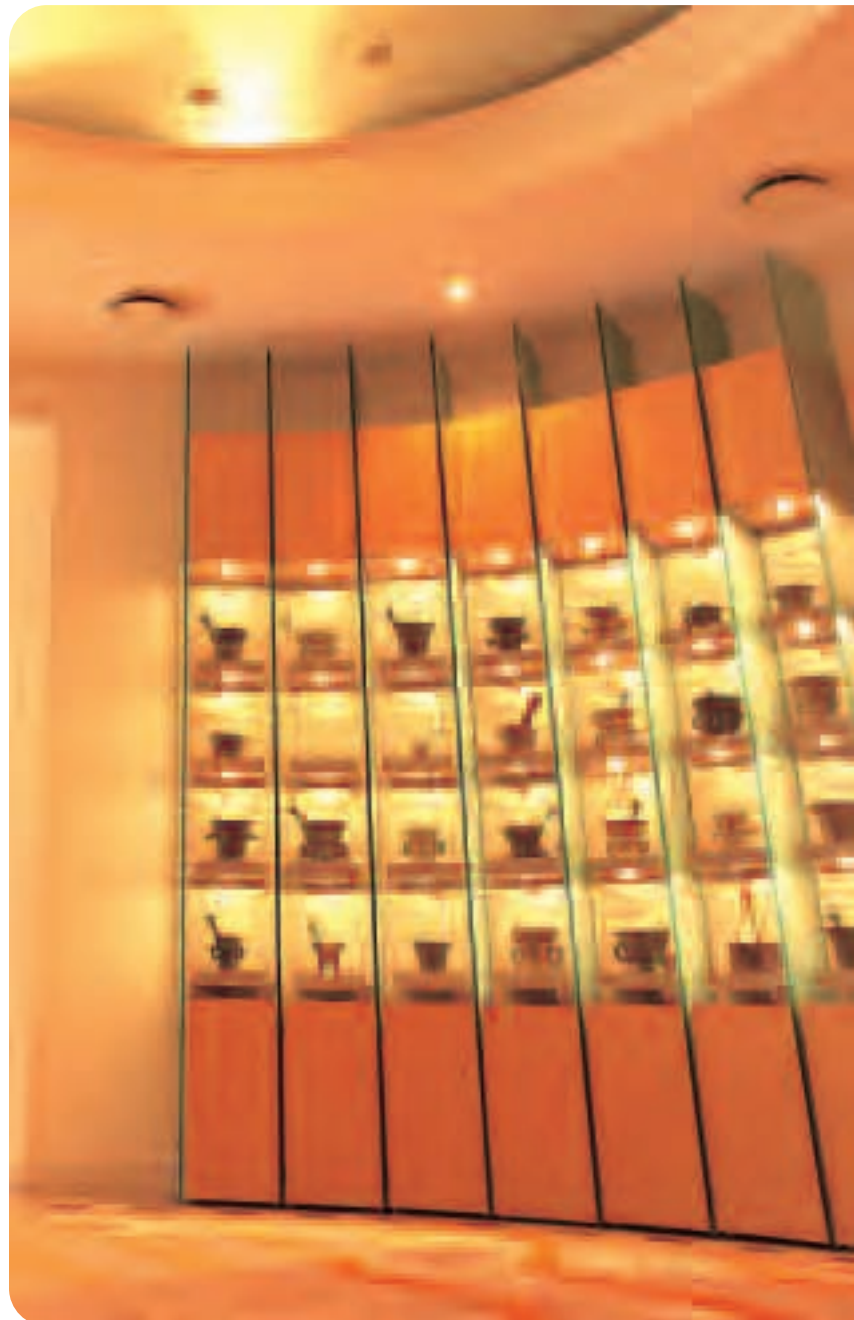
UV - Block

- Choice of nominal beam angles from 8° to 45°
- From 35 to 100 Watt
- 75% lumen maintenance
- 12 volts – Cap G53
- Dimmable

Suitable for a wide range of applications in display, accent lighting and general lighting in retail, museum and everywhere quality of light is essential.

The GE AR111 aluminium faceted reflector has been designed to

- direct light and heat forward to protect the gear (especially for electronic fixtures)
- be ideal to be used together with ConstantColor CMH™ 3000K to achieve the right lighting effect
- use G53 cap for easy retrofit of the lamps
- offer a slim shape to allow creative and compact design



Halogen lamps

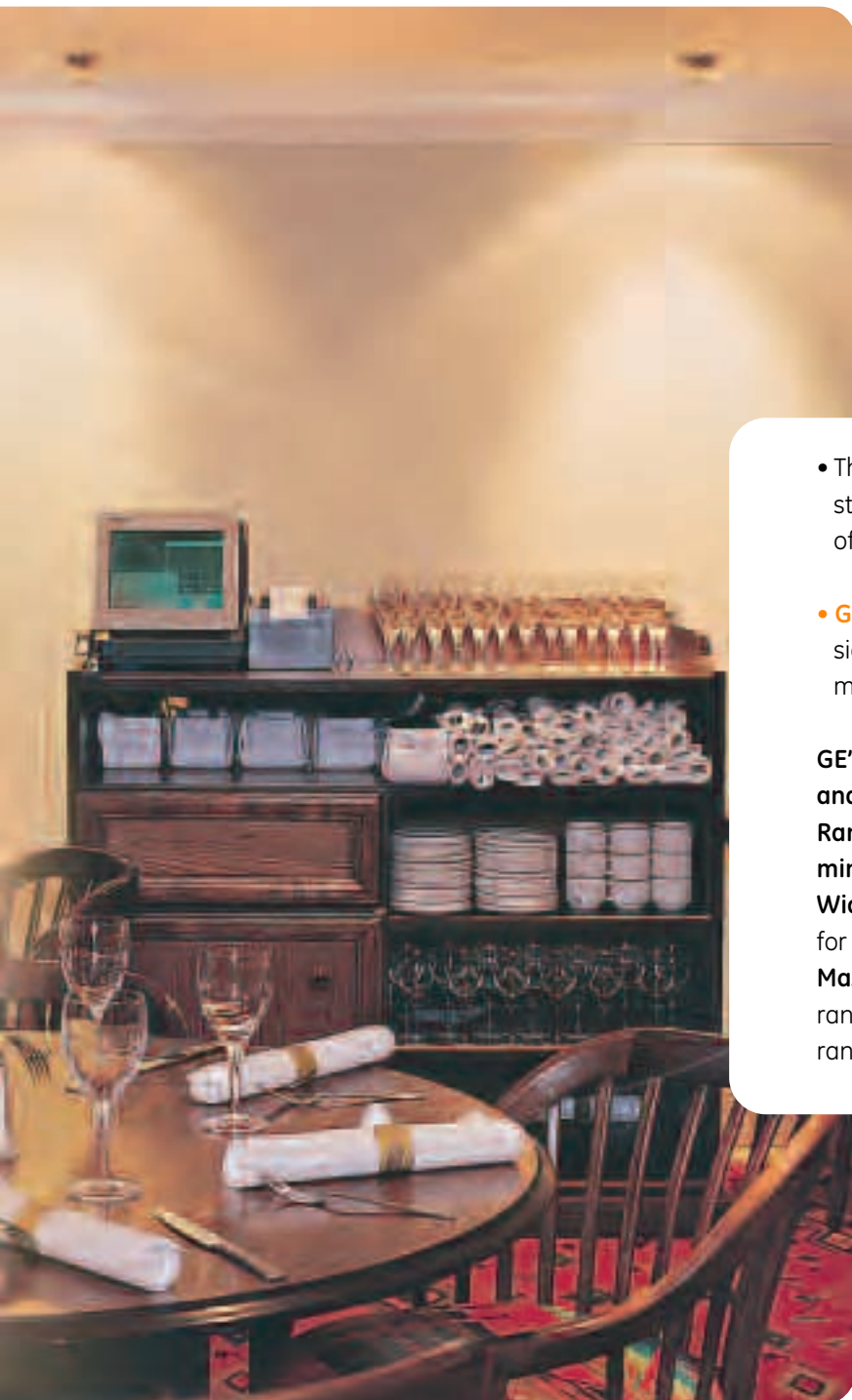
Low voltage

UV Control Capsules

All the power, quality and precision of halogen – with UV control



UV Control Capsules



- The ultra violet light emitted by standard halogen lamps can cause fading or bleaching of sensitive display items.
- **GE's UV Control Capsules** significantly reduce the effect of bleaching by minimising UV-B and UV-C radiation.

GE's UV Control Capsules give maximum light output and colour quality.

Range includes axial filament types for use in linear miniature reflectors and uplighters, providing:

Wide, smooth beam with accurate light cut-off – perfect for uniform lighting effects.

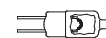
Maximum versatility – common light-centres across a range of wattages let you use one light fitting design for a range of applications.

Applications:
retail, display and task lighting.



Low Voltage single ended halogen capsules UV-Control

Watts	Volts	Product Description	Cap	Length mm	LCL	Diameter mm	Lumen	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
Hard glass capsules with transversal filament											
5	12	M9/H5 G4	G4	33	19.5	9	60	2000	20	B	42959
10	12	M11/H10 G4	G4	33	19.5	9	140	2000	20	B	34674
Quartz glass capsules with transversal filament											
10	6	M29/Q10 G4	G4	33	19.5	9	200	100	20	B	34720
10	6	M42/Q10 G4	G4	33	19.5	9	140	2000	20	B	34728
20	6	M30/ESB/Q20 G4	G4	33	19.5	9	450	100	20	B	34718
20	6	M34/FHE/Q20 G4	G4	33	19.5	9	350	2000	20	B	34719
20	12	M35/Q20 G4	G4	33	19.5	9	400	250	20	B	34714
20	12	M47/Q20 G4	G4	33	19.5	9	380	2000	20	B	34715
20	12	M312/Q20/GY6.35	GY6.35	44	30.0	11	350	2000	20	B	34713
35	12	M95/Q35/GY6.35	GY6.35	44	30.0	11	550	3000	20	C	34708
50	12	M32/Q50 GY6.35	GY6.35	44	30.0	11	930	4000	20	C	34702
75	12	M313/Q75/GY6.35	GY6.35	44	30.0	11	1350	2000	20	C	34682
100	12	M28/Q100 GY6.35	GY6.35	44	30.0	11	2200	3000	20	C	34676
50	24	M89/Q50/GY6.35 24V	GY6.35	44	30.0	11	750	2000	20	D	34684
100	24	M67/Q100 GY6.35 24V	GY6.35	44	30.0	11	2000	2000	20	C	34663
Quartz glass capsules with axial filament											
35	6	M116/Q35/GY6.35	GY6.35	44	30.0	11	550	2000	20	C	34711
20	12	M76/Q20/GY6.35	GY6.35	44	30.0	11	300	4000	20	C	34712
35	12	M75/Q35/GY6.35	GY6.35	44	30.0	11	600	4000	20	C	34710
50	12	M74/Q50/GY6.35	GY6.35	44	30.0	11	900	4000	20	C	34703
75	12	M73/Q75/GY6.35	GY6.35	44	30.0	11	1350	4000	20	C	34683
100	12	M180/Q100/GY6.35	GY6.35	44	30.0	11	2150	4000	20	C	34664
Low pressure halogen capsules with axial filament											
10	12	Q10T2,5/12V G4	G4	33	22	9	140	2000	20	B	35705
20	12	Q20T2,5/12V G4	G4	33	22	9	320	2000	20	C	35710
20	12	Q20T3/12V GY6.35	GY6.35	44	30	11	300	2000	20	C	35696
35	12	Q35T3/12V GY6.35	GY6.35	44	30	11	600	2000	20	C	35699
50	12	Q50T3/12V GY6.35	GY6.35	44	30	11	950	2000	20	C	35700
75	12	Q75T3/12V GY6.35	GY6.35	44	30	11	1350	2000	20	C	35701



Low Voltage single ended halogen capsules START range

Watts	Volts	Product Description	Cap	Length mm	LCL	Diameter mm	Lumen	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
Quartz glass capsules with transversal filament											
10	12	M11/Q10/G4 ST	G4	33	22	9	100	1000	20	C	12708
20	12	M47/Q20/G4 ST	G4	33	22	9	250	1000	20	C	12711
35	12	M95/Q35/GY6.35 ST	GY6.35	44	30	11	480	1000	20	D	12712
50	12	M32/Q50/GY6.35 ST	GY6.35	44	30	11	800	1000	20	C	12713
100	12	Q100/GY6.35 ST	GY6.35	44	30	11	1950	1000	20	C	12718



Halogen lamps

Mains voltage

Mains voltage halogen reflector

lamp with aluminium coated reflector directs most of its heat to the front. With their distinct MR 16 look, the cool beam and aluminium lamps are the most compact lamps of their kind available. Because the lamp can be connected directly to the mains supply, the use of bulky and costly transformers is not necessary and offers benefits for both consumers as well as luminaire manufacturers.



- Small size
- High efficacy
- Excellent white light



MR16 Mains Tech

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Colour	Candela	CCT (K)	Life (h)	Pack Qty	Product Code
ø 50 mm – closed aluminium coated reflector												
50	230	Q50MR16/230/25°	GU10	57.5	51	25		950	2650	2000	1/50	40402
50	240	Q50MR16/240/25°	GU10	57.5	51	25		950	2650	2000	1/50	40404
50	230	Q50MR16/230/36°	GU10	57.5	51	36		600	2650	2000	1/50	40403
50	240	Q50MR16/240/36°	GU10	57.5	51	36		600	2650	2000	1/50	40405



MR20 Mains Tech

ø 64 mm – closed aluminium coated reflector												
75	240	Q75MR16/240/25°	GU10	64	64	25		2500	2900	2000	1/10	19624



MR16 Mains Start

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Colour	Candela	CCT (K)	Life (h)	Pack Qty	Product Code
ø 50 mm – closed aluminium coated reflector												
20	230	Q20MR16/230/FL	GU10	55	51	36		200	2700	1500	10	10898
35	230	Q35MR16/230/FL	GU10	55	51	36		400	2700	1500	10	10896
50	230	Q50MR16/230/FL	GU10	55	51	36		600	2700	1500	10	92729
20	240	Q20MR16/240/FL	GU10	55	51	36		200	2700	1500	10	10859
35	240	Q35MR16/240/FL	GU10	55	51	36		400	2700	1500	10	10857
50	240	Q50MR16/240/FL	GU10	55	51	36		600	2700	1500	10	92730



MR16 Mains Dichroic Start

ø 50 mm – closed dichroic reflector												
50	230	Q50MR16/230V/GZ10	GZ10	57.5	51	36		600	2650	1500	1/10	18157

MR16 Mains Start – Coloured

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Colour	CCT (K)	Life (h)	Pack Qty	Product Code	
ø 50 mm – Closed												
50	240	Q50MR16/240/FL START	GU10	55	51	36	RED		1500	10	12988	
50	240	Q50MR16/240/FL START	GU10	55	51	36	BLUE		1500	10	12995	
50	240	Q50MR16/240/FL START	GU10	55	51	36	GREEN		1500	10	12998	
50	240	Q50MR16/240/FL START	GU10	55	51	36	YELLOW		1500	10	13003	



Halogen lamps

Mains voltage

G9 capsule

is suitable for a wide variety of applications in display, accent lighting and general lighting where halogen light quality is essential with the ease of mains voltage where no transformer is required.



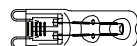
G9 capsule has been designed to

- operate on mains voltage, no transformer required
- offer a miniature halogen solution to allow creative and compact design of fittings
- be fully compatible with ConstantColor™ sCMH 3000 K lamps
- use G9 Cap for easy retrofit of the lamps used in open fixtures
- meet IEC standards IEC60357, IEC60432-2 and IEC60061-1 for performance, safety and base compliance.



Single ended mains voltage capsule – Tech Range

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Lumen	CCT (K)	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
Halo Capsule Short G9 clear – UV Control											
25	230	SHORTG9 25W CL 230V	G9	43	13	260	2800	1500	10	GE BX	45692
25	240	SHORTG9 25W CL 240V	G9	43	13	260	2800	1500	10	D	26318
40	230	SHORTG9 40W CL 230V	G9	43	13	490	2800	2000	10	D	22504
40	240	SHORTG9 40W CL 240V	G9	43	13	490	2800	2000	10	D	22498
60	230	SHORTG9 60W CL 230V	G9	43	13	820	2800	2000	10	D	22513
60	240	SHORTG9 60W CL 240V	G9	43	13	820	2800	2000	10	D	22508
75	230	SHORTG9 75W CL 230V	G9	43	13	1100	2900	2000	10	D	23517
75	240	SHORTG9 75W CL 240V	G9	43	13	1100	2900	2000	10	D	23518
frosted											
25	230	SHORTG9 25W FR 230V	G9	43	13	245	2800	1500	10	E	45693
25	240	SHORTG9 25W FR 240V	G9	43	13	245	2800	1500	10	E	45693
40	230	SHORTG9 40W FR 230V	G9	43	13	465	2800	2000	10	E	22507
40	240	SHORTG9 40W FR 240V	G9	43	13	465	2800	2000	10	E	22501
60	230	SHORTG9 60W FR 230V	G9	43	13	780	2800	2000	10	E	22515
60	240	SHORTG9 60W FR 240V	G9	43	13	780	2800	2000	10	E	22510
75	230	SHORTG9 75W FR 230V	G9	43	13	1000	2900	2000	10	E	23521
75	240	SHORTG9 75W FR 240V	G9	43	13	1000	2900	2000	10	E	23532
Halogen G9 Tech – UV Control											
25	230	G9 25W 230V Clear	G9	52	13	260	2800	1500	10	D	10806
25	230	G9 25W 230V Frosted	G9	52	13	245	2800	1500	10	E	10810
40	230	G9 40W 230V Clear	G9	52	13	490	2800	1500	10	D	10813
40	230	G9 40W 230V Frosted	G9	52	13	465	2800	1500	10	E	10814
60	230	G9 60W 230V Clear	G9	52	13	820	2800	2000	10	D	10816
60	230	G9 60W 230V Frosted	G9	52	13	780	2800	2000	10	E	10817
75	230	G9 75W 230V Clear	G9	52	13	1100	2800	2000	10	D	10818
75	230	G9 75W 230V Frosted	G9	52	13	1045	2800	2000	10	D	10820
25	240	G9 25W 240V Clear	G9	52	13	260	2800	1500	10	D	10809
25	240	G9 25W 240V Frosted	G9	52	13	245	2800	1500	10	E	10811
40	240	G9 40W 240V Clear	G9	52	13	490	2800	1500	10	D	10796
40	240	G9 40W 240V Frosted	G9	52	13	465	2800	1500	10	E	10815
60	240	G9 60W 240V Clear	G9	52	13	820	2800	2000	10	D	10803
60	240	G9 60W 240V Frosted	G9	52	13	780	2800	2000	10	E	10804
75	240	G9 75W 240V Clear	G9	52	13	1100	2800	2000	10	D	10819
75	240	G9 75W 240V Frosted	G9	52	13	1045	2800	2000	10	D	10821



Halogen lamps

Mains voltage

Mains voltage double-ended halogen lamps

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Lumen	CCT (K)	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
Start clear											
200	230	K11/230V ST	R7s	117.6	8	2A	2850	1500	10	E	93471
300	230	K9/230V ST	R7s	117.6	8	2A	4600	1500	10	E	93472
500	230	K1/230V ST	R7s	117.6	8	4A	9000	1500	10	E	93473
200	240	K11/240V ST	R7s	117.6	8	2A	2850	1500	10	E	93475
300	240	K9/240V ST	R7s	117.6	8	2A	4600	1500	10	E	93476
500	240	K1/240V ST	R7s	117.6	8	4A	9000	1500	10	E	93477



Standard clear											
100	120	K14/Q100 120V/CL	R7s	78.3	8	-	1500	3000	10	D	91746
150	120	K12/Q150 120V/CL	R7s	78.3	8	-	2300	3000	10	E	91747
100	230	K14/Q100 T2.5/CL	R7s	78.3	8	-	1600	2000	10	D	91427
150	230	K12/Q150 T2.5/CL	R7s	78.3	8	-	2600	2000	10	D	91428
200	230	K27/Q150 T2.5/CL	R7s	78.3	8	-	3400	2000	10	D	91430
250	230	K15/Q250 T2.5/CL	R7s	78.3	8	-	4000	2000	10	E	91431
100	240	K14/Q100 T2.5/CL	R7s	78.3	8	-	1600	2000	10	D	91506
150	240	K12/Q150 T2.5/CL	R7s	78.3	8	-	2600	2000	10	D	91507
200	240	K27/Q150 T2.5/CL	R7s	78.3	8	-	3400	2000	10	D	91508
250	240	K15/Q250 T2.5/CL	R7s	78.3	8	-	4000	2000	10	E	91509
150	120	K28/Q150 120V/CL	R7s	117.6	8	2A	2300	2000	10	E	91748
200	120	K11/Q200 120V/CL	R7s	117.6	8	4A	3300	2000	10	D	91749
300	120	K9/Q300 120V/CL	R7s	117.6	8	4A	6200	2000	10	D	91750
500	120	K1/Q500 120V/CL	R7s	117.6	8	6.3A	11000	2000	10	C	29161
1000	120	K4/Q1000 120V/CL	R7s	189.1	10	-	22000	2000	10	D	29177
100	230	K41/Q100 CL	R7s	117.6	8	2A	1050	1500	10	F	91432
150	230	K28/Q150 T2.5/CL	R7s	117.6	8	2A	2100	2000	10	E	91433
200	230	K11/Q200 T2.5/CL	R7s	117.6	8	2A	3100	2000	10	E	91434
250	230	K32/Q250 T2.5/CL	R7s	117.6	8	2A	4000	2000	10	E	91435
300	230	K9/Q300 T2.5/CL	R7s	117.6	8	2A	5100	2000	10	E	91436
500	230	K1/Q500 T2.5/CL	R7s	117.6	8	4A	9800	2000	10	D	29165
750	230	K3/Q750 T3/CL	R7s	189.1	10	6.3A	15000	2000	10	D	29173
1000	230	K4/Q1000 T3/CL	R7s	189.1	10	6.3A	21000	2000	10	D	29180
1000	230	K10/1000 T3/CL	R7s	254.1	10	6.3A	21000	2000	6	D	43711
1500	230	K5/Q1500 T3/CL	R7s	254.1	10	10A	32000	1000	10	D	29184
2000	230	K6/Q2000 T3/CL	Fo4	334.4	10	10A	44000	2000	10	D	29190
2000	230	K8/Q2000 T3/CL	R7s	330.8	10	10A	44000	1000	10	D	30886
150	240	K28/Q150 T2.5/CL	R7s	117.6	8	2A	2100	2000	10	E	91511
200	240	K11/Q200 T2.5/CL	R7s	117.6	8	2A	3100	2000	10	E	91512
250	240	K32/Q250 T2.5/CL	R7s	117.6	8	2A	4000	2000	10	E	91513
300	240	K9/Q300 T2.5/CL	R7s	117.6	8	2A	5100	2000	10	E	91514
500	240	K1/Q500 T2.5/CL	R7s	117.6	8	4A	9700	2000	10	D	29168
750	240	K3/Q750 T3/CL	R7s	189.1	10	6.3A	15000	2000	10	D	29176
1000	240	K4/Q1000 T3/CL	R7s	189.1	10	6.3A	21000	2000	10	D	29181
1000	240	K10/1000 T3/CL	R7s	254.1	10	6.3A	21000	2000	6	D	43712
1500	240	K5/Q1500 T3/CL	R7s	254.1	10	10A	32000	1000	10	D	29187
2000	240	K8/Q2000 T3/CL	R7s	330.8	10	10A	44000	1000	10	D	30877

78 mm lamps are internally fused, and universal operating position. Other lamps operating position horizontal $\pm 4^\circ$.

Halogen IR™											
225	230	K9/Q225 T3/230V HIR	R7s	117.6	10	2A	5000	3000	10	C	91515
375	230	K1/Q375 T3/230V HIR	R7s	117.6	10	2A	9400	3000	10	C	31598

Operating position horizontal $\pm 4^\circ$.



HALOGEN PAR LAMPS

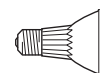
PAR 16

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
Flood											
40	230	40PAR16/230/FL	E14	79	50	36	450	2900	2000	10	27826
40	240	40PAR16/240/FL	E14	79	50	36	450	2900	2000	10	27845
Flood											
50	240	Q50PAR16/240/FL	E14	79	51	36	800	2700	1500	10	92824



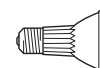
PAR 20

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
Spot											
50	230	50PAR20/230/SP	E27	91	64.5	10	3000	2750	2000	1/15	40363
50	240	50PAR20/240/SP	E27	91	64.5	10	3000	2750	2000	1/15	40364
Flood											
50	230	50PAR20/230/FL	E27	91	64.5	30	1000	2750	2000	1/15	40362
50	240	50PAR20/240/FL	E27	91	64.5	30	1000	2750	2000	1/15	40365



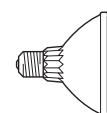
PAR 25

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
Spot											
50	230	50PAR25/230/SP	E27	108	81	10	4000	2900	2500	15	91776
50	240	50PAR25/240/SP	E27	108	81	10	4000	2900	3000	15	91778
Flood											
50	230	50PAR25/230/FL	E27	108	81	25	1100	2900	2500	15	91774
75	230	75PAR25/230/FL	E27	108	81	25	1300	2900	3000	15	91775
75	240	75PAR25/240/FL	E27	108	81	25	1300	2900	3000	15	92165



PAR 30

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Beam angle	Candela	CCT (K)	Life(h)	Pack Qty	Product Code
Spot											
75	230	75PAR30/230/SP	E27	90.5	97	10	6900	2900	2000	15	40366
100	230	100PAR30/230/SP	E27	90.5	97	10	10000	2900	3000	15	32483
75	240	75PAR30/240/SP	E27	90.5	97	10	6900	2900	2000	15	40367
100	240	100PAR30/240/SP	E27	90.5	97	10	10000	2900	3000	15	32481
Flood											
75	230	75PAR30/230/FL	E27	90.5	97	30	2200	2900	2000	15	40349
100	230	100PAR30/230/FL	E27	90.5	97	30	3500	2900	3000	15	32484
75	240	75PAR30/240/FL	E27	90.5	97	30	2200	2900	2000	15	40361
100	240	100PAR30/240/FL	E27	90.5	97	30	3500	2900	3000	15	32482



Halogen lamps

Mains voltage

PAR 16 – PAR 20 – PAR 25 – PAR 30

m	40W		50W				75W		100W			
	PAR 16	PAR 16 Start	PAR 20 Spot 10°		PAR 25 Spot 10°		PAR 25 Spot 10°		PAR 30 Spot 10°			
			Øm	lux	Øm	lux	Øm	lux	Øm	lux		
1			0.17	3000	0.17	4000	0.17	5500	0.17	6900	0.17	10000
2			0.35	750	0.35	1000	0.35	1375	0.35	1725	0.35	2500
3			0.52	333	0.52	444	0.52	611	0.52	767	0.52	1111
4			0.70	188	0.70	250	0.70	344	0.70	431	0.70	625
5			0.87	120	0.87	160	0.87	220	0.87	276	0.87	400

m	Flood 25°		Flood 36°		Flood 30°		Flood 25°		Flood 25°		Flood 30°		Flood 30°	
	Øm	lux	Øm	lux	Øm	lux	Øm	lux	Øm	lux	Øm	lux	Øm	lux
1	0.44	950	0.65	800	0.54	1000	0.44	1100	0.44	1300	0.54	2200	0.54	3500
2	0.89	238	1.30	200	1.07	250	0.89	275	0.89	325	1.07	550	1.07	875
3	1.33	106	1.95	89	1.61	111	1.33	122	1.33	144	1.61	244	1.61	389
4	1.77	59	2.60	50	2.14	63	1.77	69	1.77	81	2.14	138	2.14	219
5	2.22	38	3.25	32	2.68	40	2.22	44	2.22	52	2.68	88	2.68	140



HaloReflector, HaloCandle and Halolightbulb

HalogenReflectors provides
up to 20% more light



HalogenReflector

HaloCandle – Your chandeliers
will sparkle even more with
halogen light



HaloCandle

Halolightbulb – Upgrade the
quality of your light with a
traditional light bulb shape



Halolightbulb

New GE halogen lamps for the perfect atmosphere for home applications.

Haloreflector

- Flicker free light reduces eye strain
- R80, R63 R50 reflector bulb for all purposes
- 40W, 60W, 100W

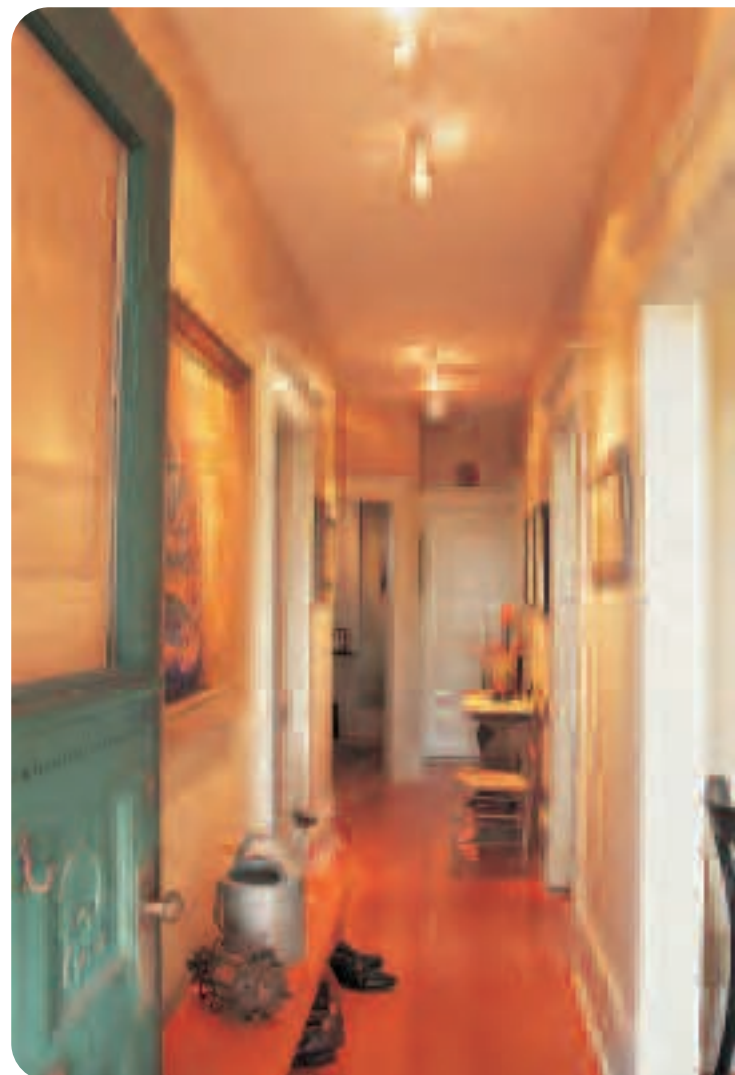
HaloCandle

- Candle and twisted candle shapes enriches your home
- Clear candle to maximise light, frosted candle to reduce glare
- 40W, 60W

Halolightbulb

- Save energy, get more light with same power
- More compact (50 mm) standard light bulb shape
- 40W, 60W

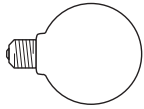
New halogen technology opens new dimension for home and retail lighting. On average creates 20% more light than a standard incandescent light bulb. A 60W HaloLight bulb is equivalent to a 72W incandescent lamp. Dimming makes it even more economical. A range of familiar shapes to fit most available fittings. In addition to this you can enjoy products of the Halogen family for 2000 hours in your home, 2 times longer than what you used to have.



Halogen lamps

Mains voltage

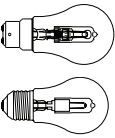
HaloGlobe™



Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Lumen	CCT (K)	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
white											
60	230	HaloG95/60W/W 230V E27	E27	138.5	95	700	2850	2000	10	E	92534
100	230	HaloG95/100W/W 230V E27	E27	138.5	95	1350	2850	2000	10	E	92535
150	230	HaloG95/150W/W 230V E27	E27	138.5	95	2100	2850	2000	10	E	92536

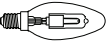
Operating position: Universal.

HaloGLS



Watts	Volts	Product Description	Cap	Length mm	Lumen	CCT(K)	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
clear - UV control										
40	240	Halo A/Cl/40W/B22 240V	B22	108.5	490	2800	1500	10	D	21398
40	230	Halo A/Cl/40W/E27 230V	E27	50	490	2800	1500	10	D	21402
60	240	Halo A/Cl/60W/B22 240V	B22	108.5	820	2800	2000	10	D	21395
60	240	Halo A/Cl/60W/E27 240V	E27	110	820	2800	2000	10	D	21385
60	230	Halo A/Cl/60W/E27 230V	E27	110	820	2800	2000	10	D	21400
frosted - UV control										
40	240	Halo A/Fr/40W/B22 240V	B22	108.5	490	2800	1500	10	D	21399
40	230	Halo A/Fr/40W/E27 230V	E27	110	490	2800	1500	10	D	21403
60	240	Halo A/Fr/60W/E27 240V	E27	110	820	2800	2000	10	D	21386
60	240	Halo A/Fr/60W/B22 240V	B22	108.5	820	2800	2000	10	D	21397
60	230	Halo A/Fr/60W/E27 230V	E27	110	820	2800	2000	10	D	21401

HaloCandle



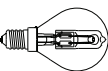
clear - UV control										
40	230	HaloC/Cl/40W/E14 230V	E14	104	490	2800	1500	10	D	43321
40	240	HaloC/Cl/40W/B22 240V	B22	97	490	2800	1500	10	D	22768
40	240	HaloC/Cl/40W/E14 240V	E14	104	490	2800	1500	10	D	21499
60	230	HaloC/Cl/60W/E 14 230V	E14	104	820	2800	2000	10	D	43323
60	240	HaloC/Cl/60W/B22 240V	B22	97	820	2800	1500	10	D	22762
60	240	HaloC/Cl/60W/E 14 240V	E14	104	820	2800	2000	10	D	21505
frosted - UV control										
40	230	HaloC/Fr/40W/E14 230V	E14	104	490	2800	1500	10	D	43327
40	240	HaloC/Fr/40W/B22 240V	B22	97	490	2800	1500	10	D	22772
40	240	HaloC/Fr/40W/E14 240V	E14	104	490	2800	1500	10	D	22760
60	230	HaloC/Fr/60W/E14 230V	E14	104	820	2800	2000	10	D	43329
60	240	HaloC/Fr/60W/B22 240V	B22	97	820	2800	2000	10	D	22764
60	240	HaloC/Fr/60W/E14 240V	E14	104	820	2800	2000	10	D	22783

Twisted Candle



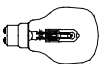
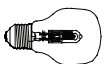
clear - UV control										
40	230	HaloC/TWCL/40W/E14 230V	E14	104	490	2800	1500	10	D	21490
40	240	HaloC/TWCL/40W/E14 240V	E14	104	490	2800	1500	10	D	22779
60	230	HaloC/TWCL/40W/E14 60V	E14	104	820	2800	2000	10	D	22781
60	240	HaloC/TWCL/40W/E14 60V	E14	104	820	2800	2000	10	D	21506
Frosted - UV control										
40	230	HaloC/TWFR/40W/E14 230V	E14	104	490	2800	1500	10	D	21495
40	240	HaloC/TWFR/40W/E14 240V	E14	104	490	2800	1500	10	D	22780
60	230	HaloC/TWFR/60W/E14 230V	E14	104	820	2800	2000	10	D	22782
60	240	HaloC/TWFR/60W/E14 240V	E14	104	820	2800	2000	10	D	22775

HaloSpherical



clear - UV control										
25	230	25HALOSPH/CL G9B	E14	78.5	250	2800	1500	10	D	44694
40	230	40HALOSPH/CL G9B	E14	78.5	470	2800	2000	10	D	44720
60	230	60HALOSPH/CL G9B	E14	78.5	790	2800	2000	10	D	44722
25	230	25HALOSPH/FR G9B	E14	78.5	250	2800	1500	10	D	44741
40	230	40HALOSPH/FR G9B	E14	78.5	470	2800	2000	10	D	44740
60	230	60HALOSPH/FR G9B	E14	78.5	790	2800	2000	10	D	44728

HaloCube

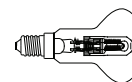


UV control										
40	230	40HALOCUBE G9B	E27	103.5	425	2800	2000	10	D	44443
40	240	40HALOCUBE/B22 240V G9B	B22	103.5	425	2800	2000	10	D	44380
60	230	60HALOCUBE G9B	E27	103.5	710	2800	2000	10	D	44576
60	240	60HALOCUBE/B22 240V G9B	B22	103.5	710	2800	2000	10	D	44566



HaloReflector

Watts	Volts	Product Description	Cap	Length mm	Candela	CCT(K)	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
Satin- UV control										
40	230	HAL 40R50/E14 230V	E14	84	290	2800	2000	10	NA	23503
40	240	HAL 40R50/E14 240V	E14	84	290	2800	2000	10	NA	43266
60	240	HAL 60R63/E27 230V	E27	103	640	2800	2000	10	NA	23504
60	240	HAL 60R63/E27 240V	E27	103	640	2800	2000	10	NA	43267
60	230	HAL 60R80/E27 230V	E27	113	280	2800	2000	10	NA	23505
60	240	HAL 60R80/E27 240V	E27	113	280	2800	2000	10	NA	45442
100	230	HAL 100R80/E27 230V	E27	113	540	2800	1500	10	NA	23506
100	240	HAL 100R80/E27 240V	E27	113	540	2800	1500	10	NA	45441



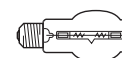
HaloKrypton

Watts	Volts	Product Description	Cap	Length mm	Lumen	Life (h)	Pack Qty	Energy Efficiency Class	Product Code	
clear										
40	230V	40HALOKRYP/E27 230V	E27	490	2800	2000	10	D	44683	
60	230V	60HALOKRYP/E27 230V	E27	820	2800	2000	10	D	44670	
75	230V	75HALOKRYP/E27 230V	E27	1100	2800	2000	10	D	44666	
40	240V	40HALOKRYP/B22 240V	B22	490	2800	2000	10	D	44649	
60	240V	60HALOKRYP/B22 240V	B22	820	2800	2000	10	D	44710	
75	240V	75HALOKRYP/B22 240V	B22	1100	2800	2000	10	D	44709	



HaloBTT™

Watts	Volts	Product Description	Cap	Length mm	Diameter mm	Lumen	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
clear										
60	230	HaloBTT/60W/CL 230V E27	E27	120	47	820	2000	10	D	90779
100	230	HaloBTT/100W/CL 230V E27	E27	120	47	1550	2000	10	D	90780
150	230	HaloBTT/150W/CL 230V E27	E27	120	47	2600	2000	10	D	90781
60	240	HaloBTT/60W/CL 230V E27	E27	120	47	820	2000	10	D	90782
100	240	HaloBTT/100W/CL 230V E27	E27	120	47	1550	2000	10	D	90783
60	240	HaloBTT/60W/CL 230V B22	B22	120	47	820	2000	10	D	90784
100	240	HaloBTT/100W/CL 230V B22	B22	120	47	1550	2000	10	D	90785



white										
60	230	HaloBTT/60W/W 230V E27	E27	120	47	700	2000	10	E	90299
100	230	HaloBTT/100W/W 230V E27	E27	120	47	1350	2000	10	E	90308

Operating position: Universal.



HaloTubular

Watts	Volts	Product Description	Cap	Length mm	Lumen	CCT(K)	Life (h)	Pack Qty	Energy Efficiency Class	Product Code
clear										
40	230	40HaloTub G9B	E14	84.5	2800	2000	2000	50	E	43290
60	230	60HaloTub G9B	E14	84.5	2800	2000	2000	50	E	43292
40	240	40HaloTub G9B	E14	84.5	2800	2000	2000	50	E	43294
60	240	60HaloTub G9B	E14	84.5	2800	2000	2000	50	E	43298
100	230	J89 TUBHAL	E14	74	1350	2800	1500	50	E	93700
150	230	J90 TUBHAL	E14	74	2150	2800	1500	50	E	93701
250	230	J92 TUBHAL	E14	74	3850	2800	1500	50	E	93702



HaloT38

Watts	Volts	Product Description	Cap	Length mm	Lumen	Life (h)	Pack Qty	Energy Efficiency Class	Product Code	
clear										
500	230	Halo T38/500W/E40/230	E40	215	9500	2000	10	D	32106	
1000	230	Halo T38/1000W/E40/230	E40	280	21000	2000	10	D	32108	
500	240	Halo T38/500W/E40/240	E40	215	9500	2000	10	D	32107	
1000	240	Halo T38/1000W/E40/240	E40	280	21000	2000	10	D	32109	

Operating position: Horizontal ±4°.



Halogen lamps

Halogen lamps provide a compact, high output light source popular for accent, display and general lighting applications in a wide variety of commercial, industrial and residential environments.

Choosing the right lamp

To help you achieve the most effective spread and level of illumination for your particular application, use the performance cones shown in this catalogue.

Assessing performance cones

Performance cones show the area, strength and distribution of light produced by each lamp. This varies according to the level of illuminance produced by the lamp (lux), the height of the lamp above the object being illuminated, and the beam angle of the lamp selected.

Selecting power and beam

Comparing performance cones lets you select the correct lamp for your needs. For example, GE's most commonly used mirror lamp, the 50W EXZ Precise™ MR16 ConstantColor™ with a beam angle of 25°, would produce 700 lux at 2 metres high with a beam diameter of 0.9 metres.

If, however, you wanted a smaller beam diameter of say 0.4 metres, the 20W spot beam ESX with its narrower 12° beam angle would be more effective, producing 838 lux. This would provide 15% extra luminance with a 60% reduction in energy consumption.

Selecting beam angles

GE halogen lamps are offered in a range of beam angles from 8° to 60°. Choose small beam angles to highlight single features with a tight focus, wide beam angles to provide a wash of ambient lighting achieve a variety of effects with intermediate beams.

Figure 1

Choosing the right power and beam

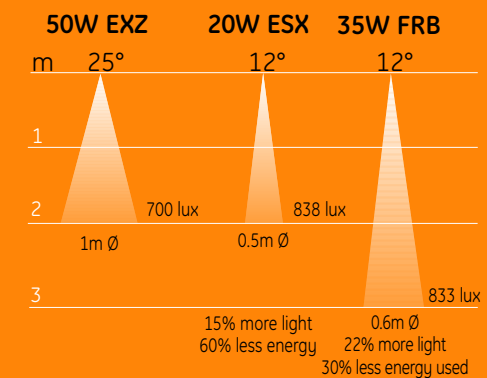
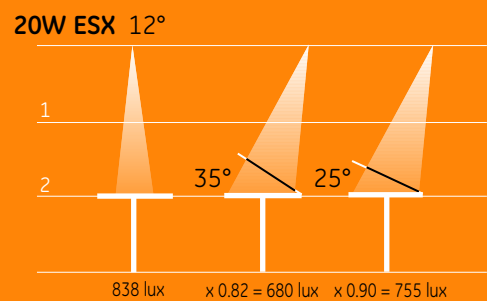
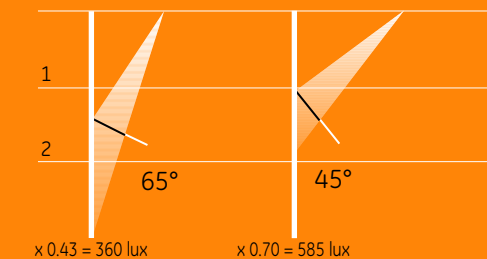


Figure 2

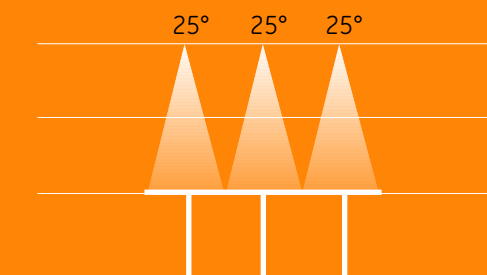
Choosing beam angles



20W ESX



3 x 50W EXZ lamps



Uniform performance

The performance cones can also provide a quick guide for achieving uniformity of illuminance on a horizontal plane.



General information

Select UV control

Tungsten Halogen lamps emit some ultra violet rays similar to sunlight. Although the level of ultra violet emitted by halogen lamps is far lower – for example 8 hours in an office lit by halogen is equivalent to 10 minutes' sun eliminating these emissions is a sensible precaution. Choosing UV control halogen lamps effectively eliminates UV-C and greatly reduces UV-B radiation.

How to achieve maximum lamp performance

Most instances of early failure of halogen lamps are caused by incorrect installation. The risk of early failure will be reduced if you observe the following points:

- **Damage such** as bent pins and cracks in the base caused by rough handling during installation.
- **Poor electrical contact** between pins and lampholder which can lead to arcing. This is usually a result of insufficient insertion of the pins into the lamp holder.
- **Finger grease** on the quartz bulb which creates local hot spots and can lead to disintegration of the glass. Note this problem is avoided with sealed mirror reflectors or lamps with an integral outer glass envelope as the halogen bulb is protected from handling.
- **Over voltage** – running a lamp at higher than rated voltage for prolonged periods can substantially reduce life. For example, a 5% increase in rated lamp voltage can lead to a 50% reduction in lamp life. If problems occur the voltage should be checked at the lamp base and the rating of the transformer should be checked against the lamp load applied.
- **Overheating** is usually caused by insufficient ventilation or cooling of the lamp and can be the result of poorly designed installation. Overheating can be also caused by overvoltage, insertion of a dichroic reflector in closed fittings or usage of a higher wattage lamp than the fixture allows.
- **Open lamps** should only be used within a shield, except self-shielded tungsten halogen lamps.

Atmospheric factors

In harsh atmospheric conditions we would recommend ConstantColor™ which has a much more resilient coating plus the added advantage of 6000 hours. Humidity does not normally present a problem with dichroic lamps, however early lamp failure can occur in areas of high humidity such as in kitchens, bathrooms and swimming pools. In these applications, fittings should be chosen with a moisture resistance or IP rating, appropriate to the environmental conditions in which they will be used.



Fluorescent lamps

GE offers you the benefits of nearly 60 years' experience in the design and manufacture of fluorescent lamps.

Our comprehensive range of lamps continues to set new standards in light output, quality and efficiency and is available in a wide choice of lengths, wattages and colours.

Choose GE fluorescents for extra long lamp life, excellent lumen maintenance, improved colour performance and higher light output.



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Fluorescent lamps range overview

Lumen value table (Initial lumens at 35C°)

	Wattage length mm Lamp	4 150	6 225	8 300	13 525	14 549	21 849	24 549	28 1149	35 1449	39 849	49 1449	54 1149	80 1449	15 450	18 600	30 900	36-1M 970	36 1200	38 1050	58 1500	70 1800	
		T5 16 mm Ø												T8 25 mm Ø									
Starcoat	827 Starcoat™				1350	2100	2000	2900	3650	3500	4900	5000	7000										
T5 Lamps	830 Starcoat™				1350	2100	2000	2900	3650	3500	4900	5000	7000										
	835 Starcoat™				1350	2100	2000	2900	3650	3500	4900	5000	7000										
	840 Starcoat™				1350	2100	2000	2900	3650	3500	4900	5000	7000										
	865 Starcoat™				1250	1950	1900	2700	3400	3330	4650	4750	6650										
Triphosphor	827 Polyflux XLr™														1000	1350	2450		3350		5200		
Polyflux XLr	830 Polyflux XLr™														1000	1350	2450	3100	3350		5200	6300	
Lamps	835 Polyflux XLr™															1350			3350		5200	6300	
	840 Polyflux XLr™														1000	1350	2450	3100	3350		5200	6300	
	860 Polyflux XLr™															1300			3250		5000		
Cov-R-Guard	830 Polyflux XLr™															1300			3250		5050	6100	
Shielded	835 Polyflux XLr™															1300			3250		5050	6100	
Fluorescent	840 Polyflux XLr™															1300			3250		5050	6100	
	860 Polyflux XLr™															1250			3200				
Standard	29 Warm White				385	850									850	1150	2250		2850		4600	5550	
Halophosphate	35 White	150	260	400	850										850	1150	2250		2850	2850	4600	5550	
	25 Natural																						
	Universal White																						
	33 Cool white	150	260	380	800										850	1150	2175	2600	2850		4600	5450	
	54 Daylight														750	950	1850	1900	2350		3750		

Product Colour Performance Characteristics

	Type	CIE Group	Ra Index Description	Ra Index	CCT K	GE ref	Ave lm/W
Starcoat	827 Starcoat™	1B	Good	85	2720	827	97
T5 Lamps	830 Starcoat™	1B	Good	85	2940	830	97
	835 Starcoat™	1B	Good	85	3450	835	97
	840 Starcoat™	1B	Good	85	4040	840	97
	865 Starcoat™	1B	Good	85	6500	860	95
Triphosphor	827 Polyflux XLr™	1B	Good	85	2720	827	93
Polyflux XLr	830 Polyflux XLr™	1B	Good	85	2940	830	93
Lamps	835 Polyflux XLr™	1B	Good	85	3450	835	93
	840 Polyflux XLr™	1B	Good	85	4040	840	93
	860 Polyflux XLr™	1B	Good	85	6400	860	90
Cov-R-Guard	830 Cov-R-Guard Polyflux XLr™	1B	Good	85	2940	830	93
Shielded	835 Cov-R-Guard Polyflux XLr™	1B	Good	85	3450	835	93
Fluorescent	840 Cov-R-Guard Polyflux XLr™	1B	Good	85	4040	840	93
Standard	29 Warm White	3	Low	51	2940	29	79
Halophosphate	35 White	3	Low	54	3450	35	79
	25 Natural/Universal White	2	Moderate	70	4000	25	72
	33 Cool white	3	Low	58	4040	33	79
	54 Daylight	2	Moderate	76	6500	54	65
Special	UV non-filter	-	NA	-	-	05	-
Colours	Blacklight Blue	-	NA	-	-	BLB	-

Ave lm/W = average initial lumens per watt (based on 36W, 1.2M tube or 40W, 1.2M tube for special colours and Polyflux)
Ra = colour rendering index (higher Ra's give better colour rendering, max. = 100/NA = not applicable)



Fluorescent lamps range overview

Lumen value table

	Wattage	20	40	65	75	85	100	125	22	32	40	60	40
	length mm	600	1200	1500	1800	2400	2400	2400	209.5	311.2	412.6	412.6	525
	Lamp	T12 38 mm Ø											
		Circline											
		Mod-u-line											
Starcoat™	827 Starcoat™												
T5 Lamps	830 Starcoat™												
	835 Starcoat™												
	840 Starcoat™												
	865 Starcoat™												
Triphosphor	827 Polylox XLr™												
Polylox XLr	830 Polylox XLr™												
Lamps	835 Polylox XLr™												
	840 Polylox XLr™												
	860 Polylox XLr™												
Cov-R-Guard	830 Polylox XLr™												
Shielded	835 Polylox XLr™												
Fluorescent	840 Polylox XLr™												
Triphosphor	827 Polylox												
Polylox	830 Polylox	1350	3350	5300	6550	7900	9100	10000					
	835 Polylox											3250	
	840 Polylox	1350	3350	5300	6550	7900	9100						
Standard	29 Warm White	1150	2950	4750	5750						2875		
Halophosphate	35 White	1150	2950	4750	5750	7100	8300	9200					
	25 Natural												
	Universal White	1050	2500	4000						1000	1825	2700	
	33 Cool white	1150	2950	4750	5700			8100	9100	1100	1950	2700	2875
	54 Daylight	950	2450	3900				7500	1050	1750	2440		

Product Description

Very warm, similar to incandescent light. Gives a warm effect in restaurants, hotels etc.
 Warm, gives a welcoming effect. Used in restaurants, hotels, offices and supermarkets.
 Intermediate colour, used in general, commercial and industrial lighting. Creates cool atmosphere in commercial installations. Recommended for hospitals. Intermediate colour between 840 and 860. Recommended for hospital and warmer climates.
 Very cool. Popular in warmer climates.

Very warm, similar to incandescent light. Gives a warm effect in restaurants, hotels etc.
 Warm, gives a welcoming effect. Used in restaurants, hotels, offices and supermarkets.
 Intermediate colour, used in general, commercial and industrial lighting.
 Creates cool atmosphere in commercial installations. Recommended for hospitals.
 Very cool. Popular in warmer climates.

Warm, gives a homely welcoming effect. Used in supermarkets, schools.
 Intermediate colour, used in general, commercial and industrial lighting.
 Creates cool atmosphere in commercial installations. Recommended for hospitals.

Warm, used in commercial or public buildings to create a "warm" atmosphere.
 Intermediate colour, standard colour for almost all applications.
 Cool, used in offices and shops. Higher colour rendering, but less efficient than cool white.
 Cool, used to create a cooler atmosphere in offices, factories and shops.
 Very cool. Popular in warmer climates.

Small amount of visible light with long wave UV-A radiation emitted to attract insects into insect traps.
 Only long wave UV produced. Used decoratively in discos as the UV makes white fabrics fluorescent.

Special Colours are available in some sizes, please ask our sales department for more information.

Fluorescent lamps

Product identification

The following glossary of terms and descriptions can help you when checking fluorescent lamp specifications and explains how to use the product codes when ordering products. Within each product line, lamps are divided into families - within families, lamps are listed by wattage.

Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

CRI Ra: Colour rendering index, the higher the number (1-100) the more natural the lit subject appears

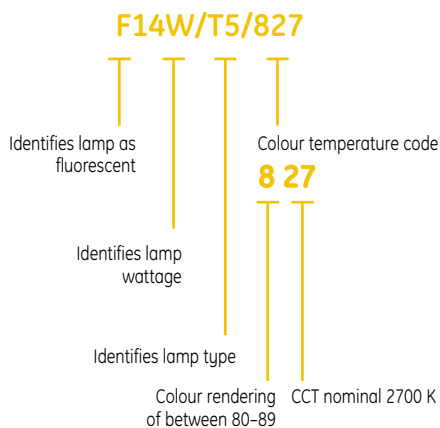
Product Code: It is important to use this code when ordering to ensure that you receive the exact product you require



Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	Product Code
T5 (Ø 16mm - 5/8")										
14		549	F14W/T5/827	STARCOAT/SL/1-30	2700	85	20000	1350	30	90230
			F14W/T5/830	STARCOAT/SL/1-30	3000	85	20000	1350	30	90239
			F14W/T5/835	STARCOAT/SL/1-30	3500	85	20000	1350	30	90246

Lamp: Lamp description followed by diameter (mm and inches)

Initial Lumens: Light output after the initial 100 hours of operation



Rated Average Life: The point in time when 50% of installed lamps are still burning

CCT K: Colour temperature - Kelvin. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears



Lead free Starcoat T5 Efficiency with Elegance in Design

GE'S MOST efficient fluorescent SOLUTION... small size, big lumen output for visual comfort.

High lumen in a small, lower package enabling visual comfort and performance for more productive office and retail environments.



GE's most efficient fluorescent... small size, big lumen output

GE's smallest fluorescent lamp type, only 16mm in diameter, delivers the light of much larger wattage fluorescent systems. High lumens in a small, lower wattage package makes GE Starcoat™ T5 the most efficient GE fluorescent lamp available. And GE's exclusive proprietary Starcoat™ coating gives GE T5 lamps unrivalled colour rendering and lumen maintenance. A variety of linear fluorescent fixtures are available to take advantage of T5's unique features, offering unlimited design and application flexibility.



Fluorescent lamps

Efficiency

GE T5 Starcoat™ is small in size but offers you a variety of choices. With 9 wattages to choose from, you can either maximize your lumen output or your efficiency. If you would like to maximise your lm/W then we recommend you choose from our:

High Efficiency range

With this solution you can get up to 104 lumens per watt, this means ongoing cost savings. Combined with an extremely long service life, this range of lamps is ideally suited to commercial and retail application in both direct and combined direct/indirect luminaires. If you would like to maximise your output, then we recommend you choose from our:

High Output Lamps

With this solution you can get up to 7000 lumens this means improved system efficacy and reduced number of fittings. The extremely high surface illuminance of the High Output Starcoat™ T5 range makes these lamps ideal for indirect luminaires. These are the best suited to uplighting systems or direct lighting in high ceilings applications, such as those in canopies or industrial situations.

With elegance in design

Unlimited design flexibility

The 16mm diameter Starcoat™ T5 enables outstanding flexibility in luminaire design offering both elegance and improved efficiency

- Easy fitting of the T5 luminaires into the ceiling module system
- Smaller physical dimensions for improved light output control and smaller, more aesthetic fittings

Environmentally responsible design



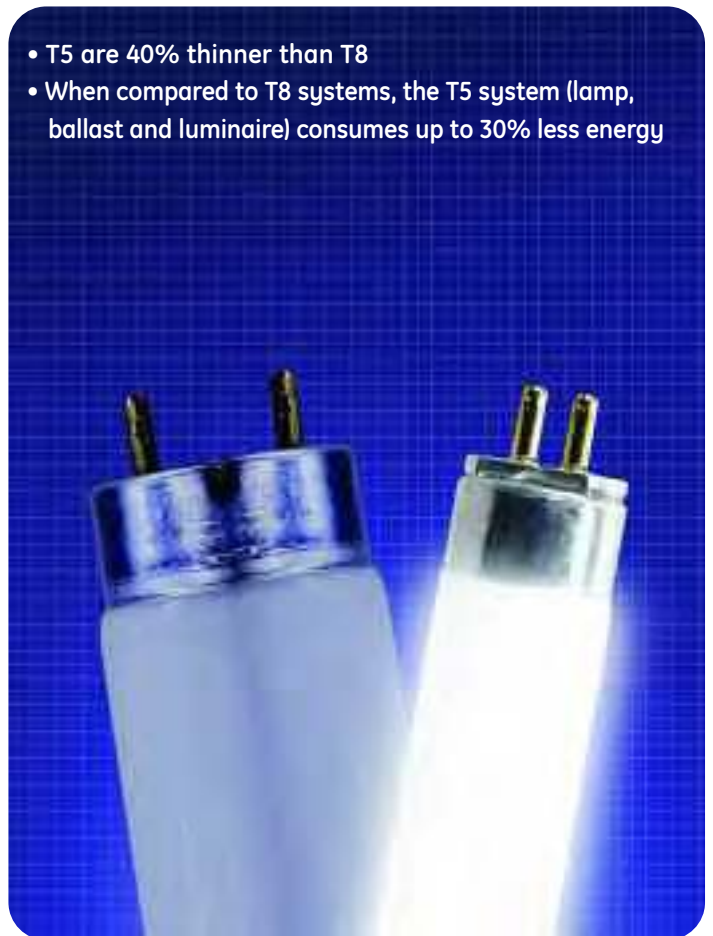
GE's T5 lamps feature 38% less glass and phosphors than T8 lamps and that means reduced waste in landfills. They are lead free products and contain only 5mg mercury, which is another plus for the environment. And with its high output design, you can reduce the number of lamps used for the same lumen output, further reducing environmental impact and providing added design flexibility.

All T5 lamps are environmentally friendly products – ROHS compliant & contains recyclable components.

Best colour coating technology

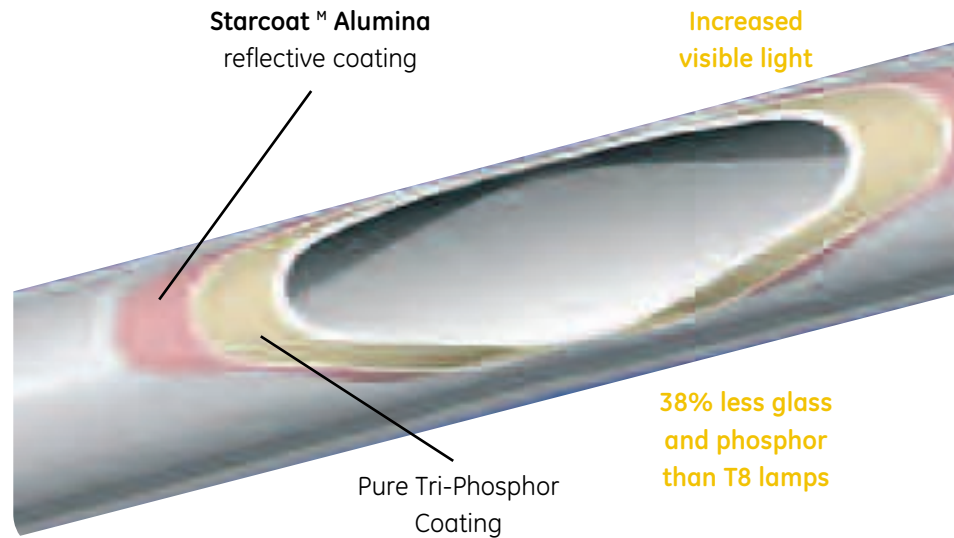
Our proprietary alumina pre-coat provides excellent CRI at 85 and 94% lumen maintenance at 40% rated life.

- T5 are 40% thinner than T8
- When compared to T8 systems, the T5 system (lamp, ballast and luminaire) consumes up to 30% less energy



Starcoat™ TECHNOLOGY

Starcoat™ is a proprietary coating technology that eliminates the need for traditional lower quality halophosphor coating by reflecting the UV-light more effectively. This leaves a pure triphosphor coating for excellent colour rendering and lumen maintenance performance.



Broad ballast compatibility

Rather than designing our lamps around one ballast, GE has maximised our performance on all major ballasts. GE Starcoat™ T5 is designed for HF operation which means: higher lamp efficacy and lower ballast losses than conventional ballasts.

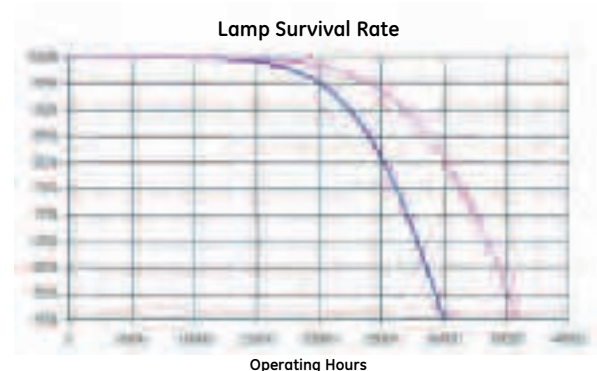
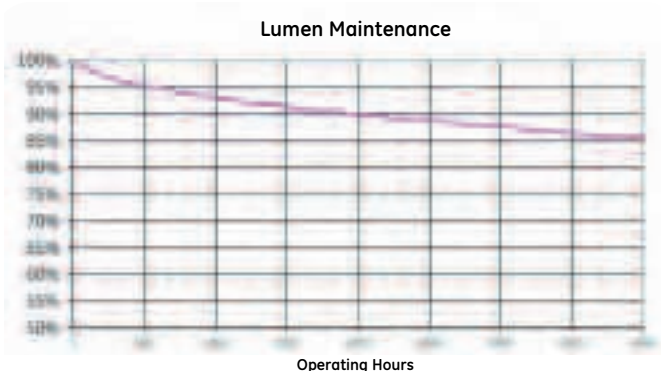
Wide range of commercial and industrial applications

- Perfectly suits Retail, Office, Schools, Commercial, Industrial, Sport halls
- Optimum light output reached at 35°C within fittings



Controlled performance specifications

- Rated average life-3hrs cycle
- Rated average life-12hrs cycle



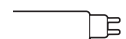
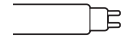
Starcoat™ T5 High Efficiency (HE) lead free products

Watt	Length mm	Product Description	CCT K	CRI Ra	Rated Average Life Hours (3-hr cycle)	Rated Average Life Hours (12-hr cycle)	Initial lumens at 35°C	Initial lumens at 25°C	Pack Qty	EE Class	Volts	I (A)	Product Code
T5 (Ø 16mm – 5/8")													
14	549	F14W/T5/827	2720	85	30000	36000	1350	1230	30	A	86	0.165	90230
14		F14W/T5/830	2940	85	30000	36000	1350	1230	30	A	86	0.165	90239
14		F14W/T5/835	3450	85	30000	36000	1350	1230	30	A	86	0.165	90246
14		F14W/T5/840	4040	85	30000	36000	1350	1230	30	A	86	0.165	90247
14		F14W/T5/865	6500	85	30000	36000	1250	1140	30	A	86	0.165	90244
21	849	F21W/T5/827	2720	85	30000	36000	2100	1910	30	A	126	0.165	90245
21		F21W/T5/830	2940	85	30000	36000	2100	1910	30	A	126	0.165	90248
21		F21W/T5/835	3450	85	30000	36000	2100	1910	30	A	126	0.165	90249
21		F21W/T5/840	4040	85	30000	36000	2100	1910	30	A	126	0.165	90250
21		F21W/T5/865	6500	85	30000	36000	1950	1770	30	A	126	0.165	90251
28	1149	F28W/T5/827	2720	85	30000	36000	2900	2640	30	A	166	0.17	90252
28		F28W/T5/830	2940	85	30000	36000	2900	2640	30	A	166	0.17	90253
28		F28W/T5/835	3450	85	30000	36000	2900	2640	30	A	166	0.17	90254
28		F28W/T5/840	4040	85	30000	36000	2900	2640	30	A	166	0.17	90255
28		F28W/T5/865	6500	85	30000	36000	2700	2450	30	A	166	0.17	90256
35	1449	F35W/T5/827	2720	85	30000	36000	3650	3320	30	A	205	0.175	90257
35		F35W/T5/830	2940	85	30000	36000	3650	3320	30	A	205	0.175	90258
35		F35W/T5/835	3450	85	30000	36000	3650	3320	30	A	205	0.175	90259
35		F35W/T5/840	4040	85	30000	36000	3650	3320	30	A	205	0.175	90260
35		F35W/T5/865	6500	85	30000	36000	3400	3090	30	A	205	0.175	90261
INDUSTRIAL PACK													
14	549	F14W/T5/827	2720	85	30000	36000	1350	1230	40	A	86	0.165	39965
		F14W/T5/830	2940	85	30000	36000	1350	1230	40	A	86	0.165	39964
		F14W/T5/835	3450	85	30000	36000	1350	1230	40	A	86	0.165	39961
		F14W/T5/840	4040	85	30000	36000	1350	1230	40	A	86	0.165	39973
		F14W/T5/865	6500	85	30000	36000	1250	1140	40	A	86	0.165	90222
21	849	F21W/T5/827	2720	85	30000	36000	2100	1910	40	A	126	0.165	39976
		F21W/T5/830	2940	85	30000	36000	2100	1910	40	A	126	0.165	39976
		F21W/T5/835	3450	85	30000	36000	2100	1910	40	A	126	0.165	39977
		F21W/T5/840	4040	85	30000	36000	2100	1910	40	A	126	0.165	39978
		F21W/T5/865	6500	85	30000	36000	1950	1770	40	A	126	0.165	39979
28	1149	F28W/T5/827	2720	85	30000	36000	2900	2640	40	A	166	0.17	39980
		F28W/T5/830	2940	85	30000	36000	2900	2640	40	A	166	0.17	39982
		F28W/T5/835	3450	85	30000	36000	2900	2640	40	A	166	0.17	39983
		F28W/T5/840	4040	85	30000	36000	2900	2640	40	A	166	0.17	39984
		F28W/T5/865	6500	85	30000	36000	2700	2450	40	A	166	0.17	39985
35	1449	F35W/T5/827	2720	85	30000	36000	3650	3320	40	A	205	0.175	39986
		F35W/T5/830	2940	85	30000	36000	3650	3320	40	A	205	0.175	39989
		F35W/T5/835	3450	85	30000	36000	3650	3320	40	A	205	0.175	39990
		F35W/T5/840	4040	85	30000	36000	3650	3320	40	A	205	0.175	39991
		F35W/T5/865	6500	85	30000	36000	3400	3090	40	A	205	0.175	39992



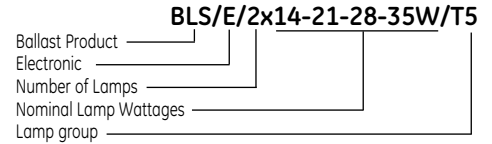
Starcoat™ T5 High Output (HO) lead free products

Watt	Length mm	Product Description	CCT K	CRI Ra	Rated Average Life Hours (3-hr cycle)	Rated Average Life Hours (12-hr cycle)	Initial lumens at 35°C	Initial lumens at 25°C	Pack Qty	EE Class	Volts	I (A)	Product Code
T5 (Ø 16mm – 5/8")													
24	549	F24W/T5/827	2720	85	30000	36000	2000	1750	30	A	77	0.295	90262
		F24W/T5/830	2940	85	30000	36000	2000	1750	30	A	77	0.295	90264
		F24W/T5/835	3450	85	30000	36000	2000	1750	30	A	77	0.295	90264
		F24W/T5/840	4040	85	30000	36000	2000	1750	30	A	77	0.295	90265
		F24W/T5/865	6500	85	30000	36000	1900	1600	30	A	77	0.295	90266
39	849	F39W/T5/827	2720	85	30000	36000	3500	3200	30	A	118	0.325	90267
		F39W/T5/830	2940	85	30000	36000	3500	3200	30	A	118	0.325	90268
		F39W/T5/835	3450	85	30000	36000	3500	3200	30	A	118	0.325	90269
		F39W/T5/840	4040	85	30000	36000	3500	3200	30	A	118	0.325	90270
		F39W/T5/865	6500	85	30000	36000	3330	2950	30	A	118	0.325	90271
49	1449	F49W/T5/827	2720	85	30000	36000	4900	4450	30	A	195	0.255	90277
		F49W/T5/830	2940	85	30000	36000	4900	4450	30	A	195	0.255	90278
		F49W/T5/835	3450	85	30000	36000	4900	4450	30	A	195	0.255	90279
		F49W/T5/840	4040	85	30000	36000	4900	4450	30	A	195	0.255	90280
		F49W/T5/865	6500	85	30000	36000	4650	4100	30	A	195	0.255	90281
54	1149	F54W/T5/827	2720	85	30000	36000	5000	4460	30	A	120	0.455	90272
		F54W/T5/830	2940	85	30000	36000	5000	4460	30	A	120	0.455	90273
		F54W/T5/835	3450	85	30000	36000	5000	4460	30	A	120	0.455	90274
		F54W/T5/840	4040	85	30000	36000	5000	4460	30	A	120	0.455	90275
		F54W/T5/865	6500	85	30000	36000	4750	4100	30	A	120	0.455	90276
80	1449	F80W/T5/827	2720	85	30000	36000	7000	6450	30	A	152	0.53	90282
		F80W/T5/830	2940	85	30000	36000	7000	6450	30	A	152	0.53	90283
		F80W/T5/840	4040	85	30000	36000	7000	6450	30	A	152	0.53	90285
		F80W/T5/865	6500	85	30000	36000	6650	5950	30	A	152	0.53	90286
		INDUSTRIAL PACK											
24	549	F24W/T5/827	2720	85	30000	36000	2000	1750	40	A	77	0.295	39994
		F24W/T5/830	2940	85	30000	36000	2000	1750	40	A	77	0.295	39998
		F24W/T5/835	3450	85	30000	36000	2000	1750	40	A	77	0.295	90196
		F24W/T5/840	4040	85	30000	36000	2000	1750	40	A	77	0.295	90197
		F24W/T5/865	6500	85	30000	36000	1900	1600	40	A	77	0.295	90198
39	849	F39W/T5/827	2720	85	30000	36000	3500	3200	40	A	118	0.325	90200
		F39W/T5/830	2940	85	30000	36000	3500	3200	40	A	118	0.325	90201
		F39W/T5/835	3450	85	30000	36000	3500	3200	40	A	118	0.325	90202
		F39W/T5/840	4040	85	30000	36000	3500	3200	40	A	118	0.325	90203
		F39W/T5/865	6500	85	30000	36000	3330	2950	40	A	118	0.325	90204
49	1449	F49W/T5/827	2720	85	30000	36000	4900	4450	40	A	195	0.255	90220
		F49W/T5/830	2940	85	30000	36000	4900	4450	40	A	195	0.255	90219
		F49W/T5/835	3450	85	30000	36000	4900	4450	40	A	195	0.255	90221
		F49W/T5/840	4040	85	30000	36000	4900	4450	40	A	195	0.255	90223
		F49W/T5/865	6500	85	30000	36000	4650	4100	40	A	195	0.255	90224
54	1149	F54W/T5/827	2720	85	30000	36000	5000	4460	40	A	120	0.455	90205
		F54W/T5/830	2940	85	30000	36000	5000	4460	40	A	120	0.455	90232
		F54W/T5/835	3450	85	30000	36000	5000	4460	40	A	120	0.455	90206
		F54W/T5/840	4040	85	30000	36000	5000	4460	40	A	120	0.455	90209
		F54W/T5/865	6500	85	30000	36000	4750	4100	40	A	120	0.455	90211
80	1449	F80W/T5/827	2720	85	30000	36000	7000	6450	40	A	152	0.53	90225
		F80W/T5/830	2940	85	30000	36000	7000	6450	40	A	152	0.53	90226
		F80W/T5/835	3450	85	30000	36000	7000	6450	40	A	152	0.53	90227
		F80W/T5/840	4040	85	30000	36000	7000	6450	40	A	152	0.53	90228
		F80W/T5/865	6500	85	30000	36000	6650	5950	40	B	152	0.53	90229



GE Electronic T5 Ballast

Watts	with 1 lamp Product Description	Product Code	with 2 lamp Product Description	Product Code	with 3 lamp Product Description	Product Code	with 4 lamp Product Description	Product Code
High Efficiency								
14	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905	BLS/E/3-4x14W/T5	70908	BLS/E/3-4x14W/T5	70908
21	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905				
28	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905				
35	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905				
High Output								
24	BLS/E/2x24W/T5	70914						
39			BLS/E/2x39W/T5	70915				
54			BLS/E/2x54W/T5	70912				
80	BLS/E/1x80W/T5	70913						



T5 Miniature

Watt	Length Ft	Length mm	Product Description	Colour/ Product Type	CCT K	CRI Ra	Rated Average Hours	Initial Lumens at 35°C	Pack Qty	EE Class	Volts	I (A)	Product Code
T5 (Ø 16mm – 5/8") Standard Halophosphate													
4	6in	150	F4W/33	Cool White	4040	58	5000	130	25	B	29	0.17	39441
			F4W/35	White	3450	54	5000	130	25	B			39446
6	9in	225	F6W/33	Cool White	4040	58	5000	260	25	B	42	0.16	39445
			F6W/35	White	3450	54	5000	260	25	B			39442
8	12in	300	F8W/29	Warm White	2940	51	5000	395	25	B	56	0.145	37754
			F8W/33	Cool White	4040	58	5000	395	25	B			37755
			F8W/33BP	Cool White	4040	58	5000	395	100	B			37001
			F8W/35	White	3450	54	5000	395	25	B			37756
			F8W/35BP	White	3450	54	5000	395	100	B			37006
13	21in	525	F13W/29	Warm White	2940	51	5000	850	25	B			39437
			F13W/33	Cool White	4040	58	5000	850	25	B	95	0.165	39440
			F13W/35	White	3450	54	5000	850	25	B			39439

Polylux

8	12in	300	F8W/827BP	Polylux 827	2720	80+	5000	460	100	B	56	0.143	37008
			F8W/840BP	Polylux 840	4040	80+	5000	460	100	B	56	0.143	37009
13	21in	525	F13W/827	Polylux 827	2720	80+	5000	970	25	B	95	0.137	39447

Specfill (Emergency Lighting)

6	225	F6W/T5/Specfill/33Bulk	Cool White				8000	260	100	B	42		40307
6	225	F6W/T5/Specfill/35Bulk	White				8000	260	100	B	42		40322
6	225	F6W/T5/Specfill/840Bulk	Polylux 840				8000	300	100	B	42		40327
8	300	F8/T5/33/GE	Cool White				8000	390	100	B	56		91450
8	300	F8/T5/35/GE	White				8000	400	100	B	56		91451
8	300	F8/T5/33/GE	Cool White				8000	400	25	B	56		27011
8	300	F8/T5/35/GE	White				8000	400	25	B	56		27027
8	300		Polylux 840				8000	460	100	B	56		40331
13	525	F13W/T5/Specfill/840Bulk	Polylux™ 840				8000	970	100	B	56		45695

T5 Blacklight Blue

Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	Spectral Peak	Rated Average Life Hours	Irradiance nW/cm ²	Pack Qty	EE Class	Cap	Product Code
T5 (Ø 16mm – 5/8")												
4	6in	150	F4W/BLB Blacklight Blue	-	368nm	368nm	5000	5,4	25	B	G5	39882
6	9in	225	F6W/BLB Blacklight Blue	-	368nm	368nm	5000	9,7	25	B	G5	39883
8	12in	300	F8W/BLB Blacklight Blue	-	368nm	368nm	6000	14	25	B	G5	39447



T5 Miniature Standard, Polylux™ and Specfill™ Lamps

T5 Miniature Lamps



T5 Miniature Lamps



T5 Miniature fluorescent lamps are designed for confined spaces of household and industrial applications. These lamps are widely used in different applications such as furniture cabinets, mobile homes as well as sign illumination. T5 Miniature lamps are well suited for use in maintained and non-maintained emergency modules and escape signs.

All T5 lamps are environmentally friendly products – ROHS compliant & contains recyclable components.



Fluorescent lamps

Polylux XLR™ Triphosphor fluorescent tubes Perfect light leads you right

Switch to Polylux XLR™ lamps for enhanced performance! Improved Polylux XLR™ for cost-efficiency, energy-saving and a better quality of light.

Good lighting brings you many benefits:

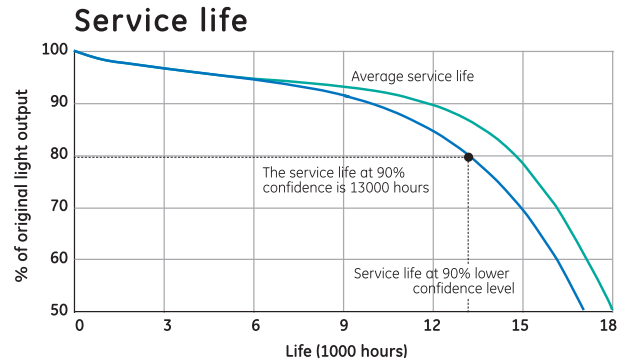
- Energy efficiency up to 93 lm/W
- Extra long life 20,000 hours*
- High performance, excellent colour rendering and superior lumen maintenance

Less lamps – more light

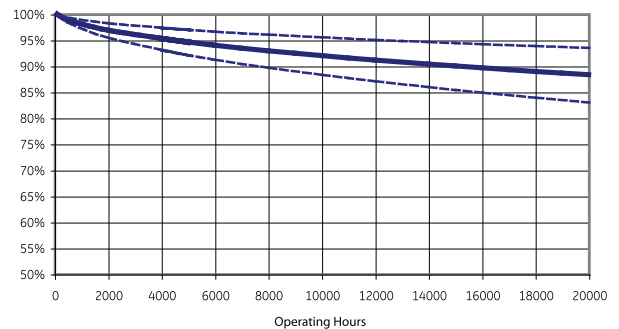
GE Polylux XLR™ lamps with excellent lumen output, energy efficiency up to 93lm/Watt:

- Superior service life 13,000 hours on 3 hours burning cycle! Excellent lumen maintenance and precise mercury dosing system push early failure level down to a minimum.
- Extended relamping cycles
- Increased performance reliability between relamping cycle
- Less waste over time – lamp disposal and packaging
- Up to 18% more light
- Fewer lamps are required to achieve the same illumination level

*15,000 hours life on conventional gear - Average rated life to 50% survival based on 3 hours switching cycle in accordance with International Standard IEC60082/EN60081



T8 Polylux XLR Lumen Maintenance



GE's environment conscious approach

For safer lamp disposal GE has invested heavily in reducing mercury content across all of its fluorescent lamp range:

- Mercury content is less than 5 mg
- Below any existing or proposed European legislation on dose level

All lamp components can be recycled at the end of life. Blue cap for easy identification of old and new lamps when replacing the old tubes into the Take Care System™ box.

All T5 lamps are environmentally friendly products – ROHS compliant & contains recyclable components.

Re-usable packaging means

GE's Take Care System™. No extra packaging requirements

- Less risk of pollution or injury due to breakage
- Easier handling and transportation for lamps to be recycled or disposed of

Colour choice

GE Polylux XLR™ is available in a comprehensive choice of colours from very warm light to very cool light, to create the desired ambience.

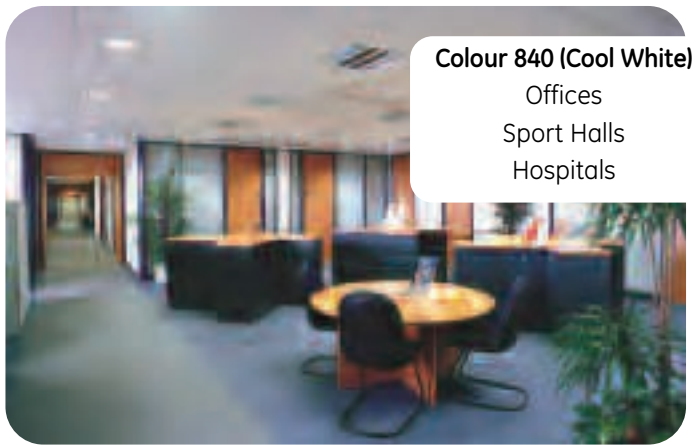
Colour 830 (Warm White)

- Retail
- Schools, gyms
- Reception Areas



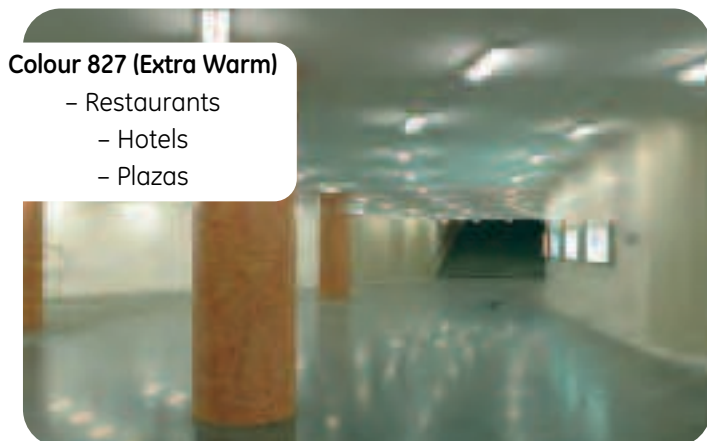
Colour 860 (Daylight)

- Display/Galleries
- Specialist Industries
- (e.g. Textiles, Printing)



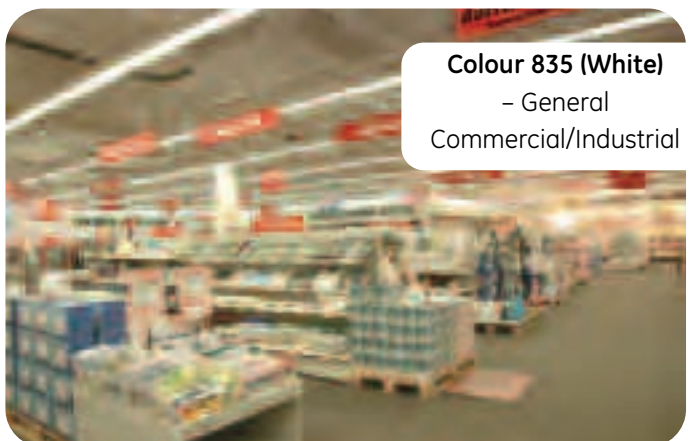
Colour 840 (Cool White)

- Offices
- Sport Halls
- Hospitals



Colour 827 (Extra Warm)

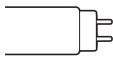
- Restaurants
- Hotels
- Plazas



Colour 835 (White)

- General Commercial/Industrial


T8 Polylux XLR™ – Reduced mercury and recyclable



Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T8 (ø26mm – 1")											
15	18 in	450	F15W/827	Polylux XLR 827	2720	85	15000	1000	25	B	23247
			F15W/830	Polylux XLR 830	2940	85	15000	1000	25	B	23248
			F15W/840	Polylux XLR 840	4040	85	15000	1000	25	B	23249
18	2ft	600	F18W/827	Polylux XLR 827	2720	85	15000	1350	25	A	93315
			F18W/830	Polylux XLR 830	2940	85	15000	1350	25	A	93319
			F18W/835	Polylux XLR 835	3450	85	15000	1350	25	A	93311
			F18W/840	Polylux XLR 840	4040	85	15000	1350	25	A	93317
			F18W/860	Polylux XLR 860	6400	85	15000	1300	25	A	12606
30	3ft	900	F30W/827	Polylux XLR 827	2720	85	15000	2450	25	A	18138
			F30W/830	Polylux XLR 830	2940	85	15000	2450	25	A	18141
			F30W/840	Polylux XLR 840	4040	85	15000	2450	25	A	18142
36		970	F36W1M/830	Polylux XLR 830	2940	85	15000	3100	25	A	23260
			F36W1M/840	Polylux XLR 840	4040	85	15000	3100	25	A	23262
36	4ft	1200	F36W/827	Polylux XLR 830	2720	85	15000	3350	25	A	19977
			F36W/830	Polylux XLR 840	2940	85	15000	3350	25	A	18192
			F36W/835	Polylux XLR 835	3450	85	15000	3350	25	A	19991
			F36W/840	Polylux XLR 840	4040	85	15000	3350	25	A	16856
			F36W/860	Polylux XLR 860	6400	85	15000	3250	25	A	12942
58	5ft	1500	F58W/827	Polylux XLR 827	2720	85	15000	5200	25	A	93330
			F58W/830	Polylux XLR 830	2940	85	15000	5200	25	A	93334
			F58W/835	Polylux XLR 835	3450	85	15000	5200	25	A	93331
			F58W/840	Polylux XLR 840	4040	85	15000	5200	25	A	93333
			F58W/860	Polylux XLR 860	6400	85	15000	5000	25	A	12943
70	6ft	1800	F70W/830	Polylux XLR 830	2940	85	15000	6300	25	A	42791
			F70W/835	Polylux XLR 835	3450	85	15000	6300	25	A	42792
			F70W/840	Polylux XLR 840	4040	85	15000	6300	25	A	42793

Polylux XLR™ Rated Average Life on HF Electronic gear: 20000 hrs

T8 Polylux™ XLR™ LongLast Range

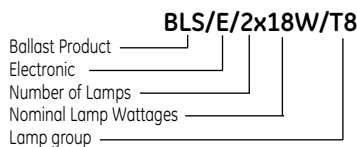


Watts	Length (mm)	Product Description	CCT K	Initial Lumens	CRI	Average life	Service life	Product Code
T8 (ø 26 mm – 1")								
18	600	F18W/T8/XLR/LL/830	2940	1350	85	42000	32000	70980
18	600	F18W/T8/XLR/LL/840	4040	1350	85	42000	32000	70981
36	1200	F36W/T8/XLR/LL/830	2940	3350	85	42000	32000	43508
36	1200	F36W/T8/XLR/LL/840	4040	3350	85	42000	32000	43509
58	1500	F58W/T8/XLR/LL/830	2940	5200	85	42000	32000	43510
58	1500	F58W/T8/XLR/LL/840	4040	5200	85	42000	32000	43511
70	1800	F70W/T8/XLR/LL/830	2940	6300	85	42000	32000	43513
70	1800	F70W/T8/XLR/LL/840	4040	6300	85	42000	32000	43514

Average life on conventional gear: 24000hrs
Service life on conventional gear: 21000hrs

GE Electronic T8 Ballast

Watts	with 1 lamp		with 2 lamp		with 3 lamp		with 4 lamp	
	Product Description	Product Code	Product Description	Product Code	Product Description	Product Code	Product Description	Product Code
18	BLS/E/1x18W/T8	70917	BLS/E/2x18W/T8	70918	BLS/E/3-4x18W/T8	70919	BLS/E/3-4x18W/T8	70919
36	BLS/E/1x36W/T8	70921	BLS/E/2x36W/T8	70922				
58	BLS/E/1x58W/T8	70923	BLS/E/2x58W/T8	70924				
70	BLS/E/1x70W/T8	70926	BLS/E/2x70W/T8	70925				



T8 Polylux™ XLR™ LongLast Range

Outstanding reliability with up to 42,000 hours life!

In today's business environment there is an increased need for lighting products that are helping to minimize operation costs and also providing environmentally responsible design.

GE's new T8 Polylux™ XLR™ LongLast range was designed to further improve reliability and drastically increase life performance without compromising on other key features of the product, such as initial lumen and lumen maintenance.

Benefits

- Very long and reliable product life – up to 42,000 hours
- Superior service life – up to 32,000 hours – ideal for group replacements
- Comprehensive product range – 36W, 58W and 70W
- Light output is same as for standard T8 Polylux™ XLR™ – best in class performance
- Excellent lumen maintenance
- Outstanding color rendering through the advanced XLR™ coating technology
- Environmentally friendly product – ROHS compliant & contains recyclable components
- Can be used on existing control gears and fixtures

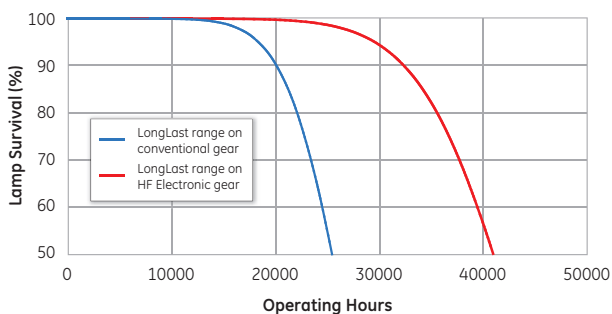
Application

GE Polylux™ T8 XLR™ LongLast range is an ideal choice for applications with high maintenance costs:

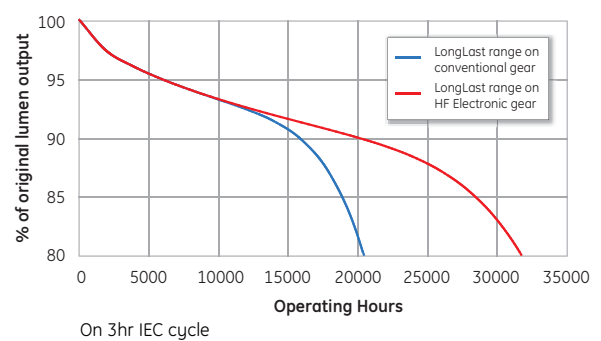
- Store lighting
- Warehouse lighting
- Industrial lighting
- Public buildings and areas



Life Expectancy



Service Life



T8 Standard Halophosphate

Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	EE Class	Product Code
T8 (Ø 26mm – 1")											
15	18in	450	F15W/29	Warm White	2940	51	9000	850	25	B	29527
			F15W/35	White	3450	54	9000	850	25	B	29531
			F15W/25	Natural White	4000	70	9000	775	25	B	29533
			F15W/33	Cool White	4040	58	9000	850	25	B	29524
			F15W/54	Daylight	6400	76	9000	750	25	B	29534
			F15W/55	Northlight	6300	93	9000	550	25	B	29687
18	2ft	600	F18W/29	Warm White	2940	51	9000	1150	25	B	29546
			F18W/35	White	3450	54	9000	1150	25	B	37139
			F18W/33	Cool White	4040	58	9000	1150	25	B	35098
			F18W/25	Natural	4000	70	9000	1100	25	B	29548
			F18W/54	Daylight	6400	76	9000	950	25	B	34883
30	3ft	900	F30W/29	Warm White	2940	51	9000	2250	25	B	18145
			F30W/35	White	3450	54	9000	2250	25	B	18147
			F30W/33	Cool White	4040	58	9000	2175	25	B	18137
			F30W/25	Natural	4000	70	9000	1900	25	B	17525
			F30W/54	Daylight	6000	76	9000	1850	25	B	18146
36	-	970	F36WM/33	Cool White	4040	58	9000	2600	25	B	92518
			F36WM/25	Natural	4000	70	9000	2250	25	B	92517
			F36WM/54	Daylight	6400	76	9000	1900	25	B	92519
T8 (Ø 26mm – 1")											
36	4ft	1200	F36W/29	Warm White	2940	51	9000	2850	25	B	29565
			F36W/35	White	3450	54	9000	2850	25	B	37734
			F36W/33	Cool White	4040	58	9000	2850	25	B	35099
			F36W/54	Daylight	6400	76	9000	2350	25	B	34886
			F36W/25	Natural	4000	70	9000	2600	25	B	29568
38	3.5ft	1050	F38W/35	White	3450	54	9000	2850	25	B	92520
58	5ft	1500	F58W/29	Warm White	2940	51	9000	4600	25	B	29571/ 35354*
			F58W/35	White	3450	54	9000	4600	25	B	29575/ 37627*
			F58W/33	Cool White	4000	58	9000	4600	25	B	29570/ 35353*
			F58W/25	Natural	4040	70	9000	4100	25	B	29577
			F58W/54	Daylight	6400	76	9000	3750	25	B	29580/ 35355*
70	6ft	1800	F70W/29	Warm White	2940	51	9000	5550	25	B	29587
			F70W/35	White	3450	54	9000	5550	25	B	29589
			F70W/33	Cool White	4040	58	9000	5450	25	B	29586

* Products for UK and Ireland market



Don't let an accident
cause an incident



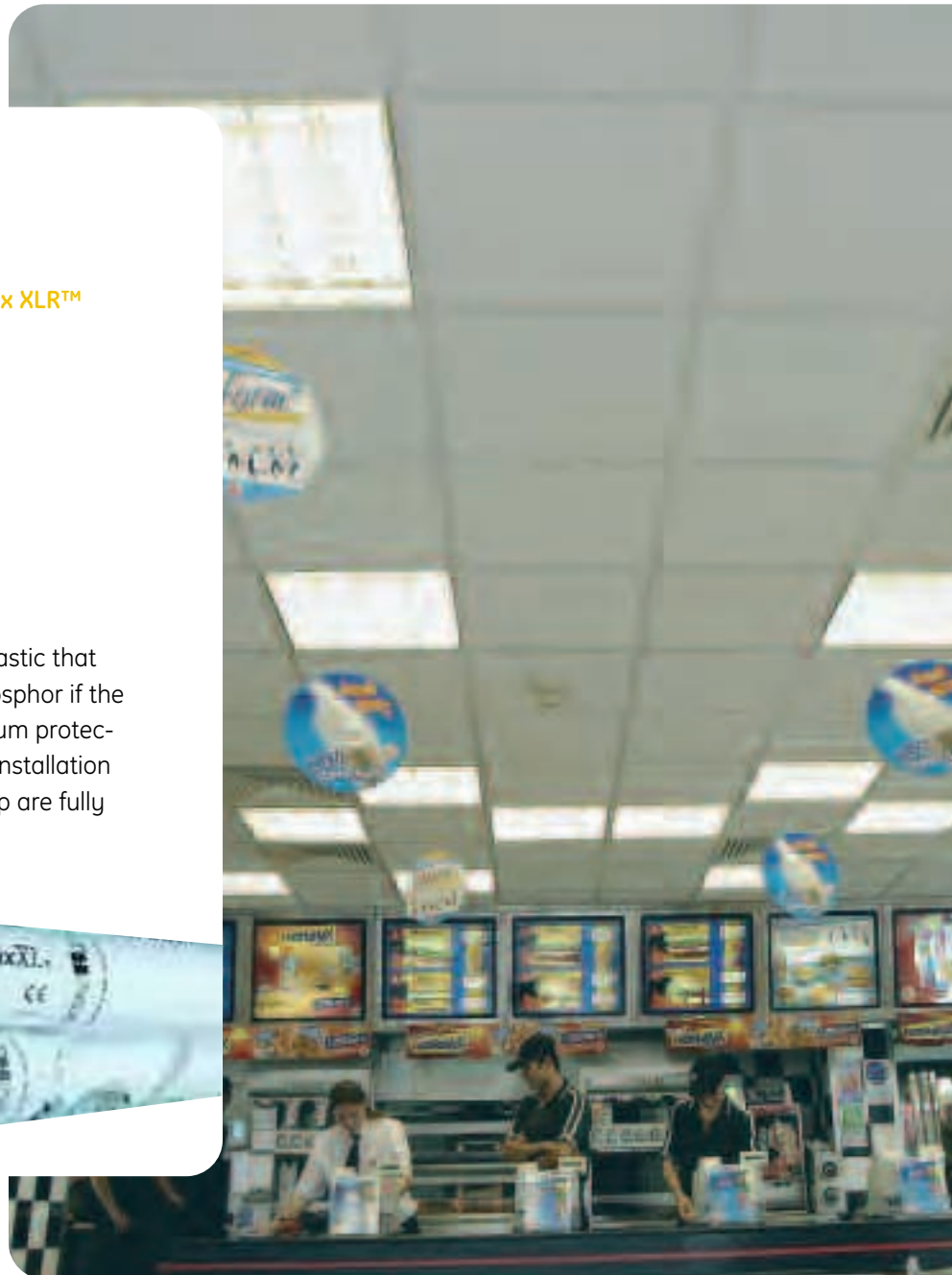
Cov-R-Guard™

- Complete shatter protection
- Quality protective sleeving
- Dependable UV- blocking
- Safety without sacrificing performance
- Cov-R-Guard™ lamps benefit from Polylux XLR™ triphosphor technology

- Long life
- Outstanding colour reproduction
- Excellent light output over life
- Reduced mercury content

Cov-R-Guard™ lamps

are wrapped in a casing of polycarbonate plastic that effectively contains glass fragments and phosphor if the lamp is broken. The casing allows for maximum protection with minimum light loss – keeping your installation bright and safe. Both the casing and the lamp are fully recyclable, once separated.



Applications:

food processing, hospitals, supermarkets, schools,
pharmaceutical, commercial kitchens, trains

T8 Cov-R-Guard™ PolyLux XLR™ – with Polycarbonate Shield



Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T8 (∅ 26mm – 1")											
18	2ft	600	F18W/830	CVG/XLR 830	2940	85	15000	1300	25	A	17203
			F18W/835	CVG/XLR 835	3450	85	15000	1300	25	A	17204
			F18W/840	CVG/XLR 840	4040	85	15000	1300	25	A	17205
36	4ft	1200	F36W/830	CVG/XLR 830	2940	85	15000	3250	25	A	17208
			F36W/835	CVG/XLR 835	3450	85	15000	3250	25	A	17202
			F36W/840	CVG/XLR 840	4040	85	15000	3250	25	A	17209
58	5ft	1500	F58W/830	CVG/XLR 830	2940	85	15000	5050	25	A	12403
			F58W/835	CVG/XLR 835	3450	85	15000	5050	25	A	12405
			F58W/840	CVG/XLR 840	4040	85	15000	5050	25	A	12407
70	6ft	1800	F70W/830	CVG/XLR 830	2940	85	15000	6100	25	A	12421
			F70W/835	CVG/XLR 835	3450	85	15000	6100	25	A	12423
			F70W/840	CVG/XLR 840	4040	85	15000	6100	25	A	12424

PolyLux XLR™ Cov-R-Guard Rated Average Life on HF Electronic gear : 20000 hrs
 PolyLux XLR™ Rated Average Life on HF Electronic gear : 20000 hrs

T8 Special Colours

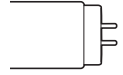


Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T8 (∅ 26mm – 1")											
15	18in	450	F15W/AR/FR	Fresh Aqua	5000	-	9000	400	10	B	16977
			F15W/AR/FS	Fresh & Salt Aqua	9000+	-	9000	700	10	B	16965
			F15W/AR/SA	Salt Water	9000+	-	7500	210	10	B	16987
			F15W/AR/REP	Reptile	6400	82	7500	400	10	B	17002
18	2ft	600	F18W/AR/FR	Fresh Aqua	5000	-	7500	600	10	B	16979
			F18W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	950	10	B	16966
			F18W/AR/SA	Salt Water	9000+	-	7500	270	10	B	16988
			F18W/AR/REP	Reptile	6400	82	7500	550	10	B	17003
25	2.5ft	750	F25W/AR/FR	Fresh Aqua	5000	-	7500	805	10	B	16980
			F25W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	1350	10	B	16968
			F25W/AR/SA	Salt Water	9000+	-	7500	430	10	B	16991
30	3ft	900	F30W/AR/FR	Fresh Aqua	5000	-	7500	1035	10	B	16981
			F30W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	1700	10	B	16969
			F30W/AR/SA	Salt Water	9000+	-	7500	540	10	B	16992
			F30W/AR/REP	Reptile	6400	82	7500	1100	10	B	17004
36	4ft	1200	F36W/AR/FR	Fresh Aqua	5000	-	7500	1425	10	B	16982
			F36W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	2350	10	B	16970
			F36W/AR/SA	Salt Water	9000+	-	7500	700	10	B	16995
			F36W/AR/REP	Reptile	6400	82	7500	1250	10	B	17006
38	3.5ft	1050	F38W/AR/FR	Fresh Aqua	5000	-	7500	1320	10	B	16984
			F38W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	2200	10	B	16971
			F38W/AR/SA	Salt Water	9000+	-	7500	650	10	B	16999
58	5ft	1500	F58W/AR/FR	Fresh Aqua	5000	-	7500	2225	10	B	16985
			F58W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	3750	10	B	16972
			F58W/AR/SA	Salt Water	9000+	-	7500	1100	10	B	17000



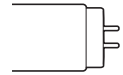
T12 Polylux

Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	EE Class	Product Code
T12 (Ø 38mm - 111/2")											
75	6ft	1800	F75W/830	Polylux 830	2940	80+	12000	6550	25	B	32656
			F75W/840	Polylux 840	4040	80+	12000	6550	25	B	29823
85	8ft	2400	F85W/830	Polylux 830	2940	80+	12000	7900	25	B	32696
			F85W/840	Polylux 840	4040	80+	12000	7900	25	B	30642
100	8ft	2400	F100W/830	Polylux 830	2940	80+	12000	9100	25	B	31265
			F100W/840	Polylux 840	4040	80+	12000	9100	25	B	31266
125	8ft	2400	F125W/830	Polylux 830	2940	80+	12000	10000	25	B	32658



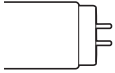
T12 Rapid Start

Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	EE Class	Product Code
T12 (Ø38mm - 111/2")											
20	2ft	600	F20W/33/RS	3 Cool White	4040	58	9000	1150	25	B	29758
20			F20W/33/IRS/RS GE 1/25	33 Cool White	4040	58	9000	1150	25	B	39929
20			F20W/54/IRS/RS GE 1/25	54 Daylight	6400	76	9000	950	25	B	39945
20			F20W T12 54 RS GE 1/25	54 Daylight	6400	76	9000	950	25	B	93371
40	4ft	1200	F40W/33/RS	33 Cool White	4040	58	9000	2950	25	B	29775
40			F40W/29/RS	29 Warm White	2940	51	9000	2950	25	B	29776
40			F40W/33/IRS/RS GE 1/25	33 Cool White	4040	58	9000	2950	25	B	39943
40			F40W/54/IRS/RS GE 1/25	54 Daylight	6400	76	9000	2450	25	B	39944
40			F40W T12 54 RS GE 1/25	54 Daylight	6400	76	9000	2450	25	B	93372
65	5ft	1500	T12F65W/33/RS	33 Cool White	4040	58	9000	4750	25	B	29791
65			F65W/33/IRS/RS GE 1/25	33 Cool White	4040	58	9000	4750	25	B	39941



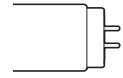
T12 Standard Halophosphate

Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T12 (Ø 38mm - 111/2")											
20	2ft	600	F20W/29	Warm White	2940	51	9000	1150	25	B	29747
			F20W/35	White	3450	54	9000	1150	25	B	29748
			F20W/33	Cool White	4040	58	9000	1150	25	B	29746
			F20W/54	Daylight	6400	76	9000	950	25	B	29750
40	2ft	600	F40W2/35	White	3450	54	9000	1850	25	B	29762
40	4ft	1200	F40W/29	Warm White	2940	51	9000	2950	25	B	29767
			F40W/35	White	3450	54	9000	2950	25	B	29769
			F40W/33	Cool White	4040	58	9000	2950	25	B	29765
			F40W/25	Natural White	4000	70	9000	2500	25	B	29770
			F40W/54	Daylight	6400	76	9000	2450	25	B	29771
			F40W/35/MS	White Metal Strip	3450	54	9000	2950	25	B	39955
F40W/33/MS	Cool White Metal Strip	4040	58	9000	2950	25	B	39938			
65	5ft	1500	F65W/29	Warm White	2940	51	9000	4750	25	B	29780
			F65W/35	White	3450	54	9000	4750	25	B	91314
			F65W/33	Cool White	4040	58	9000	4750	25	B	36434
			F65W/25	Natural	4000	70	9000	4000	25	B	29783
			F65W/54	Daylight	6400	76	9000	3900	25	B	91313
F65W/35/MS	White Metal Strip	3450	54	9000	4750	25	B	39934			
75	6ft	1800	F75W/29	Warm White	2940	51	9000	5750	25	B	29794
			F75W/35	White	3450	54	9000	5750	25	B	29795
			F75W/33	Cool White	4040	58	9000	5700	25	B	29792
85	8ft	2400	F85W/35	White	3450	54	9000	7100	25	B	31244
100	8ft	2400	F100W/35	White	3450	54	9000	8300	25	B	31246
			F100W/33	Cool White	4040	58	9000	8100	25	B	31260
125	8ft	2400	F125W/35	White	3450	54	9000	9200	25	B	31247
			F125W/33	Cool White	4040	58	9000	9100	25	B	31248
			F125W/54	Daylight	6500	76	9000	7500	25	B	31268



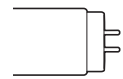
T12 Blacklight Blue

Watt	Length Ft	Length mm	Product Description	Colour Type	Spectral Peak	Irradiance nW/cm ²	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T12 (Ø 38mm - 111/2")											
20		600	F20W/BLB	Blacklight Blue	-	-	9000	-	6	-	34747
40		1200	F40W/BLB	Blacklight Blue	-	-	20000	-	6	-	25618



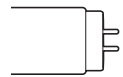
T12 HO and VHO

T12 (Ø 38mm - 111/2")											
110	96in	2400	F96T12/CW/HO	Cool White	4100	60	12000	8900	15	-	12540
215	96in	2400	F96T12/CW/1500	Cool White	4100	60	10000	13500	15	-	13781



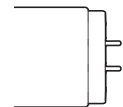
T12 Slimline™

T12 (Ø 38mm - 111/2")											
75	96in	2400	F96T12/CW	Cool White	4150	60	12000	6150	15	-	25619



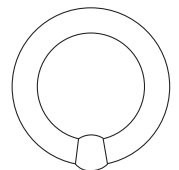
T17 Power Groove® Rapid Start

T17 (Ø 54mm - 211/8")											
215	96in	2400	F96PG17/CW	Cool White	4150	60	10000	14000	8	-	11009



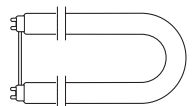
Circline™

Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T9 (Ø 34.1mm - 111/8")											
22		209.5	FC8T9/D	Daylight	6400	75	5000	875	12	B	92296
			FC8T9/CW	Cool White	4040	58	5000	1000	12	B	92295
32		311.2	FC12T9/CW	Cool White	4040	62	5000	1825	12	B	92297
			FC12T9/D	Daylight	6400	75	5000	1550	12	B	92298
40		412.6	FC16T9/WW	Warm White	3000	51	5000	2800	12	B	35275
			FC16T9/CW	Cool White	4040	62	5000	2700	12	B	35276
			FC16T9/D	Daylight	6400	75	5000	2500	12	B	35278
60		412.6	FC1660/WW	Warm White	3000	51	12000	3700	12	B	29886



Mod-U-Line™

T8 (Ø 38mm - 111/2")											
40		525	F40UT8/835	Polylux 835	3450	80+	7500	3250	20	A	29904
			F40UT8/29	Warm White	2940	51	7500	2875	20	B	29888
			F40UT8/35	White	3450	54	7500	2875	20	B	29891
			F40UT8/33	Cool White	4040	58	7500	2875	20	B	29892



Starters



Order Code	Product Description	Pack Qty	Product Code
155/200	15/22W 110V single or 220/240V twin	250 (10 x 25)	36711
155/200		2000	36714
155/500	4/65W universal 220/240V	250 (10 x 25)	36536
155/500		2000	36537
155/800	75/125W 240V	250 (10 x 25)	37864
155/800		2000	37729
155/801	70/100W 240V	250 (10 x 25)	37975
155/801		2000	37974



Fluorescent lamps

Fluorescent lamps provide a much more dispersed light than 'point' sources such as incandescent, halogen or discharge lamps. This quality, along with their outstanding energy efficiency, make them ideally suited for lighting large open areas such as offices and industrial buildings.

Standard fluorescent lamps use halophosphate lamp coatings. These lamps are used where low initial cost is the most important factor. However, higher performance lamps using triphosphor coatings, such as GE's Polyflux XLR™ lamps, are now increasingly being used as they provide significant energy savings.

The effects of switching on+off

Frequent switching on+off of fluorescent lamps can reduce their operational life. The graph, Fig 1 below, shows the effect on a lamp's life of different switching cycles.

Although a lamp that is only switched on and off rarely will last longer, light output does fall in the latter stage of a lamp's life.

The effects of temperature change

Fluorescent lamps are designed to produce their optimum light output at an ambient temperature of 25°C. However, when installed in a lamp fitting, the temperature of the air surrounding a lamp can change and affect the light output of the lamp. The effects of changes in ambient temperature for a typical lamp are shown in the graph, Fig 2 below.

Using electronic ballasts

The efficiency of fluorescent lamps can be improved by increasing the frequency of the mains voltage supplied to them. Electronic ballasts and controls can be used to increase the normal mains frequency of 50/60Hz to 25/30KHz improving lamp efficiency by approximately 10%. Electronic ballasts also consume less power than conventional ballasts and when combined with other efficiency benefits, electronic ballasts can achieve power savings of around 20% compared to conventional 50/60Hz systems with the same light output levels.

Light-output data

The lumen output figures quoted are measured at 25°C in accordance with EN60081 and EN60901.

Caution notice

Handle and install all fluorescent lamps with care. Turn off power before installing lamps.

Fig 1 Effect on life of different switching cycles

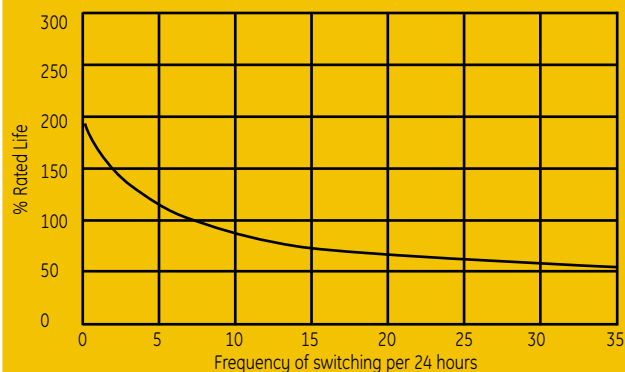
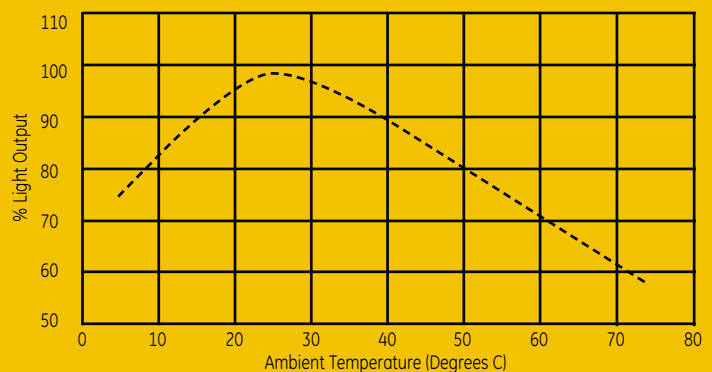


Fig 2 light output relative to ambient temperature



Compact fluorescent lamps

GE's compact fluorescent lamps give you more light and less heat, converting up to 25% of the electricity they use into light. Incandescent lamps convert just 5% into light and the remaining 95% into heat.

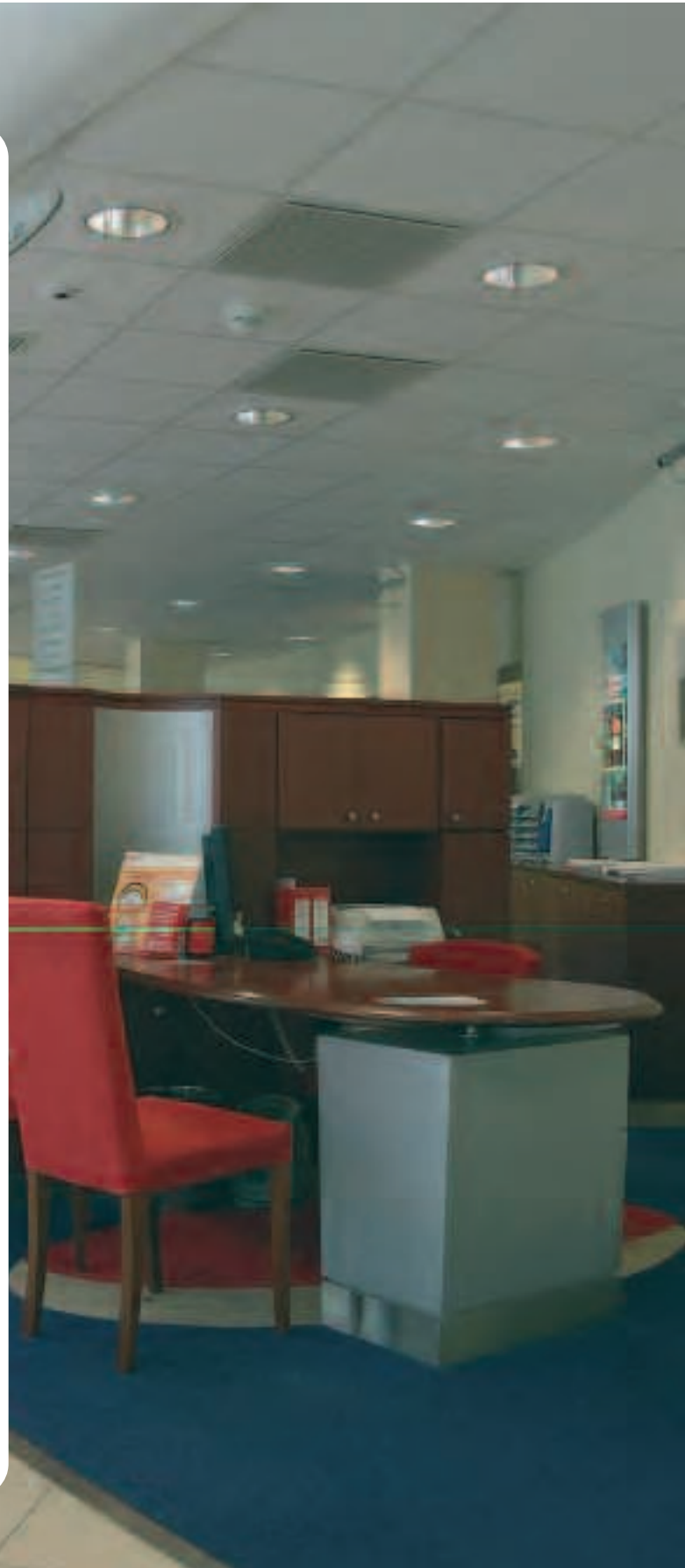
Because they use less energy you pay less for your lighting. They also last up to 15 times as long as incandescent lamps, so you spend less on maintenance.

While you save on cost with GE compact fluorescents, you lose nothing in quality. Colours are reproduced accurately and flicker-free light output is maintained for the whole of the lamp's life.



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Biax™ Q/E	94
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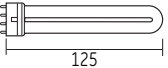












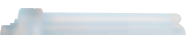

Compact fluorescent lamps

GE Biax™ Lamps

Lumens 500 1000 1500

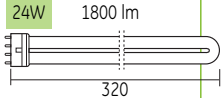
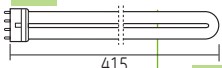
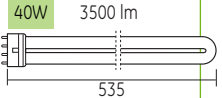
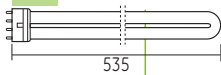
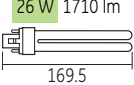
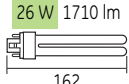
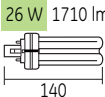
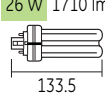
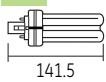
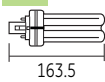
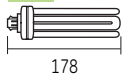
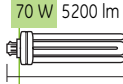
Nearest incandescent equivalent wattage



	<p>Biax™ L - 4 pin 18W 24W 34W 36W 40W 55W</p>  <p>43.9 mm</p>			<p>18 W 1250 lm</p>  <p>125</p>
	<p>Biax™ S - 2 pin 5W 7W 9W 11W</p>  <p>32.5 mm</p>	<p>5 W 265 lm 107.5</p> <p>7 W 425 lm 136.5</p> <p>9 W 600 lm 167</p>	<p>11 W 900 lm 237</p>	
	<p>Biax™ S/E - 4 pin 5W 7W 9W 11W</p>  <p>37.5 mm</p>	<p>5 W 265 lm 92</p> <p>7 W 425 lm 122.3</p> <p>9 W 600 lm 151</p>	<p>11 W 900 lm 228</p>	
	<p>Biax™ D - 2 pin 10W 13W 18W 26W</p>  <p>35 mm</p>		<p>10 W 600 lm 108.5</p> <p>13 W 900 lm 133</p>	<p>18 W 1200 lm 154</p>
	<p>Biax™ D/E - 4 pin 10W 13W 18W 26W</p>  <p>35 mm</p>		<p>10 W 600 lm 101</p> <p>13 W 900 lm 125.5</p>	<p>18 W 1200 lm 146.5</p>
	<p>Biax™ T - 2 pin 13W 18W 26W</p>  <p>49 mm</p>		<p>13 W 900 lm 115.5</p>	<p>18 W 1200 lm 130</p>
	<p>Biax™ T/E - 4 pin 13W 18W 26W 32W 42W</p>  <p>49 mm</p>		<p>13 W 900 lm 108</p>	<p>18 W 1200 lm 122.5</p>
	<p>Biax™ Q/E - 4 pin with Amalgam 57W 70W</p>  <p>58 mm</p>			


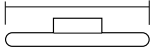
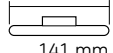

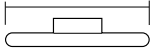
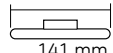


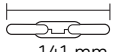


Compact Fluorescent Selector

150W		200W		300W	
 <p>24W 1800 lm 320</p>		 <p>36W 2900 lm 415</p>	 <p>40W 3500 lm 535</p>	 <p>55W 4800 lm 535</p>	
 <p>26 W 1710 lm 169.5</p>					
 <p>26 W 1710 lm 162</p>					
 <p>26 W 1710 lm 140</p>					
 <p>26 W 1710 lm 133.5</p>	 <p>32 W 2200 lm 141.5</p>		 <p>42 W 3200 lm 163.5</p>		
				 <p>57 W 4300 lm 178</p>	 <p>70 W 5200 lm 208</p>

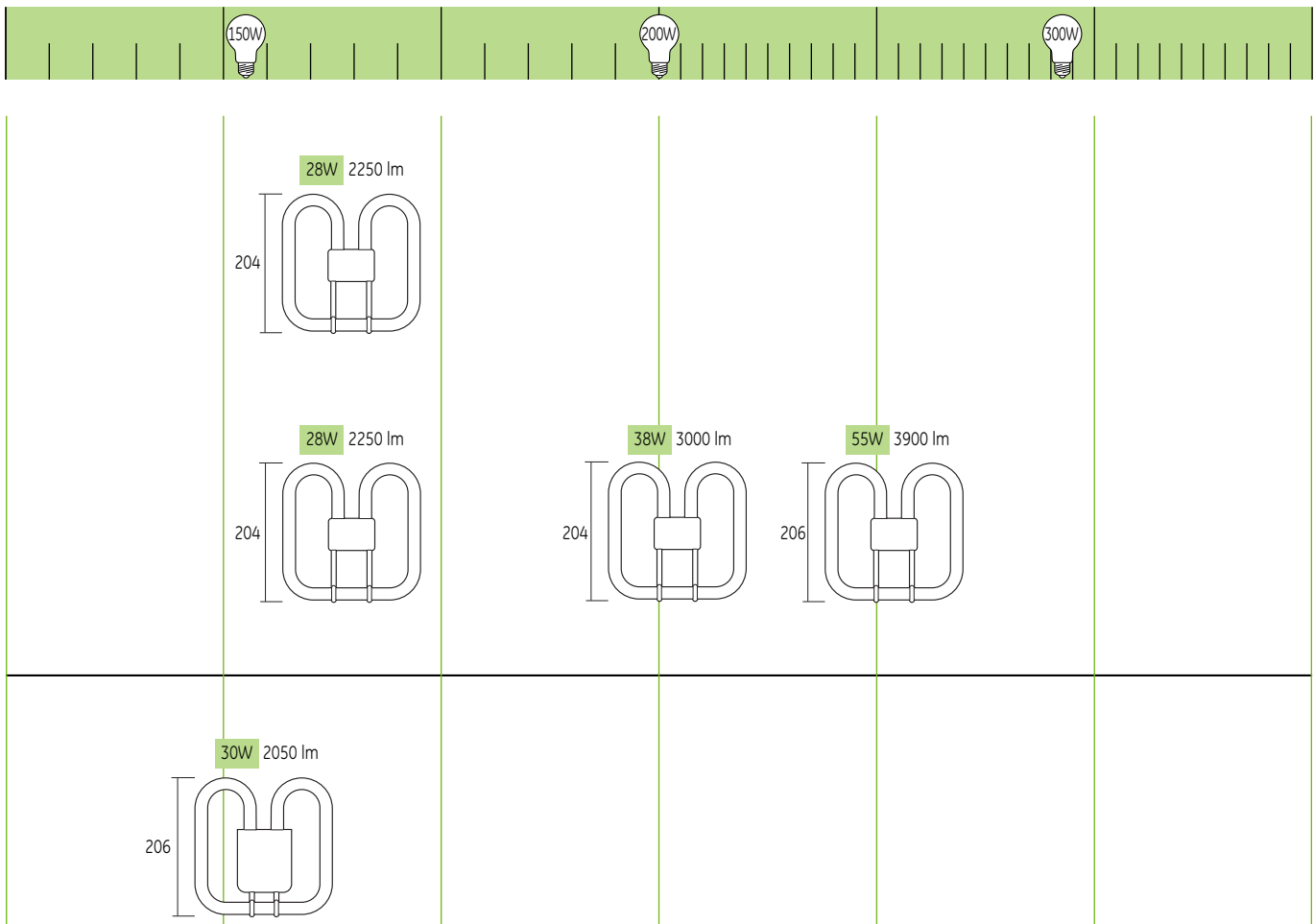
Compact fluorescent lamps

GE Biax™ 2D™ Lamps

		Lumens		500		1000		1500					
		Watts		25W		40W		60W		75W		100W	
Nearest incandescent equivalent wattage													
	Biax™ 2D™ - 2 pin 16W 28W	 204 mm											
		 141 mm											
	Biax™ 2D™ /E - 4 pin 16W 21W 28W 38W 55W	 202 mm											
		 141 mm											
		 92 mm											
	Biax™ 2D™ Lamp with integral control gear 18W 30W	 206 mm											
		 141 mm											



Compact Fluorescent Selector

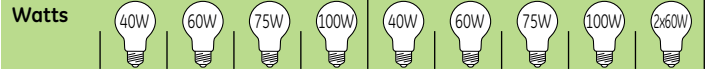


Compact fluorescent lamps

GE Electronic Biax™ Lamps

Life **3000** **6000**

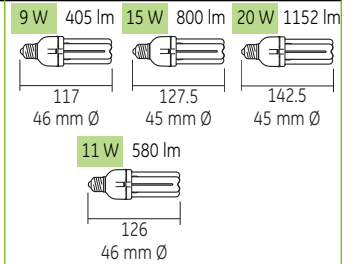
Nearest incandescent equivalent wattage



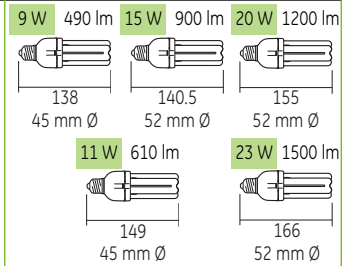
Extra Mini 220/240V	9W	E14	E27	B22
	11W	E14	E27	B22
	15W		E27	B22
	20W		E27	B22



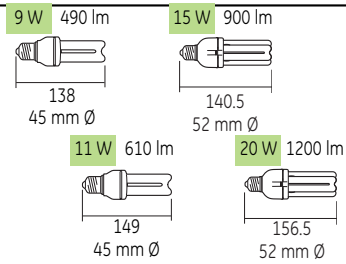
Tech 120/127V	15W		E27	TBX	
	20W		E27	TBX	
	24W		E27	QBX	
	28W		E27	QBX	
220/240V	15W		E27	B22	TBX
	20W		E27	B22	TBX
	23W		E27	B22	QBX



Mini Eco 220/240V	9W	E14	E27	B22	DBX
	11W	E14	E27	B22	DBX
	15W		E27	B22	TBX
	20W		E27	B22	TBX
	23W		E27	B22	TBX



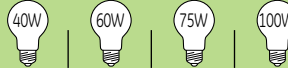
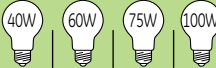

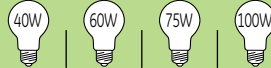
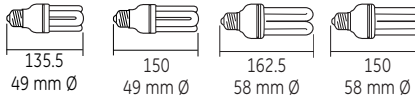
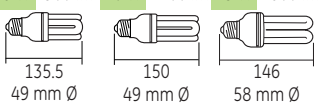
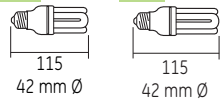
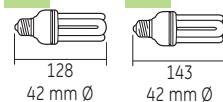
Eco 220/240V	9W	E14	E27	B22	DBX
	11W	E14	E27	B22	DBX
	15W		E27	B22	TBX
	20W		E27	B22	TBX
	23W		E27	B22	TBX



Start 220/240V	9W	E14	E27	B22	DBX
	11W	E14	E27	B22	DBX
	15W		E27	B22	TBX
	20W		E27	B22	TBX



Compact Fluorescent Selector

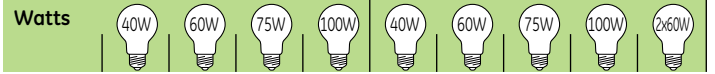
8000	10000	12000	15000
			
		<p> 15 W 900 lm 20 W 1200 lm 24 W 1520 lm 28 W 1750 lm  </p> <p> 15 W 900 lm 20 W 1200 lm 23 W 1500 lm  </p>	<p> 9 W 480 lm 11 W 600 lm  </p> <p> 15 W 900 lm 20 W 1200 lm  </p>

Compact fluorescent lamps

GE Electronic Biax™ Lamps

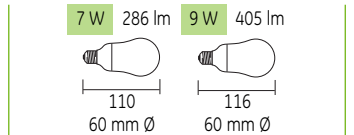
Life **3000** **6000**

Nearest incandescent equivalent wattage



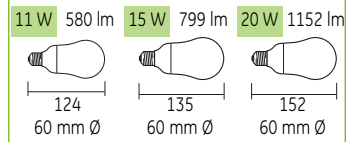
Biax Extra Mini GLS 8000 hrs

220/240V	9W	E14	E27	B22
	11W	E14	E27	B22
	15W		E27	B22
	20W		E27	B22



Elegance GLS 6000 hrs

220/240V	7W	E14	E27	B22
	9W	E14	E27	B22
	11W	E14	E27	B22
	15W		E27	B22
	20W		E27	B22

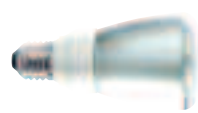
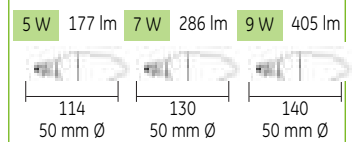


Biax Extra Mini Candle 8000 hrs

220/240V	9W	E14	E27	B22
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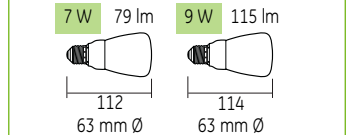
Elegance Candle 6000 hrs

220/240V	5W	E14		
	7W	E14		
	9W	E14	E27	B22



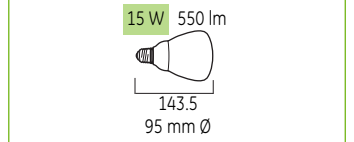
Elegance R63

220/240V	7W	E14		
	9W	E14	E27	



Elegance R95

220/240V	15W		E27	
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Biax Extra Mini Globe

220/240V	15W		E27	B22
	20W		E27	B22
	23W		E27	B22

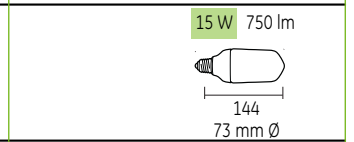
Elegance Globe

220/240V	11W		E27	B22
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Elegance Outdoor

220/240V	15W		E27	
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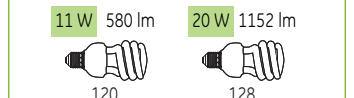
Genura

220/240V	23W		E27	
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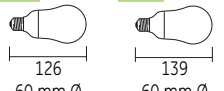


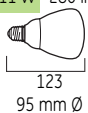
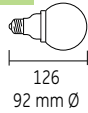
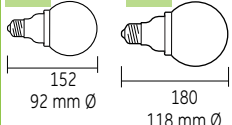
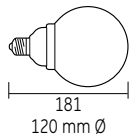
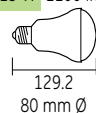


Elegance Spiral

220/240V	11W		E27	B22
	20W		E27	B22



Compact Fluorescent Selector

8000				10000				12000				15000			
40W	60W	75W	100W	40W	60W	75W	100W	40W	60W	75W	100W	40W	60W	75W	100W
<p>9 W 380 lm 15 W 750 lm</p>  <p>126 139 60 mm Ø 60 mm Ø</p> <p>11 W 550 lm 20 W 1080 lm</p>  <p>126 158 60 mm Ø 60 mm Ø</p>															
<p>9 W 380 lm</p>  <p>138 50 mm Ø</p>															
<p>11 W 280 lm</p>  <p>123 95 mm Ø</p>															
<p>11 W 550 lm</p>  <p>126 92 mm Ø</p>				<p>15 W 750 lm 20 W 1050 lm</p>  <p>152 180 92 mm Ø 118 mm Ø</p>				<p>23 W 1250 lm</p>  <p>181 120 mm Ø</p>							
												<p>23 W 1100 lm</p>  <p>129.2 80 mm Ø</p>			

Compact fluorescent lamps

Product identification

The following glossary of terms and descriptions can help you when checking compact fluorescent lamp specifications and explains how to use the product codes when ordering products. Within each product line, lamps are divided into families - within families, lamps are listed by wattage.

Lamp:
Lamp description followed by base description

Length:
Expressed in feet and mm

CRI Ra:
Colour rendering index, the higher the number (1-100) the more natural the lit subject appears

Product Code:
It is important to use this code when ordering to ensure that you receive the exact product you require

Biax™ L – 4 pin

Product Description:
The lamp's identification code

Initial Lumens:
Light output after the initial 100 hours of operation

Pack Quantity:
The number of lamps in one box

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
18	228	2G11	F18BX/827	2700	82	1250	10000	25	B	30639
			F18BX/830	3000	82	1250	10000	25	B	29223
			F18BX/835	3500	82	1250	10000	25	B	30613
			F18BX/840	4000	82	1250	10000	25	B	30614

Watts:
Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

Cap:
The type of cap fitted

CCT K:
Colour temperature - Kelvin. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

Energy Efficiency Class:
Energy saving code

F18/BX/840

Identifies lamp as fluorescent

Colour temperature code

Identifies lamp wattage

Identifies product type

Rated Average Life:
The point in time when 50% of installed lamps are still burning



GE Biax™ lamps offer up to 80% energy savings compared to equivalent incandescent lamps and last up to 10 times longer.

Biax™ L

- Stretched full length source with 4 pin base designed for 600mm square light fittings
- Replaces linear fluorescents twice the length
- Single-ended for simpler installation
- Round loop construction means no dark ends
- High surface brightness for improved optical control
- Polyflux phosphors allow matching with other fluorescents



Biax™ L

Biax™ S & S/E

- Biax™ S with 2 pin base and extra compact design to suit reduced size fittings
- Biax™ S/E with 4 pin base and external starter/controls for use with electronic control gear and dimming and emergency lighting applications
- 5 times more efficient than GLS lamps
- 9 times less maintenance compared to GLS lamps
- High colour rendering – matching the colour temperatures of incandescents



Biax™ S & S/E

Biax™ D & D/E

- 2 pin or 4 pin formats
- Light quality and colour performance to match other fluorescent
- High colour reproduction performance, providing rich, vibrant colours
- Wide range of wattages to suit all applications



Biax™ D & D/E

Biax™ T & T/E

- High colour reproduction performance, providing rich, vibrant colours
- Consistent high light output, irrespective of ambient temperature and the angle of installation
- Slim 49mm hexagonal base



Biax™ T & T/E

Biax™ Q/E

- High Lumen output with compact fluorescent and amalgam technology: 4200/5200 lm.
- Small size – 8 legged
- HF ballast operation
- Instant on quick warm up, hot restrike
- Wide colour range
- Low cost white light solution

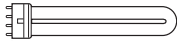


Biax™ Q/E

Compact fluorescent lamps

Biax™ – Plug-In

Biax™ L – 4 pin External Starter Required

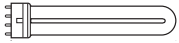


Watts	Reference Length mm	Length with contact pin	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Volts	I (A)	Product Code
18	225	231.8	2G11	F18BX/827	2700	82	1250	10000	25	B	61	0.37	41087
				F18BX/830	3000	82	1250	10000	25	B	61	0.37	41088
				F18BX/835	3500	82	1250	10000	25	B	61	0.37	41089
				F18BX/840	4000	82	1250	10000	25	B	61	0.37	41090
24	320	326.8	2G11	F24BX/827	2700	82	1800	10000	25	B	91	0.34	41128
				F24BX/830	3000	82	1800	10000	25	B	91	0.34	41134
				F24BX/835	3500	82	1800	10000	25	B	91	0.34	41145
				F24BX/840	4000	82	1800	10000	25	B	91	0.34	41155
34*	535	541.8	2G11	F34BX/830	3000	82	2800	10000	25	A	120	0.41	41163
				F34BX/835	3500	82	2800	10000	25	A	120	0.41	41166
				F34BX/840	4000	82	2800	10000	25	A	120	0.41	41167
36	415	421.8	2G11	F36BX/827	2700	82	2900	10000	25	A	112	0.43	41307
				F36BX/830	3000	82	2900	10000	25	A	112	0.43	41168
				F36BX/835	3500	82	2900	10000	25	A	112	0.43	41169
				F36BX/840	4000	82	2900	10000	25	A	112	0.43	41170
40	535	541.8	2G11	F40BX/830	3000	82	3500**	10000	25	A	126	0.32	41171
				F40BX/835	3500	82	3500	10000	25	A	126	0.32	41172
				F40BX/840	4000	82	3500	10000	25	A	126	0.32	41173
55***	535	541.8	2G11	F55BX/830	3000	82	4800	12000	25	A	100	0.55	41174
				F55BX/835	3500	82	4800	12000	25	A	100	0.55	41260
				F55BX/840	4000	82	4800	12000	25	A	100	0.55	41298
80***	565		2G11	F80BX/830	3000	82	6000	12000	25	A	145	0.55	23282
				F80BX/835	3500	82	6000	12000	25	A	145	0.55	23572
				F80BX/840	4000	82	6000	12000	25	A	145	0.55	23316
				F80BX/865	6500	82	6000	12000	25	A	145	0.55	23319

* Use with conventional ballast and electronic starter switch or fully electronic unit ** Lumens on HF gear, Lumens on approved conventional circuit 3360

*** Use on HF gear only

Cinema High Lumen Biax Lamps

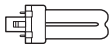


Watts	Length with contact pin	Product Description	Description	CCTK	CRI Ra	Initial Lumens	Rated Average Life Hours	Pack Qty	Volts	I (A)	Product Code
36		F36BX/CINEMA32	Indoor				10000	10	112	0.43	15816
36		F36BX/CINEMA56	Daylight				10000	10	112	0.43	15819
55**		F55BX/CINEMA32	Indoor				10000	10	100	0.55	15811
55**		F55BX/CINEMA56	Daylight				10000	10	100	0.55	15814
80	565	F80BX/830		3000	82	6000	12000	25			23282
		F80BX/840		4000	82	6000	12000	25			23316
		F80BX/865		6500	82	6000	12000	25			23319

* Use with conventional ballast and electronic starter switch or fully electronic unit

** For High-Frequency operation

Biax™ S – 2 pin Internal Starter

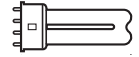


Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Volts	I (A)	Product Code
5	107.5	G23	F5BX/827	2700	82	265	10000	10	B	35	0.18	37654
			F5BX/840	4000	82	265	10000	10	B	35	0.18	37661
7	136.5	G23	F7BX/827	2700	82	425	10000	10	A	47	0.175	37846
			F7BX/830	3000	82	425	10000	10	A	47	0.175	38930
			F7BX/835	3500	82	425	10000	10	A	47	0.175	37659
			F7BX/840	4000	82	425	10000	10	A	47	0.175	37660
			F7BX/865	6500	82	425	10000	10	A	47	0.175	38984
9	167	G23	F9BX/827	2700	82	600	10000	10	A	60	0.17	37651
			F9BX/830	3000	82	600	10000	10	A	60	0.17	38929
			F9BX/835	3500	82	600	10000	10	A	60	0.17	37652
			F9BX/840	4000	82	600	10000	10	A	60	0.17	37653
			F9BX/865	6500	82	600	10000	10	A	60	0.17	38985
11	237	G23	F11BX/827	2700	82	900	10000	10	A	91	0.155	37663
			F11BX/830	3000	82	900	10000	10	A	91	0.155	38928
			F11BX/835	3500	82	900	10000	10	A	91	0.155	37666
			F11BX/840	4000	82	900	10000	10	A	91	0.155	37664
			F11BX/865	6500	82	900	10000	10	A	91	0.155	38986



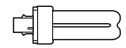
Biax™ S/E – 4 pin External Starter Required

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Volts	I (A)	Product Code
5	92	2G7	F5BX/827/4P	2700	82	265	10000	10	B	35	0.18	37714
			F5BX/840/4P	4000	82	265	10000	10	B	35	0.18	37715
7	121	2G7	F7BX/827/4P	2700	82	425	10000	10	A	47	0.175	37658
			F7BX/840/4P	4000	82	425	10000	10	A	47	0.175	37716
9	151	2G7	F9BX/827/4P	2700	82	600	10000	10	A	60	0.17	91264
			F9BX/840/4P	4000	82	600	10000	10	A	60	0.17	37711
11	222	2G7	F11BX/827/4P	2700	82	900	10000	10	A	91	0.155	91261
			F11BX/840/4P	4000	82	900	10000	10	A	91	0.155	37713
			F11BX/865/4P	6500	82	900	10000	10	A	91	0.155	12603



Biax™ D – 2 pin Internal Starter

10	108.5	G24d-1	F10DBX/827	2700	82	600	10000	10	B	64	0.19	12872
			F10DBX/830	3000	82	600	10000	10	B	64	0.19	12874
			F10DBX/835	3500	82	600	10000	10	B	64	0.19	12875
			F10DBX/840	4000	82	600	10000	10	B	64	0.19	12876
			F10DBX/865	6500	82	600	10000	10	B	64	0.19	12997
13	133	G24d-1	F13DBX/827	2700	82	900	10000	10	A	91	0.175	18557
			F13DBX/830	3000	82	900	10000	10	A	91	0.175	12956
			F13DBX/835	3500	82	900	10000	10	A	91	0.175	18559
			F13DBX/840	4000	82	900	10000	10	A	91	0.175	20532
			F13DBX/865	6500	82	900	10000	10	A	91	0.175	13015
18	154	G24d-2	F18DBX/827	2700	82	1200	10000	10	B	100	0.22	12860
			F18DBX/830	3000	82	1200	10000	10	B	100	0.22	12861
			F18DBX/835	3500	82	1200	10000	10	B	100	0.22	12863
			F18DBX/840	4000	82	1200	10000	10	B	100	0.22	12864
			F18DBX/865	6500	82	1200	10000	10	B	100	0.22	13017
26	169.5	G24d-3	F26DBX/827	2700	82	1710	10000	10	B	105	0.325	35250
			F26DBX/830	3000	82	1710	10000	10	B	105	0.325	35237
			F26DBX/835	3500	82	1710	10000	10	B	105	0.325	35251
			F26DBX/840	4000	82	1710	10000	10	B	105	0.325	35252
			F26DBX/865	6500	82	1710	10000	10	B	105	0.325	35305



Biax™ D/E – 4 pin External Starter Required

10	101	G24q-1	F10DBX/827/4P	2700	82	600	12000	10	B	64	0.19	30031
			F10DBX/830/4P	3000	82	600	12000	10	B	64	0.19	12877
			F10DBX/835/4P	3500	82	600	12000	10	B	64	0.19	30032
			F10DBX/840/4P	4000	82	600	12000	10	B	64	0.19	30034
13	125.5	G24q-1	F13DBX/827/4P	2700	82	900	12000	10	A	91	0.175	30035
			F13DBX/830/4P	3000	82	900	12000	10	A	91	0.175	10580
			F13DBX/835/4P	3500	82	900	12000	10	A	91	0.175	30037
			F13DBX/840/4P	4000	82	900	12000	10	A	91	0.175	30038
18	146.5	G24q-2	F18DBX/827/4P	2700	82	1200	12000	10	B	100	0.22	12865
			F18DBX/830/4P	3000	82	1200	12000	10	B	100	0.22	12866
			F18DBX/835/4P	3500	82	1200	12000	10	B	100	0.22	12869
			F18DBX/840/4P	4000	82	1200	12000	10	B	100	0.22	12870
26	162	G24q-3	F26DBX/827/4P	2700	82	1710	12000	10	B	105	0.325	35247
			F26DBX/830/4P	3000	82	1710	12000	10	B	105	0.325	35235
			F26DBX/835/4P	3500	82	1710	12000	10	B	105	0.325	35248
			F26DBX/840/4P	4000	82	1710	12000	10	B	105	0.325	35236



Compact fluorescent lamps

Biax™ – Plug-In

Biax™ T-2 pin with Amalgam Internal Starter



Watts	Length mm	Cap	Product Description	CCT	KCRI	Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Volts	I (A)	Product Code
13	115.5	GX24d-1	F13TBX/827/A	2700	82	900	10000	10000	10	A	91	0.175	35940
			F13TBX/830/A	3000	82	900	10000	10000	10	A	91	0.175	35966
			F13TBX/835/A	3500	82	900	10000	10000	10	A	91	0.175	35943
			F13TBX/840/A	4000	82	900	10000	10000	10	A	91	0.175	35941
18	130	GX24d-2	F18TBX/827/A	2700	82	1200	10000	10000	10	B	100	0.22	35945
			F18TBX/830/A	3000	82	1200	10000	10000	10	B	100	0.22	35944
			F18TBX/835/A	3500	82	1200	10000	10000	10	B	100	0.22	35937
			F18TBX/840/A	4000	82	1200	10000	10000	10	B	100	0.22	35939
			F18TBX/865/A	6500	82	1200	10000	10000	10	B	100	0.22	35938
26	140	GX24d-3	F26TBX/827/A	2700	82	1710	10000	10000	10	B	105	0.325	35959
			F26TBX/830/A	3000	82	1710	10000	10000	10	B	105	0.325	35952
			F26TBX/835/A	3500	82	1710	10000	10000	10	B	105	0.325	35963
			F26TBX/840/A	4000	82	1710	10000	10000	10	B	105	0.325	35964
			F26TBX/865/A	6500	82	1710	10000	10000	10	B	105	0.325	35965

Biax™ T/E – 4 pin with Amalgam External Starter Required



13	108	GX24q-1	F13TBX/827/A/4P	2700	82	900	12000	12000	10	A	91	0.175	34391
			F13TBX/830/A/4P	3000	82	900	12000	12000	10	A	91	0.175	34395
			F13TBX/835/A/4P	3500	82	900	12000	12000	10	A	91	0.175	34400
			F13TBX/840/A/4P	4000	82	900	12000	12000	10	A	91	0.175	34387
18	122.5	GX24q-2	F18TBX/827/A/4P	2700	82	1200	12000	12000	10	B	100	0.22	34392
			F18TBX/830/A/4P	3000	82	1200	12000	12000	10	B	100	0.22	34396
			F18TBX/835/A/4P	3500	82	1200	12000	12000	10	B	100	0.22	34405
			F18TBX/840/A/4P	4000	82	1200	12000	12000	10	B	100	0.22	34385
26	133.5	GX24q-3	F26TBX/827/A/4P	2700	82	1710	12000	12000	10	B	105	0.325	34393
			F26TBX/830/A/4P	3000	82	1710	12000	12000	10	B	105	0.325	34397
			F26TBX/835/A/4P	3500	82	1710	12000	12000	10	B	105	0.325	34406
			F26TBX/840/A/4P	4000	82	1710	12000	12000	10	B	105	0.325	34381
32	141.5	GX24q-3	F32TBX/827/A/4P	2700	82	2200	12000	12000	10	B	100	0.32	39377
			F32TBX/830/A/4P	3000	82	2200	12000	12000	10	B	100	0.32	39378
			F32TBX/835/A/4P	3500	82	2200	12000	12000	10	B	100	0.32	39379
			F32TBX/840/A/4P	4000	82	2200	12000	12000	10	B	100	0.32	39380
42	163.5	GX24q-4	F42TBX/827/A/4P/EOL	2700	82	3200	12000	12000	10	B	135	0.32	46312
			F42TBX/830/A/4P/EOL	3000	82	3200	12000	12000	10	B	135	0.32	46313
			F42TBX/835/A/4P/EOL	3500	82	3200	12000	12000	10	B	135	0.32	46314
			F42TBX/840/A/4P/EOL	4000	82	3200	12000	12000	10	B	135	0.32	46315



New CFL Biax™ Plug-in LongLast Range

Outstanding reliability with 20,000 hours life!

GE's new CFL Biax™ Plug-in LongLast range was designed to further improve reliability and drastically increase life performance without compromising on other key features of the product, such as initial lumen or lumen maintenance.

GE's enhanced line of plug-in products includes technical improvements to Biax™ lamps, where the lamp life has been increased by 66% to 20,000 hours making GE the industry leader in LongLast Plug-in lamps!*

The Triple Biax™ base is changed from round to hexagonal shape, to better fit a wide array of fixtures and applications.

These lamps provide a way to achieve even greater savings with CFLs. By providing extra long life, this industry-leading product lowers maintenance costs.

* 20000h life with 11 hour on / 1 hour off burning cycle with high frequency ballast

Long life benefits

For Lighting Maintenance Contractors, Wholesalers and Lighting Specialists

- better service life – less maintenance cost
- cost saving because of the WEEE fee
- utilize long-life feature in mixed applications (e.g. with LFL)
- longer life lamps are easier to get specified

Application

GE's CFL Biax™ Plug-in LongLast range is an ideal choice for applications with high maintenance costs:

- Store lighting
- Shops, offices
- Entrances, reception areas



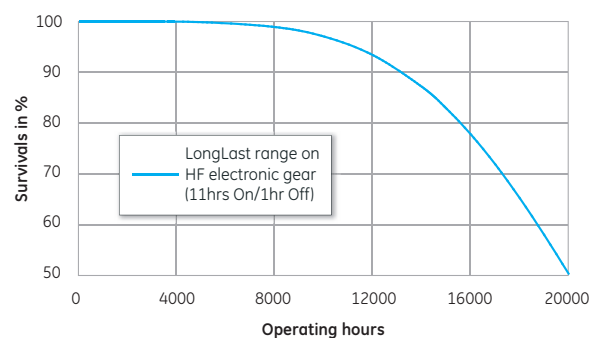
Hex base benefits

For OEMs, Contractors and Consulting Engineers

- hex base for twin applications in downlighters

Overall benefits

- Extremely long and reliable product life – up to 20,000 hours
- Complete product range – 13, 18, 26, 36, 42W, 57W and 70W
- Excellent lumen maintenance
- Environmental friendly product – RoHS compliant
- Can be used on existing control gears and fixtures



Compact fluorescent lamps

Biax™ – Plug-In

Biax™ D/E – 4-pin LongLast



Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life	Pack Qty	EE Class	Volts	I (A)	Product Code
10	101.0	G24q-1	F10DBX/827/4P/LL	2700	82	600	20000*	10	A	51	0.190	45061
10	101.0	G24q-1	F10DBX/830/4P/LL	3000	82	600	20000*	10	A	51	0.190	45069
10	101.0	G24q-1	F10DBX/835/4P/LL	3500	82	600	20000*	10	A	51	0.190	45068
10	101.0	G24q-1	F10DBX/840/4P/LL	4000	82	600	20000*	10	A	51	0.190	45067
10	101.0	G24q-1	F10DBX/865/4P/LL	6500	82	600	20000*	10	A	51	0.190	45150
13	125.5	G24q-1	F13DBX/827/4P/L	2700	82	900	20000*	10	A	77	0.165	45146
13	125.5	G24q-1	F13DBX/830/4P/LL	3000	82	900	20000*	10	A	77	0.165	45138
13	125.5	G24q-1	F13DBX/835/4P/LL	3500	82	900	20000*	10	A	77	0.165	45118
13	125.5	G24q-1	F13DBX/840/4P/LL	4000	82	900	20000*	10	A	77	0.165	45117
13	125.5	G24q-1	F13DBX/850/4P/LL	5000	82	900	20000*	10	A	77	0.165	45115
13	125.5	G24q-1	F13DBX/865/4P/LL	6500	82	900	20000*	10	A	77	0.165	45107
18	146.5	G24q-2	F18DBX/827/4P/LL	2700	82	1200	20000*	10	A	80	0.210	45096
18	146.5	G24q-2	F18DBX/830/4P/LL	3000	82	1200	20000*	10	A	80	0.210	45095
18	146.5	G24q-2	F18DBX/835/4P/LL	3500	82	1200	20000*	10	A	80	0.210	45090
18	146.5	G24q-2	F18DBX/840/4P/LL	4000	82	1200	20000*	10	A	80	0.210	45089
18	146.5	G24q-2	F18DBX/865/4P/LL	6500	82	1200	20000*	10	A	80	0.210	45088
26	162.0	G24q-3	F26DBX/827/4P/LL	2700	82	1710	20000*	10	A	80	0.300	45086
26	162.0	G24q-3	F26DBX/830/4P/LL	3000	82	1710	20000*	10	A	80	0.300	45081
26	162.0	G24q-3	F26DBX/835/4P/L	3500	82	1710	20000*	10	A	80	0.300	45076
26	162.0	G24q-3	F26DBX/840/4P/LL	4000	82	1710	20000*	10	A	80	0.300	45072
26	162.0	G24q-3	F26DBX/865/4P/LL	6500	82	1710	20000*	10	A	80	0.300	45070

*20000h life with 11 hour on / 1 hour off burning cycle with high frequency ballast

Biax™ T/E – 4-pin LongLast



Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life	Pack Qty	EE Class	Volts	I (A)	Product Code
13	106.2	GX24q-1	F13TBX/827/4P/LL	2700	82	900/810**	20000*	10	A	77	0.165	43913
13	106.2	GX24q-1	F13TBX/827/A/4P/LL	2700	82	900	20000*	10	A	77	0.165	45801
13	106.2	GX24q-1	F13TBX/830/A/4P/LL	2700	82	900	20000*	10	A	77	0.165	45802
13	106.2	GX24q-1	F13TBX/835/A/4P/LL	2700	82	900	20000*	10	A	77	0.165	45804
13	106.2	GX24q-1	F13TBX/840/A/4P/LL	2700	82	900	20000*	10	A	77	0.165	45805
13	106.2	GX24q-1	F13TBX/850/A/4P/LL	2700	82	900	20000*	10	A	77	0.165	45806
18	120.7	GX24q-2	F18TBX/827/A/4P/LL	2700	82	1200	20000*	10	A	80	0.210	43914
18	120.7	GX24q-2	F18TBX/830/A/4P/LL	3000	82	1200	20000*	10	A	80	0.210	43915
18	120.7	GX24q-2	F18TBX/835/A/4P/LL	3500	82	1200	20000*	10	A	80	0.210	43916
18	120.7	GX24q-2	F18TBX/840/A/4P/LL	4000	82	1200	20000*	10	A	80	0.210	43919
18	120.7	GX24q-2	F18TBX/850/A/4P/LL	2700	82	1200	20000*	10	A	80	0.210	43920
26	130.7	GX24q-3	F26TBX/827/A/4P/LL	2700	82	1710	20000*	10	A	80	0.300	43922
26	130.7	GX24q-3	F26TBX/830/A/4P/LL	3000	82	1710	20000*	10	A	80	0.300	43923
26	130.7	GX24q-3	F26TBX/835/A/4P/LL	3500	82	1710	20000*	10	A	80	0.300	43924
26	130.7	GX24q-3	F26TBX/840/A/4P/LL	4000	82	1710	20000*	10	A	80	0.300	43925
26	130.7	GX24q-3	F26TBX/850/A/4P/LL	2700	82	1710	20000*	10	A	80	0.300	43926
32	138.7	GX24q-3	F32TBX/827/A/4P/LL	2700	82	2200	20000*	10	A	100	0.320	43927
32	138.7	GX24q-3	F32TBX/830/A/4P/LL	3000	82	2200	20000*	10	A	100	0.320	43928
32	138.7	GX24q-3	F32TBX/835/A/4P/LL	3500	82	2200	20000*	10	A	100	0.320	43929
32	138.7	GX24q-3	F32TBX/840/A/4P/LL	4000	82	2200	20000*	10	A	100	0.320	43930
32	138.7	GX24q-3	F32TBX/850/A/4P/LL	5000	82	2200	20000*	10	A	100	0.320	43931
42	163.2	GX24q-4	F42TBX/827/A/4P/LL	2700	82	3200	20000*	10	A	135	0.320	43932
42	163.2	GX24q-4	F42TBX/830/A/4P/LL	3000	82	3200	20000*	10	A	135	0.320	43933
42	163.2	GX24q-4	F42TBX/835/A/4P/LL	3500	82	3200	20000*	10	A	135	0.320	43934
42	163.2	GX24q-4	F42TBX/840/A/4P/LL	4000	82	3200	20000*	10	A	135	0.320	43935
42	163.2	GX24q-4	F42TBX/850/A/4P/LL	5000	82	3200	20000*	10	A	135	0.320	43936

* 20000h life with 11 hour on / 1 hour off burning cycle with high frequency ballast.

** 900/810 – Base Up/Base Down

Biax™ Q/E – 4-pin LongLast



Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life	Pack Qty	EE Class	Volts	I (A)	Product Code
57	181	GX24q-5	F57QBX/827/A/4P/LL	2700	82	4300	20000*	10	A	155	0.32	45213
57	181	GX24q-5	F57QBX/830/A/4P/LL	3000	82	4300	20000*	10	A	155	0.32	45204
57	181	GX24q-5	F57QBX/835/A/4P/LL	3500	82	4300	20000*	10	A	155	0.32	45202
57	181	GX24q-5	F57QBX/840/A/4P/LL	4000	82	4300	20000*	10	A	155	0.32	45201
57	181	GX24q-5	F57QBX/850/A/4P/LL	5000	82	4300	20000*	10	A	155	0.32	45195
70	208	GX24q-6	F70QBX/827/A/4P/LL	2700	82	5200	20000*	10	A	199	0.32	45186
70	208	GX24q-6	F70QBX/830/A/4P/LL	3000	82	5200	20000*	10	A	199	0.32	45208
70	208	GX24q-6	F70QBX/835/A/4P/LL	3500	82	5200	20000*	10	A	199	0.32	45219
70	208	GX24q-6	F70QBX/840/A/4P/LL	4000	82	5200	20000*	10	A	199	0.32	45218
70	208	GX24q-6	F70QBX/850/A/4P/LL	5000	82	5200	20000*	10	A	199	0.32	45215

* 20000h life with 11 hour on / 1 hour off burning cycle



Compact fluorescent lamps

Biax™ – Plug-In

Biax™ Q/E Electronic Ballast

Nr of Lamps	Lamp Watts	Volts	Product Description	Initial Lumens lm	Lamp Power W	Lamp Efficacy lm/W	System Power W	System Efficacy lm/W	Colour Rendering Ra	Input Current A	Pack Qty	Product Code
1	57	220-240	BLS/E/1x57-70W/QBX	4300	56.0	77	60.5	71	82	0.28	0.25 12	13248
1	70	220-240	BLS/E/1x57-70W/QBX	5200	70.0	74	75.5	69	82	0.35	0.31 12	13248

* 20000h life with 11 hour on / 1 hour off burning cycle

Biax™ 2D – 2 pin Internal Starter

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Volts	I (A)	Product Code
10	95	GR10	F10W/2D/827/4P	2700	82	650	8000	20	B	72	0.180	88105
10	95	GR10	F10W/2D/835/4P	3500	82	650	8000	20	B	72	0.180	88106
16	138x142	GR8	F162D/827	2700	82	1050	15000	20	A	103	0.195	41744
			F162D/835	3500	82	1050	15000	20	A	103	0.195	41745
			F162D/860	6000	82	1050	15000	20	A	103	0.195	41749



Starcoat™ 2D™ T5 – 2 pin Internal Starter

28	204	GR8	F282DT5/827	2700	82	2250	15000	20	A	115	0.32	10546
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Biax™ 2D™/E – 4 pin External Starter Required

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Volts	I (A)	Product Code
16	141	GR10q	F162D/827/4P	2700	82	1050	15000	20	B	103	0.195	41746
			F162D/835/4P	3500	82	1050	15000	20	B	103	0.195	41747
21	142	GR10q	F212D/827/4P	2700	82	1350	15000	20	B	102	0.26	41794
			F212D/835/4P	3500	82	1350	15000	20	B	102	0.26	41806
			F212D/860/4P	6000	82	1350	15000	20	B	102	0.26	41808
28	204	GR10q	F282DT5/827/4P	2700	82	1350	15000	20	A	115	0.32	10547
			F282DT5/835/4P	3500	82	2250	15000	20	A	115	0.32	10567
			F282DT5/840/4P	4000	82	2250	15000	20	A	115	0.32	10548
38	204	GR10q	F382DT5/827/4P	2700	82	3000	15000	20	B	117	0.41	10550
			F382DT5/835/4P	3500	82	3000	15000	20	B	117	0.41	10566
55	206	GRY10q-3	F552D/827/A/4P	2700	82	3900	15000	20	B	78	0.7	37523
			F552D/835/A/4P	3500	82	3900	15000	20	B	78	0.7	37528



Biax™ 2D™ – with Integral Control Gear Operates on 230/240 Volts

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Width	Product Code
18	141	GRZ 10d	FLE18W2D/827/GR10	2700	82	1150	10000	10	A	T4-13	137	18122
			FLE18W2D/830/GR10	3000	82	1150	10000	10	A	T4-13	137	18121
			FLE18W2D/835/GR10	3500	82	1150	10000	10	A	T4-13	137	18123
			FLE18W2D/840/GR10	4000	82	1150	10000	10	A	T4-13	137	18120
30	206	GRZ 10t	FLE30W2D/827/GR10	2700	82	2050	10000	48	A	T6-18.5	202	92596
			FLE30W2D/835/GR10	3500	82	2050	10000	48	A	T6-18.5	202	92598
			FLE30W2D/840/GR10	4000	82	2050	10000	48	A	T6-18.5	202	92599

* Under consideration with IEC



Compact fluorescent lamps

Electronic Biax™



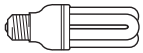
Electronic Biax™ Extra Mini



Electronic Biax™ Elegance

GE Electronic Biax™ lamps offer up to 80% energy savings compared to equivalent incandescent lamps and last up to 15 times longer.

Electronic Biax™ Extra Mini

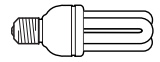


Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Tube number	Diameter	Product Code
9	220/240	116	E14	FLE9TBX/XM/827 E14	2700	82	480	15000	10	A	T3-9.5	6	42	43342
				FLE9TBX/XM/840 E14	4000	82	480	15000	10	A	T3-9.5	6	42	43345
				FLE9TBX/XM/865 E14	6500	82	480	15000	10	A	T3-9.5	6	42	43349
	115	E27	FLE9TBX/XM/827 E27	2700	82	480	15000	10	A	T3-9.5	6	42	43343	
			FLE9TBX/XM/840 E27	4000	82	480	15000	10	A	T3-9.5	6	42	43346	
			FLE9TBX/XM/865 E27	6500	82	480	15000	10	A	T3-9.5	6	42	43350	
	114	B22	FLE9TBX/XM/827 B22	2700	82	480	15000	10	A	T3-9.5	6	42	10611	
			FLE9TBX/XM/840 B22	4000	82	480	15000	10	A	T3-9.5	6	42	10614	
			FLE9TBX/XM/865 B22	6500	82	480	15000	10	A	T3-9.5	6	42	10617	
11	220/240	116	E14	FLE11TBX/XM/827 E14	2700	82	600	15000	10	A	T3-9.5	6	42	43352
				FLE11TBX/XM/840 E14	4000	82	600	15000	10	A	T3-9.5	6	42	43355
				FLE11TBX/XM/865 E14	6500	82	600	15000	10	A	T3-9.5	6	42	43360
	115	E27	FLE11TBX/XM/827 E27	2700	82	600	15000	10	A	T3-9.5	6	42	43353	
			FLE11TBX/XM/840 E27	4000	82	600	15000	10	A	T3-9.5	6	42	43356	
			FLE11TBX/XM/865 E27	6500	82	600	15000	10	A	T3-9.5	6	42	43361	
	114	B22	FLE11TBX/XM/827 B22	2700	82	600	15000	10	A	T3-9.5	6	42	10620	
			FLE11TBX/XM/840 B22	4000	82	600	15000	10	A	T3-9.5	6	42	10623	
			FLE11TBX/XM/865 B22	6500	82	600	15000	10	A	T3-9.5	6	42	10626	
15	220/240	128	E27	FLE15TBX/XM/827 E27	2700	82	900	15000	10	A	T3-9.5	6	42	43364
				FLE15TBX/XM/840 E27	4000	82	900	15000	10	A	T3-9.5	6	42	43366
				FLE15TBX/XM/865 E27	6500	82	900	15000	10	A	T3-9.5	6	42	43368
	127	B22	FLE15TBX/XM/827 B22	2700	82	900	15000	10	A	T3-9.5	6	42	10631	
			FLE15TBX/XM/840 B22	4000	82	900	15000	10	A	T3-9.5	6	42	10633	
			FLE15TBX/XM/865 B22	6500	82	900	15000	10	A	T3-9.5	6	42	10636	
20	220/240	143	E27	FLE20TBX/XM/827 E27	2700	82	1200	15000	10	A	T3-9.5	6	42	43370
				FLE20TBX/XM/840 E27	4000	82	1200	15000	10	A	T3-9.5	6	42	43338
				FLE20TBX/XM/865 E27	6500	82	1200	15000	10	A	T3-9.5	6	42	43340
	142	B22	FLE20TBX/XM/827 B22	2700	82	1200	15000	10	A	T3-9.5	6	42	10638	
			FLE20TBX/XM/840 B22	4000	82	1200	15000	10	A	T3-9.5	6	42	10640	
			FLE20TBX/XM/865 B22	6500	82	1200	15000	10	A	T3-9.5	6	42	10644	



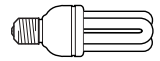
Extra Mini Oct Range 220/240 Volt

Watts	Volts	Length	Cap	Product Description	CCTK	CRI	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
20	220/240	135	E27	FLE20QBX/XM/827 E27 220-240V BX	2700	82	1200	15000	10	A	23017
				FLE20QBX/XM/840 E27 220-240V BX	4000	82	1200	15000	10	A	23018
				FLE20QBX/XM/865 E27 220-240V BX	6500	82	1200	15000	10	A	23022
			B22	FLE20QBX/XM/827 B22 220-240V BX	2700	82	1200	15000	10	A	23033
				FLE20QBX/XM/840 B22 220-240V BX	4000	82	1200	15000	10	A	23034
				FLE20QBX/XM/865 B22 220-240V BX	6500	82	1200	15000	10	A	23040
23	149	E27	FLE23QBX/XM/827 E27 220-240V BX	2700	82	1500	15000	10	A	23106	
			FLE23QBX/XM/840 E27 220-240V BX	4000	82	1500	15000	10	A	23107	
			FLE23QBX/XM/865 E27 220-240V BX	6500	82	1500	15000	10	A	23110	
			B22	FLE23QBX/XM/827 B22 220-240V BX	2700	82	1500	15000	10	A	23116
				FLE23QBX/XM/840 B22 220-240V BX	4000	82	1500	15000	10	A	23120
				FLE23QBX/XM/865 B22 220-240V BX	6500	82	1500	15000	10	A	23124



Electronic Biax™ Tech – with Amalgam

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Tube number	Diameter	Product Code	
15	120/127	135.5	E27	FLE15TBX/L/827 E27	2700	82	900	12000	6	A	T4-12,3	6	49	36739	
				FLE15TBX/L/840 E27	4000	82	900	12000	6	A	T4-12,3	6	49	36746	
				FLE15TBX/L/865 E27	6500	82	900	12000	6	A	T4-12,3	6	49	36747	
			E27	FLE15TBX/L/827 E27	2700	82	900	12000	6	A	T4-12,3	6	49	92259	
				FLE15TBX/L/840 E27	4000	82	900	12000	6	A	T4-12,3	6	49	92260	
				FLE15TBX/L/865 E27	6500	82	900	12000	6	A	T4-12,3	6	49	92261	
	134.5	B22	FLE15TBX/L/827 B22	2700	82	900	12000	6	A	T4-12,3	6	49	92250		
			FLE15TBX/L/840 B22	4000	82	900	12000	6	A	T4-12,3	6	49	92251		
			FLE15TBX/L/865 B22	6500	82	900	12000	6	A	T4-12,3	6	49	92252		
	20	120/127	150	E27	FLE20TBX/L/827 E27	2700	82	1200	12000	6	A	T4-12,3	6	49	36738
					FLE20TBX/L/840 E27	4000	82	1200	12000	6	A	T4-12,3	6	49	36744
					FLE20TBX/L/865 E27	6500	82	1200	12000	6	A	T4-12,3	6	49	36745
E27				FLE20TBX/L/827 E27	2700	82	1200	12000	6	A	T4-12,3	6	49	92267	
				FLE20TBX/L/840 E27	4000	82	1200	12000	6	A	T4-12,3	6	49	92268	
				FLE20TBX/L/865 E27	6500	82	1200	12000	6	A	T4-12,3	6	49	92269	
149		B22	FLE20TBX/L/827 B22	2700	82	1200	12000	6	A	T4-12,3	6	49	92263		
			FLE20TBX/L/840 B22	4000	82	1200	12000	6	A	T4-12,3	6	49	92264		
			FLE20TBX/L/865 B22	6500	82	1200	12000	6	A	T4-12,3	6	49	92265		
24		120/127	146	E27	FLE24QBX/A/827 E27	2700	82	1520	12000	6	A	T4-12,3	8	58	36741
					FLE24QBX/A/840 E27	4000	82	1520	12000	6	A	T4-12,3	8	58	36742
					FLE24QBX/A/865 E27	6500	82	1520	12000	6	A	T4-12,3	8	58	36743
28	120/127	150	E27	FLE28QBX/A/827 E27	2700	82	1750	12000	6	A	T4-12,3	8	58	39359	
				FLE28QBX/A/865 E27	6500	82	1750	12000	6	A	T4-12,3	8	58	39365	



Compact fluorescent lamps

Electronic Biax™

Electronic Biax™ ECO

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Tube number	Diameter	Product Code
9	220/240	138	E14	FLE9DBX/827/E14	2700	82	490	6000	10	A	T4-12	4	46	27934
				FLE9DBX/865/E14	6500	82	450	6000	10	A	T4-12	4	46	27517
		E27	FLE9DBX/827/E27	2700	82	490	6000	10	A	T4-12	4	46	27940	
	137	B22	FLE9DBX/840/E27	4000	82	480	6000	10	A	T4-12	4	46	27512	
			FLE9DBX/865/E27	6500	82	450	6000	10	A	T4-12	4	46	27514	
			FLE9DBX/827/B22	2700	82	490	6000	10	A	T4-12	4	46	27941	
11	220/240	149	E14	FLE11DBX/827/E14	2700	82	610	6000	10	A	T4-12	4	46	27946
				FLE11DBX/865/E14	6500	82	580	6000	10	A	T4-12	4	46	27531
		E27	FLE11DBX/827/E27	2700	82	610	6000	10	A	T4-12	4	46	27947	
	148	B22	FLE11DBX/840/E27	4000	82	600	6000	10	A	T4-12	4	46	27527	
			FLE11DBX/865/E27	6500	82	580	6000	10	A	T4-12	4	46	27528	
			FLE11DBX/827/B22	2700	82	610	6000	10	A	T4-12	4	46	27949	
15	220/240	140.5	E27	FLE15TBXSP/827/E27	2700	82	900	6000	10	A	T4-12.3	6	52	13328
				FLE15TBXSP/840/E27	4000	82	900	6000	10	A	T4-12.3	6	52	13329
		E27	FLE15TBXSP/865/E27	6500	82	900	6000	10	A	T4-12.3	6	52	13330	
	139.5	B22	FLE15TBXSP/827/B22	2700	82	900	6000	10	A	T4-12.3	6	52	13332	
			FLE15TBXSP/840/B22	4000	82	900	6000	10	A	T4-12.3	6	52	13333	
			FLE15TBXSP/865/B22	6500	82	900	6000	10	A	T4-12.3	6	52	13334	
20	220/240	155	E27	FLE20TBXSP/827/E27	2700	82	1200	6000	10	A	T4-12.3	6	52	13336
				FLE20TBXSP/840/E27	4000	82	1200	6000	10	A	T4-12.3	6	52	13337
		E27	FLE20TBXSP/865/E27	6500	82	1200	6000	10	A	T4-12.3	6	52	13342	
	154	B22	FLE20TBXSP/827/B22	2700	82	1200	6000	10	A	T4-12.3	6	52	13344	
			FLE20TBXSP/840/B22	4000	82	1200	6000	10	A	T4-12.3	6	52	13349	
			FLE20TBXSP/865/B22	6500	82	1200	6000	10	A	T4-12.3	6	52	13350	
23	220/240	165	E27	FLE23TBXSP/827/E27	2700	82	1500	6000	10	A	T4-12.3	6	52	13354
				FLE23TBXSP/840/E27	4000	82	1500	6000	10	A	T4-12.3	6	52	13355
		E27	FLE23TBXSP/865/E27	6500	82	1500	6000	10	A	T4-12.3	6	52	13356	
	164	B22	FLE23TBXSP/827/B22	2700	82	1500	6000	10	A	T4-12.3	6	52	13358	
			FLE23TBXSP/840/B22	4000	82	1500	6000	10	A	T4-12.3	6	52	13359	
			FLE23TBXSP/865/B22	6500	82	1500	6000	10	A	T4-12.3	6	52	13361	

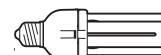
Mini ECO

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Tube number	Diameter	Product Code
9	220/240	117	E27	FLE9TBX/T3/827/E27	2700	82	405	6000	10	A	T3-9.5	6	46	40829
				FLE9TBX/T3/827/B22	2700	82	405	6000	10	A	T3-9.5	6	46	40517
		117	E14	FLE9TBX/T3/827/E14	2700	82	405	6000	10	A	T3-9.5	6	46	40828
				FLE9TBX/T3/840/E27	4000	82	405	6000	10	A	T3-9.5	6	46	40833
		117	E27	FLE9TBX/T3/865/E27	6500	82	405	6000	10	A	T3-9.5	6	46	40631
				FLE9TBX/T3/865/B22	6500	82	405	6000	10	A	T3-9.5	6	46	40639
		117	E27	FLE9TBX/T3/865/E14	6500	82	405	6000	10	A	T3-9.5	6	46	40638
11	220/240	126	E27	FLE11TBX/T3/827/E27	2700	82	580	6000	10	A	T3-9.5	6	46	40837
				FLE11TBX/T3/827/B22	2700	82	580	6000	10	A	T3-9.5	6	46	40573
		126	E14	FLE11TBX/T3/827/E14	2700	82	580	6000	10	A	T3-9.5	6	46	40831
				FLE11TBX/T3/840/E27	4000	82	580	6000	10	A	T3-9.5	6	46	40839
		126	E27	FLE11TBX/T3/865/E27	6500	82	580	6000	10	A	T3-9.5	6	46	40645
				FLE11TBX/T3/865/B22	6500	82	580	6000	10	A	T3-9.5	6	46	40649
		126	E14	FLE11TBX/T3/865/E14	6500	82	580	6000	10	A	T3-9.5	6	46	40646
15	220/240	128.5	E27	FLE15TBX/ME/827/E27	2700	82	800	6000	10	A	T3-9.5	6	45	41981
				FLE15TBX/ME/827/B22	2700	82	800	6000	10	A	T3-9.5	6	45	42730
		127.5	B22d	FLE15TBX/ME/840/E27	4000	82	800	6000	10	A	T3-9.5	6	45	43085
				FLE15TBX/ME/840/B22	4000	82	800	6000	10	A	T3-9.5	6	45	43087
		128.5	E27	FLE15TBX/ME/865/E27	6500	82	800	6000	10	A	T3-9.5	6	45	43086
				FLE15TBX/ME/865/B22	6500	82	800	6000	10	A	T3-9.5	6	45	43088
20	220/240	143.5	E27	FLE20TBX/ME/827/E27	2700	82	1152	6000	10	A	T3-9.5	6	45	41996
				FLE20TBX/ME/827/B22	2700	82	1152	6000	10	A	T3-9.5	6	45	42734
		142.5	B22d	FLE20TBX/ME/840/E27	4000	82	1152	6000	10	A	T3-9.5	6	45	43089
				FLE20TBX/ME/840/B22	4000	82	1152	6000	10	A	T3-9.5	6	45	43091
		143.5	E27	FLE20TBX/ME/865/E27	6500	82	1152	6000	10	A	T3-9.5	6	45	43090
				FLE20TBX/ME/865/B22	6500	82	1152	6000	10	A	T3-9.5	6	45	43092



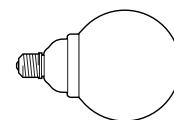
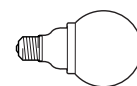
Electronic Biax™ Start

Watts	Volts	Length mm	Cap	Product Description	CCT	K	CRI	Ra	Initial lumens	Rated Life Hours	Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Tube number	Diameter	Product Code
9	220/240	138	E14	FLE9DBX/827/E14	2700	82		490	3000	10	A	T4-12	4	46	27926		
				FLE9DBX/865/E14	6500	82	450	3000	10	A	T4-12	4	46	27510			
		FLE9DBX/827/E27	2700	82	490	3000	10	A	T4-12	4	46	27928					
	137	B22	FLE9DBX/840/E27	4000	82	480	3000	10	A	T4-12	4	46	27505				
			FLE9DBX/865/E27	6500	82	450	3000	10	A	T4-12	4	46	27506				
			FLE9DBX/827/B22	2700	82	490	3000	10	A	T4-12	4	46	27931				
				FLE9DBX/865/B22	6500	82	450	3000	10	A	T4-12	4	46	27511			
11	220/240	149	E14	FLE11DBX/827/E14	2700	82	610	3000	10	A	T4-12	4	46	27942			
				FLE11DBX/865/E14	6500	82	580	3000	10	A	T4-12	4	46	27525			
		FLE11DBX/827/E27	2700	82	610	3000	10	A	T4-12	4	46	27943					
	148	B22	FLE11DBX/840/E27	4000	82	600	3000	10	A	T4-12	4	46	27523				
			FLE11DBX/865/E27	6500	82	580	3000	10	A	T4-12	4	46	27524				
			FLE11DBX/827/B22	2700	82	610	3000	10	A	T4-12	4	46	27944				
				FLE11DBX/865/B22	6500	82	580	3000	10	A	T4-12	4	46	27526			
15	220/240	140.5	E27	FLE15TBXSP/827/E27	2700	82	900	3000	10	A	T4-12.3	6	52	13366			
				FLE15TBXSP/840/E27	4000	82	900	3000	10	A	T4-12.3	6	52	13367			
		FLE15TBXSP/865/E27	6500	82	900	3000	10	A	T4-12.3	6	52	16838					
	139.5	B22	FLE15TBXSP/827/B22	2700	82	900	3000	10	A	T4-12.3	6	52	16840				
			FLE15TBXSP/840/B22	4000	82	900	3000	10	A	T4-12.3	6	52	16842				
			FLE15TBXSP/865/B22	6500	82	900	3000	10	A	T4-12.3	6	52	16843				
20	220/240	156.5	E27	FLE20TBXSP/827/E27	2700	82	1200	3000	10	A	T4-12.3	6	52	16845			
				FLE20TBXSP/840/E27	4000	82	1200	3000	10	A	T4-12.3	6	52	16846			
		FLE20TBXSP/865/E27	6500	82	1200	3000	10	A	T4-12.3	6	52	16847					
	154	B22	FLE20TBXSP/827/B22	2700	82	1200	3000	10	A	T4-12.3	6	52	16850				
			FLE20TBXSP/840/B22	4000	82	1200	3000	10	A	T4-12.3	6	52	16851				
			FLE20TBXSP/865/B22	6500	82	1200	3000	10	A	T4-12.3	6	52	16852				



Electronic Biax™ Extra Mini Elegance Globe

15	152	E27	FLE15TBX/L/GG/827 E27	2700	82	750	10000	6	B	-	-	-	92216
			FLE15TBX/L/GG/840 E27	4000	82	750	10000	6	B	-	-	-	12172
			FLE15TBX/L/GG/827 B22	2700	82	750	10000	6	B	-	-	-	92213
20	180	E27	FLE20TBX/L/GG/827 E27	2700	82	1050	10000	6	B	-	-	-	92220
			FLE20TBX/L/GG/840 E27	4000	82	1050	10000	6	B	-	-	-	12173
			FLE20TBX/L/GG/827 B22	2700	82	1050	10000	6	B	-	-	-	92217
23	181	E27	FLE23QBX/A/GG/827 E27	2700	82	1250	12000	6	A	-	-	-	92190
			FLE23QBX/A/GG/840 E27	4000	82	1250	12000	6	A	-	-	-	12174
			FLE23QBX/A/GG/827 B22	2700	82	1250	12000	6	A	-	-	-	92189



Electronic Biax™ Elegance GLS Extra Mini

Watts	Volts	Length mm	Cap	Product Description	CCT	K	CRI	Ra	Initial lumens	Rated Life Hours	Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Tube number	Diameter	Product Code
9	220/240	126	E14	FLE9TBX/XM/GLS/827 E14	2700	82		380	8000	6	B	-	-	-	60	10660	
				FLE9TBX/XM/GLS/827 E27	2700	82	380	8000	6	B	-	-	-	60	10659		
		125	B22	FLE9TBX/XM/GLS/827 B22	2700	82	380	8000	6	B	-	-	-	60	10657		
11	220/240	126	E14	FLE11TBX/XM/GLS/827 E14	2700	82		550	8000	6	A	-	-	-	60	10664	
				FLE11TBX/XM/GLS/827 E27	2700	82	550	8000	6	A	-	-	-	60	10663		
		B22	FLE11TBX/XM/GLS/827 B22	2700	82	550	8000	6	A	-	-	-	60	10710			
15	220/2240	139	E27	FLE15TBX/XM/GLS/827 E27	2700	82		750	8000	6	B	-	-	-	60	10666	
				FLE15TBX/XM/GLS/827 B22	2700	82	750	8000	6	B	-	-	-	60	10714		
20	220/2240	158	E27	FLE20TBX/GLS/827 E27	2700	79		1080	6000	6	B	-	-	-	60	92229	
				FLE20TBX/GLS/827 B22	2700	79	1080	6000	6	B	-	-	-	60	92227		



Electronic Biax™ Elegance GLS

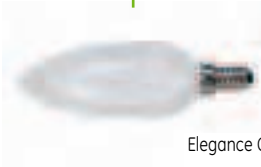
Watts	Volts	Length mm	Cap	Product Description	CCT	K	CRI	Ra	Initial lumens	Rated Life Hours	Average Life Hours	Pack Qty	EE Class	Tube Diameter mm	Tube number	Diameter	Product Code
7			E14	FLE7GLS/827 E14 220/240V	2700	82		286	6000	10	A	-	-	-	-	40121	
				FLE7GLS/827 E27 220/240V	2700	82	286	6000	10	A	-	-	-	-	40130		
				FLE7GLS/827 B22 220/240V	2700	82	286	6000	10	A	-	-	-	-	40133		
9	126		E14	FLE9GLS/827 E14 220-240V	2700	82		405	6000	10	A	-	-	-	-	40147	
				FLE9GLS/827 E27 220-240V	2700	82	405	6000	10	A	-	-	-	-	40148		
				FLE9GLS/827 B22 220-240V	2700	82	405	6000	10	A	-	-	-	-	40152		
11	126		E14	FLE11GLS/827 E14 220-240V	2700	82		580	6000	10	A	-	-	-	-	40153	
				FLE11GLS/827 E27 220-240V	2700	82	580	6000	10	A	-	-	-	-	40154		
				FLE11GLS/827 B22 220-240V	2700	82	580	6000	10	A	-	-	-	-	40155		
15	139		E27	FLE15GLS/827 E27 220-240V	2700	82		799	6000	10	A	-	-	-	-	40156	
				FLE15GLS/827 B22 220-240V	2700	82	799	6000	10	A	-	-	-	-	40157		
20			E27	FLE20GLS/827 E27 220-240V	2700	82		1152	6000	10	A	-	-	-	-	40158	
				FLE20GLS/827 B22 220-240V	2700	82	1152	6000	10	A	-	-	-	-	40159		



Compact fluorescent lamps Electronic Biax™

Energy Saving in Style

Stylish candle shape for versatile applications from chandeliers to wall-mounted fittings.



Elegance Candle

Direct replacement to standard incandescent globes for open or semiclosed fittings.



Elegance Globe

Twisted to fit better – the small size and decorative shape fits almost anywhere that incandescent bulbs are currently used, from table lamps to wall and ceiling fixtures.



Elegance Spiral

Classic light bulb shape offers traditional appearance and energy savings.



Elegance GLS

Direct replacement to standard incandescent Exclusive induction technology for superlong 15000 hours life. Direct replacement for the standard incandescent R80 reflector lamp.



Genura

Available in R50 and R63, feature soft light for diffuse downlighting in attractive glass reflector design.

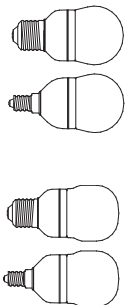


Elegance Reflector



New Elegance CFL lamps from GE

The new complete Elegance CFL range from GE now offers a wide variety of decorative lamps to suit every taste. From representative offices, theaters, hotels, to our own homes - now you can experience the beauty of light and enjoy the long lasting elegance.



Electronic Elegance Decor T2 range

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
8	220/240	103,5	E14	FLE8GLS/T2/827/E14	2700	82	360	6000	10	A	45848
8	220/240	107,5	E14	FLE8SOFT/T2/827/E14	2700	82	360	6000	10	A	45824
12	220/240	113,5	E14	FLE12GLS/T2/827/E14	2700	82	600	6000	10	A	45835
12	220/240	117,5	E14	FLE12SOFT/T2/827/	2700	82	600	6000	10	A	45816
8	220/240	100	E27	FLE8GLS/T2/827/E27	2700	82	360	6000	10	A	45850
8	220/240	104	E27	FLE8SOFT/T2/827/E27	2700	82	600	6000	10	A	45827
12	220/240	110	E27	FLE12GLS/T2/827/E27	2700	82	600	6000	10	A	45837
12	220/240	114	E27	FLE12SOFT/T2/827/E27	2700	82	600	6000	10	A	45819
15	220/240	121	E27	FLE15GLS/T2/827/E27	2700	82	825	6000	10	A	45831
15	220/240	121	E27	FLE15SOFT/T2/827/E27	2700	82	825	6000	10	A	45810

Electronic Biax™ Extra Mini Candle



9	220/240	138	E14	FLE9TBX/XM/CDL/827 E14	2700	82	380	8000	6	B	--- 10684
			E27	FLE9TBX/XM/CDL/827 E27	2700	82	380	8000	6	B	--- 10683
			B22	FLE9TBX/XM/CDL/827 B22	2700	82	380	8000	6	B	--- 10682



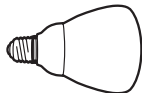
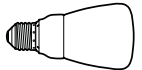
Electronic Elegance Candle

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
5	220/240	114	E14	FLE5CDL/827 E14 220-240V	2700	48	177	6000	10	A	40160
7	220/240	130	E14	FLE7CDL/827 E14 220-240V	2700	67	286	6000	10	A	40162
9	220/240	138	E14	FLE9TBX/XM/CDL/827 E14 220-240V	2700	82	405	6000	10	A	40163
9	220/240		E27	FLE9TBX/XM/CDL/827 E27 220-240V	2700	82	405	6000	10	A	40170
9	220/240		B22	FLE9TBX/XM/CDL/827 B22 220-240V	2700	82	405	6000	10	A	40171



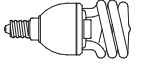
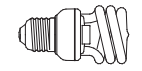
Electronic Elegance Reflector

7	220/240	112	E14	FLE7R50/827 E14 220-240V	2700	82	79	"6,000"	10	N/A	40206
9	220/240	114	E14	FLE7R63/827 E14 220-240V	2700	82	115	"6,000"	10	N/A	40210
9	220/240		E27	FLE7R63/827 E27 220-240V	2700	82	115	"6,000"	10	N/A	40211
11	220/240	123	E14	FLE11TBX/XM/R63/827 E14 220-240V	2700	82	280	"8,000"	6	N/A	10707
11	220/240		E27	FLE11TBX/XM/R63/827 E27 220-240V	2700	82	280	"8,000"	6	N/A	10704
11	220/240		B22	FLE11TBX/XM/R63/827 B22 220-240V	2700	82	280	"8,000"	6	N/A	10703
15	220/240	144	E27	FLE15/R95/827 E27	2700	79	550	"6,000"	6	N/A	93236



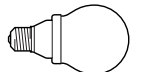
Electronic Elegance Spiral

8	220/240	99	46 E14	FLE8HLX/T2/827/E14	2700	82	460	6000	10	A	45254
8	220/240	86,5	52,5 E27	FLE8HLX/T2/827/E27	2700	82	460	6000	10	A	45251
12	220/240	112,5	53 E14	FLE12HLX/T2/827/E14	2700	82	700	6000	10	A	45267
12	220/240	100	56 E27	FLE12HLX/T2/827/E27	2700	82	700	6000	10	A	45260
15	220/240	112,5	53 E14	FLE15HLX/T2/827/E14	2700	82	950	6000	10	A	45276
15	220/240	100	53 E27	FLE15HLX/T2/827/E27	2700	82	950	6000	10	A	45271
11	220/240	120	E27	FLE11HLX/T3/827/E27	2700	82	580	6000	10	A	40438
11	220/240		B22	FLE11HLX/T3/827/B22	2700	82	580	6000	10	A	40439
20	220/240	128	E27	FLE20HLX/T3/827/E27	2700	82	1152	6000	10	A	40443
20	220/240		B22	FLE20HLX/T3/827/B22	2700	82	1152	8000	10	A	40454



Electronic Biax™ Elegance Globe

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
11	220/240	126	E27	FLE11TBX/XM/GG/827 E27	2700	82	550	8000	6	A	92221
11			B22	FLE11TBX/XM/GG/827 B22	2700	82	550	8000	6	A	93019
15	220/240	152	E27	FLE15TBX/L/GG/840 E27	2700	82	750	10000	6	A	12172
20	220/240	180	E27	FLE20TBX/L/GG/840 E27	2700	82	1050	10000	6	A	12173
23	220/240	181	E27	FLE23QBX/A/GG/840 E27	2700	82	1250	12000	6	A	12174



Electronic Biax™ Elegance Outdoor

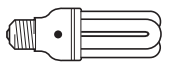
15	220/240	144	E27	FLE15TBX/B/827 E27	2700	79	750	6000	10	B	93432
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Electronic Biax™ Sensor

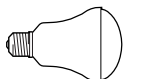
With photo sensor - lights up at dusk, turns off at dawn

15	220/240	150	E27	OT FLE15TBX/827/E27 SENZ220-240V BX1/10							45299
			B22	OT FLE15TBX/827/B22 SENZ220-240V BX1/10							45301



Genura™ R80

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
23	220/240	129.2	E27	EFL/23W/827 R80	2700	82	1100	15000	6	A	92244
23				EFL/23W/830 R80	3000	82	1100	15000	6	A	92246



Compact fluorescent lamps

GE Biax™ compact fluorescents come in two lamp types – plug-in and electronic. While a majority of the features described here apply to both lamp types, plug in lamps require separate running gear and the gear used can effect the lamp's performance characteristics.

Warm-up times

GE Biax™ lamps offer an almost instant start, but require a few minutes to reach full brightness, particularly in colder temperatures. This slight time lag may initially make the lamp appear dull.

Amalgam technology

GE amalgam dosing technology provides a more consistent light output, not only through lamp life, but also in varying ambient temperatures and lamp orientations.

Using outside

When Biax™ lamps are employed outdoors, they must be used in enclosed fittings. The lamps will reach full brightness when the ambient temperature around the lamp reaches approximately 25°C. The effects of different ambient temperatures on light output for typical lamps is shown in the chart Fig 1. With amalgam products, 90% of light output is achieved between the temperatures of -10°C and +65°C.

Enhancing colour quality

While the colour temperature of Biax™ is similar to an equivalent incandescent lamp (it produces the same 'whiteness' of light), the colour rendering performance (its ability to accurately reproduce

colours) is slightly lower. It is this difference that may lead some users to feel that the light appears dull. However, Biax™ lamps, which use Polyflux triphosphors, are far better at rendering colours than most commonly available fluorescent tubes.

Characteristics of electronic lamps

Dimming of electronic retrofit lamps. As the electronic gear in the base of these lamps needs a full and constant current, they cannot be dimmed or used with other electronic switching devices.

Eliminating flicker

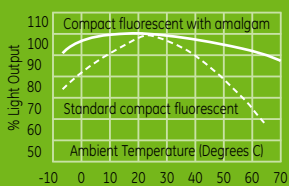
Biax™ lamps operate at very high frequencies thus avoiding the annoying flicker typical of some fluorescent installations operating with conventional control gear.

Using existing fittings

Biax™ lamps are much lighter than many conventional retrofit compact fluorescent lamps and therefore do not impose exceptional loads on light fittings.

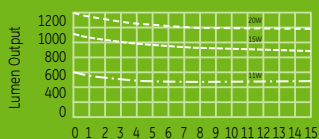


Fig 1 Light output relative to ambient temperature



Biax™ maintains an acceptable level of light output within a normal range of temperatures.

Lumen maintenance characteristics of Biax™ and Electronic Biax™ lamps

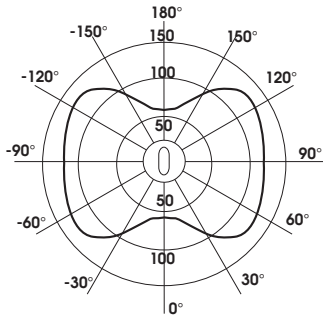


One of the characteristics of Biax™ is a very low fall off in light output over the life of the lamp.

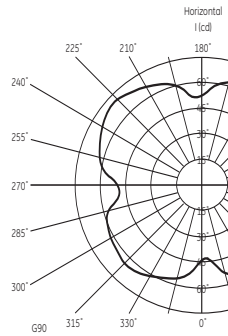


Radial Luminous Intensity Distribution – Burning position: cap up

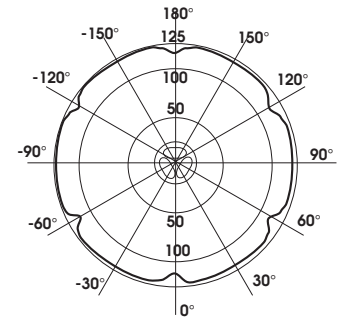
Biax™ S • Biax™ S/E • Biax™ L



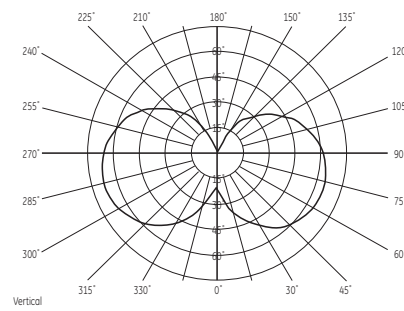
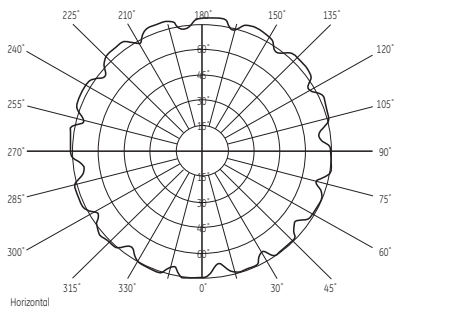
Biax™ D • Biax™ D/E



Biax™ T • Biax™ T/E

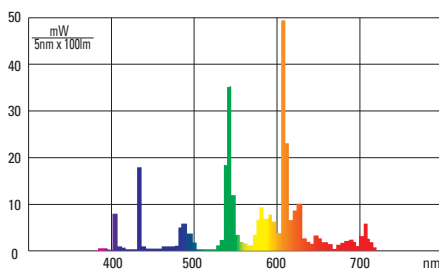


Biax™ Q/E

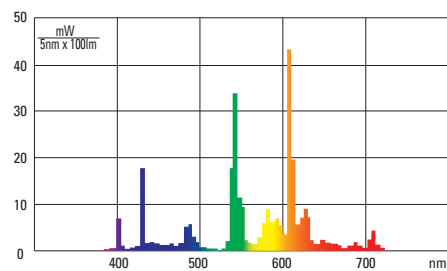


Spectral Distribution Diagrams

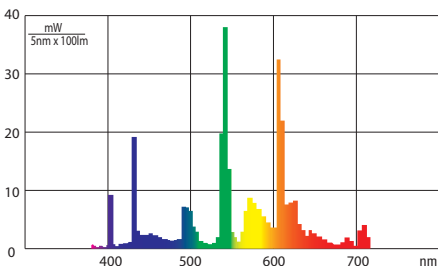
2700 K



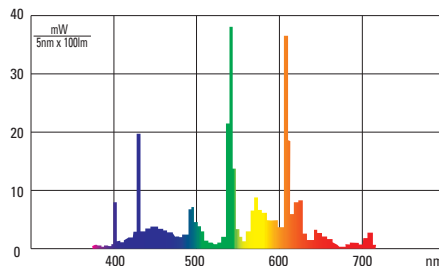
3000 K



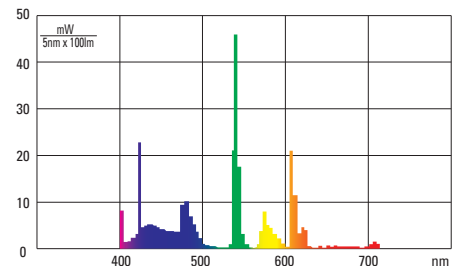
3500 K



4000 K



6500 K



High intensity discharge lamps

GE invented mercury lamps in 1931, high pressure sodium lamps in 1962 and metal halide in 1964.

GE has continually improved its HID lamp category by introducing CMH 20W first to the market. Meeting special lighting requirements, the Lucalox PhotoSynthesis Light lamp has become available for the horticulture industry to provide better growing conditions in countries where the level of sunshine is not smooth.

The HID range falls into several categories: metal halide, sodium discharge lamps divided into high-pressure and low-pressure sodium and mercury. High intensity discharge lamps are characterised by reliability, high efficiency and low operating costs.

Nearly all HID lamps require a ballast and starting gear. GE solved that need and has launched a new range of electronic ballast for CMH lamps. It comprises of a complete series of economic, high quality ballasts with 20, 35 and 70W integral and remote ballasts.



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High intensity discharge lamps

Selecting the right product

While all HID lamps offer outstanding efficiency and long life, there are distinct differences in performance among the four basic types of HID lamps. The following two charts should help you to understand these differences so that you can select the right lamp for your application.

Key performance criteria

	Colour Temperature Options (K)	Colour Rendering (Ra)	Life (Hours)	Efficiency (LPW)
Metal Halide	3000 (WDL) 3500 (BDL) 4000 (NDL) 6000 (DL)	65-93	3,500-20,000	68-105
High Pressure Sodium	2 000	25-60	28,500-55,000	66-150
Mercury	3 500 4 000	42-52	12,000-24,000	19-63
Low Pressure Sodium	1 800		16 000	100-198
	Best option	Good option		



Retail/Display



Sports/Floodlighting



High Bay/Industrial

Major applications

	Retail	Display	Commercial Interior	Sports Lighting	Stadium	High Bay	Industrial	Warehouses	Amenity	Pedestrian Areas	Floodlighting	Security	Street Lighting	Highways	Horticulture
Metal Halide	•	•	•	•	•	•	•	•	•	•	•	•	•		
High Pressure Sodium						•	•	•	•	•	•	•	•	•	•
Mercury								•	•	•	•	•	•	•	
Low Pressure Sodium												•	•	•	



Choose the appropriate one from the wide selection of GE metal halide lamps.

- To make lamp selection easier than ever, GE has defined its metal halide range in five distinct groups – ConstantColor™CMH, Arcstream™, Kolorarc™, Multi-vapor™ and Sportlight™.
- GE metal halide lamps with their bright, high quality white light and energy-efficiency are ideal for a wide range of applications.
- Constant colour lamp to lamp throughout life.

GE makes it easy to choose the right metal halide. Simply select the right product family for your task and preferred ballast and you will pinpoint the correct lamp for perfect results.

GE's unique 3 part arc tube design provides higher durability that results in excellent reliability.



ConstantColor™ CMH

Lamps operate on high pressure sodium / metal halide ballasts incorporating thermal protection (to EN IEC 61167) with metal halide ignitors.



Arcstream™

Lamps operate on high pressure mercury ballasts with metal halide ignitor.



Kolorarc™

Lamps operate on Constant Wattage Gear (CWA).



Multi-Vapor™

Lamps for sports and floodlighting.



Sportlight™

High quality metal halide light is ideal for illuminating colour critical public spaces such as shopping areas and walkways.

Applications:

retail display lighting, decorative lighting and spotlighting of individual features.



The full line up of metal halide lamps

Lumen value table (CBCP for PAR/MR16)

Lamp Format	Operating Position	Colour:	20W 3000K	35W 3000K	4200K	70W 3000K	4200K	100W 3000K	150W 3000K	4000K	
ConstantColor CMH Ceramic Metal Halide lamps for superior colour control and operating efficiencies											
Super Mini			1615lm								
Single Ended Mini's	U		1650 lm	3400 lm	3200 lm	6200lm	6200lm				
Single Ended	U		1650 lm	3400 lm	4200 lm	6200lm	6300 lm		14000 lm	13000 lm	
Double Ended	HOR				7000 lm	7000 lm	6200 lm		14500 lm	12500 lm	
MR 16			9000+ 2700+								
PAR20 Spot	U		13000	22000	19450						
PAR20 Flood			3750	7500	6950						
PAR30 Spot			19800	39600	36700	43000					
PAR30 Flood			4900	11000	10200	10000					
Elliptical Clear	U				6300 lm			9200 lm			
Elliptical Diffuse	U				6000 lm			8700 lm		12300 lm	
Tubular Clear	U				6000 lm			9200 lm	14000 lm	14500 lm	
Arcstream™ Lamps operate on high pressure sodium/metal halide ballasts incorporating thermal protection with metal halide ignitor											
Single Ended	U				5200 lm	5200 lm		11500 lm		12000 lm	
Double Ended	HOR				5500 lm	5500 lm	5500 lm	12000 lm	12000 lm	12000 lm 11000 lm	
Tubular Clear	HOR VBU										
Elliptical Clear	U HOR										
Elliptical Diffuse	U HOR VBU										
Kolorarc™ Lamps operate on high pressure mercury ballasts with metal halide ignitor											
Tubular Clear	HOR VBU										
Elliptical Clear	HOR VBU										
Elliptical Diffuse	HOR VBU										
Multi-Vapor™ Lamps operate on constant wattage gear (CWA)											
Elliptical Clear	U										
Elliptical Diffuse	U VBU										
Multi-Vapor™ High Output More light, longer life											
Elliptical Clear	HOR VBU										
Elliptical Diffuse	HOR VBU										
Sportlight™ For sports and floodlighting											
Linear	HOR										
Tubular Clear	HOR										
Hot Restrike Internal Ignitor											
Elliptical Clear	U										
Elliptical Diffuse	HOR U										
PAR 64	U										
PAR 64 Hot Restrike	U										

High intensity discharge lamps

ConstantColor™ CMH™ The light source of the future

Bright Light and Excellent Color Performance

GE's ConstantColor™ CMH™ lamps are the latest advance in a long term lighting revolution. Ceramic Metal Halide lamps provide exceptionally consistent colour rendition helping to highlight both texture and colour. Concentrated brightness and excellent optical control allow maximum design flexibility from floodlighting to area lighting.

- Lamps from 20W–400W
- Long life – up to 20,000 hours
- Consistent colour over life
- Bright light and excellent colour rendition
- High efficiency up to 100 lm/W
- Available in two colour temperatures 3000K and 4200K
- Direct replacement for High Pressure Sodium and Quartz Metal Halide lamps to fit existing installations
- Shrouded versions available for use in open luminaires
- UV control
- Available in elliptical, tubular, linear, single ended and PAR lamp shapes and up to 150 watts for maximum versatility

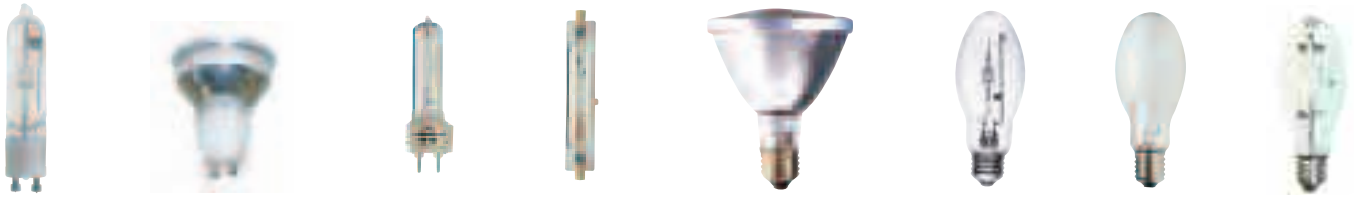


The Esplanade in Helsinki



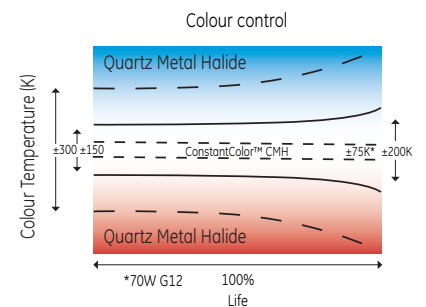
Natural White Light with Maximum Flexibility

A complete range of shapes, wattages and colour temperatures to match all needs

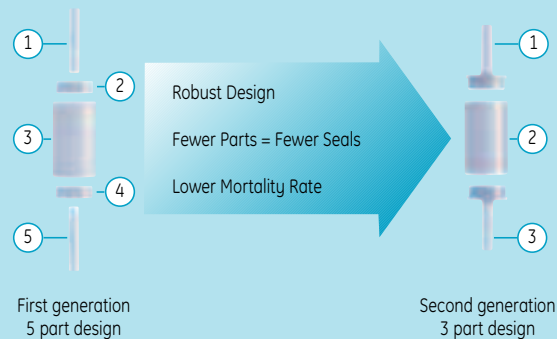


The new range of ConstantColor™ CMH lamps has been designed to provide the best alternative for retail lighting, city beautification and decorative exterior lighting:

- Crisp and vibrant white light
- Excellent colour rendering up to 90 CRI Ra and two colours for flexible lighting solutions
- Exceptional lumen maintenance over life to ensure original lighting design quality
- Constant colour over life and uniformity lamp to lamp for consistent lighting effects
- With GE's unique 3 part arc tube, ConstantColor™ CMH lamps last for up to 15,000 hours with exceptional lumen maintenance for design reliability.
- Lumen efficiency of up to 100 lm/ w gives an almost identical lumen standard as High Pressure Sodium lamps meeting customer requirements in terms of cost of lighting



Borobudur Temple



GE Lighting's Six Sigma quality drive initiated a fresh approach to the customers' requirements of delivering significant reliability improvements. This process determined that a 3 part design of the arc tube would reduce potential weak points in the seals, resulting in increased reliability.

High intensity discharge lamps

ConstantColor™

Choose ConstantColor™ with metal halide ballasts and ignitors for retail display lighting, high quality exterior floodlighting and anywhere a crisp, white light is required.

- Perfect optical control delivering a highly accurate, quality light precisely where you want it
- Long life up to 12,000 hours
- Excellent colour reproduction making it ideal for display lighting
- Good colour consistency throughout life, so your display maintains its features



Single Ended

Kolorarc™

Choose Kolorarc™ with mercury ballasts and metal halide ignitors for commercial and industrial interiors, shopping malls and floodlighting.

- High brightness – providing high illumination levels even when installed in high ceiling areas
- High energy efficiency – offering maximum energy cost savings
- Excellent colour reproduction providing more attractive lighting environments compared to high pressure sodium and mercury arc lamps



Tubular Clear

Multi-Vapor™

Choose high output Multi-Vapor™ lamps with constant wattage auto-transformer (CWA) ballasts for large scale commercial and industrial interiors, shopping malls and floodlighting.

- Extra long life – of up to 20,000 hours on CWA gear
- Warm, rich colour – that gives merchandise, furnishings and decor added appeal
- High colour temperatures – to blend exceptionally well in mixed applications with incandescent, halogen and warm white fluorescent sources



Elliptical Diffuse

Sportlight™

Choose Sportlight™ high wattage lamps for sports and floodlighting. The excellent colour rendering and appearance of these lamps makes them especially suitable where television cameras are used.

- Excellent optical control – with minimal beam spread even at long focal lengths
- High output – providing high illumination levels even from high towers
- Excellent colour performance – accurately reproducing colours to create more authentic and attractive floodlit environments



Tubular Clear
Hot Restrike
Internal Ignitor



Metal Halide identification

The following glossary of terms and descriptions can help you when checking metal halide lamp specifications and how to use the order codes when ordering products. Within each product line, lamps are divided into families – within families, lamps are listed by wattage.

Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

Length: Lamp length in mm

Cap: The type of cap fitted

CRI Ra: Colour rendering index, the higher the number (1–100) the more natural the lit subject appears

Product Code: It is important to use this code when ordering to ensure that you receive the exact product you require

Spotlight™

Watts **Operating position** **Length mm** **Order Code** **Cap** **CCT K** **CRI Ra** **Initial lumens** **Rated Average Life Hours** **Pack Qty** **Product Code**

Hot Restrike 2000	HOR±60°	430	SPL2000/HR/T/H/960/E40	E40	6000	93	170000	5000	4	30104
Internal Ignitor 2000	HOR±60°	430	SPL2000/I/T/H/640/E40	E40	4000	65	190000	2000	4	33148

Lamp: Lamp type and product features

Operating position: Orientation of lamp

CCT K: Colour temperature – Kelvin. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

Energy Efficiency Class: Energy saving code

Rated Average Life: The point in time when 50% of installed lamps are still burning

SPL 2000 / I / T / H / 640 / E40

Family or Feature:
ARC: Arcstream™
CMH: ConstantColor CMH™
KRC: Kolorarc™
MPR/MVR: Multi-Vapor™
MXR: 100W – Arcstream™
175W – Multi-Vapor™
SPL: Spotlight™

Wattage

Feature:
Missing: no feature
UVC: UV Control
I: Internal Ignitor
E: Enclosed Fixture
O: Open Fixture
HR: Hot Restrike

Lamp Format:
TD: Double Ended
E: Elliptical Clear
D: Elliptical Diffused
L: Linear
PARxx: PAR (+size)
T: Clear Tubular

Colour Rendering:
6: Ra 60 to 69 (Group 2B)
7: Ra 70 to 79 (Group 2A)
8: Ra 80 to 89 (Group 1B)
9: Ra 90 to 99 (Group 1A)

Operating Position:
Missing: TD – Horizontal;
PAR – Universal

U: Universal
H: Horizontal
VBU: Vertical Base Up
BU: Base Up

Colour Temperature:
XX: First 2 digits of temperature in Kelvin: xx00k.
Example: 43 is 4,300 K CCT

Cap:
E27: Fc2
E40: G38
RX7s: E39p
RX7sm: Modified RX7s
Spec: Special base

High intensity discharge lamps

ConstantColor™

Watts Operating position Length mm Order Code Cap CCT K CRI Ra Initial lumens Rated Average Life V Rated Avr Life H Pack Qty Volts (max) I(A) Diameter max Product Code

Single Ended SuperMini



20	U	52	CMH20/TC/UVC/830/GU6.5	GU6.5	3000	80+	1615	9000*	9000*	12	90	0.210	14.5	40399
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Single Ended 'Mini's'



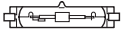
20	U	85	CMH20/TC/UVC/U/830/G8.5 PLUS	G8.5	3000	80+	1650	12000	12000	12	90	0.225	14.5	39858
35	U	85	CMH35/TC/UVC/U/830/G8.5	G8.5	3000	80+	3400	10000	10000	12	90	0.5	14.5	20009
35	U	85	CMH35/TC/UVC/U/830/G8.5 PLUS	G8.5	3000	84+	3400	15000	15000	12	90	0.5	14.5	43273
35	U	85	CMH35/TC/UVC/U/842/G8.5	G8.5	4200	85+	3200	12000*	12000*	12	90	0.5	14.5	26348
70	U	85	CMH70/TC/UVC/U/830/G8.5	G8.5	3000	80+	6200	9000	9000	12	90	0.98	14.5	20011
70	U	85	CMH70/TC/UVC/U/830/G8.5 PLUS	G8.5	3000	80+	6200	15000	15000	12	90	0.98	14.5	43274
70	U	85	CMH70/TC/UVC/U/942/G8.5	G8.5	4200	90+	6200	15000*	15000*	12	90	0.98	14.5	26349

Single Ended



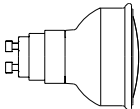
20	U	88	CMH20/T/UVC/U/830/G12 PLUS	G12	3000	80+	1650	12000	12000	12	90	0.225	14.5	42708
35	U	88	CMH35/T/UVC/U/830/G12	G12	3000	80+	3400	10000	10000	12	90	0.5	14.5	20099
35	U	88	CMH35/T/UVC/U/830/G12 PLUS	G12	3000	84+	3400	15000	15000	12	90	0.5	14.5	43272
35	U	88	CMH35/T/UVC/U/842/G12	G12	4200	85+	3200	12000*	12000*	12	90	0.5	14.5	92141
70	U	88	CMH70/T/UVC/U/830/G12	G12	3000	80+	6200	15000	15000	12	90	0.98	19	20005
70	U	88	CMH70/T/UVC/U/942/G12	G12	4200	90+	6300	15000	15000	12	90	0.98	19	20013
150	U	98	CMH150/T/UVC/U/830/G12	G12	3000	80+	14000	12000	12000	12	90	1.85	19	20012
150	U	98	CMH150/T/UVC/U/942/G12	G12	4200	90+	13000	12000	12000	12	90	1.85	19	20014

Double Ended



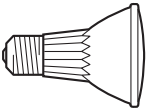
35	HOR45	118	CMH35/TD/UVC/830/RX7s	RX7s	3000	80+	3400	10000*	N/A	12	101	0.53	21	43278
70	HOR45	118	CMH70/TD/UVC/830/RX7s	RX7s	3000	80+	7000	15000	N/A	12	101	0.98	21	36910
70	HOR45	118	CMH70/TD/UVC/942/RX7s	RX7s	4200	90+	6200	15000	N/A	12	101	0.98	21	38698
150	HOR45	135	CMH150/TD/UVC/830/RX7s-24	RX7s-24	3000	80+	14500	15000	N/A	12	105	1.8	27	36912
150	HOR45	135	CMH150/TD/UVC/942/RX7s-24	RX7s-24	4200	90+	12500	15000	N/A	12	105	1.8	27	38692

MR16 Precise



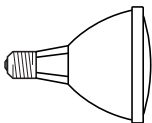
20	U	54.5	CMH20/MR16/UVC/830/GX10/SP	GX10	3000	80+	9000	9000*	9000*	12	90	0.210	51	40400
20	U	54.5	CMH20/MR16/UVC/830/GX10/FL	GX10	3000	80+	2700	9000*	9000*	12	90	0.210	51	40401
20	U	54.5	CMH20/MR16/UVC/830/GX10/WFL	GX10	3000	80+	1500	9000*	9000*	12	90	0.210	51	42691

PAR 20



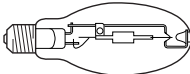
20	U	81.2	CMH20PAR20/UVC/830/E27/SP	E27	3000	80+	13000	7500*	7500*	15	90	0.225	63	26478
20	U	81.2	CMH35/PAR20/UVC/830/E27/FL	E27	3000	80+	3750	7500*	7500*	15	90	0.225	63	26481
35	U	81.2	CMH35/PAR20/UVC/830/E27/SP	E27	3000	80+	22000	10000	10000	15	90	0.5	67	21684
35	U	81.2	CMH35/PAR20/UVC/830/E27/FL	E27	3000	80+	7500	10000	10000	15	90	0.5	67	26685
35	U	81.2	CMH35/PAR20/UVC/942/E27/SP10	E27	4200	90+	19450	10000	10000	15	90	0.5	67	44890
35	U	81.2	CMH35/PAR20/UVC/942/E27/FL25	E27	4200	90+	6950	10000	10000	15	90	0.5	67	44919

PAR 30



20	U	120	CMH20PAR30/UVC/830/E27/SP10	E27	3000	80+	19800	7500*	7500*	6	90	0.5	97	26497
20	U	120	CMH20PAR30/UVC/830/E27/FL25	E27	3000	80+	4900	7500*	7500*	6	90	0.5	97	26518
35	U	120	CMH35/PAR30/UVC/830/E27/SP	E27	3000	80+	39600	10000	10000	6	90	0.5	97	21689
35	U	120	CMH35/PAR30/UVC/830/E27/FL	E27	3000	80+	11000	10000	10000	6	90	0.5	97	21690
35	U	120	CMH35/PAR30/UVC/942/E27/SP10	E27	4200	89	36700	10000	10000	6	90	0.5	97	44939
35	U	120	CMH35/PAR30/UVC/942/E27/FL25	E27	4200	89	10200	10000	10000	6	90	0.5	97	44942
70	U	120	CMH70/PAR30/UVC/830/E27/SP	E27	3000	80+	43000	13000	13000	6	90	0.98	97	21683
70	U	120	CMH70/PAR30/UVC/830/E27/FL	E27	3000	80+	10000	13000	13000	6	90	0.98	97	21682

Elliptical Clear



70	U	138	CMH70/E/UVC/U/830/E27/C	E27	3000	80+	6300	15000	15000	6	90	0.98	54	46189
100	U	138	CMH100/E/UVC/U/830/E27/C	E27	3000	80+	9200	15000	10000	6	100	1.1	54	46191
150	U	138	CMH150/UVC/O/U/942/E27/C	E27	4200	90+	13200	15000	15000	6	111	1.8	55	43285

Elliptical Diffuse



70	U	138	CMH70/E/UVC/U/830/E27/D	E27	3000	80+	6000	15000	15000	6	90	0.98	54	46187
70	U	138	CMH70/UVC/O/U/940/E27/D	E27	4000	90+	5900	15000	15000	6	90	0.98	54	43282
100	U	138	CMH100/E/UVC/U/830/E27/D	E27	3000	80+	8700	15000	10000	6	100	1.1	54	46194
150	U	138	CMH150/UVC/O/U/940/E27/D	E27	4000	90+	12300	15000	15000	6	111	1.8	55	43286
250	U	251	CMH250/E/UVC/U/830/E40/D	E40	3000	80+	23500	20000	20000	12	125	2.7	90	10591
400	HOR	282 C	MH400/E/UVC/U/830/E40	E40	3000/3600**	80+	39000	20000	20000	6	110	4.2	120	13087



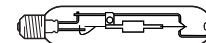
High intensity discharge lamps

Watts	Operating position	Length mm	Order Code	Cap	CCT K	CRI Ra	Initial lumens	Rated Average Life V	Rated Avr Life H	Pack Qty	Volts (max)	I (A)	Diameter max	Product Code
Tubular Clear														
70	U	156	CMH70/TT/UVC/830/E27	E27	3000	80+	6000	15000	15000	12	105	0.96	37	38752
100	HOR	209	CMH100/TT/UVC/830/E40	E40	3000	80+	9200	10000*		12	115	1.14	48	92478
150	U	209	CMH150/TT/UVC/830/E40	E40	3000	80+	14000	12000	12000	12	110	1.85	48	38749
150	HOR	209	CMH150/UVC/T/U/842/E40	E40	4000	89	14500		15000*	12	115	1.8	48	21514
150	U	209	CMH150/UVC O/T/U/830/E40	E40	3000	80+	14000	12000	12000	6	115	1.8	48	21516
150	U	209	CMH150/UVC O/T/U/942/E40	E40	4200	90+	14000	12000	12000	6	110	1.8	48	21517
250	HOR	260	KRC250/CMH/830/T/H/E40	E40	3000	80+	20000		20000	12	120	2.3	48	20302
250	U	260	CMH250/TT/UVC/U/830/E40	E40	3000	80+	25000	20000	20000	12	125	2.7	48	10589
400	U	278	CMH400/TT/UVC/U/830/E40	E40	3000/3300**	80+	39000	20000	20000	12	130	4.2	60	13067

* Initial life claim at launch. Testing continues to final design life.

** 3000K in horizontal burning position, 3600K in vertical burning position

ConstantColor™ CMH lamps operate on high pressure sodium ballast and metal halide ignitor, with the exception of KRC250/CMH/830/T/H/E40 type that operates on mercury or metal halide ballast and metal halide ignitor.

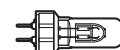


CMH Ballasts

Watts	Volts	Description	Mounting	Weight	Pack Qty	Product Code
20	220-240	BLS/E/20W/CMHSMP	Integral	110 g	12	42387
20	220-240	BLS/E/20W/CMH	Integral	190 g	12	13032
20	220-240	BLS/E/20W/CMH/R	Remote	230 g	12	13034
35	220-240	BLS/E/35W/CMH	Integral	215 g	12	13035
35	220-240	BLS/E/35W/CMH/R	Remote	230 g	12	13036
70	220-240	BLS/E/70W/CMH	Integral	300 g	12	13040
70	220-240	BLS/E/70W/CMH/R	Remote	310 g	12	13047
150	220-240	BLS/E/150W/CMH	Integral	430 g	12	13050
150	220-240	BLS/E/150W/CMH/R	Remote	445 g	12	13053

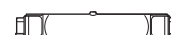
Arcstream™

Watts	Operating position	Length mm	Order Code	Cap	CCT K	CRI Ra	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Single Ended													
70	U	90	ARC70/T/U/730/G12	G12	3000	75	5200	6000	10	N/A	N/A	N/A	35794
70	U	90	ARC70/T/U/842/G12	G12	4200	72	5200	6000	10	N/A	N/A	N/A	35795
150	U	76	ARC150/830/G12	G12	3000	80	11500	6000	10	N/A	N/A	19	21053
150	U	76	ARC150/842/G12	G12	4200	80	12000	6000	10	N/A	N/A	19	21054



Double Ended – UV Control

70	HOR±45°	117.6	ARC70/UVC/TD/730/Rx7s	Rx7s	3000	75	5500	6000	12	95	0.95	22	34530
70	HOR±45°	117.6	ARC70/UVC/TD/735/Rx7s	Rx7s	3500	75	5500	6000	12	95	0.95	22	38755
70	HOR±45°	117.6	ARC70/UVC/TD/742/Rx7s	Rx7s	4200	75	5500	6000	12	95	0.95	22	34536
150	HOR±45°	135.4	ARC150/UVC/TD/732/Rx7s-24	Rx7s-24	3200	75	12000	6000	12	95	1.8	25	34527
150	HOR±45°	135.4	ARC150/UVC/TD/735/Rx7s-24	Rx7s-24	3500	75	12000	6000	12	95	1.8	25	38756
150	HOR±45°	135.4	ARC150/UVC/TD/742/Rx7s-24	Rx7s-24	4200	75	12000	6000	12	95	1.8	25	34535



Double Ended

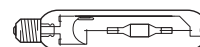
150	HOR±45°	135.4	ARC150/TD/952/Rx7s-24	Rx7s-24	5200	90	11000	6000	12	110	1.8	22	93772
150	HOR±45°	135.4	ARC150/UVC/TD/952/Rx7s-24	Rx7s-24	5200	85	11000	6000	12	110	1.8	22	93610
150	HOR±45°	135.4	ARC150/TD/952/Rx7s-24	Rx7s-24	5200	80	11000	6000	12	110	1.8	22	93772
150	HOR±45°	135.4	ARC150/UVC/AQUA/TD/865/Rx7s-24	Rx7s-24	6500	85	11000	6000	12	95	1.8	25	35284
250	HOR±45°	163	ARC250/TD/832/Fc2	Fc2	3200	80	20000	6000	12	114	3	25	30099
250	HOR±45°	163	ARC250/TD/842/Fc2	Fc2	4200	80	20000	6000	12	115	3	25	30101

Watts	Operating position	Length mm	Order Code	Cap	CCT K	CRI Ra	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Double Ended Coloured													
150	HOR±45°	132	ARC150/UVC/TD/GREEN/RX7S-24	RX7S-24	Green	N/A	N/A	6000	12	95	1.8	25	12181
150	HOR±45°	132	ARC150/UVC/TD/BLUE/RX7S-24	RX7S-24	Blue	N/A	N/A	6000	12	95	1.8	25	12182
150	HOR±45°	132	ARC150/UVC/TD/ORANGE/RX7S-24	RX7S-24	Orange	N/A	N/A	6000	12	95	1.8	25	12183
150	HOR±45°	132	ARC150/UVC/TD/MAGENTA/RX7S-24	RX7S-24	Magenta	N/A	N/A	6000	12	95	1.8	25	12184



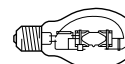
Tubular Clear

250	HOR±15°	220	ARC250/T/H/742/E40	E40	4200	70	21000	10000	10	112	2.75	46	12951
250	BU±45°	219	ARC250/T/VBU/960/E40	E40	6000	90	19000	10000	12	100	3	47	32665
250	HOR±45°	219	ARC250/T/H/960/E40	E40	6000	90	19000	10000	12	100	3	47	32664
400	HOR±15°	260	ARC400/T/H/742/E40	E40	4200	70	35000	10000	10	105	4.35	46	42369



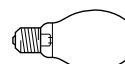
Elliptical Clear

250	NDL	227	ARC250/E/H/645/E40	E40	4500	65	22500	14000	10	100	2.9	91	16869
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Elliptical Diffuse

250	HOR±15°	227	ARC250/D/H/740/E40	E40	4000	70	19500	14000	10	100	2.9	91	16870
250	HOR±45°	219	ARC250/D/H/960/E40	E40	6000	90	17000	10000	12	100	3	90	30047
250	BU±45°	219	ARC250/D/VBU/960/E40	E40	6000	90	17000	10000	12	100	3	90	32666



Operating from suitable metal halide / high pressure sodium (HPS) ballast and metal halide ignitor. Arcstream™ lamps are only suitable for operation in fully enclosed fixtures where lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C)

High intensity discharge lamps

Kolorarc™

Watts	Operating position	Length mm	Order Code	Cap	CCT K	CRI Ra	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Tubular Clear													
400	HOR±45°	270	KRC400/T/H/960/E40	E40	6000	90	25000	10000	12	130	3.5	59	30052
400	BU±45°	270	KRC400/T/VBU/960/E40	E40	6000	90	28000	10000	12	130	3.5	59	30704
400	HOR±45°	270	KRC400/T/H/960/E39	E39	6000	90	25000	10000	12	130	3.5	59	
Elliptical Clear													
400	BU±30°	286	KRC400/E/VBU/645/E40	E40	4500	65	32000*	14000	10	135	3.5	122	16871
400	HOR±15°	286	KRC400/E/H/645/E40	E40	4500	65	32000*	14000	10	135	3.5	122	16874
400	HOR±45°	270	HgMI 400W	E40	4000		30000	10000		130	3.5	130	178364
Elliptical Diffuse													
400	BU±30°	286	KRC400/D/VBU/740/E40	E40	4000	70	30500*	14000	10	135	3.5	122	16872
400	HOR±15°	286	KRC400/D/H/740/E40	E40	4000	70	34000	14000	10	135	3.5	122	16875
400	BU±45°	282	KRC400/D/VBU/960/E40	E40	6000	90	26000	10000	4	130	3.5	121	10837
400	HOR±45°	281	KRC400/D/H/960/E40	E40	6000	90	24000	10000	4	130	3.5	121	10834

Operating from suitable mercury or metal halide ballast rated 3.5A and metal halide ignitor. Low loss ballast recommended for 400W 6000K (960) products - see lamp data sheet for details.

* Enhanced lumen performance operating from special "High Output" ballast rated 3.8A - see lamp data sheet for details. Kolorarc™ lamps are only suitable for operation in fully enclosed fixtures where lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C)

Multi-Vapor™

Watts	Operating position	Length mm	Order Code	Cap	CCT	CRI K	Initial Ra	Rated lumens	Rated Average V	Pack Average Qty	Volts	I (A)	Diameter	Product Code	Fig No.
Elliptical Clear															
250	U	216	MVR250/U/40	E40	4200	65	20800	10000	10000	6	135	2.1	89	44542	6
400*	U	295	MVR400/U/40	E40	4000	65	36000	20000	20000	6	135	3.2	117	43907	7
1000*	U	385	MVR1000/U/40	E40	4000	65	105000	12000	12000	6	V250 H245	4.3	178	41828	8
Elliptical Diffuse															
250	U	216	MVR250/C/U/40	E40	3900	70	19800	10000	10000	12	133	2.1	89	44543	2
400*	U	295	MVR400/C/U/40	E40	3700	70	35000	20000	20000	6	135	3.2	117	43908	3
1000*	U	385	MVR1000/C/U/40	E40	3400	70	99800	12000	12000	6	V250 H245	4.3	178	41829	4

Operating from CWA control gear

Initial lumen values and Rated Average Life based on vertical orientation for Universal types. Multi-Vapor™ lamps must operated in fully enclosed fixtures except those marked

*when used VBU or VBD +/-15°.

For lamps requiring enclosed fixtures, lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C)

Lamps operated in the vertical position that are not designated "Enclosed Fixtures only" lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment.

For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information contact your fixture manufacturer.

Multi-Vapor™ High Output

Watts	Operating position	Length mm	Order Code	Cap	CCT K	CRI Ra	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Elliptical Clear													
250	HOR±15°	210	MVR250/HOR	E39	4200	65	23000	15000	12	-	-	-	18101
400	VBU±15°	295	MVR400/VBU/40	E40	4000	65	40000	20000	6	135	3.2	117	49860
400*	VBU±15°	292	MPR400/VBU/0/40	E40	3400	65	38000	20000	6	-	-	-	18709
Elliptical Diffuse													
250	HOR±15°	210	MVR250/C/HOR	E39	3600	70	21600	15000	12	-	-	-	18103
400	HOR±15°	292	MVR400/C/HOR	E39p	4000	70	37600	20000	6	135	3.2	117	18097
400*	VBU±15°	292	MPR400/C/VBU/0/40	E40	3000	70	37600	20000	6	-	-	-	27738

Operating from CWA control gear

Initial lumen values and Rated Average Life based on vertical orientation for Universal types. Multi-Vapor™ lamps must operated in fully enclosed fixtures except those marked *when used VBU or VBD +/-15°.

For lamps requiring enclosed fixtures, lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C)

Lamps operated in the vertical position that are not designated "Enclosed Fixtures only" lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment.

For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended.

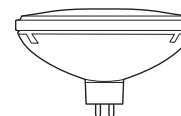
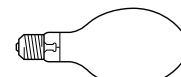
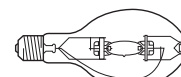
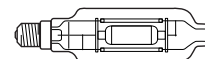
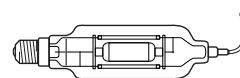
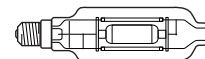
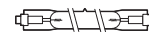
For more information contact your fixture manufacturer.



Sportlight™

Watts	Operating position	Length mm	Order Code	Cap	CCT K	CRI Ra	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Linear													
750	HOR±15°	256	SPL750/L/H/652/Rx7SM	Rx7SM	5200	65	67000	6000	1	525	1.75	19.3	30058
1000	HOR±15°	256	SPL1000/L/H/652/Rx7SM	Rx7SM	5200	65	80000	6000	1	270	4.2	22.1	16919
1500	HOR±15°	256	SPL1500/L/H/652/Rx7SM	Rx7SM	5200	65	120000	6000	1	270	6.8	24.3	16920
1600	HOR±15°	256	SPL1600/L/H/652/Rx7SM	Rx7SM	5200	65	135000	6000	1	480	3.75	22.1	16921
2000	HOR±15°	311	SPL2000/L/H/654/spec	spec.	5200	65	200000	6000	1	250	10.3	26	16922
Tubular Clear													
1000	HOR±60°	340	SPL1000/T/H/960/E40	E40	6000	90	80000	8000	4	130	9.5	81	20106
2000	HOR±60°	430	SPL2000/T/H/960/E40	E40	6000	93	170000	5000	4	250	10.3	101.5	30102
3500	HOR±60°	430	SPL3500/T/H/960/E40	E40	6000	93	300000	500	4	250	18	101.5	33154
2000	HOR±75°	430	SPL2000/220/T/H/640/E40	E40	4000	65	180000	2000	-	135	16.5	101.5	178554
Tubular Clear Coloured													
2000	HOR±75°	430	HgMI 2000W/220V Ga	E40	Blue	N/A	N/A	2000	-	135	16.5	101.5	178554
Hot Restrike													
2000	HOR±60°	490	SPL2000/HR/T/H/960/E40	E40	6000	93	170000	5000	4	250	10.3	101.5	178570
3500	HOR±60°	490	SPL3500/HR/T/H/960/E40	E40	6000	93	300000	500	4	250	18	101.5	33152
Internal Ignitor													
2000	HOR±20°	430	SPL2000/I/T/H/635/E40	E40	3500	-	210000	5000	-	255	8.8	101.5	178633
2000	HOR±75°	430	SPL2000/I/T/H/640/E40	E40	4000	65	190000	2000	4	250	8.8	101.5	33148
2000	HOR±60°	430	SPL2000/I/T/H/960/E40	E40	6000	93	170000	5000	4	250	10.3	101.5	30103
strictly for use without starting device													
Elliptical Clear													
1000	U	410	SPL1000/E/U/745/E40	E40	4100	65	92000	12000	1	265	4.2	167	30054
Elliptical Diffuse													
1000	U	410	SPL1000/D/U/740/E40	E40	3800	70	92000	14000	1	265	4.2	167	30055
1000	HOR±60°	380	SPL1000/D/H/960/E40	E40	6000	90	68000	8000	4	130	9.5	162	30057
2000		430	MBI2000/T	E40	-	90	210000	3000	4	-	-	-	32104
PAR 64													
1000	HOR±90°	175	CSI/PAR64/G38	G38	4000	80	76000	3500	1	77.5	14.7	205	29333
1000	HOR±90°	175	CSI/PAR64/HR/G38	G38	4000	80	76000	3500	1	77.5	14.7	205	29336

Please refer to technical catalogue/data sheet for appropriate ballast and ignitors. Sportlight™ lamps are only suitable in fully enclosed fixtures, where fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C)



High intensity discharge lamps

Lucalox™ XO Photosynthesis Light Lamp (PSL)

Low operating costs, long useful life, energy-efficient performance



Lucalox™ T

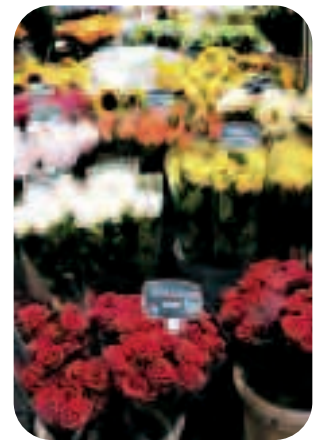


Lucalox™ E

- High efficiency – up to 150 lumens per watt – converting more energy into light, cutting energy and operating costs.
- Outstanding life – up to 55,000 hours substantially reducing lamp maintenance and replacement costs.
- Lamps that start out bright and stay that way, offering high maintained lumens over life.

Lighting for Horticulture

Specially developed for greenhouses, the Lucalox™ PSL offers the twin benefits of stable lumen maintenance and a full spectrum content that promotes photosynthesis.



Lucalox™ Standard

The highly efficient, long-life lamp

- Ideal for streetlighting, commercial and industrial use
- Wide range of wattages and sizes
- Up to 28,500 hours life
- Highly efficient, producing 130 lumens per watt



Lucalox™ XO, PSL

The extra high output and long-life lamp

- Extra light – up to 20% more lumens
- Long life of up to 32,000 hours
- Highly efficient, producing 150 lumens per watt
- PSL is ideal for Horticulture Lighting



Lucalox™ Internal Ignitor

The efficient compact solution with built in ignitor

- Simple – luminaires only need regular HPS ballast, simpler luminaire designs can be used
- Efficiency and long-life from a simple and versatile retrofit lamp
- Compact – enables use of small fixture lighting systems



Lucalox™ TD (Double-ended)

Lucalox™ efficiency in an ultra compact size

- Compact size – small size fits ultra compact fixtures
- Excellent optical control – delivers a concentrated beam of light exactly where needed
- High efficiency
- Long life



Lucalox™ E-Z Lux™

Converts mercury sockets to highly efficient high pressure sodium lighting

- Direct replacement for mercury lamps – operates on mercury ballasts
- More efficient, higher lumens than mercury – 14% energy cost savings – 40%+ more light



Lucalox™ Superlife

Extra arc tube provides light instantly after power interruption

- “Superlife” arc tube provides light instantly after momentary power interruption, and will increase to full output in 1–2 minutes
- Longest life – dual arc tubes provide up to 55,000 hour rated life



High intensity discharge lamps

High Pressure Sodium identification

The following glossary of terms and descriptions can help you when checking high pressure sodium lamp specifications and explains how to use the order codes when ordering products. Within each product line, lamps are divided into families – within families, lamps are listed by wattage.

Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

Length: Lamp length in mm

Cap: The type of cap fitted

CRI Ra: Colour rendering index, the higher the number (1-100) the more natural the lit subject appears

Product Code: It is important to use this code when ordering to ensure that you receive the exact product you require

Initial Lumens: Light output at 100 hours

Product Description/Order code: The lamp's identification code

Lucalox™

Watt	Operating position	Length mm	Order Code	Cap	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	Product Code
Lucalox™ T – Tubular Clear. 2000K – E									
50	U	156	LU50/85/T/27	E27	25	3400	28500	25	22445
70	U	156	LU70/90/T12/27	E27	25	6000	28500	25	22452

Lamp: Lamp type and product features

Operating position: Orientation of lamp

Product Family: LU – Lucalox™

Wattage:

Feature: Identifies product feature or operating voltage

Bulb Format: TD: Double Ended
E: Elliptical
D: Elliptical Diffuse
T: Single Ended Tubular
RFL: Reflector

Rated Average Life: The point in time when 50% of installed lamps are still burning

Pack Quantity: The number of lamps in one box

LU 70 / 90 / T 12 / 27



Donghai Bridge in Shanghai installed with Standby 250W HPS lamps

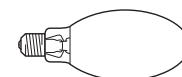


Lucalox™

Watt	Operating position	Length mm	Order Code	Cap	CRI Ra*	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Lucalox™ T – Tubular Clear. 2000K												
50	U	156	LU50/85/T/27	E27	25	3400	28500	25	85	0.76	38.5	22445
70	U	156	LU70/90/T12/27	E27	25	6000	28500	25	90	0.98	38.5	22452
100	U	211	LU100/100/MO/T/40	E40	25	9600	28500	12	100	1.2	48	93767
150	U	211	LU150/100/40	E40	25	15000	28500	12	100	1.8	48	44244
250	U	260	LU250/T/40	E40	25	27500	28500	12	100	3	48	22453
400	U	283	LU400/T/40	E40	25	48000	28500	12	100	4.6	48	11678
1000	U	372	LU1000/110/T/40 4pk GE NEW MIH	E40	25	130000	24000	4	110	10.6	67	45751



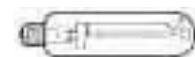
Watt	Operating position	Length mm	Order Code	Cap	CRI Ra*	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Lucalox™ E – Elliptical Diffuse. 2000K												
50	U	156	LU50/85/D/27	E27	25	3300	28500	12	85	0.76	72	10794
70	U	156	LU70/90/D/27	E27	25	5800	28500	12	90	0.98	72	10101
100	U	211	LU100/100/MO/D/40	E40	25	9200	28500	12	100	1.2	76	93766
150	U	227	LU150/100/D/40	E40	25	14500	28500	12	100	1.8	91	44245
250	U	227	LU250/D/40	E40	25	26000	28500	12	100	3	91	44052
400	U	282	LU400/D/40	E40	25	48000	28500	6	100	4.45	122	44057
1000	U	372	LU1000/110/D/40	E40	25	120000	24000	1	110	10.3	161	30228



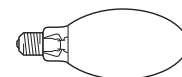
I – Internal Starter; E – External Starter
*Nominal, reference only

Watt	Operating position	Length mm	Order Code	Cap	CCT K	CRI Ra*	PAR mmol/sec	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
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Lucalox™ XO – (Xtra Output) Tubular Clear														
50	U	156	LU50/85/XO/T/27	E27	2100	25	-	4400	28500	25	85	0.76	38.5	93373
70	U	156	LU70/90/XO/T/27	E27	2100	25	-	6600	28500	25	90	0.98	38.5	93375
100	U	211	LU100/100/XO/T/40	E40	2100	25	-	10500	28500	12	100	1.2	48	93376
150	U	211	LU150/150/XO/T/40	E40	2100	25	-	17500	32000	12	100	1.8	48	93377
250	U	260	LU250/XO/T/40	E40	2100	25	-	33000	32000	12	100	2.95	48	93378
400	U	283	LU400/XO/T/40	E40	2100	25	-	56500	32000	12	100	4.5	48	93269
600	U	283	LU600/XO/T/40	E40	2100	25	-	90000	32000	12	115	6	48	93270



Lucalox™ XO – (Xtra Output) Elliptical Diffuse														
50	U	156	LU50/85/XO/D/27	E27	2100	25	-	3600	28500	12	85	0.76	72	45696
70	U	156	LU70/90/XO/D/27	E27	2100	25	-	6000	28500	12	90	0.98	72	45697
100	U	186	LU100/100/XO/D/40	E40	2100	25	-	10000	28500	12	100	1.2	76	93379
150	U	227	LU150/100/XO/D/40	E40	2100	25	-	16900	32000	12	100	1.8	91	93380
250	U	227	LU250/XO/D/40	E40	2100	25	-	31200	32000	12	100	2.95	91	93381
400	U	282	LU400/XO/D/40	E40	2100	20	-	54000	32000	12	105	4.4	122	93296



Lighting For Horticulture

Lucalox™ PSL – (PhotoSynthesis Light) Tubular Clear														
400	U	283	LU400 PSL/T/E40	E40/45	2100	22	725	56500	10000	12	110	4.3	48	17106
600	U	283	LU600 PSL/T/E40	E40/45	2100	22	1100	90000	10000	12	115	6	48	17107
750	U	293	LU750 PSL/T/E40	E40/45	2100	25	1350	112000	10000	12	115	7	51	17108
600	U	283	LU400V/600W/PSL/T/E40	E40/45	2100	22	1150	85000	10000	12	200	3.6	48	23440
750	U	293	LU400V/750W/PSL/T/E40	E40/45	2100	25	1415	104000	10000	12	205	4.4	51	23433

New Improved 400V lamps available with Bulk pack option.

LU400V/750W/PSL/T/2/E40 Bulk 1/45	43437
LU400V/750W/PSL/T/2/E40 1/12	43438
LU400V/600W/PSL/T/2/E40 Bulk 1/45	43439
LU400V/600W/PSL/T/2/E40 1/12	43440

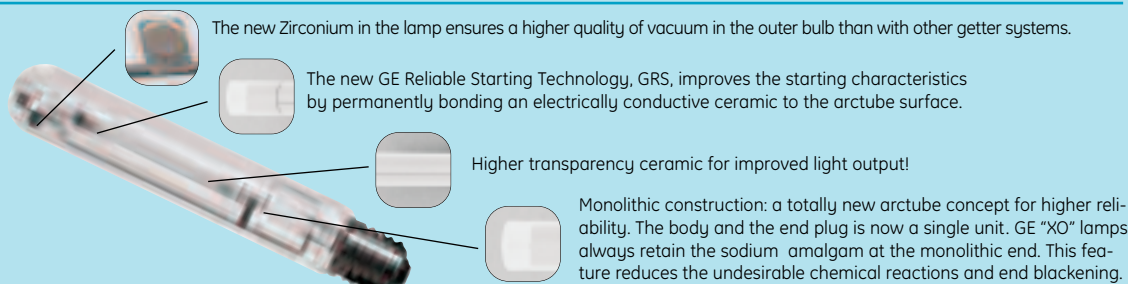
Internal Starter; E – External Starter

High pressure sodium lamps operating from HPS ballast and HPS ignitor
*Nominal, reference only

⚠ *External ignitor

⚠ Internal ignitor

GE Lucalox™ XO Lamp



High intensity discharge lamps

Lucalox™ continued

Watt	Operating position	Length mm	Order Code	Cap	CRI Ra	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Lucalox™ TD – Double Ended												
250	HOR±20°	191	LU250/TD	Rx7s-24	25	23000	20000	10	100	2.95	22.4	30241
400	HOR±20°	256	LU400/TD	Rx7s-24	25	43000	20000	10	100	4.4	22.4	30244
1000	HOR±20°	334	LU1000/TD	Rx7s-24	25	137000	20000	10	250	4.7	22.4	30246
Lucalox™ RFL – Reflector												
70	U	144	LU70/RFL	E27	25	4000	28500	10	90	0.98	95	30238
Lucalox™ E-Z Lux™ – Direct replacement for mercury lamps – Operates from mercury ballasts												
Elliptical Diffuse												
110	U	175	LUH110/D/27-SHx	E27	25	8800	16000	40	-	-	75	39512
Lucalox™ I – Elliptical Clear												
50	U	156	LU50/85/I/27	E27	25	3400	12000	12	85	0.76	72	11733
70	U	156	LU70/90/I/27	E27	25	6000	12000	12	90	0.98	72	11735
Lucalox™ I – Elliptical Diffuse												
50	U	156	LU50/85/D/I/27	E27	25	3300	12000	12	85	0.76	72	11734
70	U	156	LU70/90/D/I/27	E27	25	5800	12000	12	90	0.98	72	11736
Lucalox™ Superlife/Standby – Tubular Clear												
50	U	156	LU50/85/SBY/T/27	E27	25	3400	40000	25	85	0.76	38.5	35585
70	U	156	LU70/90/SBY/T/27	E27	25	6000	40000	25	90	0.98	38.5	35593
100	U	211	LU100/100/MO/SBY/T/40	E40	25	9600	40000	12	100	1.2	48	17899
150	U	211	LU150/100/SBY/T/40	E40	25	15000	50000	12	100	1.8	48	35594
250	U	260	LU250/SBY/T/40	E40	25	27500	55000	12	100	3	48	35586
400	U	283	LU400/SBY/T/40	E40	25	50000	55000	12	100	4.6	48	35582
Lucalox™ Superlife/Standby – Elliptical Diffuse												
50	U	156	LU50/85/SBY/D/27	E27	25	3300	40000	12	85	0.76	72	35583
70	U	156	LU70/90/SBY/D/27	E27	25	5800	40000	12	90	0.98	72	35587
150	U	227	LU150/100/SBY/D/40	E40	25	14500	50000	12	100	1.8	91	35589
250	U	227	LU250/SBY/D/40	E40	25	26000	55000	12	100	3	91	35590
400	U	282	LU400/SBY/D/40	E40	25	47500	55000	6	105	4.45	122	35591

I – Internal Starter, E – External Starter

⚠ External Ignitor required

⚠ Internal Ignitor

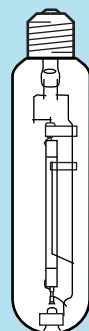
Lucalox™ START

50	U	156	LU50/90/T/E27/GE/START	E27	25	2890	12000		85	0.76	38.5	82401**
50	U	165	LU50/90/D/E27/GE/START	E27	25	2805	12000		85	0.76	72	82416**
70	U	156	LU70/90/T12/E27/GE/START	E27	25	5100	12000		90	0.98	38.5	82431**
70	U	165	LU70/90/D/E27/GE/START	E27	25	4930	12000		90	0.98	72	82446**
100	U	211	LU100/100/T/E40/GE/START	E40	25	8160	12000		100	1.2	48	82461**
100	U	186	LU100/100/D/E40/GE/START	E40	25	7820	12000		100	1.2	76	82476**
150	U	211	LU150/100/T/E40/GE/START	E40	25	12750	12000		100	1.8	48	82521**
150	U	227	LU150/100/D/E40/GE/START	E40	25	12325	12000		100	1.8	91	82536**
250	U	227	LU250/D/E40/GE/START	E40	25	22100	12000		100	3	91	45153
250	U	260	LU250/T/E40/GE/START	E40	25	23375	14000		105	3	48	45166
400	U	292	LU400/D/E40/GE/START	E40	25	40800	12000		105	4.45	122	45154
400	U	292	LU400/T/E40/GE/START	E40	25	40800	14000		100	4.6	48	45152
50	U	156	LU50/90/E/I/E27/GE/START	E27	25	2890	12000		85	0.76	72	82551**
50	U	165	LU50/90/D/I/E27/GE/START	E27	25	2805	12000		85	0.76	72	82566**
70	U	156	LU70/90/E/I/E27/GE/START	E27	25	5100	12000		90	0.98	72	82581**
70	U	165	LU70/90/D/I/E27/GE/START	E27	25	4930	12000		90	0.98	72	82596**

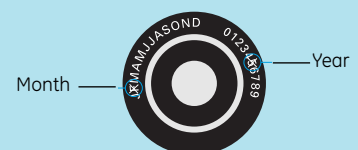
**Available Q3 2007

GE Lucalox™ Lamp

- **Nickel Alloy Cap**
Corrosion free, good electrical contact throughout life and moisture damage is eliminated
- **High maintained light output**
- **Shorter re-strike time**
Than either metal halide or mercury lamps
- **Starts and operates at temperatures as low as -40°C**
- **Provides a warm golden light**
- **Average rated life of up to 28,500Hrs**
Increased to 55,000 for Superlife versions. Offering lower replacement costs



- **Lamp Cap Identification**
Helps measure the lamp's performance over time



- **Clean Arc Tube**
- **Highest efficiency/lowest operating costs among the High Intensity Discharge (HID) product range with acceptable colour rendering**



Mercury

High quality colour
from a versatile range
of lamps



Kolorlux™

- Ideal for commercial, industrial and outdoor applications with a wide choice of lamp types and ratings.
- Good colour rendering.
- Modest installation and running costs.

The Kolorlux range offers six different types of mercury lamp, each with their own particular qualities.

Kolorlux Standard – Traffic and industrial lamps.

Kolorlux Deluxe – Warm colour and enhanced light output for indoor and outdoor applications.

Kolorlux DX Long Life – Meeting IEC and ANSI specifications for applications demanding standard US spec.

Blended Light – An alternative to incandescent requiring no control gear and giving warm white light with good energy efficiency.

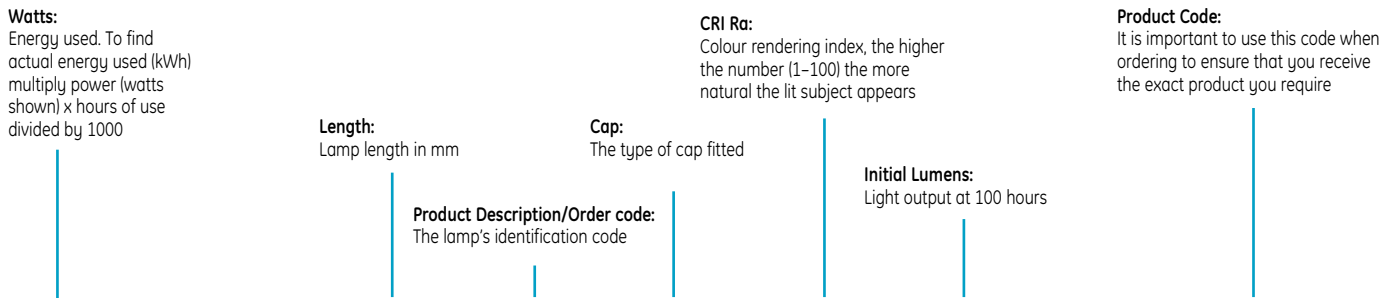


Good colour performance, long-term reliability and low operating costs mean mercury lamps are widely used in industrial lighting.

High intensity discharge lamps

Mercury and Low Pressure Sodium identification

The following glossary of terms and descriptions can help you when checking mercury and low pressure sodium lamp specifications and explains how to use the order codes when ordering products. Within each product line, lamps are divided into families – within families, lamps are listed by wattage.



Mercury – Operating on mercury ballast

Watt	Operating position	Length mm	Order Code	Cap	CRI Ra	Initial lumens Life Hours	Rated Average	Pack Qty	Product Code
50	U	130	H50/27	E27	40	1800	16000	40	93719
80	U	156	H80/27	E27	40	3800	20000	40	93720

Lamp: Lamp type and product features

Operating position: Orientation of lamp

Pack Quantity: The number of lamps in one box

Rated Average Life: The point in time when 50% of installed lamps are still burning

H 125 / 27

Lamp Type:
 H: Mercury lamp
 HR: Mercury lamp according to ANSI code
 HG: Mercury lamp
 HMV: Mixed Light UV/Blacklight
 ML: Mixed Light
 SOX: Low Pressure Sodium lamp

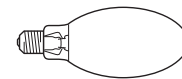
Cap Description:
 E27 E40 BY22d B22d-3

Wattage

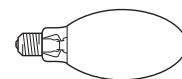


Mercury – Operating on mercury ballast

Watt	Operating position	Length mm	Order Code	Cap	CRI Ra	Initial lumens	Rated Average Life H	Pack Qty	Volts	I (A)	Diameter	Product Code
Kolorlux Standard (MBF)												
50	U	130	H50/27	E27	40	1800	16000	24	95	0.6	55	93719
80	U	156	H80/27	E27	40	3800	20000	24	115	0.8	70	93720
80	U	156	H80/B22	B22d-3*	40	3800	20000	24	115	0.8	70	93778
125	U	170	H125/27	E27	40	6300	20000	24	125	1.15	75	92619
125	U	170	H125/B22	B22d-3*	40	6300	20000	24	125	1.15	75	92831
250	U	227	H250/40	E40	40	13000	20000	12	130	2.15	90	92620
400	U	292	H400/40	E40	40	22500	20000	12	135	3.25	120	92621

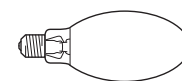


Kolorlux Deluxe												
50	U	130	H50NDX/27	E27	57	2000	16000	24	95	0.6	55	93781
80	U	156	H80NDX/27	E27	57	4000	20000	24	115	0.8	70	93782
125	U	170	H125NDX/27	E27	55	6500	20000	24	125	1.15	75	92896
250	U	227	H250NDX/40	E40	55	14000	20000	12	130	2.15	90	92898
400	U	292	H400NDX/40	E40	50	24000	20000	12	135	3.25	120	92899



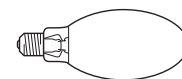
Kolorlux DX Long Life												
250	U	213	HR250DX37/40	E40	50	12100	24000	12	130	2.1	91	32372
400	U	290	HR400DX33/40	E40	50	22500	24000	6	135	3.2	120	32294

*B22d-3 is a 3 pin BC cap.



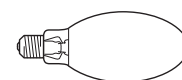
Blended Light (MBTF)												
160	VER±30°	170	ML 160/ 230-240V, E27	E27	52	3100	8000	40	230-240	0.73	76	85954
160	VER±30°	170	ML 160/ 230-240V, B22	B22	52	3100	8000	40	230-240	0.7	76	85954
160	VER±30°	170	ML 160/ 240-250V, E27	E27	52	3100	8000	40	230-240	0.7	76	85965
250	VER±30°	227	ML 250/ 230-240V, E40	E40	52	5600	8000	12	230-240	1.17	90	85948
250	VER±30°	227	ML 250/ 230-240V, E27	E27	52	5600	8000	12	230-240	1.17	90	85955
250	U*	227	ML 250/ 240-250V, E40	E40	52	5600	8000	12	230-240	1.08	90	85962
500	U*	292	ML 500/ 230-240V, E40	E40	52	14000	8000	10	230-240	2.35	120	85904

*Operating position universal but optimum orientation VER ± 45°.



Start

125	U	178	H125/E27	E27	40	5040	16000	24	110	1.25	75	42848
250	U	228	H250/E40	E40	40	10400	12000	12	115	2.13	90	82228*
400	U	292	H400/E40	E40	40	18000	12000	12	120	3.25	120	42849*

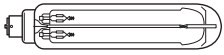
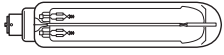
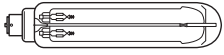


High intensity discharge lamps

Low Pressure Sodium Lamps – 16.000 hours

Watts	Operating position	Length mm	Order Code	Cap	CCT K	Initial lumens	Pack Qty	Volts	I (A)	Diameter	Product Code
SOX											
18	VBU/HOR±20°	216	SOx18	BY22d*	1800	1800	16	57	0.35	53	21294
35	VBU/HOR±20°	311	SOx35	BY22d*	1800	4600	16	70	0.60	53	21296
55	VBU/HOR±20°	425	SOx55	BY22d*	1800	7650	16	109	0.59	53	21297
90	HOR±20°	528	SOx90	BY22d*	1800	12750	9	112	0.94	67	21298
135	HOR±20°	775	SOx135	BY22d*	1800	22000	9	164	0.95	67	21299
SOX – PLUS											
35	VBU/HOR±20°	311	SOxPLUS35W	BY22d*	1800	4600	16	70	0.60	53	36750
55	VBU/HOR±20°	425	SOxPLUS55W	BY22d*	1800	7650	16	109	0.59	53	36754
90	HOR±20°	528	SOxPLUS90W	BY22d*	1800	12750	9	112	0.94	67	36756
135	HOR±20°	775	SOxPLUS135W	BY22d*	1800	22000	9	164	0.95	67	36759
SOX-E – Economy											
26	VBU/HOR±20°	311	SOx26E	BY22d*	1800	4060	16	69	0.45	53	30204
36	VBU/HOR±20°	425	SOx36E	BY22d*	1800	6400	16	120	0.35	53	30205
66	HOR±20°	528	SOx66E	BY22d*	1800	10800	9	123	0.62	67	30209
91	HOR±20°	775	SOx91E	BY22d*	1800	16800	9	173	0.62	67	30211

*BY22d is 2 pin BC cap.



GE SOX-Plus Lamp – Driven by Six Sigma Quality

- **Low Conductivity Mica Support**

- **Better Electrodes**

Improved coating technique through Statistical Process Control

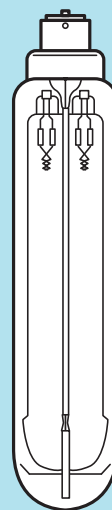
Superior conditioning through better activation of emitter material

Sodium resistant sleeving

- **Improved Gas Filling**

Better lamp starting due to Statistical Process Control of purity and pressure fill gas

High vacuum insulation in outer jacket



- **Smooth Arc-Tube**

No pitting of surface by features that may act as weak points

No indentations for sodium to evaporate over lamp life and reduce efficacy

Minimal discolouration of sodium resistant coating due to improved manufacturing process

- **Graduated Insulating Coating**

Optimises lamp energy balance

- **Reliable Metal Top Clip**

Robust to vibration in poor weather conditions

Mica spacer for low heat conductivity from arc-tube



Low pressure sodium

Energy-efficiency
and reliability
through life



SOX™

- GE's SOX lamps produce light at wavelengths close to the peak sensitivity of the human eye and so provide one of the most efficient types of artificial light.
- Particularly suitable where long operating hours are demanded such as lighting roads, tunnels and pathways, where SOX lamps' remarkably low-energy/high output characteristics make them a cost-effective choice.

GE's SOX lamps offer outstanding performance and reliability throughout their rated life.

Outstanding energy – efficiency

producing up to 4060 lumens from just 26 watts.

Long-life

16.000 hours rated average life.

Long-term reliability

with lamp survival rates of up to 80% at 12,000 hours.

Long-term performance

offering 80% lumen maintenance at maximum rated life.



High intensity discharge lamps

Discharge lamps

Run-up and re-strike time

When a discharge lamp is switched-on, current flows through gas in the arc tube and the power dissipated generates heat vaporising the mercury, sodium or halide filling until stable electrical operating conditions are achieved. This is known as the run-up or warm-up period. The run-up period can be several minutes until the lamp stabilises and achieves published lumen output and colour performance. Run-up value shown in the table is the time taken for the lamp to reach 90% of final light output.

Re-strike time is based on lamps that have fully run-up and then a momentary break in the supply voltage occurs causing extinction.

Actual run-up time and re-strike time will vary according to application, type of fitting used, factors affecting warm-up/cooling rate of the lamp and the ambient temperature.

Most discharge lamps other than high pressure mercury and Multi-Vapor™ are started by a high voltage pulse generated by a separate ignitor, which automatically switches-off after the lamp has started. Use of an external electronic starting device simplifies lamp construction and provides reliable starting performance.

Lamp	Rating (watts)	Run-up time (minutes)	Re-strike time (minutes)
Arcstream™ Single Ended	70	1.5	3-5
	150	1	3-5
Double Ended	70	3	5-10
	150	3	5-10
Elliptical	250	4	5-10
	100	3	5-10
Tubular	250	4	5-10
	400	2-4	5-10
Kolorarc™ Elliptical	400	3-4	5-10
	400	4	5-10
Multi-Vapor™	175	3	10-15
	250	3	10-15
	400	3	10-15
	1000	3	10-15
Sportlight™ Elliptical	1000	2-4	5-15
	750	2	15-20
	1000	2	15-20
	1500	2	15-20
	2000	2	15-20
Tubular	1000	4	5-15
	2000	4	5-15
PAR	1000	1	10

Lamp	Rating (watts)	Run-up time (minutes)	Re-strike time (minutes)
Lucalox™	50	4	less than 1
	70	4	less than 1
	100	4	less than 1
	150	4	less than 1
	250	5	less than 1
	400	3	less than 1
Lucalox™ HO	1000	6	less than 1
	50	3	2-4
	70	5	2-4
	100	3.5	2-4
	150	3.5	2-4
	250	3	2-4
Kolorlux	400	5	2-4
	600	4	2-4
	750	4	2-4
	50	6	4-7
	80	5	4-7
SOX/SOX-Plus	125	5	4-7
	250	5	4-7
	400	5	4-7
	700	5	4-7
	1000	5	4-7
	SOX E	18*	12
35		9	Instant#
55		9	Instant#
90		9	10
135		9	10
SOX E	26	9	Instant#
	36	9	Instant#
	66	9	10
	91	9	10

Notes:
1 In Floodlight
2 Hot Re-strike version also available

* Not available as SOX-Plus
Instant for ignitor circuits



General information

Life of HID lamps

All life ratings for GE high intensity discharge lamps are expressed in terms of 'Rated Average Life', quoted in hours, where average is the 'median' value. This means the number of burning hours until 50% of lamps in an installation (of at least 30 lamps) are expected to have failed or not be operating to the published performance specification. Life ratings are based on lamps operating from suitable control gear for at least ten hours per switching. Lamps operating less than ten hours per start will have a reduced Rated Average Life (typically 25% reduction for each burning cycle reduction of 50%).

Ambient operating temperature

GE Lighting discharge lamps will start reliably at an ambient temperature down to -40°C for Lucalox™ high pressure sodium, -30°C for metal halide and -20°C for high pressure mercury.

Supply Voltage

Discharge lamps in this catalogue are suitable for supplies in the range 220V to 250V 50/60Hz (or 380V to 440V for some Sportlight™ products) when using suitably rated electromagnetic or electronic control gear. Supplies outside this range require a transformer (conventional, high reactance or CWA) or an electronic ballast to ensure correct lamp operation.

Lamps start and operate at 10% below rated supply voltage when the correct control gear is used. However, in order to maximise lamp survival, lumen maintenance and colour uniformity the actual supply voltage and ballast design voltage should be within $\pm 3\%$. Supply variations up to $\pm 5\%$ are acceptable for short periods only; otherwise lamp life and/or performance will be adversely affected.

Measuring mean supply voltage at the installation and selecting the appropriate ballast setting/tapping is the recommended method of matching multi-voltage rated ballasts to actual supply voltage.

Regular switching of lamps

Continuous operation of mercury and metal halide lamps can increase the slight risk that lamps may shatter, particularly if run beyond rated-life. It is recommended, particularly towards rated end-of-life, that lamps are switched-off for 15 minutes at least once in every 24 hour period to minimise the risk of such failure.

Most metal halide lamps must be fully enclosed within a luminaire to ensure retention of any fragments in the event of a shattering failure mode - see individual lamp sections in this catalogue and lamp data sheets for details.

Circuit Fusing

Recommended HBC fuse and MCB ratings for discharge lamps are given in lamp technical data sheets and publication 'Fuse Ratings for Discharge Lamps', available from GE Lighting.

Further information

Technical data sheets provide more detailed technical information for the products listed. Contact GE Lighting Customer Service or local sales office to obtain copies.

GE Lighting has been a leading supplier to Entertainment and Specialty lamp users for many decades and continues its pioneering work in the development of new and innovative light sources.

Entertainment lamps are being sold under the SHOWBIZ® brand. GE Lighting continues to provide lamps for stage, studio, nightclub and theatre lighting, to architectural and fiber optic lighting applications for this segment.





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SHOWBIZ® identification

The following glossary of terms and descriptions can help you when checking SHOWBIZ lamp specifications and when ordering products. Within each product line, lamps are divided into families - within these families, lamps are listed by wattage..

Watts:
Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

Volts:
Each lamp's voltage is listed

Approx Initial Lumens:
The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or a minimum of 2 hours) or more of their rated average life.

Colour Temp. (K):
Colour Temperature - in Kelvin. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

Filament Form:
The following codes are used for filament shape
SC - Axial Single Coil - Equivalent ANSI C8
CC - Axial Coiled Coil - Equivalent ANSI CC8
MP - Monoplane Grid - Equivalent ANSI C13
BP - Biplane Grid - Equivalent ANSI C13D
TF - Twin Monoplane Grid - Equivalent ANSI 2C13
S.C.H - Single Coil Hexagonal - equivalent to ANSI 6-C8
S.C.S - Single Coil Square - equivalent to ANSI 4-C8

Product Code:
It is important to use this code when ordering to ensure that you receive the exact product you require

Pack Quantity:
The number of lamps in one box

Dimension:
Lamp dimension in mm

Single Ended Halogen

Watt	Volt	Ansi Code	LIF Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
G38 base (mogul prefocus)															
2500	240	-	CP94	67500	3200	BP	24x18	210	40	127	400	12	-	30500	3
3000	230	-	HX48	82000	3200	MP	24x26	210	47	127	400	12	K	30503	4
3000	240	-	HX48	82000	3200	MP	24x26	210	47	127	400	12	K	30504	4
5000	120	DPY	CP29	143000	3200	MP	31x36	280	65	165	500	6	-	41736	1

Lamp:
Description of lamp type, and product features

LIF Code:
These are assigned by the Lighting Federation of London, UK. They ensure electrical and mechanical inter-changeability of similarly coded lamps. LIF codes are divided into groups according to the primary application

Filament H & W:
Filament's size in mm

Rated Average Life:
The point in time when 50% of installed lamps are still burning

ANSI Code:
These are 3-letter codes assigned by the American National Standard Institute. They provide a system of assuring mechanical and electrical inter-changeability among similarly coded lamps from various manufacturers.

- Notes:**
- A - Hemispherical shield in front of filament masking all direct light
 - B - Operate at or near horizontal
 - C - Protect from moisture. Safety screening techniques recommended
 - D - Replace broken lamp immediately. Inner bulb pressurised and could shatter unexpectedly
 - E - Use safety screen external to lamp
 - F - Operate BDTH
 - G - Operate BD ±30°
 - H - 100V rating available to order
 - J - 120V rating available to order
 - K - Specially designed for searchlight applications
 - L - Twin filament lamp. Lumen figures relate to single and twin filament options
 - M - Tungsten Halogen minimum bulb wall temp 250°C
 - N - 3 or 4 amp HBC fuse necessary
 - P - 5 or 6 amp HBC fuse necessary
 - Q - 6 or 7 amp HBC fuse necessary
 - R - 10 amp HBC fuse necessary
 - S - Due to internal integral reflector nominal lumens not shown
 - T - Obscured top
 - V - Due to integral dichroic reflector nominal lumens not shown
 - W - Axial coiled coil single ended lamps will generally give better reliability against premature arcing if orientations in which the main support spine is under the filament are avoided



PAR Lamps

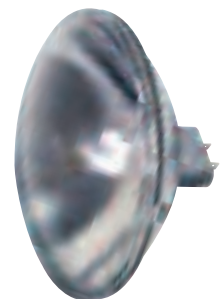
PAR lamps provide a robust and flexible design solution for a wide range of theatre, studio and nightclub applications.



PAR 36



PAR 56



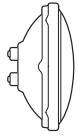
PAR 64



Twister, Wilhelmshafen, Germany By Fischer Art of Light & Sound GmbH, Bremen

PAR Lamps

Watts	Volts	Order Code	Life (h)	Candela	Beam 10%	Beam 50%	CCT (K)	Pack Qty	Note	Product Code
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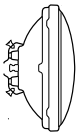


PAR 36 Ferrule cap

650	120	FCW	100	-	-	60x55	3200	12	BC	41672
650	120	FCX	100	24000	-	40x30	3200	12	BC	41673

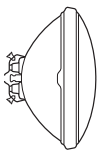
PAR 36 Screw Terminal cap

0.5 Amp	4.7	4546	1000	6300	3x3	-	-	12	-	24780
1.25 Amp	4.75	4547	100	20000	3x3	-	-	12	-	24788
25	5.5	25PAR36	1000	30000	5.5x4.5	-	3000	12	A	14553
25	12	25PAR36/NSP	2000	4500	19x17	10x8	-	12	A	14554
25	12	25PAR36/WFL	2000	500	49x41	37x26	-	12	A	14555
25	12	25PAR36/VWFL	2000	250	82x80	40x33	-	12	A	14556
30	12.8	4405	100	50000	6x5	-	-	12	AD	24425
30	6.2	4511	300	2300	TRAPEZOID	-	-	12	-	24663
30	6.4	H4515	100	67000	5.5x4	-	-	12	AD	15133
30	6.4	4515	100	55000	5x5	-	-	12	A	24673
50	12.8	H7604	100	100000	7x5	-	-	12	-	43576
30	6.2	4516	300	45000	9x4	-	-	12	-	24678
50	12	50PAR36/VNSP	2000	25000	11x9	-	-	12	A	12892
50	12	50PAR36/NSP	2000	9200	20x17	11x9	-	12	A	16540
50	12	50PAR36/WFL	2000	1300	48x41	36x28	-	12	A	16541
50	12	50PAR36/WFL/H	4000	-	-	-	3050	12	-	19880
50	12	50PAR36/VWFL	2000	600	80x80	40x37	-	12	A	16542
50	28	4502	400	10000	40x7	-	-	12	-	24627
50	28	4505	400	45000	11x5	-	-	12	-	24640
100	13	4509	25	110000	12x6	-	-	12	-	24650
100	13	4509X	25	110000	12x6	-	-	12	-	41503
100	28	4595	300	60000	14x16	-	-	12	-	24892
100	28	4591	25	90000	12x6	-	-	12	-	24882
50	28	4593	400	1500	80x30	-	-	12	-	24887
100	28	4594	300	70000	13x7	-	-	12	BC	24891
150	28	4626	300	25000	40x9	-	-	12	-	24964
100	28	4627	300	3000	80x30	-	-	12	-	24966
250	28	4587	25	4000	40x13	-	-	12	-	24867
250	28	4596	25	150000	11x12	-	3000	12	-	24898
650	120	DWE	100	24000	-	40x30	3200	12	BC	41667
650	120	FBE	35	35000	-	25x15	5000	12	BC	41669
650	120	FBO	30	75000	-	25x15	3400	12	BC	41671



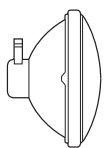
PAR 46 Screw Terminal cap

30	6.4	4535	100	95000	5.5x4	-	-	12	A	24735
30	12.8	4435	300	75000	5x5	-	-	12	A	24577
40	12.5	4531	400	30000	20x5	-	-	12	-	24726
50	12.8	H7635	100	160000	6.5x4	-	-	12	D	43591
100	13	4537-2	25	200000	11x16	-	-	12	-	40822
100	13	4537	25	200000	11x6	-	-	12	-	24742
150	28	4570	300	32000	50x9	-	-	12	-	24828
150	28	4571	300	7000	80x25	-	-	12	-	24830
150	28	4572	300	4500	55x55	-	-	12	-	24833
250	28	4551	25	75000	50x10	-	-	12	-	24795
250	28	4553	25	300000	11x12	-	-	12	E	24799
450	28	4580	10	400000	13x14	-	-	12	-	24859
450	28	4581	10	400000	13x14	-	-	12	-	24862
450	16.5	4635	25	325000	14x15	-	-	12	-	33284
450	28	Q4554	25	65000	50x11	-	-	12	-	37706
450	28	Q4597	1000	16000	60x35	-	-	12	-	37372
450	28	Q4681	50	310000	15x9	-	-	12	-	36271



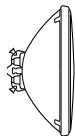
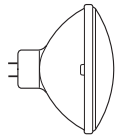
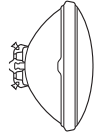
PAR 46 Medium Side Prong cap

150	125	150PAR46/3MFL	2000	8000	39x25	26x13	2750	12	E	41968
200	120	200PAR46/3MFL	2000	11500	40x24	27x13	2750	12	E	20138

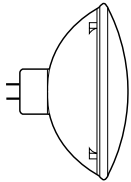


PAR Lamps

Watt	Volt	Order Code	Life (hours)	Candela	Beam 10%	Beam 50%	CCT (K)	Pack Qty	Note	Product Code
PAR 56 Screw Terminal cap										
100	12	4545	100	225000	9x5	-	-	12	A	24768
120	12	120PAR56/VNSP	2000	60000	15x10	8x6	-	12	-	19023
120	12	120PAR56/MFL	2000	19000	29x15	18x9	-	12	-	19024
120	12	120PAR56/WFL	2000	5625	50x25	35x18	-	12	-	19025
200	30	200PAR	500	270000	9x9	-	-	12	-	20122
240	12	240PAR56/VNSP	2000	140000	7x10	9x6	-	12	C	20575
240	12	240PAR56/MFL	2000	46000	28x15	18x9	-	12	C	20576
240	12	240PAR56/WFL	2000	13000	50x27	35x18	-	12	C	20577
300	12	300PAR56/WFL	1000	-	-	-	-	12	-	23427
PAR 56 GX16d cap										
300	120	300PAR56/NSP	2000	68000	20x14	10x8	2750	12	C	20803
300	120	300PAR56/MFL	2000	24000	34x19	23x11	2750	12	C	20836
300	120	300PAR56/WFL	2000	11000	57x27	37x18	2750	12	C	20849
300	230	300PAR56/NSP	2000	40000	-	-	-	12	C	20853
300	230	300PAR56/MFL	2000	30000	-	-	-	12	C	20852
300	230	300PAR56/WFL	2000	10000	-	-	-	12	C	20854
300	240	300PAR56/NSP	2000	40000	-	-	-	12	C	18676
300	240	300PAR56/MFL	2000	30000	-	-	-	12	C	18677
300	240	300PAR56/WFL	2000	10000	-	-	-	12	C	18678
500	120	Q500PAR56/NSP	4000	96000	32x15	13x8	2950	6	CD	43494
500	120	Q500PAR56/MFL	4000	43000	42x20	26x10	2950	6	CD	43495
500	120	Q500PAR56/WFL	4000	19000	66x34	44x20	2950	6	CD	43496
PAR 64 Screw Terminal cap										
250	28	4552	25	500000	8x7	-	-	12	-	40576
600	28	4559	25	600000	11x12	-	-	12	C	40578
600	28	Q4559	100	600000	12x8	-	-	12	CD	40579
600	28	Q4559X	100	765000	11x7.5	-	-	12	CD	42552



PAR Lamps



Watt	Volt	LIF Code	Order Code	Life (hours)	Candela	Beam 10%	Beam 50%	CCT K	Pack Qty	Note	Product Code
PAR 64 GX16d base (EMEP)											
500	230	CP86	Q500PAR64/VNSP	300	240000	16x13	10x7	3200	6	CD	30280
500	240	CP86	Q500PAR64/VNSP	300	240000	16x13	10x7	3200	6	CD	30282
500	230	CP87	Q500PAR64/NSP	300	140000	19x16	11x9	3200	6	CD	30283
500	240	CP87	Q500PAR64/NSP	300	140000	19x16	11x9	3200	6	CD	30286
500	230	CP88	Q500PAR64/MFL	300	65000	32x19	21x10	3200	6	CD	30287
500	240	CP88	Q500PAR64/MFL	300	65000	32x19	21x10	3200	6	CD	30288
500	230	-	500/PAR64/MFL	2000	-	32x19	21x10	2700	12	CD	39411
500	230	-	500/PAR64/W FL	2000	-	-	-	2700	12	CD	39414
1000	230	CP60	EXC SUPER	300	352000	12x9	20x17	3200	6	CD	93409
1000	240	CP60	EXC SUPER	300	352000	12x9	20x17	3200	6	CD	10925
1000	230	CP61	EXD SUPER	300	297000	14x10	22x20	3200	6	CD	10928
1000	240	CP61	EXD SUPER	300	297000	14x10	22x20	3200	6	CD	10929
1000	230	CP62	EXE SUPER	300	138000	24x11	38x20	3200	6	CD	10930
1000	240	CP62	EXE SUPER	300	138000	24x11	38x20	3200	6	CD	10931
1000	230	CP95	-	300	15000	125x95	70x70	3200	6	CD	30277
1000	240	CP95	-	300	15000	125x95	70x70	3200	6	CD	30278
1000	230	-	EXG/PAR64/WFL	300	38000	73x36	57x21	3200	6	CD	35482
1000	240	-	EXG/PAR64/WFL	300	38000	73x36	57x21	3200	6	CD	35483
500	120	-	500PAR64/NSP	2000	110000	19x14	12x7	2800	12	CD	39406
500	120	-	500PAR64/MFL	2000	37000	35x19	23x11	2800	12	CD	39409
1000	120	-	FFN	800	400000	24x10	12x6	3200	6	CD	13233
1000	120	-	FFP	800	330000	26x14	14x7	3200	6	CD	13229
1000	120	-	FFR	800	125000	44x11	28x12	3200	6	CD	13228
1000	120	-	FFS	800	40000	71x45	48x24	3200	6	CD	13227
1000	120	-	FGN	200	70000	43x20	27x11	5200	6	CD	13225
1000	120	-	Q1000PAR64/NSP	4000	200000	31x14	15x8	3000	6	CD	43497
1000	120	-	Q1000PAR64/MFL	4000	80000	45x22	28x12	3000	6	CD	43498
1000	120	-	Q1000PAR64/WFL	4000	33000	72x45	48x24	3000	6	CD	43499

Single Ended Halogen Lamps

An extensive range of lamps designed to optimal performance in today's precision range of stage, studio and architectural luminaires.



HPL



OC 1200



12K GX38



SINGLE ENDED HALOGEN LAMPS

Watt	Volt	Order Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Product Code	Fig. No.
High Performance Lamps													
575	230	HPL 575	14900	3200	SCH	10 x 9.5	106	18	60.3	300	12	37128	1
575	240	HPL 575	14900	3200	SCH	10 x 9.5	106	18	60.3	300	12	37131	1
575	120	HPL 575-C	16520	3250	SCS	9 x 6	106	18	60.3	300	12	92433	2
575	115	HPL 575-C	16520	3250	SCS	9 x 6	106	18	60.3	300	12	92431	2
575	230	HPL 575-X LL	11780	3050	SCH	12 x 9.5	106	18	60.3	1500	12	37817	1
575	240	HPL 575-X LL	11780	3050	SCH	12 x 9.5	106	18	60.3	1500	12	37818	1
575	120	HPL 575-C LL-X	12360	3050	SCS	11 x 6	106	18	60.3	2000	12	92435	2
575	115	HPL 575-C LL-X	12360	3050	SCS	11 x 6	106	18	60.3	2000	12	92434	2
750	230	HPL 750	19750	3200	SCH	11.5 x 9.5	106	18	60.3	300	12	37824	1
750	240	HPL 750	19750	3200	SCH	11.5 x 9.5	106	18	60.3	300	12	37826	1
750	115	HPL 750-C	22000	3250	SCS	10.5 x 6.3	106	18	60.3	300	12	92432	2
750	115	HPL 750-C-XLL	16400	3050	SCS	13 x 6.3	106	18	60.3	2000	12	92770	2
750	230	HPL 750-X-LL	15600	3050	SCH	13 x 8	106	18	60.3	1500	12	92768	1
750	240	HPL 750-X-LL	15600	3050	SCH	13 x 8	106	18	60.3	1500	12	92769	1

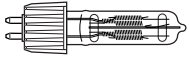


Fig. 1

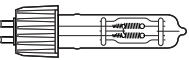


Fig. 2

Watt	Volt	ANSI Code	Order Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
G9.5 base															
500	120	EHD	-	10000	2900	CC-8	18x5	105	20	60.5	2000	24	W	39768	1
575	115	FLK	HX600	16500	3200	CC-8	12.7x6	105	18	60.5	300	24	W	11450	1
575	115	FLK/LL	HX601	12800	3100	CC-8	13.7x6	105	18	60.5	1500	50	W	39730	1
600	230	GKV	HX600	14000	3200	C13-D	13.5x7.5	105	18	60.5	250	24	-	39739	2
600	240	GKV	HX600	14000	3200	C13-D	13.5x7.5	105	18	60.5	250	24	-	39750	2
600	230	GKV/LL	-	11000	3000	C13-D	16x8	105	18	60.5	1500	24	-	39751	2
600	240	GKV/LL	-	11000	3000	C13-D	16x8	105	18	60.5	1500	24	-	39752	2
650	230	FKR	-	15000	3100	CC-8	24x5	105	20	60.5	300	24	W	39734	1
650	240	FKR	-	15000	3100	CC-8	24x5	105	20	60.5	300	24	W	39735	1
750	120	EHF	-	20000	3200	CC-8	19x7	105	20	60.5	300	24	W	39771	1
750	120	EHG	-	15000	3000	CC-8	19x7	105	20	60.5	2000	24	W	39770	1
800	230	-	HX800	20000	3200	C13-D	15.8x8.4	105	18	60.5	250	24	-	39753	2
800	240	-	HX800	20000	3200	C13-D	15.8x8.4	105	18	60.5	250	24	-	39754	2
1000	120	FEL	CP77	27500	3200	CC-8	19x7	105	20	60.5	300	24	W	39769	1
1000	230	FEP	CP77	25000	3200	CC-8	24x7	105	20	60.5	300	24	W	39738	1
1000	240	FEP	CP77	25000	3200	CC-8	24x7	105	20	60.5	300	24	W	39736	1

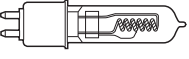


Fig. 1

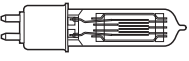


Fig. 2



SINGLE ENDED HALOGEN LAMPS

Watt	Volt	LIF Code	Order Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
GY9.5 base - Grid-form Filament															
300	120	CP81	FKW	6900	3200	S	15x10	90	25	46	50	24	-	39781	1
300	230	CP81	FSL	6900	3200	S	11x10	90	25	46	150	24	-	39780	1
300	240	CP81	FSK	6900	3200	S	11x10	90	25	46	150	24	-	39779	1
500	120	CP82	FRG	13000	3200	MP	12.5x11.5	90	25	46	150	24	-	39623	1
500	230	CP82	FRH	12500	3200	MP	13x13	90	25	46	150	24	-	39624	1
500	240	CP82	FRJ	12500	3200	MP	13x13	90	25	46	150	24	-	39628	1
500	230	T18	GCV	11000	3050	MP	13.5x13	90	23	46	400	24	-	39717	1
500	240	T18	GCW	11000	3050	MP	13.5x13	90	23	46	400	24	-	39629	1
500	230	T25	GCV	11000	3000	BP	11x11	90	23	46.5	360	24	-	39455	1
500	240	T25	GCW	11000	3000	BP	11x11	90	23	46.5	360	24	-	39262	1
650	230	T27	GCT	14500	3050	BP	13x11	90	23	46.5	400	24	-	39456	1
650	240	T27	GCS	14500	3050	BP	13x11	90	23	46.5	400	24	-	39457	1
650	120	T26	FRE	15500	3100	MP	13.5x13.5	90	23	46	500	24	-	39630	1
650	230	T26	GCT	15500	3100	MP	15.5x13.5	90	23	46	400	24	-	39635	1
650	240	T26	GCS	15500	3100	MP	15.5x13.5	90	23	46	400	24	-	39636	1
650	120	CP89	FRK	16900	3200	MP	12.5x11.5	90	25	46	200	24	-	39637	1
650	230	CP89	FRL	16250	3200	MP	13x13	90	25	46	150	24	-	39640	1
650	240	CP89	FRM	16250	3200	MP	13x13	90	25	46	150	24	-	39642	1

S = Staggered Filament Burning position VBD ±90

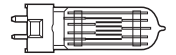


Fig. 1

GY9.5 base - Coiled Coil Filament															
600	120		FMR	12600	3050	CC-8	16x6	85	16	51	2000	24	W	30475	2

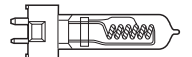


Fig. 2

Watt	Volt	LIF Code	Order Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
GX9.5 base															
650	230	T12	-	13500	3000	MP	15.5x14.5	110	25	55	750	12	-	39661	2
650	240	T12	-	13500	3000	MP	15.5x14.5	110	25	55	750	12	-	39663	2
650	230	CP23	-	16900	3200	MP	12x14.5	110	25	55	100	12	-	39654	2
650	240	CP23	-	16900	3200	MP	12x14.5	110	25	55	100	12	-	39660	2
1000	230	CP24	-	26000	3200	MP	18.5x17.5	110	35	55	200	12	-	39651	1
1000	240	CP24	-	26000	3200	MP	18.5x17.5	110	35	55	200	12	-	39653	1
1000	115/120	T11	Q1000T8/CL	23500	3050	MP	16x14	110	35	55	750	24	-	29331	1
1000	230	T11	-	23000	3050	MP	17.5x17.5	110	35	55	750	12	-	39656	1
1000	240	T11	-	23000	3050	MP	17.5x17.5	110	35	55	750	12	-	39659	1
1000	230	T19	FWP	21000	3050	BP	15x12	110	35	55	750	12	HJ	39657	2
1000	240	T19	FWR	21000	3050	BP	15x12	110	35	55	750	12	HJ	39658	2
1000	230	CP70	FVA	25000	3200	BP	15x12	110	35	55	200	12	HJ	39241	2
1000	240	CP70	FVA	25000	3200	BP	15x12	110	35	55	200	12	HJ	39242	2
1200	120	T29	-	30500	3050	BP	15x13	125	35	67	400	12	-	39647	3
1200	230	T29	FWS	29000	3050	BP	16x13	125	35	67	400	12	-	39723	3
1200	240	T29	FWT	29000	3050	BP	16x13	125	35	67	400	12	-	39667	3
1200	230	CP90	-	33000	3200	BP	16x12	125	35	67	200	12	J	39724	3
1200	240	CP90	-	33000	3200	BP	16x12	125	35	67	200	12	-	39725	3

Burning position VBD ±90

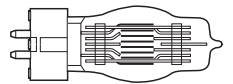


Fig. 1

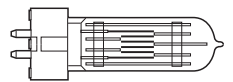


Fig. 2

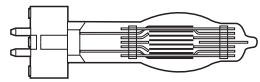


Fig. 3

GY16 base															
2000	230	CP43	FTM	54000	3200	MP	22x22.5	145	40	70	400	12	-	20309	1
2000	240	CP43	FTL	54000	3200	MP	22x22.5	145	40	70	400	12	-	20310	1
2000	120	CP79	-	56000	3200	BP	17.5x16	145	40	70	400	12	-	13053864	1
2000	230	CP79	-	54000	3200	BP	18.5x17	145	40	70	350	12	H	30497	1
2000	240	CP79	-	54000	3200	BP	18.5x17	145	40	70	350	12	-	30498	1

Burning position VBD ±90

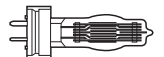


Fig. 1

G22 Low Voltage															
1200	80		OC1200	37500	3300	BP	10.5x12.5	140	26	63.5	300	12	-	91580	2

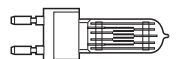


Fig. 2

SINGLE ENDED HALOGEN LAMPS

Watt	Volt	Ansi Code	LIF Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
G22 base															
500	120	EGN	-	13000	3200	MP	12x11.5	140	21	63.5	150	12	-	30373	2
650	230	FKH	CP39	16900	3200	MP	12x14.5	140	25	63.5	100	12	-	20320	2
650	240	FKH	CP39	16900	3200	MP	12x14.5	140	25	63.5	100	12	-	20321	2
1000	120	EGT	-	28500	3200	MP	14.5x14	140	22	63.5	250	12	-	39191	2
1000	230	FKJ	CP40	26000	3200	MP	18.5x17.5	140	26	63.5	200	12	-	39655	2
1000	240	FKJ	CP40	26000	3200	MP	18.5x17.5	140	26	63.5	200	12	-	20286	2
1200	240	-	CP93	33000	3200	BP	16x12	140	35	63.5	200	12	-	30384	3
2000	120	-	CP92	55000	3200	BP	18x17	175	40	90	400	12	-	30391	4
2000	230	-	CP92	52000	3200	BP	18.5x17	175	40	90	400	12	-	30394	4
2000	240	-	CP92	52000	3200	BP	18.5x17	175	40	90	400	12	-	30397	4
2500	230	-	CP91	67500	3200	BP	24x18	175	40	90	400	12	-	30415	4
2500	240	-	CP91	67500	3200	BP	24x18	175	40	90	400	12	-	30423	4

Burning position VBD ±90

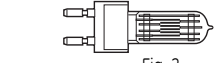


Fig. 2

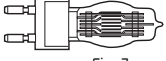


Fig. 3

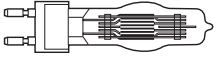


Fig. 4

Watt	Volt	Ansi Code	LIF Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
P28s base (medium prefocus)															
500	120	EGE	-	10450	2950	CC-8	18x5	152	13	88.9	2000	12	-	39135	2
500	120	BTM	-	13000	3200	MP	12x11.5	130	21	55.5	150	12	-	16465	5
500	230	FKF	T17	9500	2950	MP	13.5x14.5	130	21	55.5	750	12	-	30535	5
500	240	FKF	T17	9500	2950	MP	13.5x14.5	130	21	55.5	750	12	-	30536	5
500	230	-	T28	11000	3000	MP	15x12	130	12	55.5	300	12	-	39731	5
500	240	-	T28	11000	3000	MP	15x12	130	21	55.5	300	12	-	39733	5
650	230	FKB	T13	13500	3000	MP	15.5x14.5	130	25	55.5	750	12	-	30541	3
650	240	-	T13	13500	3000	MP	15.5x14.5	130	25	55.5	750	12	-	30542	3
650	230	FKM	CP51	16900	3200	MP	12x14.5	130	25	55.5	200	12	-	20323	3
650	240	-	CP51	16900	3200	MP	12x14.5	130	25	55.5	200	12	-	20324	3
1000	120	EGJ	-	27500	3200	CC-8	19x7	152	20	88.9	500	12	W	38853	2
1000	230	EWE	-	26500	3200	CC-8	24x6	152	20	88.9	250	12	W	30533	2
1000	230	FKD	T14	23000	3050	MP	17.5x17.5	130	35	55.5	750	12	-	20385	4
1000	240	EWE	-	26500	3200	CC-8	24x6	152	20	88.9	250	12	W	30534	2
1000	240	-	T14	23000	3050	MP	17.5x17.5	130	35	55.5	750	12	-	20388	4
1000	240	FKE	T15	23000	3050	MP	17.5x17.5	160	35	88.9	750	12	-	30532	1
1000	240	FKN	CP52	26000	3200	MP	18.5x17.5	130	35	55.5	200	12	-	30546	4

Burning position VBU ±90

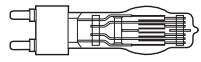


Fig. 1

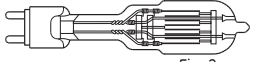


Fig. 2

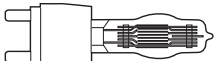


Fig. 3

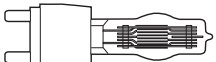


Fig. 4

Watt	Volt	Ansi Code	LIF Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
G38 base (mogul prefocus)															
1000	230	-	HX270	25000	3200	BP	15x12	216	35	127	200	12	-	35234	3
2000	120	CYX	HX270	59000	3200	MP	21.5x20.5	216	32	127	400	6	-	36636	3
2000	230	FKK	CP41	54000	3200	MP	22x22.5	216	32	127	400	12	-	31844	3
2000	240	FKK	CP41	54000	3200	MP	22x22.5	216	32	127	400	12	-	31849	3
2500	230	-	CP94	67500	3200	BP	24x18	210	40	127	400	12	-	30499	3
2500	240	-	CP94	67500	3200	BP	24x18	210	40	127	400	12	-	30500	3
3000	230	-	HX48	82000	3200	MP	24x26	210	47	127	400	12	K	30503	4
3000	240	-	HX48	82000	3200	MP	24x26	210	47	127	400	12	K	30504	4
5000	120	DPY	CP29	143000	3200	MP	31x36	280	65	165	500	6	-	41736	1
5000	230	-	CP29	135000	3200	MP	36x33	280	65	165	500	12	-	30505	1
5000	240	-	CP29	135000	3200	MP	36x33	280	65	165	500	12	-	30506	1
10000	220/230	-	CP83	280000	3200	MP	38x56	405	85	254	250	1	-	12036	2
10000	240	-	CP83	280000	3200	MP	39x56	405	85	254	250	1	-	12037	2

Burning position VBD ±90 except HX48 VBD ±45

Watt	Volt	Order code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.	
GX38 base – Single-ended High Wattage Halogen Lamps															
12000	230	Q12MT26/4CL	420000	3400	MP	37x56	410	254	85	130	1	-	48771	1	
12000	240	Q12MT26/4CL	420000	3400	MP	36x56	410	254	85	130	1	-	48779	1	
20000	230	BCM-020MT324CL	580000	3200	MP	50x92	560	354	103	400	1	-	48773	2	
20000	240	BCM-020MT324CL	580000	3200	MP	52x92	560	354	103	400	1	-	48774	2	
24000	230	Q24MT32/4CL	800000	3400	MP	46x92	560	354	103	150	1	-	48776	2	
24000	240	Q24MT32/4CL	800000	3400	MP	52x92	560	354	103	150	1	-	48777	2	

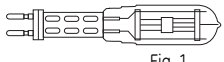


Fig. 1

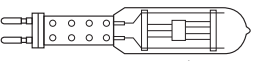
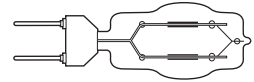


Fig. 2

SINGLE ENDED HALOGEN LAMPS

Watt	Volt	Ansi Code	LIF Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
GX38q base - Twin filament															
1250/650	230	-	CP105	27000/13000	3050	TF	24x18.5	220	55	143	250	12	L	34056	1
1250/650	240	-	CP105	27000/13000	3050	TF	24x18.5	220	55	143	250	12	L	34024	1
1250/1250	230	-	CP30	27000/56000	3200	TF	24x18.5(x2)	220	55	143	250	12	L	30513	1
1250/1250	240	-	CP30	27000/56000	3200	TF	24x18.5(x2)	220	55	143	250	12	L	30514	1
1250/2250	230	-	CP58	27000/59000/91000	3200	TF	27.5x25/24x22	220	70	143	300	12	L	30515	1
1250/2500	240	-	CP58	27000/59000/91000	3200	TF	27.5x25/24x22	220	70	143	300	12	L	30517	1
2500/2500	230	-	CP32	5900/127000	3200	TF	27.5x25(x2)	220	70	143	300	12	L	30518	1
2500/2500	240	-	CP32	5900/127000	3200	TF	27.5x25(x2)	220	70	143	300	12	L	30519	1

Burning position VBD ±45



Watt	Volt	Ansi Code	LIF Code	Lumen	CCT K	Filament	Fila. H x W	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
E40 base - Clear, Coil Filament															
2000	220/230	-	CP59	50000	3200	CC-8	40x7	190	30	133	300	12	W	29424	1
2000	240	-	CP59	50000	3200	CC-8	40x7	190	30	133	300	12	W	29426	1

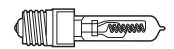


Fig. 1

E40 base - Frosted, Coil Filament															
1000	120	DKZ/DSE	-	28000	3200	CC-8	-	330	165	-	750	10	-	19926	2

DKX/DSF Burning position - any

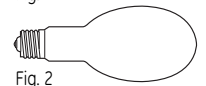


Fig. 2

P40s base (mogul prefocus)															
1000	240	-	T16	23000	3050	MP	17.5x17.5	180	35	87	750	12	-	30521	1
1500	120	DTA	T16	41000	3200	MP	19x17	200	40	87	300	6	-	30522	2
2000	230	-	CP53	54000	3200	MP	22x22.5	200	40	87	400	12	-	20311	2
2000	240	-	CP53	54000	3200	MP	22x22.5	200	40	87	400	12	-	20312	2

Burning position VBD ±90

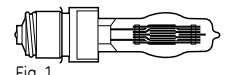


Fig. 1

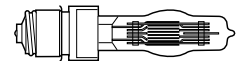
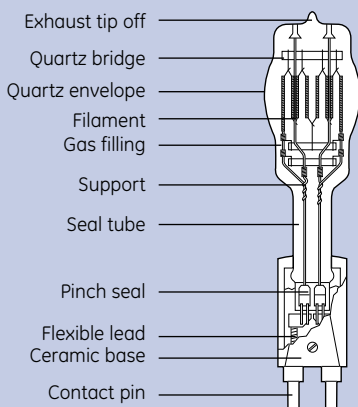
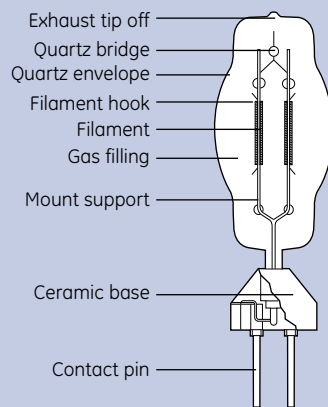


Fig. 2

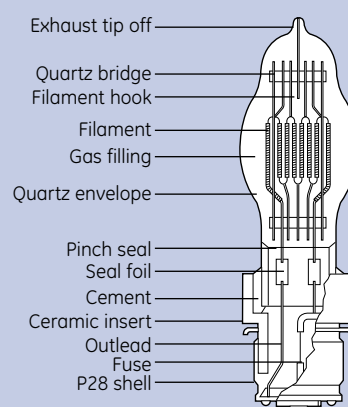
A typical high wattage studio lamp



A typical 4 pin twin filament studio lamp



A typical low wattage theatre class tungsten halogen lamp



Linear Halogen Lamps

This precision range of quartz-line lamps are widely used in television broadcast studios around the world.



P2/27



CNBC Europe's Studio. CNBC, the 24-hour global business television news channel



Linear Halogen Lamps

Watt	Volt	LIF Code	Order Code	Lumen	CCT K	Filament	Dimension A	Dim. B	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
Double-Ended Quartzline® Lamps with R7s Caps													
Length 79.4mm													
650	120	P2/6	FAD	16500	3200	CC-8	79.4	13.5	100	24	C	30325	1
800	230	P2/13	DXX	21400	3200	CC-8	79.4	13.5	75	24	C	36952	1
800	240	P2/13	DXX	21400	3200	CC-8	79.4	13.5	75	24	C	36953	1
Length 95.3mm													
1000	120	-	DXW	28000	3200	CC-8	95.3	16	150	24	-	30157	2
1000	120	-	FBY	26000	3200	CC-8	95.3	16	150	24	Frost	30374	2
Length 119.1mm - Burn Horizontal ±4°													
300	120	-	EHM	6200	2950	C-8	119.1	11	2000	6	-	43703	1
500	120	-	FCL	11100	3000	C-8	119.1	11	2000	12	-	23731	1
750	120	-	EJG	20600	3200	C-8	119.1	11	400	12	-	23756	1
800	240	P2/11	EME/Clear	22000	3200	C-8	119.1	11	150	12	-	23760	1
800	240	P2/11	EMF/Frosted	21400	3200	C-8	119.1	11	150	12	-	23761	1
1000	120	P2/28	FCM	28000	3200	C-8	119.1	11	400	12	-	23797	1
Length 142.9mm - Burn Horizontal ±4° - RX7s Caps													
2000	230	P2/27	FEX	50000	3200	CC-8	142.9	30	300	12	-	35338	2
2000	240	P2/27	FEX	50000	3200	CC-8	142.9	30	300	12	-	35339	2
2000	120	P2/27	FEY	57000	3200	CC-8	142.9	30	400	12	-	39790	2
Length 189.1mm - Burn Horizontal ±4°													
625	230	P2/10	-	16900	3200	C-8	189.1	12	300	12	-	19697	1
625	240	P2/10	-	16900	3200	C-8	189.1	12	300	12	-	19698	1
1000	230	P2/7	EKM	28000	3200	C-8	189.1	12	300	12	-	20249	1
1000	240	P2/7	EKM	28000	3200	C-8	189.1	12	300	12	-	20253	1
1250	230	P2/12	-	35000	3200	C-8	189.1	12	300	12	-	19695	1
1250	240	P2/12	-	35000	3200	C-8	189.1	12	300	12	-	19696	1

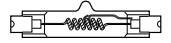


Fig. 1

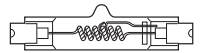


Fig. 2

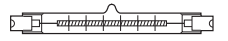


Fig. 1

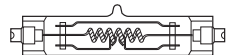


Fig. 2

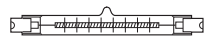
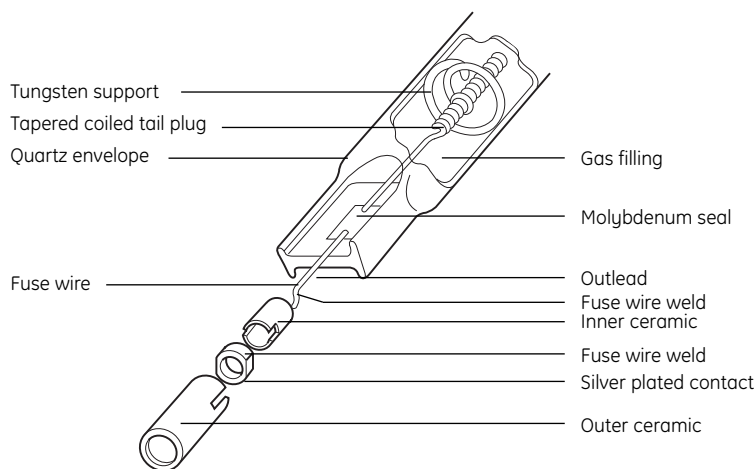


Fig. 1

End section of a typical quartz linear tungsten halogen lamp



Specialist Projector Lamps

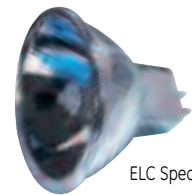
A full range of specialist projection lamps designed to deliver excellent optical performance and reliability.



Projector



Single Ended Capsules



ELC Specialist Projector



Overhead Projector, ACCO UK



Specialist Projector Lamps

Watt	Volt	ANSI Code	LIF Code	Lumen	Burning position	Filament	Fila. H x W"	CCT K	Dimension A	Dim. C	Life (hours)	Cap	Pack Qty	Note	Product Code	Fig. No.
Single-ended Quartzline™- Projector Lamps																
30	6.6	EXL	-	375	-	C-8	3.3x1.3	2900	44.5	25	1000	GZ9.5	24	M	11478	-
30	10.8	DZA	-	800	BDTH	C-6	3.8x1.3	3100	51	27	400	G5.3	24	M	37346	4
50	12	BRL	A1/220	1400	BDTH	C-6	3.3x1.6	3400	44	30	50	G6.35	100	M	18234	1
100	12	FCR	A1/215	3500	BDTH	C-6	5.1x3.8	3300	44	30	50	GY6.35	100	M	14876	1
100	12	FDT	A1/261	2900	BDTH	C-6 Oval	5.8x3.8	3300	54	27	50	GZ9.5	24	M	35321	8
120	6.6	EVV	-	3150	-	C-6 Oval	6.4x3	3200	64	39	500	GZ9.5	24	M	10099	-
150	6.6	EWR	-	4100	-	C-6 Oval	6.4x4.1	3200	64	39	500	GZ9.5	24	M	11427	-
150	15	BRJ/EVB	A1/234	5000	BDTH	C-6 Oval	4.8x3.0	3400	44	30	50	G6.35	100	M	18235	1
150	24	DZE/FDS	A1/262	5000	BDTH	C-6 Oval	6.4x3.8	3250	68	33	100	GZ9.5	24	M	37695	8
150	24	FCS	A1/216	4500	BDTH	C-6 Oval	6.4x3.8	3300	51	30	50	G6.35	100	M	13598	1
175	24	EML	-	5000	BDTH	C-6	5.3x4.8	3200	54	27	125	G5.3	24	M	42612	3
250	24	EHJ	A1/223	9000	BDTH	C-6 Oval	7.6x3.8	3400	57	33	50	G6.35	100	M	14874	1
275	24	FNT	-	10000	BDTH	C-6 Oval	3.5x7.1	3400	57	33	50	G6.35	100	M	18241	1
300	24	FLW	-	10200	BDTH	C-6 Oval	8.6x5.8	3500	55	33	50	GY6.35*	20	M	19886	2
400	36	EVD	A1/239	16000	BDTH	C-6 Oval	9.4x4.7	3200	60	36	50	GY6.35	25	M	41164/47420	1
400	36	-	A1/270	14500	BDTH	CC	9x4.6	-	57	36	150	GY6.35	100	M	30888	7
500	230	-	HX501	11500	BDTH	-	-	3050	60	46	300	GX9.5	24	M	35484	5
600	120	DYS	A1/264	17000	BDTH	CC-6	12.7x6.4	3200	64	37	75	GZ9.5	24	CM	32955	9
600	120	FFJ	-	17000	-	CC-8	-	3250	-	-	85	R7S	24	-	29592	-
650	230	DYR	A1/233	16500	Any	2CC-8	11.4x11.4	3200	64	37	50	GZ9.5	24	CMN	26896	10
650	240	DYR	A1/233	16500	Any	2CC-8	11.4x11.4	3200	64	37	50	GZ9.5	24	CM	26895	10
800	230	-	HX185	19000	BDTH	-	-	3050	100	53	300	GX9.5	24	M	30949	6
800	240	-	HX185	19000	BDTH	-	-	3050	100	53	300	GX9.5	24	M	35232	6
1000	120	BRH	-	30000	-	CC-8	-	3350	-	-	60	R7S	24	-	29604	-

* Ceramic

Watt	Volt	LIF Code	Lumen	Burning position	Filament	Dimension A	Dim. B	Dim. C	Life (hours)	Cap	Pack Qty	Note	Product Code	Fig. No.
A1 Class Projector Bulbs														
150	220/230	A1/248	3000	BDTH	MP	62	16.3	40	50	G6.35	50	MT	30584	1
150	240	A1/248	3000	BDTH	MP	62	16.3	40	50	G6.35	50	MT	30585	1
300	220/230	A1/249	7200	BDTH	MP	62	16.3	40	50	G6.35	50	MNT	30587	1
300	240	A1/249	7200	BDTH	MP	62	16.3	40	50	G6.35	50	MNT	30588	1
500	220/230	A1/244	13000	BDTH	MP	75	28.5	36.5	75	GY9.5	24	MN	39643	2
500	240	A1/244	13000	BDTH	MP	75	28.5	36.5	75	GY9.5	24	MN	39644	2
650	240	A1/247	17750	BDTH	MP	75	28.5	36.5	75	GY9.5	24	MP	39650	2
800	220/230	A1/245	21500	BDTH	MP	87	28.5	44.5	75	GY9.5	24	MP	39648	2
800	240	A1/245	21500	BDTH	MP	87	28.5	44.5	75	GY9.5	24	MP	39649	2

Watt	Volt	ANSI Code	LIF Code	Lumen	CCT K	Burning position	Fila-ment	Dimension A	Dim. C	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
G17q cap														
500	240	-	A1/241	-	3200	BDTH	BP	83	40	50	24	MNSTQ	39727	5
500	220	EPS	A1/268	-	3250	BDTH	MP	94	40	50	24	MNS	39728	4
500	240	EPS	A1/268	-	3250	BDTH	MP	94	40	50	24	MNS	39729	4

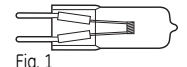


Fig. 1



Fig. 2

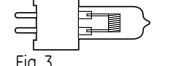


Fig. 3

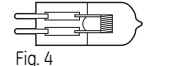


Fig. 4



Fig. 5



Fig. 6

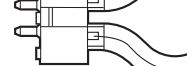


Fig. 7

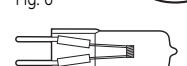


Fig. 8

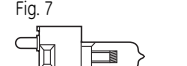


Fig. 9



Fig. 10



Fig. 11

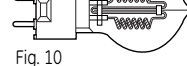


Fig. 12



Fig. 13



Fig. 14

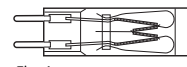


Fig. 15

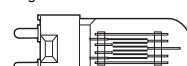


Fig. 16



Fig. 17

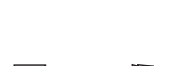


Fig. 18



Fig. 19

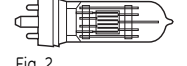


Fig. 20

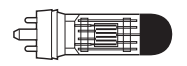


Fig. 21

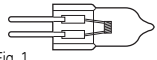


Fig. 1

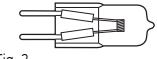


Fig. 2

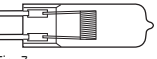


Fig. 3

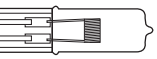


Fig. 4

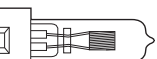


Fig. 5



Fig. 6

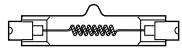


Fig. 1

Single-ended Tungsten Halogen Lamps

Watt	Volt	LIF Code	Lumen	CCT K	Filament	Dimension A	Dimension B	Dimension C	Life (hours)	Cap	Pack Qty	Product Code	Fig. No.
Low Voltage single-ended capsule													
10	6	M29/ESA	200	3200	Trans	30	10	19.5	100	G4	20	34720	1
20	6	M30/ESB	450	3200	Trans	30	10	19.5	100	G4	20	34718	1
50	12	M32	930	3000	Trans	44	12	30	4000	GY6.35	20	34702	2
100	12	M28/EVA	2400	3000	C-6 Oval	44	12	30	2000	GY6.35	20	34676	3
250	24	M33	8600	3000	C-6 Oval	55	13.5	33	300	G6.35	100	34768	3
250	24	M36	5750	3000	C-6 Oval	58	15	30	2000	G6.35	100	29231	4
Mains Voltage single-ended capsule													
300	120	M38	5500	2900	CC	80	28.5	45.5	2000	GY9.5	24	39786	4
300	220/230	M38	5000	2900	CC	80	28.5	45.5	2000	GY9.5	24	39785	4
300	240/250	M38	5000	2900	CC	80	28.5	45.5	2000	GY9.5	24	39784	4
500	220/230	M40	8500	2900	SC	85	30	45.5	2000	GY9.5	24	39621	5
500	240/250	M40	8500	2900	SC	85	30	45.5	2000	GY9.5	24	39622	5

Double-ended lamps with R7s caps

Watt	Volt	ANSI Code	LIF Code	Application	CCT K	Filament	Dimension A	Dimension B	Life (hours)	Pack Qty	Note	Product Code	Fig. No.
Linear Projector Lamps													
375	30	DWZ	A1/226	Overhead projector	3000	CC-8	80.9	10	1000	24	M	29578	1
420	120	FAL	A1/227	Overhead projector	3200	CC-8	66.5	13.5	75	24	M	29581	1

Multi-Mirror® Quartzline® Projection lamps

Watt	Volt	ANSI Code	LIF Code	Application	CCT K	Filament	Dimension A	Dimension B	Working distance	Life (hours)	Cap	Pack Qty	Note	Product Code	Fig. no
MR-16 Faceted Dichroic Reflector															
30	10.8	EKZ	-	16mm projection	3100	C-6	44.45	50.67	40	200	GX5.3	20	MV	36902	1
50	13.8	DJT	-	Microfilm	3150	CC-6	44.45	50.67	155	1000	GX5.3	20	MV	44854	1
50	8	EFM	A1/229	8mm projection	3300	C-6	44.45	50.67	32	50	GZ6.35	20	MV	21276	2
75	12	EFN	A1/230	8mm projection	3350	CC-6	44.45	50.67	32	50	GZ6.35	20	MV	21277	2
80	19	DDM	-	Slide projection	3350	CC-6	44.45	50.67	155	50	GX5.3	20	MV	43206	1
80	21	DDS	-	Microfilm	3125	CC-6	44.45	50.67	165	1000	GX5.3	20	MV	43988	1
85	13.8	DED	-	Microfilm	3150	CC-6	44.45	50.67	165	1000	GX5.3	20	MV	43950	1
100	12	EFP	A1/231	8mm projection	3350	CC-6	44.45	50.67	32	50	GZ6.35	20	MV	21278	2
150	15	EFR	A1/232	8mm projection	3350	CC-6	44.45	50.67	32	50	GZ6.35	20	MV	21279	2
150	20	DDL	-	Microfilm	3150	CC-6	44.45	50.67	200	500	GX5.3	20	MV	43537	1
150	21	ELD/EJN	-	Microfilm	3350	CC-6	44.45	50.67	165	40	GX5.3	20	MV	38306	1
150	21	EJM	-	8mm projection	3350	CC-6	44.45	50.67	40	40	GX5.3	10	MV	29151	1
150	21	EKE	-	8mm projection	3250	CC-6	44.45	50.67	45	200	GX5.3	20	MV	35200	1
200	24	EKX	-	Microfilm	3400	CC-6	44.45	50.67	145	25	GX5.3	20	MV	36899	1
200	24	EJL	A1/252	16mm, Colour printer	3400	CC-6	44.45	50.67	32	50	GX5.3	20	MV	29150	1
250	24	ELC	A1/259	16mm, Colour printer	3400	CC-6	44.45	50.67	30	50	GX5.3	20	MV	37462	1
250	24	ELC500	-	Disco	3250	CC-6	44.45	50.67	30	500	GY5.3	20	MV	15377	1
250	120	ENH	-	Slide projection	3250	CC-8	44.45	50.67	155	175	GY5.3	20	MV	38686	3
300	120	ELH	-	Slide projection	3350	CC-8	44.45	50.67	155	35	GY5.3	10	MV	38476	1
300	120	ENG	-	Slide projection	3450	CC-8	44.45	50.67	155	15	GY5.3	10	MV	38685	3

Watt	Volt	ANSI Code	LIF Code	Application	CCT K	Filament	Dimension A	Dimension B	Working distance	Life (hours)	Cap	Pack Qty	Note	Product Code	Fig. no	
MR-16 Dichroic Reflector																
80	19	EJY	-	Fibre optics	3400	CC-6	44.45	50.67	40	25	GX5.3	20	MV	32886	1	
80	30	ELB	-	8mm projection	3400	CC-6	44.45	50.67	32	18	GX5.3	20	MV	37412	1	
150	21	EJA	-	Fibre optics	3350	CC-6	44.45	50.67	28	40	GX5.3	20	MV	32882	2	
150	21	EJV	-	8mm projection	3350	CC-6	44.45	50.67	45	40	GX5.3	20	MV	32831	2	
MR-16 Dichroic Reflector																
150	21	DNF	A1/266	8mm projection	3400	CC-8	Horiz	45	50	40	25	GX7.9	20	MV	39742	1



Multi-Mirror® Quartzline® Projection lamps

Watt	Volt	ANSI Code	Application	CCT K	Filament	Dimension A	Dimension B	Working distance	Life (hours)	Cap Qty	Pack	Note	Product Code	Fig. no
MR-16 Faceted Dichroic Reflector														
25	13.8	FHX	Microfilm	3200	CC-6	44.45	50.67	110	250	GX5.3	20	MV	47914	1
42	10.8	EPT	Fibre optics	2900	C-6	44.45	50.67	40	8000	GX5.3	20	MV	41729	1
50	12	ENL	Fibre optics*	3050	C-6	44.45	50.67	40	4000	GX5.3	20	MV	25475	1
50	13.8	EPZ	Microfilm	3150	CC-6	44.45	50.67	110	1000	GX5.3	20	MV	43948	1
50	13.8	FML	Microfilm	3150	CC-6	44.45	50.67	215	1000	GX5.3	20	MV	14887	1
80	19	ENW/ENC	8mm projection	3200	CC-6	44.45	50.67	45	200	GX5.3	10	MV	40248	1
90	14.5	EPV	Microfilm	3150	CC-6	44.45	50.67	155	500	GX5.3	20	MV	41882	1
90	14.5	EPX	Microfilm	3150	CC-6	44.45	50.67	165	500	GX5.3	20	MV	42614	1
150	120	ESD	Enlarger, projection	3350	CC-8	44.45	50.67	45	12	GY5.3	20	MV	43756	2
150	120	EZK	Camera light	3200	CC-8	44.45	50.67	-	200	GY5.3	20	MV	15477	2
200	24	EWf	Overhead projection	3300	CC-8	44.45	50.67	300	50	GX5.3	20	MV	11132	2
200	82	EVA	Enlarger	3300	CC-8	44.45	50.67	-	50	GY5.3	20	MV	13152	2
250	82	EVW	Overhead projection	3300	CC-8	44.45	50.67	300	50	GY5.3	20	MV	11110	2
250	120	EXX	Camera light	3300	CC-8	44.45	50.67	-	25	GY5.3	20	MV	11750	2
340	36	ERV	Overhead projection	3300	CC-8	44.45	50.67	300	75	GX5.3	20	MV	41874	2
360	100	EPW	Overhead projection	3250	CC-6	44.45	50.67	300	75	GY5.3	20	MV	41702	2
360	82	ENX	Overhead projection	3300	CC-8	44.45	50.67	300	75	GY5.3	20	MV	41705	2
410	82	FXL	Overhead projection	3300	CC-8	44.45	50.67	300	38	GY5.3	20	MV	21613	2

* Display lighting

MR-11 Faceted Dichroic Reflector														
28	13.8	FLT	Microfilm	3050	CC-6	40	35.3	76 or 175	500	GZ4	10	MV	25621	1

MR-13 Faceted Dichroic Reflector														
250	82	EXY	Slide projection	3200	CC-8	44.4	42.4	150	200	GX5.3	10	MV	12097	2
225	68	EZF/EZJ	Colour printer		CC-8	44.4	42.4	-	500	GX5.3	10	MV	15832	2
300	82	EXR	Slide projection	3350	CC-8	44.4	42.4	150	35	GX5.3	10	MV	12092	2
300	82	EXW	Slide projection	3450	CC-8	44.4	42.4	150	15	GX5.3	10	MV	12095	2
300	82	FHS	Slide projection	3300	CC-8	44.4	42.4	150	70	GX5.3	10	MV	47614	2

G7.9 Vented Cap Reflector Quartzline®

Watt	Volt	ANSI Code	LIF Code	Application	Burning position	CCT K	Filament	Dimension A	Dimension B	Working distance	Life (hours)	Cap Qty	Pack	Product Code	Fig. no
MR-14 Dichroic Reflector															
50	16	ELS/ELR	-	Microfilm	BDTH	3100	CC-6	36	44.4	120	650	GX7.9	24	41885	1
250	24	EMM/EKS	A1/258	16mm projection	BDTH	3400	CC-6	42.2	44.4	67	50	GX7.9	24	40017	1

Gemini and Marc lamps should be operated with the plane of the reflector vertical.

These lamps should not be operated for periods of less than three minutes since short operating cycles reduce life and degrade performance.

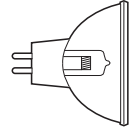


Fig. 1

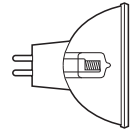


Fig. 2

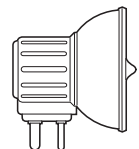


Fig. 1

Discharge Lamps

New CSR & CSD lamps have been introduced to increase the range of discharge products for use in Stage & Studio applications.

GE UV Control lamps are the newest addition to the GE hot restrike line of entertainment metal halide lamps.

- 95% Reduction of UVB and UVC
- Greater than 85% reduction of total UV emissions
- 5600 Kelvin colour temperature
- No reduction in lumen output



CSD 250/2



CSR 575/2



Discharge Lamps

Watt	Volt	Description	Finish	CCT K	Lumen	Burning position	Life (hours)	Pack Qty	Cap	Product Code	Fig. No.
Single Ended Hot Restrike											
125	80	CSR125/SE/HR	CLEAR	5600	9400	UNIVERSAL	200	10	GZY9.5	48461	1
200	80	CSR200/SE/HR	CLEAR	5600	15000	UNIVERSAL	200	10	GZY9.5	48462	1
400	70	CSR400/SE/HR	CLEAR	5900	32000	UNIVERSAL	750	10	GZZ9.5	21853	1
575	95	CSR575/SE/HR	CLEAR	6000	48000	UNIVERSAL	750	10	G22	48463	2
800	95	CSR800/SE/HR	CLEAR	6000	64000	UNIVERSAL	750	6	G22	22495	2
1200	100	CSR1200/SE/HR	CLEAR	6000	110000	UNIVERSAL	750	6	G38	48464	3
2500	115	CSR2500/SE/HR	CLEAR	6000	220000	UNIVERSAL	500	6	G38	48465	4
4000	200	CSR4000/SE/HR	CLEAR	6000	380000	UNIVERSAL	500	6	G38	48466	4
6000	123	CSR6000/SE/HR	CLEAR	6000	540000	UNIVERSAL	300	6	G38	48467	5
12000	160	CSR12000/SE/HR	CLEAR	6000	1100000	UNIVERSAL	250	4	G38	48468	5
18000	225	CSR18000/SE/HR	CLEAR	6000	1650000	UNIVERSAL	250	1	G51	22496	5
Single Ended Cold Start											
150	95	CSR152/SE	CLEAR	5000	10000	UNIVERSAL	2000	10	GY9.5	22862	1
250	90	CSD250/2/SE	CLEAR	8500	18000	UNIVERSAL	2000	10	GY9.5	27817	1
575	95	CSR575/2/T/SE	CLEAR	7200	49000	UNIVERSAL	1000	10	GX9.5	49492	1
575	95	CSR575/2/SE	CLEAR	7200	49000	UNIVERSAL	1000	10	GX9.5	15378	2
700	72	CSR700/2/SE	CLEAR	7200	55000	UNIVERSAL	1000	10	G22	49491	2
1200	100	CSR1200/2/SE	CLEAR	7200	110000	UNIVERSAL	1000	6	G22/30x53	49490	2
Double Ended Hot Restrike											
200	80	CSR200/DE	CLEAR	6000	16000	HORIZONTAL±15°	300	10	X515	48450	1
400	49E	CSR400/S/DE	CLEAR	7500	26000	ANY	750	10	SFc 10-4 SI/M4	22478	1
575	95	CSR575/DE	CLEAR	6000	49000	HORIZONTAL±15°	750	10	SFc 10-4 SI/M4	48451	2
700	70E/73M	CSR700/S/DE	CLEAR	7500	59000	ANY	750	10	SFc 10-4 SI/M4	22493	2
1200	95E/100M	CSR1200S/DE	CLEAR	6000	110000	ANY	750	10	SFc 10-4 SI/M4	22494	2
1200	100	CSR1200/DE	CLEAR	6000	110000	HORIZONTAL±15°	750	10	SFc 10-5-6 Sleeve/Thd.Pin M6	48453	2
2500	115	CSR2500/DE	CLEAR	6000	240000	HORIZONTAL±15°	500	6	Sta 21-12	48454	3
4000	200	CSR4000/DE	CLEAR	6000	410000	HORIZONTAL±15°	500	6	Sta 21-12	48455	3
6000	125	CSR6000/DE	CLEAR	6000	570000	HORIZONTAL±15°	300	10	25x51 cylinder LEAD 165mm	48456	3
12000	160	CSR12000/DE	CLEAR	6000	1100000	HORIZONTAL±15°	300	10	30x70 cylinder LEAD 165mm	48457	4
18000	225	CSR18000/DE	CLEAR	6000	1650000	HORIZONTAL±15°	300	6	30x70 cylinder LEAD 165mm	48459	4
18000	225	CSR18000S/DE	CLEAR	6000	1650000	HORIZONTAL±15°	300	6	30x70 cylinder LEAD 165mm	48460	4
Short Arc											
700	70	CSR700SA	CLEAR	5600	58000	UNIVERSAL	750	10	GY9.5	15380	1
1200	100	CSR1200SA	CLEAR	6000	96000	UNIVERSAL	750	6	GY22	21849	1
1800	TBA	CSR2000SA	CLEAR	5600	155000	UNIVERSAL	750	6	GY22	21801	1

Discharge lamps must be operated in an enclosed fixture.
Discharge lamps require control gear.

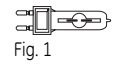


Fig. 1

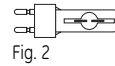


Fig. 2



Fig. 3

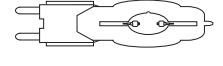


Fig. 3

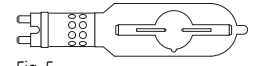


Fig. 5



Fig. 1



Fig. 1

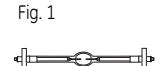


Fig. 2



Fig. 3



Fig. 3



Fig. 4



Fig. 4



Fig. 1

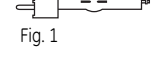
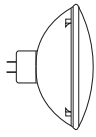


Fig. 1

Ceramic Metal Halide (CMH)



Watt	Volt	Description	Lens Style	CCT K	CRI	Beam	Beam 10%	Beam 50%	MPBC	Life (hours)	Pack Qty	Cap	Product Code
CMH PAR64 – Architainment													
150	95	CMH150/PAR64/830/GX16d/SP 1/6	Stipple	3000	80+	Narrow	9x9	4x4	240000	8000	6	GX16d	16958
150	95	CMH150/PAR64/830/GX16d/MFL 1/6	8-Bar	3000	80+	Medium	18x15	13x11	80000	8000	6	GX16d	16959
150	95	CMH150/PAR64/830/GX16d/WFL 1/6	12-Bar	3000	80+	Wide	25x20	18x15	33000	8000	6	GX16d	16960
150	100	CMH150/PAR64/942/GX16d/SP	Stipple	4200	90+	Narrow	9x9	4x4	240000	8000	6	GX16d	16961
150	100	CMH150/PAR64/942/GX16d/MFL	8-Bar	4200	90+	Medium	18x15	13x11	80000	8000	6	GX16d	16962
150	100	CMH150/PAR64/942/GX16d/WFL	12-Bar	4200	90+	Wide	25x20	18x15	33000	8000	6	GX16d	16963

Discharge lamps must be operated in an enclosed fixture.
Discharge lamps require control gear.

CMH PAR 56 Architainment

150	95	CMH150/PAR56/830/GX16d/SP	Stipple	3000	80+	Narrow	68X63	14X19	80000	5000	6	GX16d	22693*
150	95	CMH150/PAR56/830/GX16d/MFL	8-Bar	3000	80+	Medium	74X65	19X22	60000	5000	6	GX16d	22694*
150	95	CMH150/PAR56/830/GX16d/WFL	12-Bar	3000	80+	Wide	81X67	29X23	50000	5000	6	GX16d	22696*
150	100	CMH150/PAR56/942/GX16d/SP	Stipple	4200	90+	Narrow	68X63	14X19	80000	5000	6	GX16d	22697*
150	100	CMH150/PAR56/942/GX16d/MFL	8-Bar	4200	90+	Medium	74X65	19X22	60000	5000	6	GX16d	22700*
150	100	CMH150/PAR56/942/GX16d/WFL	12-Bar	4200	90+	Wide	81X67	29X23	50000	5000	6	GX16d	22702*

CSR UV Control Lamps

Watt	Cap	CCT K	Lumens	Order Description	Avg. Rated Life	Pack Qty	Product Code
575	G22	5600	49000	CSR575/SE/HR/UV-C	750	10	40460
800	G22	5600	64000	CSR800/SE/HR/UV-C	1000	10	22495
1200	G22	5600	110000	CSR1200/SE/HR/UV-C	750	6	27746
2500	G22	5600	220000	CSR2500/SE/HR/UV-C	500	6	40482
4000	G22	5600	380000	CSR4000/SE/HR/UV-C	500	6	27765
6000	G22	5600	540000	CSR6000/SE/HR/UV-C	300	6	40492

CSS

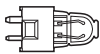


Fig. 1

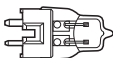


Fig. 2

Watt	Volt	Order Code	Lumen	CCT K	CRI	Dimension A	Dim. B	Dim. C	Life (hours)	Pack Qty	Product Code	Fig. No.
Base: GY9.5 - Burning position: VBD±90												
140	85	CSS150/850/GY9.5	10000	5000	80	48	22	30	1000	10	34813	1
575	95	CSS575/855/GY9.5	40250	5500	85	94	22	52	500	10	34822	2

CSI/CID Lamps

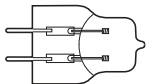


Fig. 3

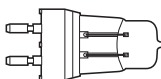


Fig. 4

Watt	Volt	Order Code	Lumens 100 hrs	Lumen maintenance	CCT K	CRI	Life (hours)	Pack Qty	Product Code	Fig. No.
(Compact Source Iodide/Compact Iodide Daylight)										
Special bipin base (2 pin 9mm) - Burning position: VBD±90										
400	100	99-0201 CSI	32000	85% at 500 hrs	4000±400	80	500	1	30555	3
G22 base (medium bipost)										
Burning position: VBD±90										
1000	77	99-0221 CSI	90000	85% at 500 hrs	4000±400	80	500	1	30558	4

Discharge lamps must be operated in an enclosed fixture.
Discharge lamps require control gear.



Watt	Volt	Order Code	Axial intensity Cd	Angle 1/2	Angle 1/10	CCT K	CRI	Life (hours)	Pack Qty	Product Code	Fig. No.
G38 base (mogul bipost)											
Burning position: HOR±90											
1000	77	99-1222 CSI CS	1350000	6	18	3800±500	80	3500	1	29333	4
1000	77	99-1422 CSI HR	1350000	6	18	3800±500	80	3500	1	29336	4

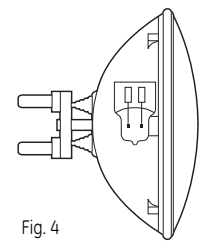


Fig. 4

Watt	Volt	Order Code	Lumens 100 hrs	Lumen maintenance	CCT K	CRI	Life (hours)	Pack Qty	Product Code	Fig. No.
G22 base (medium bipost)										
Burning position: VBD±90										
575	95	99-0415 CID	40250	90% at 500 hrs	5500±400	85	500	1	30563	1
1000	77	99-0222 CID	70000	90% at 500 hrs	5500±400	85	500	1	30561	2

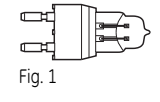


Fig. 1

Watt	Volt	Order Code	Axial intensity Cd	Angle 1/2	Angle 1/10	CCT K	CRI	Life (hours)	Pack Qty	Product Code	Fig. No.
G38 base (mogul bipost)											
Burning position: HOR±90											
1000	77	99-1225 CID CS	850000	8	20	5500±400	85	1500	1	30360	4
1000	77	99-1425 CID HR	850000	8	20	5500±400	85	1000	1	30371	4
1200	100	99-1435 CID HR	820000	9	18	5500±400	85	1000	1	30372	4

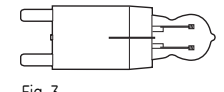
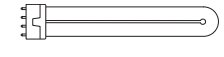


Fig. 3

Discharge lamps must be operated in an enclosed fixture.
Discharge lamps require control gear.

Cinema Lamps

Watt	Order Code	Description	Life (hours)	Pack Qty	Product Code	Fig.No.
Cinema High Lumen Biax™						
55	F55BX/CINEMA32	Indoor	10000	10	41869	1
55	F55BX/CINEMA56	Daylight	10000	10	41873	1
Cinema Plus Biax™						
55	F55BX/CINPLUS/32	Indoor	40	10	41903	1
55	F55BX/CINPLUS/55	Daylight	40	10	41911	1
Cinema Lamps 32 & 55 T8						
32	F32T8/CIN55/CVG	Daylight	20000	36	47882	2
32	F32T8/CIN32/CVG	Indoor	20000	36	47881	2



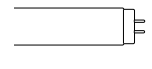
CVG = These lamps feature GE's exclusive CovRguard coating

T12						
35	F20T12/CINEMA32/HO/CVG	Indoor	7000	24	15775	2
35	F20T12/CINEMA55/HO/CVG	Daylight	7000	24	15776	2
75	F40T12/CINEMA32/HO/CVG	Indoor	12000	30	15782	2
75	F40T12/CINEMA55/HO/CVG	Daylight	12000	30	15783	2
85	F72T12/CINEMA32/HO/CVG	Indoor	12000	15	15785	2
85	F72T12/CINEMA55/HO/CVG	Daylight	12000	15	15786	2
110	F96T12/CINEMA32/HO/CVG	Indoor	12000	15	15794	2
110	F96T12/CINEMA55/HO/CVG	Daylight	12000	15	15798	2



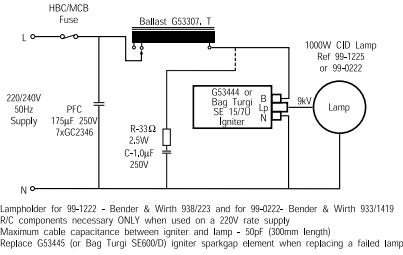
Fluorescent Cinema Lamps - life on rapid start ballast
CVG = These lamps feature GE's exclusive CovRguard coating

Watt	Order Code	Description	Dimension A	Life (hours)	Pack Qty	Product Code	Fig.no
Blacklight Blue (produce long wave ultra-violet light)							
T12							
20	F20T12/BLB	Blacklight Blue	600	9000	6	34747	2
40	FT40T12/BLB	Blacklight Blue	1200	20000	6	25618	2

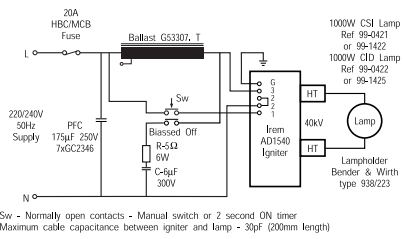


Circuit diagrams

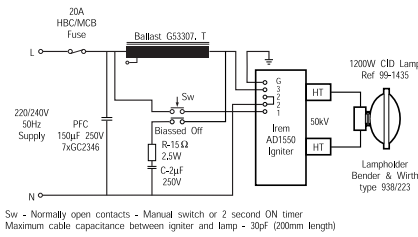
1000 Watt CID Lamp Circuit Diagram



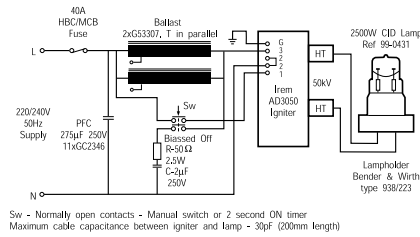
1000 Watt CSI/CID Hot-Restart Lamp Circuit Diagram



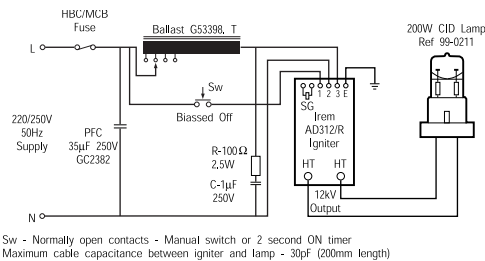
1200 Watt CID Hot-Restart Lamp Circuit Diagram



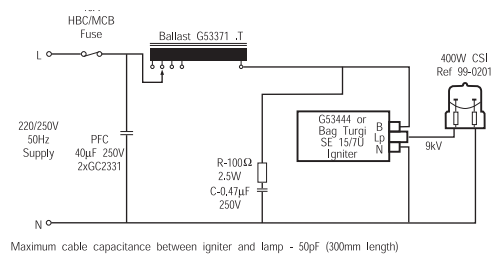
2500 Watt CID Hot-Restart Lamp Circuit Diagram



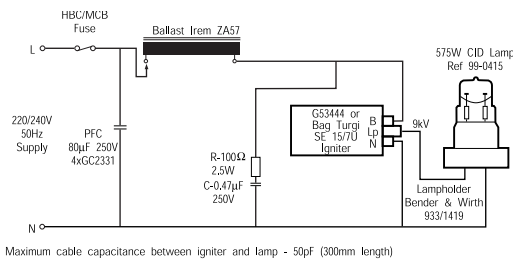
200 Watt CID Hot-Restart Lamp Circuit Diagram



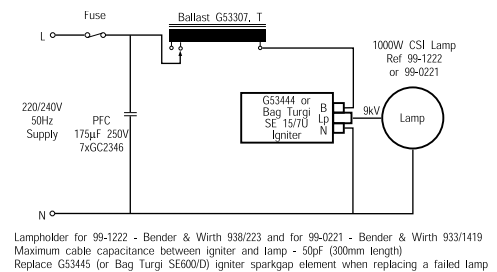
400 Watt CSI Lamp Circuit Diagram



575 Watt CID Lamp Circuit Diagram



1000 Watt CSI Lamp Circuit Diagram



Explanation of codes

Lamps listed in this catalogue are those designed for use as follows:

A1 Prefix – L.I.F. (Lighting Industries Federation) reference indicates lamps which were primarily designed for use with slide, film and overhead projectors.

ANSI Codes – These are 3-letter codes assigned by the American National Standards Institute. They provide a system for assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers.

CP Prefix – Lamps designed for use in conjunction with film balanced for 3200K. These are single ended types intended for use in Fresnel/ellipsoidal luminaires etc.

Special and Experimental Lamps

In addition to these standard ranges, a number of similar types are available to special order and in most cases, a minimum order quantity will apply. These include non-standard voltage ranges of some types e.g. 100V, 100/115V, 120V and also a number of types which have the GE "HX" or "THE" prefix.

P2 Prefix – Again for use with 3200K film stock for open faced luminaires and video sun guns.

P1 Prefix – For use with 3400K film stock.

T Prefix – Lamps intended for theatre luminaire applications. These are of lower colour temperature (2900 - 3050K) and longer life than the often similar CP types above.

C.S.I. – Discharge lamps with a colour temperature of around 4000K for outside broadcast and follow spot use.

C.I.D. – Discharge lamps with a colour temperature of 5500–6000K for location filming and applications such as disco lighting where a very bright compact source is required.

Lamp Bases

The listings use the IEC International designations for lamp bases. Where appropriate, alternative local descriptions are appended.

Incandescent tungsten halogen lamps

Filament Format

The listings use the following codings for filament shape:

S.C. – Axial Single Coil – equivalent to ANSI C8

C.C. – Axial Coiled Coil – equivalent to ANSI CC8

M.P. – Monoplane Grid – equivalent to ANSI C13

B.P. – Biplane Grid – equivalent to ANSI C13D

T.F. – Twin Monoplane Grid – equivalent to ANSI 2C13

S.C.H. – Single Coil Hexagonal – equivalent to ANSI 6-C8

S.C.S. – Single Coil Square – equivalent to ANSI 4-C8

As the result of extensive and sustained development work, much of it original, GE is able to offer a comprehensive range

due to the GE policy of exploiting the important advantages of compact size offered by quartz halogen construction.

CP Range of Lamps for Fresnel and Spotlight Fittings

of lamps of quartz construction, operating on the tungsten halogen principle for all Television Studio, 'motion picture', and Theatre lighting purposes.

GE has been strongly supported by the television and film industries in its decision to discontinue glass lamps for studio lighting purposes. This is because the industry has appreciated the financial advantages of quartz halogen lamps, their reliability and virtually constant colour temperature.

The increase in the use of the lamps we now manufacture is

As a result GE is able to supply quartz halogen lamps for use in Fresnel and spotlight fittings from 300 watts to 24,000 watts. These lamps employ a wide range of commonly accepted bases. This gives fittings manufacturers a comprehensive range of compact lamps and permits the construction of smaller, lighter and more efficient luminaires.

Glossary of basic product information

Rated Average Life

Average life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Average Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any average value, some individual lamps may operate longer, and some may operate shorter, than their Rated Average Life. (Supply voltage variation can significantly affect lamp life; see comments under Lamp Life Ratings, page 107).

'T' Class Lamps for Theatre Spotlight Fittings

With this group of lamps GE is continuing their policy of developing quartz halogen lamps. These lamps operate at a lower colour temperature than the CP range. An average life of a remarkable 750 hours is achieved for most of the GE range. Similar cost savings to those offered by quartz halogen CP lamps are now presented by the quartz halogen 'T' range.

Typical Working Distance

For Multi-Mirror® and other reflector lamps and MARC™ lamps, the Working Distance shown is the distance from the front surface of the reflector rim to the film plane, in the optical system for which the lamp was first designed. In most cases, it provides a uniform plane of light for the intended aperture.

Light Centre Length (LCL)

This dimension defines the location of the filament in relation to the lamp base. It is measured from the geometric centre of the filament to a specified point on, or plane through, the base. Light Centre Length is subject to manufacturing tolerances.

Maximum Overall Length (MOL)

This dimension includes the lamp bulb and all rigid parts of the base. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter.

Approximate Initial Lumens

The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for

approximately 15% (or a minimum of 2 hours) or more of their rated average life.

Approximate Colour Temperature

The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific colour temperatures. The Colour Temperatures shown are approximate initial values in Kelvin (K) for lamps operated at rated voltage. As the spectral distribution of MARC lamps does not conform to that of a "blackbody", the values shown are 'correlated' colour temperatures expressed in Kelvin.

Important Notice

This catalogue contains accumulated data to November 2003. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative. The data and suggested applications contained in this catalogue, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular attention or use in any particular equipment, nor are our representatives authorised to make any such representations or give any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of their equipment and the conditions of its use. Therefore, it is up to the purchaser to make their own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination. General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.



Operating Temperature of Tungsten Halogen Studio Lamps

The following maximum and minimum temperatures are suggested for optimum life. Operation outside these figures will not necessarily cause immediate failure but will affect life adversely to an increasing extent.

Seal - 450° C maximum - Above this figure the sealing foil oxidises at a rate increasing with temperature and is frequently the cause of short life due to seal failure.

Bulb - 250° - 800° C - Outside this range the halogen cycle becomes less efficient and blackening may occur.

Temperatures above 1200° C will cause the bulb to soften.

Pins - 350° C maximum - Above this figure the plating on the pins may lose adhesion and the contact will deteriorate. Such deterioration may form local hot spots which rapidly worsen and may result in arcing and irreparable damage to both lamp and holder. Should signs of this be evident on removal of a failed lamp, it is important that a good contact is restored by replacing the lampholder before the next lamp is fitted. Otherwise the new lamp will rapidly fail in a similar manner."

Fusing of Tungsten Halogen Studio and Theatre Lamps

A lamp normally fails at end of life by fusing of the filament. Often an arc then forms and as there is little resistance to limit the current this rises to a very high value which if maintained can result in a serious overload on the envelope and seals. This might result in the lamp shattering. A quick acting high breaking capacity fuse must be connected in the supply line in all applications. Suitable types are given in BS88 (IEC 60269), IEC 60127 or IEC 60241.

Discharge lamps

Even with all the advances which have been made in tungsten halogen technology in recent years there are still occasions, particularly whilst working on location, when handling the number of fittings required to give an acceptable illumination level can be a logistical headache.

One GE metal halide discharge lamp can provide more light than three tungsten halogen lamps of the same rating. That means one third the power consumption and one third the number of fittings to transport and aim. The potential for major cost savings is clear. GE Lighting has led the way in adapting discharge lamps for use in the performing arts. The company was the first and for many years the only manufacturer to offer metal halide lamps in the compact, single ended capsule format. The minimal dimensions of these lamps can be incorporated into fittings which are much smaller than corresponding luminaires using double ended

lamps of the same power. With a near point light source excellent optical control is possible.

Compact iodide lamps are also available in a sealed beam format. With the light source carefully positioned in the reflector, optimum optical performance is guaranteed. The nitrogen filling gas in the outer bulb prevents oxygen attacking the seal of the inner capsule and so increases the life of the lamp dramatically.

All CID discharge studio and stage lamps are dimmable to 50% of peak lumens and the great majority are available in hot re-strike versions for applications where frequent changes in lighting levels are required. All lamps will re-strike within ten minutes of switch off.

Operating Temperature of Discharge Studio Lamps

The following maximum and minimum temperatures are suggested for optimum life. Operation outside of these figures will not necessarily cause immediate failure but will effect life adversely to an increasing extent.

Cap/bulb interface capsule lamps - 450° maximum
Above this figure the sealing foil oxidises at a rate increasing with temperature and is frequently the cause of short life due to seal failure.

Bulb

capsule lamps 700° - 1000°C

sealed beam lamps 150° - 400°C

Above 1000°C, quartz may devitrify, which will cause the arc tube to leak, loss of dose will cause the arc tube to operate below the minimum temperature, the metal halides will not vaporise as required, and lamp performance will be impaired.

Pins - 350°C maximum

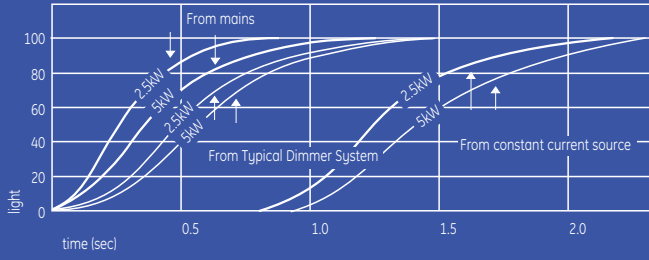
Above this figure the plating on the pins may lose adhesion and the contact will deteriorate. Such deterioration may form local hot spots which rapidly worsen and may result in arcing and irreparable damage to both lamp and holder. Should signs of this be evident on removal of a failed lamp, it is important that a good contact is restored by replacing the lampholder before the next lamp is fitted, otherwise the new lamp will rapidly fail in a similar manner.

N.B. For sealed beam lamps - to ensure that the above conditions are met, it is important that the lamp does not operate above 400°C even in an enclosed fitting.

Fusing of Discharge Studio and Theatre Lamps

A quick acting high breaking capacity fuse must be connected in the supply line in all applications. Suitable types are given in BS88 (IEC 60269), IEC 60127 or IEC 60241.

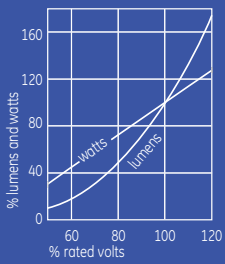
Turn on time of studio lamps



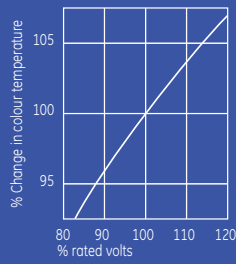
Fusing of Tungsten Halogen Studio and Theatre Lamps

Lamp power (watts)	Fuse (rated current) (amps)		
	100-115V	115-130V	220-250V
500	6	6	4
650	10	6	4
1000	16 (15 UK)	10	6
1500	20	16 (15 UK)	10
2000	25 (30 UK)	25 (30 UK)	10
2500	35 (30 UK)	25 (30 UK)	16 (15 UK)
5000	63 (60 UK)	50	25 (30 UK)
10000	125	100	50

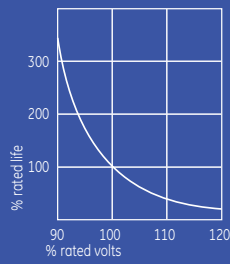
Variation of light output and wattage with applied voltage for a typical studio lamp



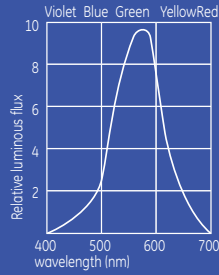
Colour temperature variation with voltage for typical studio lamp



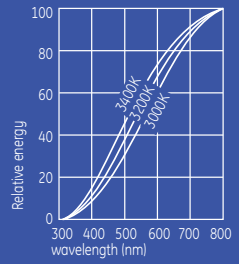
Typical life variation against operation voltage



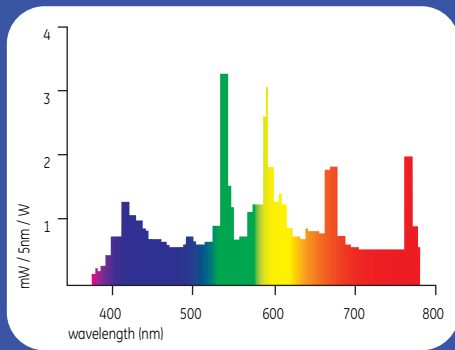
Spectral distribution of luminous flux (lumens) for typical theatre and studio lamp



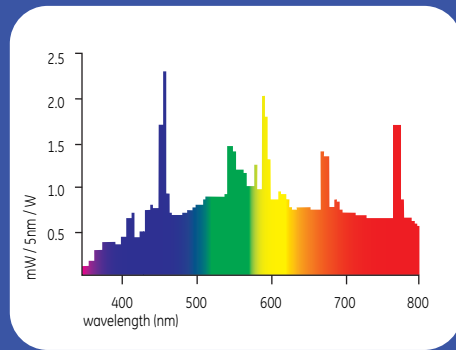
Total spectral energy distribution of typical studio lamp



Spectral distribution of luminous flux (lumens) for CSI discharge lamps



Spectral distribution of luminous flux (lumens) for CID discharge lamps



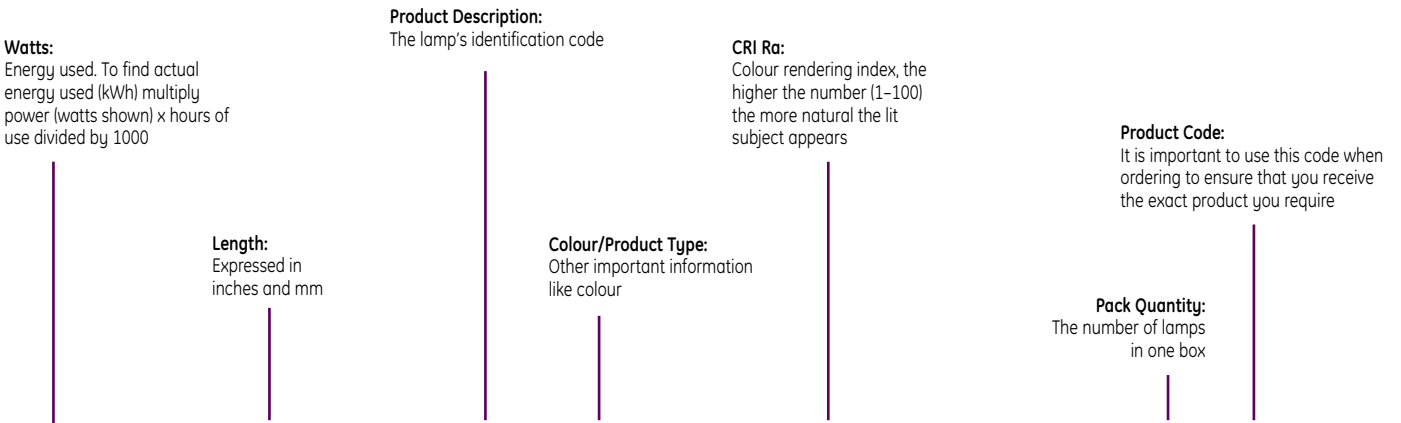
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Product identification

The following glossary of terms and descriptions can help you when checking specialty lamp specifications and how to use the order codes when ordering products. Within each product line, lamps are divided into families – within families, lamps are listed by wattage.



T5 Blacklight Blue

Watt	Length Ft	Length mm	Product Description	Color Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	Product Code
T5 (ø16mm – 5/8")										
4	6in	150	F4W/BLB	Blacklight Blue	-	-	5000	-	25	39882
6	9in	225	F6W/BLB	Blacklight Blue	-	-	5000	-	25	39883
8	12in	300	F8W/BLB	Blacklight Blue	-	-	5000	-	25	39884

Lamp: Description of lamp type, and product features

CCT K: Colour temperature – Kelvin. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

Rated Average Life: The point in time when 50% of installed lamps are still burning

Initial Lumens: Light output after the initial 100 hours of operation

F 4W / BLB

Identifies lamp as fluorescent

Identifies product type

Identifies lamp wattage



A healthy aquarium


With the exception of a few species, fish do not require special light for health. In fish-only tanks, lighting should minimise the growth of algae while maximising the colour of the fish. In tanks containing coral and plants, the spectral distribution of the light becomes a factor. For the coral and plants to survive, there must be adequate amounts of light in the blue and red regions for the spectrum to allow for photosynthesis. The light should also be of sufficient intensity for plant respiration. The amount of light should be tempered, however, as too much light could startle the fish.

Typical setups have alternating 12-hour periods of light and dark. To prevent fish startling, a blue/actinic lamp is used before the white light source is turned on.




Specialty lamps

Blacklight Blue




Watt	Length Ft	Length mm	Product Description	Colour/Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	Product Code
T5 Blacklight Blue, T5 (ø16mm - 5/8")										
4	6in	150	F4W/BLB	Blacklight Blue	-	-	5000	-	25	39882
6	9in	225	F6W/BLB	Blacklight Blue	-	-	5000	-	25	39883
8	12in	300	F8W/BLB	Blacklight Blue	-	-	5000	-	25	39884
T12 Blacklight Blue, T12 (ø 38mm - 1 1/2")										
20	-	600	F20W/BLB	Blacklight Blue	-	-	9000	-	6	34747
40	-	1200	F40W/BLB	Blacklight Blue	-	-	20000	-	6	25618
T8 Black Light 350nm										
15	18in	450	F15WBL 350	Blacklight	-	-	7500	-	25	16941

UVA Biax Range



Nominal Power (W)	Length (mm)	Product Description	Cap	Nominal Lamp Voltage (V)	Nominal Lamp Current (mA)	Peak Wave-length (nm)	Initial UVA Irradiance ¹ (mW/cm ² @ 20cm)	Median Life (hours)	Pack Size	Product Code
Biax™ Electronic 2 pin Internal Starter										
9	167	F9BX BL G23 Blacklight	G23	60	170	368	440	10000	10	42935
11	237	F11BX BL G23 Blacklight	G23	91	155	368	670	10000	10	42936
13.4	177.5	F13BX BL GX23 Blacklight	GX23	58	285	368	630	10000	10	42937
Biax™ D 2 pin Internal Starter										
26	169.5	F26DBX BL G24d-3	G24d-3	105	325	368	630	10000	10	42938
Biax™ L 4 pin External Starter Required										
24	326.8	F24BX BL 2G11	2G11	87	345	368	980	10000	10	42939
36	421.8	F36BX BL 2G11	2G11	107	435	368	1280	10000	10	42940
55	541.8	F55BX BL 2G11	2G11	101	550	368	1630	10000	10	42941

Cov-R-Guard™ Polylux XLR™ and Starcoat



Watt	Length Ft	Length mm	Product Description	Colour/Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	Product Code
T8 Cov-R-Guard™ Polylux XLR™ - with Polycarbonate Shield										
T8 (ø26mm - 1") 58W and 70W have FEP coating										
18	2ft	600	F18W/830	CVG/XLR 830	2950	85	15000	1300	25	17203
			F18W/835	CVG/XLR 835	3400	85	15000	1300	25	17204
			F18W/840	CVG/XLR 840	4000	85	15000	1300	25	17205
36	4ft	1200	F36W/830	CVG/XLR 830	2950	85	15000	3250	25	17208
			F36W/835	CVG/XLR 835	3400	85	15000	3250	25	17202
			F36W/840	CVG/XLR 840	4000	85	15000	3250	25	17209
58	5ft	1500	F58W/830	CVG/XLR 830	2950	85	15000	5050	25	12403
			F58W/835	CVG/XLR 835	3400	85	15000	5050	25	12405
			F58W/840	CVG/XLR 840	4000	85	15000	5050	25	12407
70	6ft	1800	F70W/830	CVG/XLR 830	2950	85	15000	6100	25	12421
			F70W/835	CVG/XLR 835	3400	85	15000	6100	25	12423
			F70W/840	CVG/XLR 840	4000	85	15000	6100	25	12424

Polylux XLR™ Cov-R-Guard Rated Average Life on HF Electronic gear: 20000 hrs



Watt	Length Ft	Length mm	Product Description	Colour/Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	Product Code
T5 covRguard® High Output Starcoat®										
54			F54T5/830/HO/ECO/COVG	-	3000	85	30000	4560	40	48433
54			F54T5/835/HO/ECO/COVG	-	3500	85	30000	4560	40	48436
54			F54T5/841/HO/ECO/COVG	-	4100	85	30000	4560	40	48458
54			F54T5/850/HO/ECO/COVG	-	5000	85	30000	4465	40	80311
54			F54T5/865/HO/ECO/COVG	-	6500	85	30000	4465	40	48469



Arctic Cold Temperature T8 Fluorescent

Watt	Length Ft	Length mm	Product Description	Colour/Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	Product Code
18	2ft	600	F18T8/835/ARCTIC	-	3500	85	18000	1350	12	31147
			F18T8/840/ARCTIC	-	4100	85	18000	1350	12	31148
36	4ft	1200	F36T8/835/ARCTIC	-	3500	85	18000	3350	16	25763
			F36T8/840/ARCTIC	-	4100	85	18000	3350	16	25764
58	5ft	1500	F58T8/835/ARCTIC	-	3500	85	18000	5800	24	16148
			F58T8/840/ARCTIC	-	4100	85	18000	5800	24	23752
70	6ft	1800	F70T8/835/ARCTIC	-	3500	85	18000	6300	24	16149
			F70T8/840/ARCTIC	-	4100	85	18000	6300	24	23754

Protected from cold temperatures with LEXAN™ jacket

T8 Aquarium and Reptile

T8 (ø26mm - 1")

15	18in	450	F15T8 F&SA	Fresh & Salt Aqua	-	-	9000	700	10	16965
			F15T8 FA	Fresh Aqua	5000	-	7500	400	10	16977
			F15T8 SW	Salt Water	-	-	7500	210	10	16987
			F15T8 REP	Reptile	6400	82	7500	400	10	17002
18	2ft	600	F18T8 F&SA	Fresh & Salt Aqua	-	-	15000	950	10	16966
			F18T8 FA	Fresh Aqua	5000	-	7500	600	10	16979
			F18T8 SW	Salt Water	-	-	7500	270	10	16988
			F18T8 REP	Reptile	6400	82	7500	550	10	17003
25	2.5ft	760	F25T8 F&SA	Fresh & Salt Aqua	-	-	15000	1350	10	16968
			F25T8 FA	Fresh Aqua	5000	-	7500	805	10	16980
			F25T8 SW	Salt Water	-	-	7500	430	10	16991
			F25T8 REP	Reptile	6400	82	7500	550	10	17003
30	3ft	910	F30T8 F&SA	Fresh & Salt Aqua	-	-	15000	1700	10	16969
			F30T8 FA	Fresh Aqua	5000	-	7500	1035	10	16981
			F30T8 SW	Salt Water	-	-	7500	540	10	16992
			F30T8 REP	Reptile	6400	82	7500	1100	10	17004
36	4ft	1200	F36T8 F&SA	Fresh & Salt Aqua	-	-	15000	2350	10	16970
			F36T8 FA	Fresh Aqua	5000	-	7500	1425	10	16982
			F36T8 SW	Salt Water	-	-	7500	700	10	16995
			F36T8 REP	Reptile	6400	82	7500	1250	10	17006
38	3.5ft	1060	F38T8 F&SA	Fresh & Salt Aqua	-	-	15000	2200	10	16971
			F38T8 FA	Fresh Aqua	5000	-	7500	1320	10	16984
			F38T8 SW	Salt Water	-	-	7500	650	10	16999
			F38T8 REP	Reptile	6400	82	7500	1250	10	17006
58	5ft	1500	F58T8 F&SA	Fresh & Salt Aqua	-	-	15000	3750	10	16972
			F58T8 FA	Fresh Aqua	5000	-	7500	2225	10	16985
			F58T8 SW	Salt Water	-	-	7500	1100	10	17000
			F58T8 REP	Reptile	6400	82	7500	1250	10	17006

Discharge lamps require control gear.

Germicidal Soft Glass

Watt	MOL (in) / (mm)	Product Description	Cap	UV Output (Watts)	Average Life Hours	Pack Qty	Product Code
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Effective in killing Microorganisms
UV output at 254 nm emits no ozone

T5							
4	5.9 / 150	G4T5	Miniature Bi-pin	0.9	6000	24	15872
6	8.9 / 226	G6T5	Miniature Bi-pin	1.7	6000	24	15873
8	11.9 / 302	G8T5	Miniature Bi-pin	2.3	8000	24	11077
11	8.9 / 226	G11T5	Miniature Bi-pin	2.2	8000	24	29495
19	23.78 / 604	G20T10	G13 Medium Bi-pin	7.5	8000	24	15876
16	11.91 / 302	G16T5	Miniature Bi-pin	3.2	8000	24	16494
39	34.07 / 865	G36T5	Single-pin (Fa8)	12	9000	24	15874
40	47.78 / 1213	G40T10	G13 Medium Bi-pin	19.8	8000	24	29532
65	62.0 / 1575	G64T5	Single-pin (Fa8)	18	7500	24	15864

T5 4 Pin end cap

11	8.66 / 220	G11T5/4P/SE	Single 4 pin end cap	2.2	8000	24	29500
16	12.61 / 320	G16T5/4P/SE	Single 4 pin end cap	3.4	8000	24	29502
39	33.28 / 845	G36T5/4P/SE	Single 4 pin end cap	12	8000	24	29503
65	61.28 / 1556	G64T5/4P/SE	Single 4 pin end cap	25	8000	24	29504

T8							
9.5	13.61 / 345	G10T8	G13 Medium Bi-pin	2.7	8000	24	29498
15	17.78 / 451	G15T8	G13 Medium Bi-pin	4.8	8000	24	11078
25	17.78 / 451	G25T8	G13 Medium Bi-pin	6.9	8000	24	11082
30	35.78 / 908	G30T8	G13 Medium Bi-pin	12.4	8000	24	11080
36	47.78 / 1213	G36T8	G13 Medium Bi-pin	14.6	8000	24	29499
55	35.78 / 908	G55T8HO	G13 Medium Bi-pin	18	8000	24	15875

Specialty lamps



Biax

Watt	MOL (in) / (mm)	Product Description	Cap	UV Output (Watts)	Average Life Hours	Pack Qty	Product Code
Biax T4 Glass							
5	3.35 / 85	GBX5/UVC G23	G23 2-pin	1.0	8000	10	40695
9	5.71 / 145	GBX9/UVC G23	G23 2-pin	2.4	8000	10	40696
11	8.46 / 215	GBX11/UVC G23	G23 2-pin	3.6	8000	10	40700
Biax T6 Glass							
13	6.69 / 170	GBX13/UVC GX23	GX23 2-pin	3.6	8000	10	15881/40703
18	8.8 / 225	GBX18/UVC/2G11	2G11 4-pin	5.3	8000	10	15882/40704
36	16.33 / 415	GBX36/UVC/2G11	2G11 4-pin	12	8000	10	15883/40705
55	21.1 / 535	GBX55/UVC/2G11	2G11 4-pin	16.5	8000	10	15885/40706

Discharge lamps require control gear.



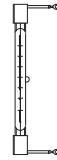
Quartz Heat

Watts	Volts	Bulb	Base	Product Description	CCT K	MOL mm	Rated Average Life Hours	Filament Design	Pack Qty	Product Code	Additional Information
375	115-125	T3	Slv	QH375T3/CL	2400	223.8	5000	C-8	12	21337	Infrared (1)
375	120	T3	R7S	QH375T3/CL/7	2400	220.5	5000	C-8	12	38893	Infrared (1)
500	120	T3	Slv	QH500T3/CL	2400	223.8	5000	C-8	12	21788	Infrared, Clear (1)
500	120	T3	R7S	QH500T3/CL/7	2400	220.5	5000	C-8	12	21787	Infrared (1)
1000	200-220	T3	Slv	QH1000T3/CL	2400	351	5000	C-8	12	22355	Infrared (1)
1000	230-250	T3	Slv	QH1000T3/CL	2400	351	5000	C-8	12	22357	Infrared (1)
1000	230-250	T3	Slv	QH1000T3/CL/1	2400	301	5000	C-8	12	22358	Infrared, Clear, Horizontal (1,2)
1000	230	T3	Slv	QH1000T3/2CL/HT	2400	351	5000	C-8	12	22365	Infrared, Clear, High Temp, Constr, Horizontal (2)
1200	144	T3	Slv	QH1200T3/CL	2450	223.8	5000	C-8	12	22531	Infrared, Clear, Horizontal (1,2,3)
1200	144	T3	Slv	QH1200T3/CL/HT	2450	223.8	5000	C-8	12	22532	Infrared, Clear, High Temp, Constr., Horizontal (2)
1600	200	T3	Slv	QH1600T3/CL	2350	503	5000	C-8	12	22686	Infrared, Horizontal (1)
1600	230-250	T3	R7S	QH1600T3/CL/7	2400	498.4	5000	C-8	12	22691	Infrared, Horizontal (1)
1600	230-250	T3	Slv	QH1600T3/CL	2400	503	5000	C-8	12	22688	Infrared, Clear, Horizontal (1)
1600	277	T3	Slv	QH1600T3/CL	2400	503	5000	C-8	12	22695	Infrared, Horizontal (1)
2000	230	T3	Slv	QH2M/T3/1CL/HT	2450	303	5000	C-8	12	22789	Infrared, Clear, High Temp, Constr.
2000	230-250	T3	Slv	QH2M/T3/1CL/HT/VB	2450	303	5000	C-8	12	15551	Infrared, Clear, High Temp, Constr., Universal (2,3)
2000	220-250	T3	Slv	QH2MT3/CL/VB	2450	350.5	5000	C-8	12	18668	Infrared, Clear, Universal (3)
2000	230-250	T3	Slv	QH2M/T3/CL/HT	2450	350.8	5000	C-8	12	22790	Infrared, Clear, High Temp, Constr., Horizontal (2)
2000	230-250	T3	CER	QH2MT3/CL/HT/R	2450	352.5	5000	C-8	12	12716	Infrared, Clear, High Temp, Horizontal, Reflector 170 (2)
2500	460-500	T3	Slv	QH2500T3/CL	2400	731	5000	C-8	12	22838	Infrared, Clear, Horizontal (1)
2500	460-500	T3	R7S	QH2500T3/CL/7	2400	727	5000	C-8	12	22837	Infrared, Clear, Horizontal (1)
3650	480	T3	Slv	QH3650/CL/5	2500	1057	5000	C-8	12	10872	Infrared, Horizontal (1)
3800	550-600	T3	Slv	QH3800/CL	2500	1062	5000	C-8	6	22875	Infrared, Horizontal (1)
3800	550-600	T3	Slv	QH3800T3/CL/VB	2500	1062	5000	C-8	6	22878	Infrared, Clear, Universal (1,3)
5000	575-625	T3	Slv	QH5M/T3/1CL/HT	2500	731.8	5000	C-8	12	22900	Infrared, Clear, High Temp, Constr., Horizontal (1,2)
European Industrial Infrared Quartz Heat											
1000	235	T3		QH1MT3/CL/MS-235V	2500	483	5000	C-8	12	21376	Clear, Metal Strap Connector Philips Equivalent - 13195X
1000	235	T3		QH1MT3/CL/R/MS-235V	2500	483	5000	C-8	12	21377	White Reflector, Metal Strap connector Philips Equivalent - 13195X-98
1000	235	T3		QH1MT3/CL/R-235V	2500	357.5	5000	C-8	12	21378	White Reflector, Ceramic base, Flying leads Philips Equivalent - 13195Z-98



Jacketed Quartz Heat

Watts	Volts	Bulb	Base	Product Description	CCT K	MOL mm	Rated Average Life Hours	Filament Design	Pack Qty	Product Code	Additional Information
Jacketed 500	230-240	Jacketed DEQ	Special	HH 210 500W CLEAR 230-240V	2450	218	5000	C-6	10	20089	Clear Jacketed
500	230-240	Jacketed DEQ	Special	HH 599 500W RUBY 230-240V	2450	218	5000	C-6	10	20090	Ruby Jacketed
1000	230-240	Jacketed DEQ	Special	HH 450 1000W RUBY 230-240V	2450	348	5000	C-6	10	20091	Ruby Jacketed
1500	230-240	Jacketed DEQ	Special	HH 451 1500W RUBY 230-240V	2450	348	5000	C-6	10	20092	Ruby Jacketed
2000	230-240	Jacketed DEQ	Special	HH 804 2000W RUBY 230-240V	2450	348	5000	C-6	10	20093	Ruby Jacketed

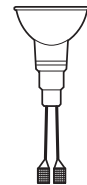


Infrared Quartz Heat Lamp – Ruby Slim

Watts	Volts	Cap	Length mm	Product Description	Average Rated Life	Pack Size	Product Code
750	230-240	RX7s	202.8	QH 750W 230-240V Ruby Slim	5000	10	40723
750	120	RX7s	202.8	QH 750W 120V Ruby Slim	5000	10	42739
1300	230-240	RX7s	254	QH 1300W 230-240V Ruby Slim	5000	10	42740
1300	120	RX7s	254	QH 1300W 120V Ruby Slim	5000	10	42741

Airfield Lighting

Watts	Lumens	Bulb	Base	Product Description	CBCP	MOL mm	Average Life Hours	Filament Design	Pack Qty	Product Code	Additional Information
Airport & Airfield 200	5000	T4	Special 1" Ribbon Leads	Q6.6A/T4/5CL		76	500	CC-8	12	23857	Clear, Airport
200	5150	T4	D.C.Bay	Q6.6AT4/DCR		64	500	CC-6	12	23860	Clear, Airport, Ringed
200		PAR56	Scrw Term	Q6.6A/PAR56/3	200000	114	1000	CC-6	12	33279	PAR, Airport, BDTH
200		PAR56	Mog End Pr	Q6.6A/PAR56/2	16000	127	1000	CC-6	12	38271	PAR, Airport, BDTH
300		PAR56	Mog End Pr	Q20A/PAR56/C		127	500	CC-6	12	15482	PAR, Airport, Teflon Coated, Burn Position:Any
300		PAR56	Scrw Term	Q20A/PAR56/2	200000	114	500	CC-6	12	32861	PAR, Airport, Burn Position:Any
499		PAR56	Scrw Term	Q20A/PAR56/3	330000	114	500	CC-6	12	23863	PAR, Airport, BDTH
500		PAR56	Mog End Pr	Q20A/PAR56/1/C		127	500	CC-6	12	15485	PAR, Airport, Teflon Coated, Burn Position:Any
45	760		Mycalex cap & Prefocus collar	AF6/2 6.6A 45W		54	600	Sgl Coil Flat Grid	100	10076663	Clear, Airfield, Horizontal Burn
100	2100		Mycalex cap & Prefocus collar	AF 6/5T 6.6A 100W		60	600	Sgl Coil Flat Grid	100	12076664	Clear, Airfield, Horizontal Burn
200	4800		Mycalex cap & Prefocus collar	AF7/2 6.6A 200W		54	600	Sgl Coil Flat Grid	100	16076666	Clear, Airfield, Horizontal Burn
36		MR11	Flying Leads	THE 436 6A 36W				CC-6	10	26340	Airfield Apron and Taxi way



Watts	Lumens	Bulb	Base	Product Description	MOL mm	Average Rated Life	Filament Design	Pack Qty	Product Code for Male Connector	Product code for Female terminal
45	800	T4	PK30d	Q6.6A45PK30d	13.5	1000	C8	10	80583	80587
100	2700	T4	PK30d	Q6.6A100PK30d	13.5	1000	CBAR-6	10	80584	80588
150	3600	T4	PK30d	Q6.6A150PK30d	13.5	1000	CBAR-6	10	80585	80589
200	4800	T4	PK30d	Q6.6A200PK30d	13.5	1000	CC6	10	80586	80590

Medical Lamps- Ceramic Xenon Lamps

Watts	Volt	Lumens	CCT K	Peak Intensity	Product Description	Length	Average Rated Life	Pack Qty	Product Code
175	12	2200	5600	350000	CXE175/BF	42.34	1000	4	29376
300	14	5000	5600	500000	CXE300/B	42.34	1000	4	87472
300	14	6000	5600	500000	CXE300/BF/SB/P	42.34	1000	4	87591

Glossary

A

Additional Information

Typical application and/or other important information including footnotes, operating information, features and benefits.

Amperes ("Amps")

A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Current (Amps) = Power (Watts) / Voltage (Volts)

American National Standards Institute (ANSI)

A consensus organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

ANSI Ballast Type

Ballast type used to operate lamp.

ANSI Codes

These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps.

[Primary] Application

This column indicates the original primary application of the lamp. However, lamps can be, and often are, used in other types of equipment where their design features meet the requirements of the application.

[Effective] Arc Length

In High Intensity Discharge lamps this is the length of the arc that you can see outside of the bulb.

Atmosphere

This field designates the type of gas or vacuum the filament operates within. Gas filled lamps are more efficient than vacuum lamps.

B

Ballast

An auxiliary piece of equipment designed to start and to properly control the flow of power to discharge light sources such as fluorescent and high intensity discharge (HID) lamps. Some lamps require the ballast to have thermal protection.

[ANSI] Base or Socket

The type of base or socket. For Incandescent and Halogen lamps, when Footnote 23 or BB (Brass Base) appears in the Lamp Designation or Description column, the lamp is supplied only with a brass base. If Brass Base (Footnote 23 or BB) does not appear, the lamp is supplied only with an aluminum base. For Halogen PAR lamps, when Footnote 55 or NP (Nickel Plated) appears in the Lamp Designation or Description column or in the Base Description, the lamp is supplied only with a Nickel Plated Brass Base. Brass Bases and Nickel Plated Brass Bases are recommended for outdoor lighting applications.

[Max] Base Temperature

The maximum operating temperature of the base in Celcius.

[Max] Base Temperature Rise

The maximum increase in temperature from ambient temperature to operating temperature in the base.

Beam Angle

The angular dimension of the cone of light from the reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out of the angle where the intensity is 50% of maximum. The beam angle sometimes called the "beam spread" is often part of the ordering code of reflectorized lamps. Example: The GE Lamp 50PAR30/HIR/NFL25° is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees. Generally, beam angles 25 degrees and greater are considered Flood, while angles less than 25 degrees are considered Spots. See also Field Angle.

[Approximate] Beam Spread

For reflector type lamps. The total angle of the directed beam (in degrees horizontal or vertical) to where the intensity of the beam falls to 50% or 10% of the maximum candlepower value as indicated.

Biax®

GE trademark for the biaxial family of high-efficiency and long life compact fluorescent bulbs.

Blacktop

Whether or not the top of the miniature lamp has a blacktop coating. The coating is used to control unwanted brightness or glare.

Bulb Material or Coating

The type of glass (or quartz) used in the glass envelope surrounding the light source. The material can also have coatings applied to achieve particular performances.

Bulb [size]

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). For Compact Fluorescent products, "S", "D", "T", and "Q" are used to represent Single, Double, Triple and Quad Biax® sizes. The code also includes a reference such as T4 to represent the size of the tube. Rectangular headlamps are designated as "Rect" and the number of millimeters horizontally.

C

Canadian Standards Association (CSA)

An organization that writes standards and tests lighting equipment for performance as well as electrical and fire safety. Canadian provincial laws generally require that all products sold for consumer use in Canada have CSA or equivalent approval.

Candela (cd)

The international unit (SI) of luminous intensity. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was used as a basis for evaluating the intensity of other light sources.

Candlepower

Luminous intensity expressed in candelas. Plots of luminous intensity called candlepower distribution curves are used to indicate the intensity distribution characteristics of reflector type lamps.

[Mean Spherical] Candlepower

Initial mean spherical candlepower at the design voltage. Mean spherical candlepower is the generally accepted method of rating the total light output of miniature lamps. To convert this rating to lumens, multiply it by 12.57 (4 pi).

[Approximate] Center Beam Candlepower (CBCP)

For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Case quantity or Standard Package Quantity

Number of product units packed in a master case. Also known as Standard Package Quantity.

Cathode Resistance

Resistance of the cathode in a Fluorescent lamp. It is measured "cold" before the lamp is turned on (Rc) or "hot" after the lamp is turned on (Rh). The ratio of the hot resistance to the cold resistance is also measured (Rh/Rc).



Chromaticity

Measure to identify the color of a light source, typically expressed as (x,y) coordinates on a chromaticity chart. See Color Temperature

Coefficient of Utilization

In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. Cu is a function of luminaire intensity distribution, room surface reflectances and room shape.

Color Rendering Index (CRI)

An international system used to rate a lamp's ability to render object colors. The higher the CR (based upon a 0-100 scale), the better colors appear. CRI ratings of various lamps may be compared, but a numerical comparison is only valid if the lamps are also rated for the same chromaticity. (See Chromaticity). CRI differences among lamps are not usually significant (visible to the eye) unless the difference is more than three to five points.

[High] Color Rendering Indicator

Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.

[Correlated] Color Temperature

Originally, a term used to describe the "whiteness" of incandescent lamp light. Color temperature is directly related to the physical temperature of the filament in incandescent lamps so the Kelvin (absolute) temperature scale is used to describe color temperature. For discharge lamps where no hot filament is involved, the term "correlated color temperature" is used to indicate that the light appears "as if" the discharge is operating at a given color temperature. Chromaticity is expressed either in Kelvins (K) or as "x" and "y" coordinates on the CIE standard Chromaticity Diagram. Although it may not seem sensible, a higher temperature color (K) describes a visually cooler, bluer light source. Typical color temperatures are 2800K (incandescent), 3000K (halogen), 4100K (cool white or SP41 Fluorescent), and 5000K (daylight-simulating fluorescent colors such as Chroma 50 and SPX 50).

Compact Fluorescent Lamp (CFL)

The general term applied to families of smaller diameter fluorescent lamps (e.g. the GE T4 and T5), some of which have built in ballasts and medium screw bases for easy replacement of incandescent lamps. Fluorescent bulbs use approximately 2/3 to 4/5 less electricity than regular incandescent bulbs with comparable lumen ratings and also last 20

times longer. They produce warm white tones that closely duplicate incandescent light.

[Max Current] Crest Factor

The ratio of the peak lamp current to average lamp operating current (RMS).

Current Type (AC/DC)

Whether the operational voltage is based on Alternating Current or Direct Current.

D

Depth of Lamp

Referenced by IEC as Dimension B.

Dimmable

Whether or not the lamp lumens can be varied while maintaining reliability.

Distance Between Legs

For U-shaped Fluorescent lamps, this measurement is the average distance between the inner walls of the legs.

Distance Outside Legs

For U-shaped Fluorescent lamps, this measurement is the average distance to the outside of each leg.

Distance Between Leg Centers

For U-shaped Fluorescent lamps, this measurement is the average distance between the centers of each leg.

DOT Type

The US Department of Transportation lamp number stamped in the glass lens or on the base of headlamps.

E

ECE R37 Code

European Common Market Regulation 37 standard lamp number.

[Maximum] Eccentricity

In High Intensity Discharge lamps the Bulb to Arc Angle is the angle off of center between electrodes and bulb. The Bulb to Base Angle is the angle off of center that the bulb is from the base.

Efficacy

See Luminous Efficacy.

Electromagnetic Spectrum

A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electromagnetic spectrum

in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

Electronic Ballast

A short name for fluorescent high frequency electronic ballast. Electronic ballasts use solid state electronic components and typically operate fluorescent lamps at frequencies in the range of 25-35 kHz. The benefits are: increased lamp efficacy reduced ballast losses and lighter, smaller ballasts compared to electromagnetic ballasts. Electronic ballasts may also be used with HID lamps, but the circuits are quite different.

Elliptical Reflector (ER) Lamp

An incandescent lamp with an elliptically shaped reflector. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaries. It is particularly effective at increasing efficiency of baffled downlights.

Energy Policy Act (EPACT)

Comprehensive energy legislation passed by the U.S. Congress in 1992. The lighting portion includes lamp labeling and minimum energy efficacy (lumens/watts) requirements for many commonly used incandescent and fluorescent lamp types. Similar legislation is being considered in other parts of the world. Please see classification on page 192.

EPACT Indicator

Means this lamp is Federally regulated for Energy Efficiency. See Energy Policy Act.

F

Federal Communication Commission

A U.S. Federal agency which is charged with regulating emissions in the radio frequency portion of the electromagnetic spectrum. For example, a regulation entitled, "Part 18" deals with electromagnetic interference (EMI) from all lighting devices operation at frequencies higher than 9 kilohertz (kHz). Typical electronically ballasted compact fluorescent lamps operate in the range of 24-100 kHz.

Field Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum. See Beam Angle.

Glossary

Filament (design)

Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.

Fixture required

Describes fixture requirements for HID lamps. O = Open or Enclosed Fixtures
E = Enclosed Fixtures Only
S = Lamps operated in a vertical position (Base Up or Down) $\pm 15^\circ$, can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only". See additional details in the e-Catalog Help Menu under the HID category.

Fluorescent Lamp

A high efficiency lamp using an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to invisible light.

Footcandle (fc)

A unit of illuminance or light falling onto a surface. One footcandle is equal to one lumen per square foot. See also Lux

[Nominal Operating] Frequency

The stated operating frequency in Hz of a discharge lamp.

G

Genura™

A GE fluorescent light source of a unique design. Features include a reflector shape, built in high frequency electronic ballast and an electrodeless arc tube. The 23-watt R25 Genura lamp is rated for 1100 initial lumens and 10,000 hours life and is designed to directly replace a 75-watt incandescent reflector lamp.

H

Halogen Lamp

A short name for the tungsten-halogen lamp. Halogen lamps are high pressure incandescent lamps containing halogen gases such as iodine or bromine, which allow the filaments to be operated at higher temperatures and higher efficacies. A higher temperature chemical reaction involving tungsten and the halogen gas recycles

evaporated particles of tungsten back onto the filament surface.

Halogen indicator*

Indicates if the bulb is a halogen lamp.

Halogen-IR(HIR)Lamp

GE designation for a new form of high-efficiency tungsten halogen lamp. HIR lamps use shaped filament tubes coated with numerous layers of materials, which selectively reflect and transmit infrared energy and light. Reflecting the infrared back onto the filament reduces the power needed to keep the filament hot.

Height of Lamp

Referenced by IEC as Dimension C. Also referred to as "Base Face to Top of Lamp".

High-Intensity Discharge (HID) Lamp

A general term for mercury, metal halide (GE Multi-Vapor, MXR or Arcstream) and high-pressure sodium (GE Lucalox) lamps. HID lamps contain compact arc tubes, which enclose various gases and metal salts operation at relatively high pressures and temperatures.

High-Pressure Sodium (HPS) Lamp

A generic name for GE's Lucalox lamp. HPS lamps are high intensity discharge light sources, which produce light by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures.

Hot Restart Time

Time it takes for a High Intensity Discharge lamp to reach 90% of light output after going from on to off to on.

I

Illuminance

The "density" of light(lumens/area) incident on a surface. Illuminance is measured in footcandles or lux.

Incandescent Lamp

A light source which generates light using a thin filament wire (usually tungsten) heated to white heat by an electric current passing through it.

Infrared Radiation

Electromagnetic energy radiated in the wavelength range of about 770 to 1106 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Instant Start

A type of fluorescent lamp-ballast circuit designed to start fluorescent lamps as soon as the power is applied. Originally, instant-start circuits were developed to eliminate separate mechanical starter devices. Slimline fluorescent lamps operate only on instant start circuits.

K

Kilowatt Hour (kwh)

The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100*10) or 1 kilowatt-hour. If the utility charges \$.10/kWh, then the electricity cost for the 10 hours of operation would then be 10 cents (1*\$.10).

L

Lamp

The term used to refer to the complete light source package including the inner parts as well as the outer bulb or tube. "Lamp," of course, is also commonly used to refer to the type of small light fixture such as a table lamp.

Lamp Description

The lamp's identification code. For Projection lamps, this is a 3-letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering. Some GE Projection Lamps have an ordering code comprising of two or more 3-letter ANSI codes - such as EM/EKS and DYS/DYV/BHC. The first code is the ANSI code, the secondary codes identify which lamp the multiple-coded lamp can directly replace. Only the first code appears on the lamp itself. Multiple-coded lamps are so-designated by General Electric for the convenience of the customer. In nearly all cases, Miniature and Sealed Beam lamps are marked with a General Electric Trade number recorded with ANSI.

LIF Code

For Stage & Studio lamps, these are assigned by the Lighting Federation of London U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps.



Light

Radiant energy which can be sensed or seen by the human eye. Visible light is measured in lumens.

[Average Rated] Life

The median time it takes for a lamp to burn out. For example, a 60-watt Soft White Bulb can be expected, on average, to burn for 1,000 hours. Based upon continuous testing of lamps in laboratories, the 1,000 hour rating is the point in time when 50% of the test samples have burned out and 50% are still burning. Unless otherwise noted Fluorescent and CFL life assumes 3 hours average operating time per start. Unless otherwise noted HID life assumes 10 hours average operating time per start

Light Center Length (L.C.L)

The distance between the center of the filament or arc tube in a lamp and a reference plane-usually the bottom of the lamp base. See L.C.L Reference Plane location below.

Lumen

The international (SI) unit of luminous flux or quantity of light. For example, a dinner candle provides about 12 lumens. A 60-Watt Soft White incandescent lamp provides 840 lumens.

[Approximate Initial] Lumens

Initial light output. For Projection lamps, the value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

[Mean] Lumens

Lamp light output (lumens) at 40% of rated lamp life for Fluorescent, Compact Fluorescent and Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.

Lumen Maintenance

A measure of how well a lamp maintains its lamp output as it ages. Lumen maintenance is usually provided as a curve. See also Mean Lumens.

Lumen Per Watt (lpw)

A measure of the efficiency, or, more properly, "efficacy" of a light source. Efficacy is easily calculated by taking the lumen output of a lamp and dividing by the lamp watts. For example, a 100-watt

producing 1750 lumens has an efficacy of 17.5 lumens per watt.

Luminaire

A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamp and connect them to the power supply.

Luminance

Formerly, a measure of photometric brightness. Luminance has a rather complicated mathematical definition involving the intensity and direction of light. It should be expressed in candelas per square inch or candelas per square meter although an older unit, the "footcandle," is still sometimes used. Luminance is a measurable quantity where as brightness is a subjective sensation.

Luminous Efficacy

The light output of a light source divided by the total power input to that source. It is expressed in lumens per watt.

Lux (lx)

The SI (International) unit of illuminance. One lux is equal to one lumen per square meter. See also Footcandle.

M

Maximum Overall Length (M.O.L.) or Nominal Length

The end-to-end measurement of a lamp expressed in inches or millimeters. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter. The length of Linear Fluorescent lamps can also be stated from Base Face to Base Face.

Mean Lumens

The average light output of a lamp over its rated life. For fluorescent and metal halide lamps, mean lumen ratings are measured at 40% of rated lamp life. For mercury, high-pressure sodium and incandescent lamps, mean lumen ratings are measured at 50% of rated lamp life.

Mercury Lamp

A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types

may also use phosphor coatings. GE trade names of these lamps include: Multi-Vapor, XL, Watt-Miser®, Chromafit and Arcstream.

Nanometer

A unit of wavelength equal to 10⁻⁹ meters.

[Gov't] National Stock Number

The standardized part number used by the US Government for procurement.

O

OCV

Open Circuit Voltage measured across the lamp. Measured in a variety of ways.

Operating Position or Burn Position

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

U = Universal burning position

HBU = Horizontal -15° to Base Up

HBD = Horizontal +15° to Base Down

HOR = Horizontal ±15°

H45 = Horizontal to -45° only

VBU = Vertical Base Up ±15°

VBD = Vertical Base Down ±15°

If no special burn position is noted, the burn position is universal.

P

PAR Lamp

PAR is an acronym for a parabolic aluminized reflector. A PAR lamp, which may use either an incandescent filament, a halogen filament tube or HID arc tube is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam.

Phosphor

An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short wavelength ultraviolet radiation and to transform and emit it as visible light.

Glossary

Power Factor (PF)

A measure of the phase difference between voltage and current on alternating current circuits. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. A high power factor means that an electrical system or device is utilizing power efficiently. Incandescent lamps always have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a discharge lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. The power factor of "core and coil" electromagnetic ballasts may be as low as 0.5-0.6.

Precise™

The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic "cool beam" reflectorized spot and flood lamps.

Product Code

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Preheat Circuit

A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes to a glow state. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts.

Q

Quartzline

A GE registered trademark term for some types of tungsten-halogen lamps.

R

Rapid Start Circuit

A fluorescent lamp-ballast circuit which uses continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

Reflector Lamp

An incandescent, compact fluorescent or HID lamp with a built in reflecting surface. Incandescent and HID versions are made from a single piece of blow-molded soft or

hard glass. CFL versions may be one piece or may be designed so that the inner lamp can be replaced.

S

SCC Code

The full 14 digit case code used on GE's content label.

[Max] Seal Temperature

The maximum operating temperature of the seal of the lamp in Celcius.

Series Resistance

In order to properly control the lamp current, a ballast resistor must be used. Lamps having screw bases have the necessary resistor built-in. Those having bayonet bases and those listed with wire terminals do not have a built-in resistor.

Source Size

For Projection lamps, this is defined as the dimensions of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie, when viewed perpendicular to the axis of the filament coil or to the plane of C-13 and C-13D filaments.

Specification Series (SP) Colors

Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering (as measured by the Color Rendering Index or CRI). The CRI for SP colors is 70 or above and varies by specific lamp type. Available chromaticities (or "tones") within the SP group include: SP30 (3000K) - a good match for the old standard "warm white" color and incandescent or halogen incandescent lamps. SP35 (3500K) - neutral all-purpose tone. SP41 (4100K)- cool in appearance and designed to match to old standard "cool white" color. SP50 - still cooler much like the combination of sun-sky-clouds. SP65 - A color with a very cool appearance, much like north skylight, and designed to match the appearance of the old "daylight" color. SP fluorescent colors are available in most of the widely used linear lamp types including the T8, T12, slimline, U-tube, high output and 1500 mA types.

Specification Series Deluxe (SPX) Colors

Energy-efficient, tri-phosphor fluorescent lamp colors that provide better color rendering (as measured by the CRI) than Specification Series

colors. The CRI or SPX colors is 80 or higher and varies by specific lamp type. Available chromaticities within the SPX include: SPX27 (2700K) - A visually "warm" tone intended to match the visual appearance of low wattage incandescent lamps. SPX30 (3000K) - A good match with high wattage incandescent and halogen incandescent lamps. SPX35 (3500K) - A widely used, neutral all-purpose tone. SPX41 (4100K) - Cool in appearance. SPX 50 (5000K) - a daylight simulating color with a very cool appearance much like skylight. SPX fluorescent colors are available in most of the widely-used lamp types including T8, T12, and U-Tube and high lumen Biax® types. GE compact fluorescent lamps (CFL's) typically use only SPX colors.

Spectral Power Distribution (SPD)

A graph of the radiant power emitted by a light source as a function of wavelength. SPD's provide a visual provide or "finger print" of the color characteristics of the source throughout the visible part of the spectrum.

[Minimum] Starting Temperature

The minimum ambient temperature at which the lamp will start reliably.

[Maximum] Starting Time

The time in seconds for the lamp to reach 90% of light output after being switched on.

T

TCLP Test

The Toxicity Characteristics Leaching Procedure (TCLP) test specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous on non-hazardous waste. The TCLP test measures the ability of the mercury in a lamp to leach from a landfill into ground water under very aggressive and reactive conditions.

[Minimum or Maximum] Terminal to Terminal Starting Lamp Voltage (Vrms)

The minimum or maximum allowed voltage allowed into lamp from ballast under varying conditions as specified.

Total Harmonic Distortion (THD)

A measure (in percent) of power quality. THD indicates the distortion of the alternating current wave form. Low values (<20%) are preferred.



U

UCC

The 12 digit case code derived from the last 12 digits of the 14 digit SCC code on GE's case content label.

Underwriters Laboratories (UL)

A private organization which tests and lists electrical (and other) equipment for electrical and fire safety according to recognized UL and other standards. A UL listing is not an indication of overall performance. Lamps are not UL listed except for compact fluorescent lamp assemblies - those with screw bases and built-in ballasts

Ultraviolet (UV) Radiation

Radiant energy in the range of about 100-380 nanometers (nm). For practical applications, the UV band is broken down further as follows:

Ozone Producing: 180-220nm

Bactericidal (germicidal): 220-300 nm

Erythema (skin reddening): 280-320 nm

"Black" light: 320-400 nm

The International Commission on Illumination (CIE) defines the UV bands as UV-A (315-400nm); UV-B (280 - 315 nm) and UV-C (100-280). "%UV_ Reduction" is the percentage of the particular band of UV light that is reduced.

UPC

The 12 digit code on the saleable unit that is used for scanning at the register.

[Design] Voltage

A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in waterline. For Automotive lamps, voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics. For Projection lamps, the voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps for which 115-120 is shown in the Volts column are designed at 118 volts. Lamps are available only in the design voltage(s) shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required. (Supply voltage variation can significantly affect lamp life.)

W

[Max Bulb] Wall Temperature

The maximum operating bulb wall temperature in Celcius.

Warm Up Time to 90%

The time it takes for a High Intensity Discharge lamp to reach 90% of light output after being turned on.

Watt

A unit of electrical power. Lamps are rated in watts to indicate their power consumption. Power consumed over time equals the electrical energy used.

Watt-Miser®

A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.

[Reduced] Wattage indicator

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Width of Lamp

Referenced by IEC as Dimension A.

[Typical] Working Distance

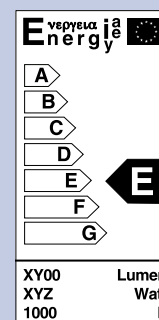
For Multi-Mirror® and other reflector Quartzline® lamps and MARC™ Projection lamps, the Working Distance shown is the distance from the front surface of the reflector rim to the film plane, in the optical system for which the lamp was first designed. In most cases, it provides a uniform plane of light for the intended aperture.

Energy efficiency classification

The European Union published a Commission Directive in January 1998 regarding the efficiency labelling of household lamps (98/11/EC) effective 1 July 1999. However a transition period is allowed for lamps displaying the label at retail outlets until 1 January 2001. The directive requires that all household lamps that are supplied directly from the mains have a label on the product/packaging that indicates the energy efficiency class of lamp (lm/W). Lamps which have a luminous flux of greater than 6,500 lumens are excluded from the labelling requirement. Reflector lamps and those with an input power of less than 4 watts are also excluded. The classification scheme grades lamps into 7 classes, from **A** to **G**, with class **A** having the highest efficiency.

The scheme classifies lamps as follows:

- A** Triphosphor fluorescent lamps, both linear and pin compact fluorescent. Integral compact fluorescent with electronic ballast
- B** Halophosphate linear fluorescent. Some pin compact fluorescent. Integral compact fluorescent with magnetic ballast
- C** High efficiency halogen lamps
- D** Other halogen lamps
- E/F** Standard incandescent lamps
- G** Decorative incandescent and others



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We hope that this Spectrum catalogue has helped you to identify the right lamps to meet your particular lighting needs. We have made every effort to make it easy to use, to include accurate, up-dated product data and to provide useful information about lamp technologies and lighting applications. We take pride in our reputation for quality customer service and if there is any further information you need, please don't hesitate to contact your nearest GE Lighting sales office.



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HaloBTT/60W/CL 230V B22	90784	53	M199/FTH	19634	37	M69/BAB	88231	35
HaloBTT/60W/CL 230V E27	90779	53	M249/EXT/CG	88227	35	M69/BAB/EC	38000	36
HaloBTT/60W/CL 230V E27	90782	53	M249/EXT/CG/EC	38014	36	M69/BAB/EC	38000	40
HaloBTT/60W/W 230V E27	90299	53	M249/EXT/CG/EC	38014	40	M69/BAB/STD	27460	36
HaloC/CI/40W/B22 240V	22768	52	M250/EXV/CG IR	45239	36	M69/BAB/STD	27460	40
HaloC/CI/40W/E14 230V	43321	52	M250/EXZ/CG	88237	35	M70/FRA	88228	35
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HaloC/CI/60W/B22 240V	22762	52	M250/EXZ/CG/EC	39611	40	M70/FRA/STD	27477	40
HaloC/CI/60W/E 14 230V	43323	52	M250/EXZ/CG/STD	27486	36	M73/Q75/GY6.35	34683	43
HaloC/CI/60W/E 14 240V	21505	52	M250/EXZ/CG/STD	27486	40	M74/Q50/GY6.35	34703	43
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HaloC/Fr/40W/E14 230V	43327	52	M252/FTB/CG	19638	37	M76/Q20/GY6.35	34712	43
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HaloC/TW/CL/40W/E14 240V	22779	52	M258/EXN/CG/STD	27475	36	M81/FMW	88229	35
HaloC/TW/CL/40W/E14 60V	22781	52	M258/EXN/CG/STD	27475	40	M81/FMW/EC	38001	36
HaloC/TW/CL/40W/E14 60V	21506	52	M262/FTD/CG	19625	37	M81/FMW/EC	38001	40
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K11/240V ST	93475	48	M280/FNV/CG/AL	88214	36	Q50MR16/240/FL START	12988	45
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F10DBX/835	12875	93	F18TBX/835/A	35937	94	F40BX/840	41173	92
F10DBX/835/4P	30032	93	F18TBX/835/A/4P	34405	94	F42TBX/827/A/4P/EOL	46312	94
F10DBX/835/4P/LL	45068	96	F18TBX/835/A/4P/LL	43916	96	F42TBX/827/A/4P/LL	43932	96
F10DBX/840	12876	93	F18TBX/840/A	35939	94	F42TBX/830/A/4P/EOL	46313	94
F10DBX/840/4P	30034	93	F18TBX/840/A/4P	34385	94	F42TBX/830/A/4P/LL	43933	96
F10DBX/840/4P/LL	45067	96	F18TBX/840/A/4P/LL	43919	96	F42TBX/835/A/4P/EOL	46314	94
F10DBX/865	12997	93	F18TBX/850/A/4P/LL	43920	96	F42TBX/835/A/4P/LL	43934	96
F10DBX/865/4P/LL	45150	96	F18TBX/865/A	35938	94	F42TBX/840/A/4P/EOL	46315	94
F11BX/827	37663	92	F212D/827/4P	41794	97	F42TBX/840/A/4P/LL	43935	96
F11BX/827/4P	91261	93	F212D/835/4P	41806	97	F42TBX/850/A/4P/LL	43936	96
F11BX/830	38928	92	F212D/860/4P	41808	97	F552D/827/A/4P	37523	97
F11BX/835	37666	92	F24BX/827	41128	92	F552D/835/A/4P	37528	97
F11BX/840	37664	92	F24BX/830	41134	92	F55BX/830	41174	92
F11BX/840/4P	37713	93	F24BX/835	41145	92	F55BX/835	41260	92
F11BX/865	38986	92	F24BX/840	41155	92	F55BX/840	41298	92
F11BX/865/4P	12603	93	F26DBX/827	35250	93	F55BX/CINEMA32	15811	92
F13DBX/827	18557	93	F26DBX/827/4P	35247	93	F55BX/CINEMA56	15814	92
F13DBX/827/4P	30035	93	F26DBX/827/4P/LL	45086	96	F57QBX/827/A/4P/EOL	48861	94
F13DBX/827/4P/LL	45146	96	F26DBX/830	35237	93	F57QBX/827/A/4P/LL	45213	96
F13DBX/830	12956	93	F26DBX/830/4P	35235	93	F57QBX/830/A/4P/EOL	48862	94
F13DBX/830/4P	10580	93	F26DBX/830/4P/LL	45081	96	F57QBX/830/A/4P/LL	45204	96
F13DBX/830/4P/LL	45138	96	F26DBX/835	35251	93	F57QBX/835/A/4P/EOL	48863	94
F13DBX/835	18559	93	F26DBX/835/4P	35248	93	F57QBX/835/A/4P/LL	45202	96
F13DBX/835/4P	30037	93	F26DBX/835/4P/LL	45076	96	F57QBX/840/A/4P/EOL	48864	94
F13DBX/835/4P/LL	45118	96	F26DBX/840	35252	93	F57QBX/840/A/4P/LL	45201	96
F13DBX/840	20532	93	F26DBX/840/4P	35236	93	F57QBX/850/A/4P/EOL	93404	94
F13DBX/840/4P	30038	93	F26DBX/840/4P/LL	45072	96	F57QBX/850/A/4P/LL	45195	96
F13DBX/840/4P/LL	45117	96	F26DBX/865	35305	93	F5BX/827	37654	92
F13DBX/850/4P/LL	45115	96	F26DBX/865/4P/LL	45070	96	F5BX/827/4P	37714	92
F13DBX/865	13015	93	F26TBX/827/A	35959	94	F5BX/840	37661	92
F13DBX/865/4P/LL	45107	96	F26TBX/827/A/4P	34393	94	F5BX/840/4P	37715	92
F13TBX/827/4P/LL	43913	96	F26TBX/827/A/4P/LL	43922	96	F70QBX/827/A/4P/EOL	48865	94
F13TBX/827/A	35940	94	F26TBX/830 /A	35952	94	F70QBX/827/A/4P/LL	45186	96
F13TBX/827/A/4P	34391	94	F26TBX/830/A/4P	34397	94	F70QBX/830/A/4P/EOL	48866	94
F13TBX/830/A	35966	94	F26TBX/830/A/4P/LL	43923	96	F70QBX/830/A/4P/LL	45208	96
F13TBX/830/A/4P	34395	94	F26TBX/835/A	35963	94	F70QBX/835/A/4P/EOL	48867	94
F13TBX/835/A	35943	94	F26TBX/835/A/4P	34406	94	F70QBX/835/A/4P/LL	45219	96
F13TBX/835/A/4P	34400	94	F26TBX/835/A/4P/LL	43924	96	F70QBX/840/A/4P/EOL	48868	94
F13TBX/840/A	35941	94	F26TBX/840/A	35964	94	F70QBX/840/A/4P/LL	45218	96
F13TBX/840/A/4P	34387	94	F26TBX/840/A/4P	34381	94	F70QBX/850/A/4P/EOL	93406	94
F162D/827	41744	97	F26TBX/840/A/4P/LL	43925	96	F70QBX/850/A/4P/LL	45215	96
F162D/827/4P	41746	97	F26TBX/850/A/4P/LL	43926	96	F7BX/827	37846	92
F162D/835	41745	97	F26TBX/865/A	35965	94	F7BX/827/4P	37658	93
F162D/835/4P	41747	97	F282DT5/827	10546	97	F7BX/830	38930	92
F162D/860	41749	97	F282DT5/827/4P	10547	97	F7BX/835	37659	92
F18BX/827	41087	92	F282DT5/835/4P	10567	97	F7BX/840	37660	92
F18BX/830	41088	92	F282DT5/840/4P	10548	97	F7BX/840/4P	37716	93
F18BX/835	41089	92	F32TBX/827/A/4P	39377	94	F7BX/865	38984	92
F18BX/840	41090	92	F32TBX/827/A/4P/LL	43927	96	F80BX/830	23282	92
F18DBX/827	12860	93	F32TBX/830/A/4P	39378	94	F80BX/830	23282	92
F18DBX/827/4P	12865	93	F32TBX/830/A/4P/LL	43928	96	F80BX/835	23572	92
F18DBX/827/4P/LL	45096	96	F32TBX/835/A/4P	39379	94	F80BX/840	23516	92
F18DBX/830	12861	93	F32TBX/835/A/4P/LL	43929	96	F80BX/840	23516	92
F18DBX/830/4P	12866	93	F32TBX/840/A/4P	39380	94	F80BX/865	23319	92
F18DBX/830/4P/LL	45095	96	F32TBX/840/A/4P/LL	43930	96	F80BX/8865	23319	92
F18DBX/835	12863	93	F32TBX/850/A/4P/LL	43931	96	F9BX/827	37651	92
F18DBX/835/4P	12869	93	F34BX/830	41163	92	F9BX/827/4P	91264	93
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F9BX/840/4P	37711	93	FLE15TBX/XM/827 B22	10631	98	FLE23QBXXM/827	23116	99
F9BX/865	38985	92	FLE15TBX/XM/827 E27	43364	98	FLE23QBXXM/840	23107	99
FLE11/GLS/827 B22	40155	101	FLE15TBX/XM/840 B22	10633	98	FLE23QBXXM/840	23120	99
FLE11/GLS/827 E14	40153	101	FLE15TBX/XM/840 E27	43366	98	FLE23QBXXM/865	23110	99
FLE11/GLS/827 E27	40154	101	FLE15TBX/XM/865 B22	10636	98	FLE23QBXXM/865	23124	99
FLE11DBX/827/B22	27949	100	FLE15TBX/XM/865 E27	43368	98	FLE23TBXSP/827/B22	13358	100
FLE11DBX/827/B22	27944	101	FLE15TBX/XM/GLS/827 B22	10714	101	FLE23TBXSP/827/E27	13354	100
FLE11DBX/827/E14	27946	100	FLE15TBX/XM/GLS/827 E27	10666	101	FLE23TBXSP/840/B22	13359	100
FLE11DBX/827/E14	27942	101	FLE15TBXSP/827/B22	13332	100	FLE23TBXSP/840/E27	13355	100
FLE11DBX/827/E27	27947	100	FLE15TBXSP/827/B22	16840	101	FLE23TBXSP/865/B22	13361	100
FLE11DBX/827/E27	27943	101	FLE15TBXSP/827/E27	13328	100	FLE23TBXSP/865/E27	13356	100
FLE11DBX/840/E27	27527	100	FLE15TBXSP/827/E27	13366	101	FLE24QBXXA/827 E27	36741	99
FLE11DBX/840/E27	27523	101	FLE15TBXSP/840/B22	13333	100	FLE24QBXXA/840 E27	36742	99
FLE11DBX/865/B22	27534	100	FLE15TBXSP/840/E27	16842	101	FLE24QBXXA/865 E27	36743	99
FLE11DBX/865/B22	27526	101	FLE15TBXSP/840/E27	13329	100	FLE28QBXXA/827 E27	39359	99
FLE11DBX/865/E14	27531	100	FLE15TBXSP/840/E27	13367	101	FLE28QBXXA/865 E27	39365	99
FLE11DBX/865/E14	27525	101	FLE15TBXSP/865/B22	13334	100	FLE30W2D/827/GR10	92596	97
FLE11DBX/865/E27	27528	100	FLE15TBXSP/865/B22	16843	101	FLE30W2D/835/GR10	92598	97
FLE11DBX/865/E27	27524	101	FLE15TBXSP/865/E27	13330	100	FLE30W2D/840/GR10	92599	97
FLE11HLX/T3/827/B22	40439	103	FLE15TBXSP/865/E27	16838	101	FLE5CDL/827 E14 220-240V	40160	103
FLE11HLX/T3/827/E27	40438	103	FLE18W2D/827/GR10	18122	97	FLE7CDL/827 E14 220-240V	40162	103
FLE11TLX/T3/827/B22	40573	100	FLE18W2D/830/GR10	18121	97	FLE7GLS/827 E27	40133	101
FLE11TLX/T3/827/E14	40831	100	FLE18W2D/835/GR10	18123	97	FLE7GLS/827 E14	40121	101
FLE11TLX/T3/827/E27	40837	100	FLE18W2D/840/GR10	18120	97	FLE7GLS/827 E27	40130	101
FLE11TBX/T3/840/E27	40839	100	FLE20/GLS/827 B22	40159	101	FLE7R50/827 E14	40206	103
FLE11TBX/T3/865/B22	40649	100	FLE20/GLS/827 E27	40158	101	FLE7R63/827 E14	40210	103
FLE11TBX/T3/865/E14	40646	100	FLE20HLX/T3/827/B22	40454	103	FLE7R63/827 E27	40211	103
FLE11TBX/T3/865/E27	40645	100	FLE20HLX/T3/827/E27	40443	103	FLE8GLS/T2/827/E14	45848	102
FLE11TBX/XM/827 B22	10620	98	FLE20QBXXM/827	23033	99	FLE8GLS/T2/827/E27	45850	102
FLE11TBX/XM/827 E14	43352	98	FLE20QBXXM/827	23017	99	FLE8HLX/T2/827/E14	45254	103
FLE11TBX/XM/827 E27	43353	98	FLE20QBXXM/840	23034	99	FLE8HLX/T2/827/E27	45251	103
FLE11TBX/XM/840 B22	10623	98	FLE20QBXXM/840	23018	99	FLE8SOFT/T2/827/E14	45824	102
FLE11TBX/XM/840 E14	43355	98	FLE20QBXXM/865	23022	99	FLE8SOFT/T2/827/E27	45827	102
FLE11TBX/XM/840 E27	43356	98	FLE20QBXXM/865	23040	99	FLE9/GLS/827 B22	40152	101
FLE11TBX/XM/865 B22	10626	98	FLE20TBX/GLS/827 B22	92227	101	FLE9/GLS/827 E14	40147	101
FLE11TBX/XM/865 E14	43360	98	FLE20TBX/GLS/827 E27	92229	101	FLE9/GLS/827 E27	40148	101
FLE11TBX/XM/865 E27	43361	98	FLE20TBX/L/827 B22	92263	99	FLE9DBX/827/B22	27941	100
FLE11TBX/XM/865/E27	93019	103	FLE20TBX/L/827 E27	36738	99	FLE9DBX/827/E14	27931	101
FLE11TBX/XM/865/E27	92221	103	FLE20TBX/L/827 E27	92267	99	FLE9DBX/827/B22	27934	100
FLE11TBX/XM/865/E27	10710	101	FLE20TBX/L/840 B22	92264	99	FLE9DBX/827/E14	27926	101
FLE11TBX/XM/865/E27	10664	101	FLE20TBX/L/840 E27	36744	99	FLE9DBX/827/E27	27940	100
FLE11TBX/XM/865/E27	10663	101	FLE20TBX/L/840 E27	92268	99	FLE9DBX/827/E27	27928	101
FLE11TBX/XM/865/E27	10707	103	FLE20TBX/L/865 B22	92265	99	FLE9DBX/840/E27	27512	100
FLE11TBX/XM/865/E27	10703	103	FLE20TBX/L/865 E27	36745	99	FLE9DBX/840/E27	27505	101
FLE11TBX/XM/865/E27	10704	103	FLE20TBX/L/865 E27	92269	99	FLE9DBX/865/B22	27519	100
FLE12GLS/T2/827/E14	45835	102	FLE20TBX/L/GG/827 B22	92217	101	FLE9DBX/865/B22	27511	101
FLE12GLS/T2/827/E27	45837	102	FLE20TBX/L/GG/827 E27	92220	101	FLE9DBX/865/E14	27517	100
FLE12HLX/T2/827/E14	45267	103	FLE20TBX/L/GG/840 E27	12173	101	FLE9DBX/865/E14	27510	101
FLE12HLX/T2/827/E27	45260	103	FLE20TBX/L/GG/840 E27	12173	103	FLE9DBX/865/E27	27514	100
FLE12SOFT/T2/827/	45816	102	FLE20TBX/ME/827/B22	42734	100	FLE9DBX/865/E27	27506	101
FLE12SOFT/T2/827/E27	45819	102	FLE20TBX/ME/827/E27	41996	100	FLE9TBX/T3/827/B22	40517	100
FLE15/GLS/827 B22	40157	101	FLE20TBX/ME/840/B22	43091	100	FLE9TBX/T3/827/E14	40828	100
FLE15/GLS/827 E27	40156	101	FLE20TBX/ME/840/E27	43089	100	FLE9TBX/T3/827/E27	40829	100
FLE15/R95/827 E27	93236	103	FLE20TBX/ME/865/B22	43092	100	FLE9TBX/T3/840/E27	40833	100
FLE15/GLS/T2/827/E27	45831	102	FLE20TBX/ME/865/E27	43090	100	FLE9TBX/T3/865/B22	40639	100
FLE15HLX/T2/827/E14	45276	103	FLE20TBX/XM/827 B22	10638	98	FLE9TBX/T3/865/E14	40638	100
FLE15HLX/T2/827/E27	45271	103	FLE20TBX/XM/827 E27	43370	98	FLE9TBX/T3/865/E27	40631	100
FLE15SOFT/T2/827/E27	45810	102	FLE20TBX/XM/840 B22	10640	98	FLE9TBX/XM/827 B22	10611	98
FLE15TBX/B/827 E27	93432	103	FLE20TBX/XM/840 E27	43338	98	FLE9TBX/XM/827 E14	43342	98
FLE15TBX/L/827 B22	92250	99	FLE20TBX/XM/865 B22	10644	98	FLE9TBX/XM/827 E27	43343	98
FLE15TBX/L/827 E27	36739	99	FLE20TBX/XM/865 E27	43340	98	FLE9TBX/XM/840 B22	10614	98
FLE15TBX/L/827 E27	92259	99	FLE20TBXSP/827/B22	13344	100	FLE9TBX/XM/840 E14	43345	98
FLE15TBX/L/840 B22	92251	99	FLE20TBXSP/827/B22	16850	101	FLE9TBX/XM/840 E27	43346	98
FLE15TBX/L/840 E27	36746	99	FLE20TBXSP/827/E27	13336	100	FLE9TBX/XM/865 B22	10617	98
FLE15TBX/L/840 E27	92260	99	FLE20TBXSP/827/E27	16845	101	FLE9TBX/XM/865 E14	43349	98
FLE15TBX/L/865 B22	92252	99	FLE20TBXSP/840/B22	13349	100	FLE9TBX/XM/865 E27	43350	98
FLE15TBX/L/865 E27	36747	99	FLE20TBXSP/840/B22	16851	101	FLE9TBX/XM/CDL/827 B22	10682	102
FLE15TBX/L/865 E27	92261	99	FLE20TBXSP/840/E27	13337	100	FLE9TBX/XM/CDL/827 E27	40171	103
FLE15TBX/L/GG/827	92216	101	FLE20TBXSP/840/E27	16846	101	FLE9TBX/XM/CDL/827 E14	10684	102
FLE15TBX/L/GG/827 B22	92213	101	FLE20TBXSP/865/B22	13350	100	FLE9TBX/XM/CDL/827 E14	40163	103
FLE15TBX/L/GG/840 E27	12172	101	FLE20TBXSP/865/B22	16852	101	FLE9TBX/XM/CDL/827 E27	10683	102
FLE15TBX/L/GG/840 E27	12172	103	FLE20TBXSP/865/E27	13342	100	FLE9TBX/XM/CDL/827 E27	40170	103
FLE15TBX/ME/827/B22	42730	100	FLE20TBXSP/865/E27	16847	101	FLE9TBX/XM/GLS/827 B22	10657	101
FLE15TBX/ME/827/E27	41981	100	FLE23QBXXA/GG/827 B22	92189	101	FLE9TBX/XM/GLS/827 E14	10660	101
FLE15TBX/ME/840/B22	43087	100	FLE23QBXXA/GG/827 E27	92190	101	FLE9TBX/XM/GLS/827 E27	10659	101
FLE15TBX/ME/840/E27	43085	100	FLE23QBXXA/GG/840 E27	12174	101	OT FLE15TBX/827/B22 SEN2220-240V	45301	103
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F55BX/StudioBIAx56	41873	153	GKV 230V	39739	140	Q500PAR64/NSP	30286	138
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21629	60A1/CL/B22	12	10877	40C1/O/E27	17	90487	40C1/CL/E14	17
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21670	25A1/FR/E27	12	12587	15P1/G/E14	20	90564	25D1/CL/E27	16
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34908	60A1/FR/LL/B22	13	19789	40D1/FR/E14	16	91117	100G95/O/E27	19
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91127	200A1/CL/E27	12	27164	60C1/BentTip/CL/B15	18	91147	100G80/O/E27	18
91128	200A1/FR/E27	12	27166	40C1/BentTip/FR/B22	18	91158	60G60/O/E14	18
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91231	60A1/DAYLIGHT/E27	13	27172	60C1/BentTip/FR/B22	18	91163	25A1/B/E27	19
91233	100A1/DAYLIGHT/E27	13	27176	60C1/BentTip/FR/E14	18	91164	25A1/G/E27	19
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91753	60A1/SL-ENRICH/E27	14	28720	150R/IR/CL/E27	23	91229	60A1/FR/RS/E27	27
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91755	40A1/SL-ENRICH/B22	14	29051	42V60/FR/E27	27	91288	150R/IR/SA/E27	23
91756	60A1/SL-ENRICH/B22	14	31519	40A1/FR/RS/B22	27	91293	40A1/EXTERIOR/CL/E27	27
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91530	40R63/B/E27	23	91763	60A1/T-COMPUTER/E27	14	92004	25C1/G/E14	20
91531	40R63/Y/E27	23	91765	60A1/T-COMPUTER/B22	14	92018	100A1/FR/RS/B22	27
91532	40R63/G/E27	23	91766	40D1/COMPUTER/E14	14	92046	15P1/CL/E14	25
91533	40R63/G/E27	23	91780	15P1/CL/B15	25	92047	15P1/FR/E14	25
91534	60C1/FR/E14	17	91873	24V100/FR/E27	27	92048	25P1/FR/E14	25
91536	100MK1/O/E27	14	91874	24V40/FR/E27	27	92060	100PAR/IR/E27	23
91539	80PAR/FL/E27	23	91875	24V60/FR/E27	27	92127	60R80/E27	22
91540	80PAR/FL/R/E27	23	91876	24V40/CL/E27	27	92130	60R63/E27	22
91542	175PAR/IR/E27	23	91877	24V60/CL/E27	27	92366	40R50/E14	22
91543	80PAR/FL/G/E27	23	91878	24V60/CL/B22	27	92373	25R50/E14	22
91572	60PAR/SP/E27	22	91879	24V40/CL/B22	27	92604	25ELDEA/O/E14	19
91573	120PAR/FL/E27	22	91911	15D1/CL/B22	16	92605	40ELDEA/O/E14	19
91574	80PAR/FL/E27	22	91912	15D1/FR/B22	16	92839	60R80/E27	22
91575	60PAR/FL/E27	22	91917	15D1/CL/E27	16	92858	40R80/E27	22
91576	120PAR/SP/E27	22	91918	25D1/GB/E14	16	92859	75R80/E27	22
91577	80PAR/SP/E27	22	91918	25WSPH/CMRGold/E14	17	92860	100R80/E27	22

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10767	AR111 50W12V FL	40	17201	FTF/M199/CG	37	21397	Halo A/FR/60W/B22 240V	52
10768	AR111 75W12V SP	40	18157	Q50MR16/230V/G210	45	21398	Halo A/CL/40W/B22 240V	52
10769	AR111 75W12V FL	40	19624	Q75MR16/240/25°	45	21399	Halo A/FR/40W/B22 240V	52
10771	AR111 75W12V WFL	40	19625	M262/FTD/CG	37	21400	Halo A/CL/60W/E27 230V	52
10774	AR111 35W12V SP	40	19626	M62/FTD	37	21401	Halo A/FR/60W/E27 230V	52
10775	AR111 35W12V FL	40	19627	M266/FTF/CG	37	21402	Halo A/CL/40W/E27 230V	52
10796	G9 40W 240V Clear	47	19630	M51/FTC	37	21403	Halo A/FR/40W/E27 230V	52
10803	G9 60W 240V Clear	47	19634	M199/FTH	37	21490	HaloC/TWCL/40W/E14 230V	52
10804	G9 60W 240V Frosted	47	19635	M66/FTF	37	21495	HaloC/TWFR/40W/E14 230V	52
10806	G9 25W 230V Clear	47	19636	M251/FTC/CG	37	21499	HaloC/CL/40W/E14 240V	52
10809	G9 25W 240V Clear	47	19637	M64/FTA	37	21505	HaloC/CL/60W/E14 240V	52
10810	G9 25W 230V Frosted	47	19638	M252/FTB/CG	37	21506	HaloC/TWCL/40W/E14 60V	52
10811	G9 25W 240V Frosted	47	19639	M264/FTA/CG	37	22498	SHORTG9 40W CL 240V	47
10813	G9 40W 230V Clear	47	19640	M265/FTB/CG	37	22501	SHORTG9 40W FR 240V	47
10814	G9 40W 230V Frosted	47	19641	M65/FTB	37	22504	SHORTG9 40W CL 230V	47
10815	G9 40W 240V Frosted	47	19687	M54/FST	37	22507	SHORTG9 40W FR 230V	47
10816	G9 60W 230V Clear	47	19997	M63/FSV	37	22508	SHORTG9 60W CL 240V	47
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10818	G9 75W 230V Clear	47	20840	EVC/CC	34	22513	SHORTG9 60W CL 230V	47
10819	G9 75W 240V Clear	47	20841	EYJ/CC	34	22515	SHORTG9 60W FR 230V	47
10820	G9 75W 230V Frosted	47	20843	EYF/CC	34	22760	HaloC/FR/40W/E14 240V	52
10821	G9 75W 240V Frosted	47	20857	BAB/CG	34	22762	HaloC/CL/60W/B22 240V	52
10857	Q35MR16/240/FL	45	20858	ESK/CG	34	22764	HaloC/FR/60W/B22 240V	52
10859	Q20MR16/240/FL	45	20859	FMW/CG	34	22768	HaloC/CL/40W/B22 240V	52
10896	Q35MR16/230/FL	45	20860	FRB/CG	34	22772	HaloC/FR/40W/B22 240V	52
10898	Q20MR16/230/FL GU10 55	45	20864	FRA/CG	34	22775	HaloC/TWFR/60W/E14 240V	52
12708	M11/Q10/G4 ST	43	20865	FNW/CG	34	22779	HaloC/TWCL/40W/E14 240V	52
12711	M47/Q20/G4 ST	43	20867	EXN/CG	34	22780	HaloC/TWFR/40W/E14 240V	52
12712	M95/Q35/GY6.35 ST	43	20871	EXZ/CG	34	22781	HaloC/TWCL/40W/E14 60V	52
12713	M32/Q50/GY6.35 ST	43	20872	EXT/CG	34	22782	HaloC/TWFR/60W/E14 230V	52
12718	Q100/GY6.35 ST	43	20873	EVC/CG	34	22783	HaloC/FR/60W/E14 240V	52
12988	Q50MR16/240/FL START	45	20874	EYJ/CG	34	23503	HAL 40R50/E14 230V	53
12995	Q50MR16/240/FL START	45	20876	EYF/CG	34	23504	HAL 60R63/E27 230V	53
12998	Q50MR16/240/FL START	45	21385	Halo A/CL/60W/E27 240V	52	23505	HAL 60R80/E27 230V	53
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23532	SHORTG9 75W FR 240V	47	35700	Q50T3/12V GY6.35	43	45240	M281/FMW/CG IR	36
26318	SHORTG9 25W CL 240V	47	35701	Q75T3/12V GY6.35	43	45244	M258/EXN/CG IR	36
27460	M69/BAB/STD	36	35705	Q10T2.5/12V G4	43	45245	M270/FRA/CG IR	36
27460	M69/BAB/STD	40	35710	Q20T2.5/12V G4	43	45441	HAL 100R80/E27 240V	53
27465	M81/FMW/STD	36	38000	M69/BAB/EC	36	45442	HAL 60R80/E27 240V	53
27465	M81/FMW/STD	40	38000	M69/BAB/EC	40	45692	SHORTG9 25W CL 230V	47
27467	M58/EXN/STD	36	38001	M81/FMW/EC	36	45693	SHORTG9 25W FR 230V	47
27467	M58/EXN/STD	40	38001	M81/FMW/EC	40	45693	SHORTG9 25W FR 240V	47
27468	M80/FNV/STD	36	38002	M58/EXN/EC	36	88214	M280/FNV/CG/AL	36
27468	M80/FNV/STD	40	38002	M58/EXN/EC	40	88215	M258/EXN/CG/AL	36
27473	M269/BAB/CG/STD	36	38003	M68/ESX/EC	36	88216	M269/BAB/CG/AL	36
27473	M269/BAB/CG/STD	40	38003	M68/ESX/EC	40	88217	M281/FMW/CG/AL	36
27474	M281/FMW/CG/STD	36	38004	FRB/EC	36	88226	M268/ESX/CG	35
27474	M281/FMW/CG/STD	40	38004	FRB/EC	40	88227	M249/EXT/CG	35
27475	M258/EXN/CG/STD	36	38005	M49/EXT/EC	36	88228	M70/FRA	35
27475	M258/EXN/CG/STD	40	38005	M49/EXT/EC	40	88229	M81/FMW	35
27476	M280/FNV/CG/STD	36	38006	M269/BAB/CG/EC	36	88230	M270/FRA/CG	35
27476	M280/FNV/CG/STD	40	38006	M269/BAB/CG/EC	40	88231	M69/BAB	35
27477	M70/FRA/STD	36	38007	M281/FMW/CG/EC	36	88232	M80/FNV	35
27477	M70/FRA/STD	40	38007	M281/FMW/CG/EC	40	88233	M50/EXZ	35
27486	M250/EXZ/CG/STD	36	38011	M258/EXN/CG/EC	36	88234	M58/EXN	35
27486	M250/EXZ/CG/STD	40	38011	M258/EXN/CG/EC	40	88235	M269/BAB/CG	35
27487	M270/FRA/CG/STD	36	38012	M268/ESX/CG/EC	36	88236	M281/FMW/CG	35
27487	M270/FRA/CG/STD	40	38012	M268/ESX/CG/EC	40	88237	M250/EXZ/CG	35
27826	40PAR16/230/FL	49	38013	FRB/CG/EC	36	88238	M280/FNV/CG	35
27845	40PAR16/240/FL	49	38013	FRB/CG/EC	40	88239	M258/EXN/CG	35
29161	K1/Q500 120V/CL	48	38014	M249/EXT/CG/EC	36	90299	HaloBTT/60W/W 230V E27	53
29165	K1/Q500 T2.5/CL	48	38014	M249/EXT/CG/EC	40	90308	HaloBTT/100W/W 230V E27	53
29168	K1/Q500 T2.5/CL	48	39236	M280/FNV/CG/EC	36	90779	HaloBTT/60W/CL 230V E27	53
29173	K3/Q750 T3/CL	48	39236	M280/FNV/CG/EC	40	90780	HaloBTT/100W/CL 230V E27	53
29176	K3/Q750 T3/CL	48	39611	M250/EXZ/CG/EC	36	90781	HaloBTT/150W/CL 230V E27	53
29177	K4/Q1000 120V/CL	48	39611	M250/EXZ/CG/EC	40	90782	HaloBTT/60W/CL 230V E27	53
29180	K4/Q1000 T3/CL	48	39874	M50/EXZ/EC	36	90783	HaloBTT/100W/CL 230V E27	53
29181	K4/Q1000 T3/CL	48	39874	M50/EXZ/EC	40	90784	HaloBTT/60W/CL 230V B22	53
29184	K5/Q1500 T3/CL	48	39881	M80/FNV/EC	36	90785	HaloBTT/100W/CL 230V B22	53
29187	K5/Q1500 T3/CL	48	39881	M80/FNV/EC	40	91427	K14/Q100 T2.5/CL	48
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29410	TAL 140	39	40363	50PAR20/230/SP	49	91432	K41/Q100 CL	48
30877	K8/Q2000 T3/CL	48	40364	50PAR20/240/SP	49	91433	K28/Q150 T2.5/CL	48
30886	K8/Q2000 T3/CL	48	40365	50PAR20/240/FL	49	91434	K11/Q200 T2.5/CL	48
30899	TAL 422/CC	39	40366	75PAR30/230/SP	49	91435	K32/Q250 T2.5/CL	48
30900	TAL 421/CC	39	40367	75PAR30/240/SP	49	91436	K9/Q300 T2.5/CL	48
30901	TAL 420/CC	39	40402	Q50MR16/230/25°	45	91506	K14/Q100 T2.5/CL	48
30927	TAL 414/CC	39	40403	Q50MR16/230/36°	45	91507	K12/Q150 T2.5/CL	48
30931	TAL 416/CC	39	40404	Q50MR16/240/25°	45	91508	K27/Q150 T2.5/CL	48
30932	TAL 417/CC	39	40405	Q50MR16/240/36°	45	91509	K15/Q250 T2.5/CL	48
30934	TAL 419/CC	39	41915	AR111 100W/12V SP	40	91511	K28/Q150 T2.5/CL	48
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31598	K1/Q375 T3/230V HIR	48	41923	AR111 100W/12V WFL	40	91513	K32/Q250 T2.5/CL	48
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32109	Halo T38/1000W/E40/240	53	43290	40HaloTub G9B	53	91747	K12/Q150 120V/CL	48
32481	100PAR30/240/SP	49	43292	60HaloTub G9B	53	91748	K28/Q150 120V/CL	48
32482	100PAR30/240/FL	49	43294	40HaloTub G9B	53	91749	K11/Q200 120V/CL	48
32483	100PAR30/230/SP	49	43298	60HaloTub G9B	53	91750	K9/Q300 120V/CL	48
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34663	M67/Q100 GY6.35 24V	43	43323	HaloC/Cl/60W/E14 230V	52	91775	75PAR25/230/FL	49
34664	M180/Q100/GY6.35	43	43327	HaloC/Fr/40W/E14 230V	52	91776	50PAR25/230/SP	49
34674	M11/H10 G4	43	43329	HaloC/Fr/60W/E14 230V	52	91778	50PAR25/240/SP	49
34676	M28/Q100 GY6.35	43	43711	K10/1000 T3/CL	48	92165	75PAR25/240/FL	49
34682	M313/Q75/GY6.35	43	43712	K10/1000 T3/CL	48	92534	HaloG95/60W/W 230V E27	52
34683	M73/Q75/GY6.35	43	44380	HALOCUBE/B22 240V G9B	52	92535	HaloG95/100W/W 230V E27	52
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34702	M32/Q50 GY6.35	43	44566	240 60HALOCUBE/B22 240V G9B	52	92729	Q50MR16/230/FL	45
34703	M74/Q50/GY6.35	43	44576	HALOCUBE G9B	52	92730	Q50MR16/240/FL	45
34708	M95/Q35/GY6.35	43	44649	40HALOKRVP/B22 240V	53	92824	Q50PAR16/240/FL	49
34710	M75/Q35/GY6.35	43	44666	75HALOKRVP/E27 230V	53	93471	K11/230V ST	48
34711	M116/Q35/GY6.35	43	44670	60HALOKRVP/E27 230V	53	93472	K9/230V ST	48
34712	M76/Q20/GY6.35	43	44683	40HALOKRVP/E27 230V	53	93473	K12/230V ST	48
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34718	M30/ESB/Q20 G4	43	44720	40HALOSP/CL G9B	52	93700	J89 TUBHAL	53
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16969	F30W/AR/FS	74	29904	F40U/8/835	77	42793	F70W/840	70
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16980	F25W/AR/FR	74	31260	F100W/33	76	43514	F70W/T8/XLR/LL/840	70
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16984	F38W/AR/FR	74	31268	F125W/54	76	90197	F24W/T5/840	65
16985	F58W/AR/FR	74	32656	F75W/830	75	90198	F24W/T5/865	65
16987	F15W/AR/SA	74	32658	F125W/830	75	90200	F39W/T5/827	65
16988	F18W/AR/SA	74	32696	F85W/830	75	90201	F39W/T5/830	65
16991	F25W/AR/SA	74	34747	F20W/8/BL	76	90202	F39W/T5/835	65
16992	F30W/AR/SA	74	34883	F18W/54	72	90203	F39W/T5/840	65
16995	F36W/AR/SA	74	34886	F36W/54	72	90204	F39W/T5/865	65
16999	F38W/AR/SA	74	35098	F18W/33	72	90205	F54W/T5/827	65
17000	F58W/AR/SA	74	35099	F36W/33	72	90206	F54W/T5/835	65
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17205	F18W/840	74	36714	155/200	78	90224	F49W/T5/865	65
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17209	F36W/840	74	37006	F8W/35BP	66	90226	F80W/T5/830	65
17525	F30W/25	72	37008	F8W/827BP	66	90227	F80W/T5/835	65
18137	F30W/33	72	37009	F8W/840BP	66	90228	F80W/T5/840	65
18138	F30W/827	70	37139	F18W/35	72	90229	F80W/T5/865	65
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18145	F30W/29	72	37754	F8W/29	66	90239	F14W/T5/830	64
18146	F30W/54	72	37755	F8W/33	66	90244	F14W/T5/865	64
18147	F30W/35	72	37756	F8W/35	66	90245	F21W/T5/827	64
18192	F36W/830	70	37864	155/800	78	90246	F14W/T5/835	64
19977	F36W/827	70	37974	155/801	78	90247	F14W/T5/840	64
19991	F36W/835	70	37975	155/801	78	90248	F21W/T5/830	64
23247	F15W/827	70	39437	F13W/29	66	90249	F21W/T5/835	64
23248	F15W/830	70	39439	F13W/35	66	90250	F21W/T5/840	64
23249	F15W/840	70	39440	F13W/33	66	90251	F21W/T5/865	64
23260	F36W1M/830	70	39441	F4W/33	66	90252	F28W/T5/827	64
23262	F36W1M/840	70	39442	F6W/35	66	90253	F28W/T5/830	64
25618	F40W/8/BL	76	39445	F6W/33	66	90254	F28W/T5/835	64
25619	F96T12/CW	77	39446	F4W/35	66	90255	F28W/T5/840	64
27011	F8/T5/33/GE	66	39447	F13W/827	66	90256	F28W/T5/865	64
27027	F8/T5/35/GE	66	39447	F8W/BL Blocklight Blue	66	90257	F35W/T5/827	64
29524	F15W/33	72	39882	F4W/BL Blocklight Blue	66	90258	F35W/T5/830	64
29527	F15W/29	72	39883	F6W/BL Blocklight Blue	66	90259	F35W/T5/835	64
29531	F15W/35	72	39929	F20W/33/RS/RS	75	90260	F35W/T5/840	64
29533	F15W/25	72	39934	F65W/35/MS	76	90261	F35W/T5/865	64
29534	F15W/54	72	39938	F40W/33/MS	76	90262	F24W/T5/827	65
29546	F18W/29	72	39941	F65W/33/RS/RS	75	90264	F24W/T5/830	65
29548	F18W/25	72	39943	F40W/33/RS/RS	75	90264	F24W/T5/835	65
29565	F36W/29	72	39944	F40W/54/RS/RS	75	90265	F24W/T5/840	65
29568	F36W/25	72	39945	F20W/54/RS/RS	75	90266	F24W/T5/865	65
29577	F58W/25	72	39955	F40W/35/MS	76	90267	F39W/T5/827	65
29586	F70W/33	72	39961	F14W/T5/835	64	90268	F39W/T5/830	65
29587	F70W/29	72	39964	F14W/T5/830	64	90269	F39W/T5/835	65
29589	F70W/35	72	39965	F14W/T5/827	64	90270	F39W/T5/840	65
29687	F15W/55	72	39973	F14W/T5/840	64	90271	F39W/T5/865	65
29746	F20W/33	76	39976	F21W/T5/827	64	90272	F54W/T5/827	65
29747	F20W/29	76	39976	F21W/T5/830	64	90273	F54W/T5/830	65
29748	F20W/35	76	39977	F21W/T5/835	64	90274	F54W/T5/835	65
29750	F20W/54	76	39978	F21W/T5/840	64	90275	F54W/T5/840	65
29762	F40W/2/35	76	39979	F21W/T5/865	64	90276	F54W/T5/865	65
29765	F40W/33	76	39980	F28W/T5/827	64	90277	F49W/T5/827	65
29767	F40W/29	76	39982	F28W/T5/830	64	90278	F49W/T5/830	65

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90281	F49W/T5/865	65	92297	FC12T9/CW	77	93331	F58W/835	70
90282	F80W/T5/827	65	92298	FC12T9/D	77	93333	F58W/840	70
90283	F80W/T5/830	65	92517	F36WM/25	72	93334	F58W/830	70
90285	F80W/T5/840	65	92518	F36WM/33	72	93372	F40W/54/RS	75
90286	F80W/T5/865	65	92519	F36WM/54	72	29570/ 35353*	F58W/33	72
91313	F65W/54	76	92520	F38W/35	72	29571/ 35354*	F58W/29	72
91314	F65W/35	76	93311	F18W/835	70	29575/ 37627*	F58W/35	72
91450	F8/T5/33/GE	66	93315	F18W/827	70	29580/35355*	F58W/54	72
91451	F8/T5/35/GE	66	93317	F18W/840	70	93763	M270/FRA/CG/STD	36

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10547	F282DT5/827/4P	97	13337	FLE20TBXSP/840/E27	100	27527	FLE11DBX/840/E27	100
10548	F282DT5/840/4P	97	13342	FLE20TBXSP/865/E27	100	27528	FLE11DBX/865/E27	100
10550	F382DT5/827/4P	97	13344	FLE20TBXSP/827/B22	100	27531	FLE11DBX/865/E14	100
10566	F382DT5/835/4P	97	13349	FLE20TBXSP/840/B22	100	27534	FLE11DBX/865/B22	100
10567	F282DT5/835/4P	97	13350	FLE20TBXSP/865/B22	100	27926	FLE9DBX/827/E14	101
10580	F13DBX/830/4P	93	13354	FLE23TBXSP/827/E27	100	27928	FLE9DBX/827/E27	101
10611	FLE9TBX/XM/827 B22	98	13355	FLE23TBXSP/840/E27	100	27931	FLE9DBX/827/B22	101
10614	FLE9TBX/XM/840 B22	98	13356	FLE23TBXSP/865/E27	100	27934	FLE9DBX/827/E14	100
10617	FLE9TBX/XM/865 B22	98	13358	FLE23TBXSP/827/B22	100	27940	FLE9DBX/827/E27	100
10620	FLE11TBX/XM/827 B22	98	13359	FLE23TBXSP/840/B22	100	27941	FLE9DBX/827/B22	100
10623	FLE11TBX/XM/840 B22	98	13361	FLE23TBXSP/865/B22	100	27942	FLE11DBX/827/E14	101
10626	FLE11TBX/XM/865 B22	98	13366	FLE15TBXSP/827/E27	101	27943	FLE11DBX/827/E27	101
10631	FLE15TBX/XM/827 B22	98	13367	FLE15TBXSP/840/E27	101	27944	FLE11DBX/827/B22	101
10633	FLE15TBX/XM/840 B22	98	15811	F55BX/CINEMA32	92	27946	FLE11DBX/827/E14	100
10636	FLE15TBX/XM/865 B22	98	15814	F55BX/CINEMA56	92	27947	FLE11DBX/827/E27	100
10638	FLE20TBX/XM/827 B22	98	15816	F36BX/CINEMA32	92	27949	FLE11DBX/827/B22	100
10640	FLE20TBX/XM/840 B22	98	15819	F36BX/CINEMA56	92	30031	F10DBX/827/4P	93
10644	FLE20TBX/XM/865 B22	98	16838	FLE15TBXSP/865/E27	101	30032	F10DBX/835/4P	93
10657	FLE9TBX/XM/GLS/827 B22	101	16840	FLE15TBXSP/827/B22	101	30034	F10DBX/840/4P	93
10659	FLE9TBX/XM/GLS/827 E27	101	16842	FLE15TBXSP/840/B22	101	30035	F13DBX/827/4P	93
10660	FLE9TBX/XM/GLS/827 E14	101	16843	FLE15TBXSP/865/B22	101	30037	F13DBX/835/4P	93
10663	FLE11TBX/XM/GLS/827 E27	101	16845	FLE20TBXSP/827/E27	101	30038	F13DBX/840/4P	93
10664	FLE11TBX/XM/GLS/827 E14	101	16846	FLE20TBXSP/840/E27	101	34381	F26TBX/840/A/4P	94
10666	FLE15TBX/XM/GLS/827 E27	101	16847	FLE20TBXSP/865/E27	101	34385	F18TBX/840/A/4P	94
10682	FLE9TBX/XM/CDL/827 B22	102	16850	FLE20TBXSP/827/B22	101	34387	F13TBX/840/A/4P	94
10683	FLE9TBX/XM/CDL/827 E27	102	16851	FLE20TBXSP/840/B22	101	34391	F13TBX/827/A/4P	94
10684	FLE9TBX/XM/CDL/827 E14	102	16852	FLE20TBXSP/865/B22	101	34392	F18TBX/827/A/4P	94
10703	FLE11TBX/XM/R63/827 B22	103	18120	FLE18W2D/840/GR10	97	34393	F26TBX/827/A/4P	94
10704	FLE11TBX/XM/R63/827 E27	103	18121	FLE18W2D/830/GR10	97	34395	F13TBX/830/A/4P	94
10707	FLE11TBX/XM/R63/827	103	18122	FLE18W2D/827/GR10	97	34396	F18TBX/830/A/4P	94
10710	FLE11TBX/XM/GLS/827 B22	101	18123	FLE18W2D/835/GR10	97	34397	F26TBX/830/A/4P	94
10714	FLE15TBX/XM/GLS/827 B22	101	18557	F13DBX/827	93	34400	F13TBX/835/A/4P	94
12172	FLE15TBX/L/GG/840 E27	101	18559	F13DBX/835	93	34405	F18TBX/835/A/4P	94
12172	FLE15TBX/L/GG/840 E27	103	20532	F13DBX/840	93	34406	F26TBX/835/A/4P	94
12173	FLE20TBX/L/GG/840 E27	101	23017	FLE20QBXXM/827	99	35235	F26DBX/830/4P	93
12173	FLE20TBX/L/GG/840 E27	103	23018	FLE20QBXXM/840	99	35236	F26DBX/840/4P	93
12174	FLE23QBXXA/GG/840 E27	101	23022	FLE20QBXXM/865	99	35237	F26DBX/830	93
12174	FLE23QBXXA/GG/840 E27	103	23033	FLE20QBXXM/827	99	35247	F26DBX/827/4P	93
12603	F11BX/865/4P	93	23034	FLE20QBXXM/840	99	35248	F26DBX/835/4P	93
12860	F18DBX/827	93	23040	FLE20QBXXM/865	99	35250	F26DBX/827	93
12861	F18DBX/830	93	23106	FLE23QBXXM/827	99	35251	F26DBX/835	93
12863	F18DBX/835	93	23107	FLE23QBXXM/840	99	35252	F26DBX/840	93
12864	F18DBX/840	93	23110	FLE23QBXXM/865	99	35305	F26DBX/865	93
12865	F18DBX/827/4P	93	23116	FLE23QBXXM/827	99	35937	F18TBX/835/A	94
12866	F18DBX/830/4P	93	23120	FLE23QBXXM/840	99	35938	F18TBX/865/A	94
12869	F18DBX/835/4P	93	23124	FLE23QBXXM/865	99	35939	F18TBX/840/A	94
12870	F18DBX/840/4P	93	23282	F80BX/830	92	35940	F13TBX/827/A	94
12872	F10DBX/827	93	23282	F80BX/830	92	35941	F13TBX/840/A	94
12874	F10DBX/830	93	23316	F80BX/840	92	35943	F13TBX/835/A	94
12875	F10DBX/835	93	23316	F80BX/840	92	35944	F18TBX/830/A	94
12876	F10DBX/840	93	23319	F80BX/865	92	35945	F18TBX/827/A	94
12877	F10DBX/830/4P	93	23319	F80BX/865	92	35952	F26TBX/830 /A	94
12956	F13DBX/830	93	23572	F80BX/835	92	35959	F26TBX/827/A	94
12997	F10DBX/865	93	27505	FLE9DBX/840/E27	101	35963	F26TBX/835/A	94
13015	F13DBX/865	93	27506	FLE9DBX/865/E27	101	35964	F26TBX/840/A	94
13017	F18DBX/865	93	27510	FLE9DBX/865/E14	101	35965	F26TBX/865/A	94
13248	BLS/E/1x57-70W/OBX	97	27511	FLE9DBX/865/B22	101	35966	F13TBX/830/A	94
13248	BLS/E/1x57-70W/OBX	97	27512	FLE9DBX/840/E27	100	36738	FLE20TBX/L/827 E27	99
13328	FLE15TBXSP/827/E27	100	27514	FLE9DBX/865/E27	100	36739	FLE15TBX/L/827 E27	99
13329	FLE15TBXSP/840/E27	100	27517	FLE9DBX/865/E14	100	36741	FLE24QBXXA/827 E27	99
13330	FLE15TBXSP/865/E27	100	27519	FLE9DBX/865/B22	100	36742	FLE24QBXXA/840 E27	99
13332	FLE15TBXSP/827/B22	100	27523	FLE11DBX/840/E27	101	36743	FLE24QBXXA/865 E27	99
13333	FLE15TBXSP/840/B22	100	27524	FLE11DBX/865/E27	101	36744	FLE20TBX/L/840 E27	99
13334	FLE15TBXSP/865/B22	100	27525	FLE11DBX/865/E14	101	36745	FLE20TBX/L/865 E27	99



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37523	F552D/827/A/4P	97	41172	F40BX/835	92	45150	F10DBX/865/4P/LL	96
37528	F552D/835/A/4P	97	41173	F40BX/840	92	45186	F70QB/827/A/4P/LL	96
37651	F9BX/827	92	41174	F55BX/830	92	45195	F57QB/850/A/4P/LL	96
37652	F9BX/835	92	41260	F55BX/835	92	45201	F57QB/840/A/4P/LL	96
37653	F9BX/840	92	41298	F55BX/840	92	45202	F57QB/835/A/4P/LL	96
37654	F5BX/827	92	41307	F36BX/827	92	45204	F57QB/830/A/4P/LL	96
37658	F7BX/827/4P	93	41744	F162D/827	97	45208	F70QB/830/A/4P/LL	96
37659	F7BX/835	92	41745	F162D/835	97	45213	F57QB/827/A/4P/LL	96
37660	F7BX/840	92	41746	F162D/827/4P	97	45215	F70QB/850/A/4P/LL	96
37661	F11BX/840	92	41747	F162D/835/4P	97	45218	F70QB/840/A/4P/LL	96
37663	F11BX/827	92	41749	F162D/860	97	45219	F70QB/835/A/4P/LL	96
37664	F11BX/840	92	41794	F212D/827/4P	97	45251	FLE8HLX/T2/827/E27	103
37666	F11BX/835	92	41806	F212D/835/4P	97	45254	FLE8HLX/T2/827/E14	103
37711	F9BX/840/4P	93	41808	F212D/860/4P	97	45260	FLE12HLX/T2/827/E27	103
37713	F11BX/840/4P	93	41981	FLE15TBX/ME/827/E27	100	45267	FLE12HLX/T2/827/E14	103
37714	F5BX/827/4P	92	41996	FLE20TBX/ME/827/E27	100	45271	FLE15HLX/T2/827/E27	103
37715	F5BX/840/4P	92	42730	FLE15TBX/ME/827/B22	100	45276	FLE15HLX/T2/827/E14	103
37716	F7BX/840/4P	93	42734	FLE20TBX/ME/827/B22	100	45299	OT FLE15TBX/827/E27 SENZ220-240V	103
37846	F7BX/827	92	43085	FLE15TBX/ME/840/E27	100	45301	OT FLE15TBX/827/B22 SENZ220-240V	103
38928	F11BX/830	92	43086	FLE15TBX/ME/865/E27	100	45810	FLE12SOFT/T2/827/E27	102
38929	F9BX/830	92	43087	FLE15TBX/ME/840/B22	100	45816	FLE12SOFT/T2/827/	102
38930	F7BX/830	92	43088	FLE15TBX/ME/865/B22	100	45819	FLE12SOFT/T2/827/E27	102
38984	F7BX/865	92	43089	FLE20TBX/ME/840/E27	100	45824	FLE8SOFT/T2/827/E14	102
38985	F9BX/865	92	43090	FLE20TBX/ME/865/E27	100	45827	FLE8SOFT/T2/827/E27	102
38986	F11BX/865	92	43091	FLE20TBX/ME/840/B22	100	45831	FLE15GLS/T2/827/E27	102
39359	FLE28QBX/A/827 E27	99	43092	FLE20TBX/ME/865/B22	100	45835	FLE12GLS/T2/827/E14	102
39365	FLE28QBX/A/865 E27	99	43338	FLE15TBX/XM/840 E27	98	45837	FLE12GLS/T2/827/E27	102
39377	F32TBX/827/A/4P	94	43340	FLE20TBX/XM/865 E27	98	45848	FLE8GLS/T2/827/E14	102
39378	F32TBX/830/A/4P	94	43342	FLE9TBX/XM/827 E14	98	45850	FLE8GLS/T2/827/E27	102
39379	F32TBX/835/A/4P	94	43343	FLE9TBX/XM/827 E27	98	46312	F42TBX/827/A/4P/EOL	94
39380	F32TBX/840/A/4P	94	43345	FLE9TBX/XM/840 E14	98	46313	F42TBX/830/A/4P/EOL	94
40121	FLE7GLS/827 E14	101	43346	FLE9TBX/XM/840 E27	98	46314	F42TBX/835/A/4P/EOL	94
40130	FLE7GLS/827 E27	101	43349	FLE9TBX/XM/865 E14	98	46315	F42TBX/840/A/4P/EOL	94
40133	FLE7GLS/827 B22	101	43350	FLE9TBX/XM/865 E27	98	48861	F57QB/827/A/4P/EOL	94
40147	FLE9GLS/827 E14	101	43352	FLE11TBX/XM/827 E14	98	48862	F57QB/830/A/4P/EOL	94
40148	FLE9GLS/827 E27	101	43353	FLE11TBX/XM/827 E27	98	48863	F57QB/835/A/4P/EOL	94
40152	FLE9GLS/827 B22	101	43355	FLE11TBX/XM/840 E14	98	48864	F57QB/840/A/4P/EOL	94
40153	FLE11GLS/827 E14	101	43356	FLE11TBX/XM/840 E27	98	48865	F70QB/827/A/4P/EOL	94
40154	FLE11GLS/827 E27	101	43360	FLE11TBX/XM/865 E14	98	48866	F70QB/830/A/4P/EOL	94
40155	FLE11GLS/827 B22	101	43361	FLE11TBX/XM/865 E27	98	48867	F70QB/835/A/4P/EOL	94
40156	FLE15GLS/827 E27	101	43364	FLE15TBX/XM/827 E27	98	48868	F70QB/840/A/4P/EOL	94
40157	FLE15GLS/827 B22	101	43366	FLE15TBX/XM/840 E27	98	91261	F11BX/827/4P	93
40158	FLE20GLS/827 E27	101	43368	FLE15TBX/XM/865 E27	98	91264	F9BX/827/4P	93
40159	FLE20GLS/827 B22	101	43370	FLE20TBX/XM/827 E27	98	92189	FLE23QBX/A/GG/827 B22	101
40160	FLE5CDL/827 E14 220-240V	103	43913	F13TBX/827/4P/LL	96	92190	FLE23QBX/A/GG/827 E27	101
40162	FLE7CDL/827 E14 220-240V	103	43914	F18TBX/827/A/4P/LL	96	92213	FLE15TBX/L/GG/827 B22	101
40163	FLE9TBX/XM/CDL/827 E14	103	43915	F18TBX/830/A/4P/LL	96	92216	FLE15TBX/L/GG/827	101
40170	FLE9TBX/XM/CDL/827 E27	103	43916	F18TBX/835/A/4P/LL	96	92217	FLE20TBX/L/GG/827 B22	101
40171	FLE9TBX/XM/CDL/827 B22	103	43919	F18TBX/840/A/4P/LL	96	92220	FLE20TBX/L/GG/827 E27	101
40206	FLE7R50/827 E14	103	43920	F18TBX/850/A/4P/LL	96	92221	FLE11TBX/XM/GG/827 E27	103
40210	FLE7R63/827 E14	103	43922	F26TBX/827/A/4P/LL	96	92227	FLE20TBX/GLS/827 B22	101
40211	FLE7R63/827 E27	103	43923	F26TBX/830/A/4P/LL	96	92229	FLE20TBX/GLS/827 E27	101
40438	FLE11HLX/T3/827/E27	103	43924	F26TBX/835/A/4P/LL	96	92244	EFL/23W/827 R80	103
40439	FLE11HLX/T3/827/B22	103	43925	F26TBX/840/A/4P/LL	96	92246	EFL/23W/830 R80	103
40443	FLE20HLX/T3/827/E27	103	43926	F26TBX/850/A/4P/LL	96	92250	FLE15TBX/L/865 B22	99
40454	FLE20HLX/T3/827/B22	103	43927	F32TBX/827/A/4P/LL	96	92251	FLE15TBX/L/840 B22	99
40517	FLE9TBX/T3/827/B22	100	43928	F32TBX/830/A/4P/LL	96	92252	FLE15TBX/L/865 B22	99
40573	FLE11TBX/T3/827/B22	100	43929	F32TBX/835/A/4P/LL	96	92259	FLE15TBX/L/827 E27	99
40631	FLE9TBX/T3/865/E27	100	43930	F32TBX/840/A/4P/LL	96	92260	FLE15TBX/L/840 E27	99
40638	FLE9TBX/T3/865/E14	100	43931	F32TBX/850/A/4P/LL	96	92261	FLE15TBX/L/865 E27	99
40639	FLE9TBX/T3/865/B22	100	43932	F42TBX/827/A/4P/LL	96	92263	FLE20TBX/L/827 B22	99
40645	FLE11TBX/T3/865/E27	100	43933	F42TBX/830/A/4P/LL	96	92264	FLE20TBX/L/840 B22	99
40646	FLE11TBX/T3/865/E14	100	43934	F42TBX/835/A/4P/LL	96	92265	FLE20TBX/L/865 B22	99
40649	FLE11TBX/T3/865/B22	100	43935	F42TBX/840/A/4P/LL	96	92267	FLE20TBX/L/827 E27	99
40828	FLE9TBX/T3/827/E14	100	43936	F42TBX/850/A/4P/LL	96	92268	FLE20TBX/L/840 E27	99
40829	FLE9TBX/T3/827/E27	100	45061	F10DBX/827/4P/LL	96	92269	FLE20TBX/L/865 E27	99
40831	FLE11TBX/T3/827/E14	100	45067	F10DBX/840/4P/LL	96	92596	FLE30W2D/827/GR10	97
40833	FLE9TBX/T3/840/E27	100	45068	F10DBX/835/4P/LL	96	92598	FLE30W2D/835/GR10	97
40837	FLE11TBX/T3/827/E27	100	45069	F10DBX/830/4P/LL	96	92599	FLE30W2D/840/GR10	97
40839	FLE11TBX/T3/840/E27	100	45070	F26DBX/865/4P/LL	96	93019	FLE11TBX/XM/GG/827 B22	103
41087	F18BX/827	92	45072	F26DBX/840/4P/LL	96	93236	FLE15/R95/827 E27	103
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41134	F24BX/830	92	45089	F18DBX/840/4P/LL	96			
41145	F24BX/835	92	45090	F18DBX/835/4P/LL	96			
41155	F24BX/840	92	45095	F18DBX/830/4P/LL	96			
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13087	CMH400/E/UVC/U/830/E40	116	43273	CMH35/TC/UVC/U/830/G8.5 PLUS	116	30244	LU400/TD	124
20005	CMH70/TT/UVC/U/830/G12	116	43274	CMH70/TC/UVC/U/830/G8.5 PLUS	116	30246	LU1000/TD	124
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20011	CMH70/TC/UVC/U/830/G8.5	116	44919	CMH35/PAR20/UVC/942/E27/FL25	116	39512	LUH110/D/27-SHx	124
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20013	CMH70/TT/UVC/U/942/G12	116	93772	ARC150/TD/952/Rx7s-24	117	11735	LU70/90/SBV/II/27	124
20014	CMH150/T/UVC/U/942/G12	116	93772	ARC150/TD/952/Rx7s-24	117	11734	LU50/85/D/II/27	124
20099	CMH35/TT/UVC/U/830/G12	116	KRC400/T/H/960/E39	118	11736	LU70/90/D/II/27	124	
20302	KRC250/CMH/830/T/H/E40	117	16871	KRC400/EV/BU/645/E40	118	35585	LU50/85/SBV/II/27	124
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21516	CMH150/UVC O/T/U/830/E40	117	178364	HgMI 400W	118	17899	LU100/100/MO/SBV/II/40	124
21517	CMH150/UVC O/TT/U/942/E40	117	16872	KRC400/D/VBU/740/E40	118	35594	LU150/100/SBV/II/40	124
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21684	CMH35/PAR20/UVC/830/E27/SP	116	10834	KRC400/D/H/960/E40	118	35583	LU50/85/SBV/II/27	124
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21690	CMH35/PAR30/UVC/830/E27/FL	116	43907	MVR400/UJ/40	118	35589	LU150/100/SBV/D/40	124
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26481	CMH35/PAR20/UVC/830/E27/FL	116	41829	MVR1000/C/U/40	118	82416**	LU50/90/D/E27/GE/START	124
26497	CMH20/PAR30/UVC/830/E27/SP10	116	18101	MVR250/HOR	118	82431**	LU70/90/T/12/E27/GE/START	124
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26685	CMH35/PAR20/UVC/830/E27/FL	116	18709	MPR400/VBU/0/40	118	82461**	LU100/100/T/E40/GE/START	124
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38698	CMH70/TD/UVC/942/Rx7s	116	30058	SPL750/L/H/652/Rx7SM	119	45153	LU250/D/E40/GE/START	124
38749	CMH150/TD/UVC/830/E40	117	16919	SPL1000/L/H/652/Rx7SM Rx7SM	119	45166	LU250/T/E40/GE/START	124
38752	CMH70/TT/UVC/830/E27	117	16920	SPL1500/L/H/652/Rx7SM Rx7SM	119	45154	LU400/D/E40/GE/START	124
39858	CMH20/TC/UVC/U/830/G8.5PLUS	116	16921	SPL1600/L/H/652/Rx7SM Rx7SM	119	45152	LU400/T/E40/GE/START	124
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44939	CMH70/PAR30/UVC/830/E27/SP	116	33148	SPL2000/II/T/H/640/E40	119	92620	H250/40	127
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46191	CMH100/E/UVC/U/830/E27/C	116	30057	SPL1000/D/H/960/E40	119	92896	H125NDX/27	127
46194	CMH100/E/UVC/U/830/E27/D	116	32104	MBI2000/T	119	92898	H250NDX/40	127
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92478	CMH100/TT/UVC/830/E40	117	29336	CSI/PAR64/HR/G38	119	32372	HR250DX37/40	127
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12182	ARC150/UVC/TD/BLUE/Rx7s-24	117	22452	LU70/90/T/12/27	123	85954	ML 160/ 230-240V, E27	127
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12951	ARC250/TT/H/742/E40	117	22453	LU250/T/40	123	85948	ML 250/ 230-240V, E40	127
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13034	BLS/E/20W/CMH/R	117	45751	LU1000/110/T/40 4pk GE NEW MIH	123	85962	ML 250/ 240-250V, E40	127
13035	BLS/E/35W/CMH	117	10794	LU50/85/D/27	123	85904	ML 500/ 230-240V, E40	127
13036	BLS/E/35W/CMH/R	117	10101	LU70/90/D/27	123	42848	H125/E27	127
13040	BLS/E/70W/CMH	117	93766	LU100/100/MO/D/40	123	82228*	H250/E40	127
13047	BLS/E/70W/CMH/R	117	44245	LU150/100/D/40	123	42849*	H400/E40	127
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16870	ARC250/D/H/740/E40	117	93373	LU50/85/XO/II/27	123	21298	SOx90	128
21053	ARC150/830/G12	117	93375	LU70/90/XO/II/27	123	21299	SOx135	128
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30047	ARC250/D/H/960/E40	117	93377	LU150/150/XO/II/40	123	36754	SOxPLUS55W	128
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30704	KRC400/TVBU/960/E40	118	45696	LU50/85/XO/D/27	123	30205	SOx36E	128
32664	ARC250/TT/H/960/E40	117	45697	LU70/90/XO/D/27	123	30209	SOx66E	128
32665	ARC250/TVBU/960/E40	117	93379	LU100/100/XO/D/40	123	30211	SOx91E	128
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16542	50PAR36/WFL	136	24742	4537	136	30587	A1/249 220/230V	147
16958	CMH150/PAR64/830/GX16d/SP	152	24768	4545	137	30588	A1/249 240V	147
16959	CMH150/PAR64/830/GX16d/MFL	152	24780	4546	136	30888	A1/270	147
16960	CMH150/PAR64/830/GX16d/WFL	152	24788	4547	136	30949	HX185	147
16961	CMH150/PAR64/842/GX16d/SP	152	24795	4551	136	31844	CP41 230V	142
16962	CMH150/PAR64/842/GX16d/MFL	152	24799	4553	136	31849	CP41 240V	142
16963	CMH150/PAR64/842/GX16d/WFL	152	24828	4570	136	32831	EJV	148
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18677	300PAR56/MFL	137	24867	4587	136	33250/26895	A1/233	147
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39636	GCS	141	41673	FCX	136	49492	CSR575/2/T/SE	151
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39648	A1/245 220/230V	147	41874	ERV	149	92478	CMH100/T/830/E40	152
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39653	CP24	141	41911	F55BX/CINPLUS/55	153	92951	CMH400/T/VBU/830/E40	152
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11077	G8T5	165	17000	F58T8 SW	165	29495	G11T5	165
11078	G15T8	165	17002	F15T8 REP	165	29498	G10T8	165
11080	G30T8	165	17003	F18T8 REP	165	29499	G36T8	165
11082	G25T8	165	17004	F30T8 REP	165	29500	G11T5/4P/SE	165
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12423	F70W/835	164	17208	F36W/830	164	31148	F18T8/840/ARCTIC	165
12424	F70W/840	164	17209	F36W/840	164	32861	Q20A/PAR56/2	167
12716	QH2MT3/CL/HT/R	166	18668	QH2MT3/CL/VB	166	33279	Q6.6A/PAR56/3	167
15482	Q20A/PAR56/C	167	20089	HH 210 500W CLEAR 230-240V	167	34747	F20W/BLB	164
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15874	G36T5	165	21376	QH1MT3/CL/MS-235V	166	40695	GBX5/UVC G23	166
15875	G55T8HO	165	21377	QH1MT3/CL/R/MS-235V 2500	166	40696	GBX9/UVC G23	166
15876	G20T10	165	21378	QH1MT3/CL/R-235V	166	40700	GBX11/UVC G23	166
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15882/40704	GBX18/UVC/2G11	166	21788	QH500T3/CL	166	42739	QH 750W 120V Ruby Slim	167
15883/40705	GBX36/UVC/2G11	166	22355	QH1000T3/CL	166	42740	QH 1300W 230-240V Ruby Slim	167
15885/40706	GBX55/UVC/2G11	166	22357	QH1000T3/CL	166	42741	QH 1300W 120V Ruby Slim	167
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16494	G16T5	165	22532	QH1200T3/CL/HT	166	42938	F26DBX BL	164
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16965	F15T8 F&SA	165	22688	QH1600T3/CL	166	42940	F36BX BL 2G11	164
16966	F18T8 F&SA	165	22691	QH1600T3/CL/7	166	42941	F55BX BL 2G11	164
16968	F25T8 F&SA	165	22695	QH1600T3/CL	166	48433	F54T5/830/HO/ECO/CVG	164
16969	F30T8 F&SA	165	22789	QH2M/T3/1CL/HT	166	48436	F54T5/835/HO/ECO/CVG	164
16970	F36T8 F&SA	165	22790	QH2M/T3/CL/HT	166	48458	F54T5/841/HO/ECO/CVG	164
16971	F38T8 F&SA	165	22837	QH2500T3/CL/7	166	48469	F54T5/865/HO/ECO/CVG	164
16972	F58T8 F&SA	165	22838	QH2500T3/CL	166	80311	F54T5/850/HO/ECO/CVG	164
16977	F15T8 FA	165	22875	QH3800/CL	166	80583	Q6.6A45PK30d	167
16979	F18T8 FA	165	22878	QH3800T3/CL/VB	166	80584	Q6.6A100PK30d	167
16980	F25T8 FA	165	22900	QH5M/T3/1CL/HT	166	80585	Q6.6A150PK30d	167
16981	F30T8 FA	165	23752	F58T8/840/ARCTIC	165	80586	Q6.6A200PK30d	167
16982	F36T8 FA	165	23754	F70T8/840/ARCTIC	165	80587	Q6.6A45PK30d	167
16984	F38T8 FA	165	23857	Q6.6A/T4/SCL	167	80588	Q6.6A100PK30d	167
16985	F58T8 FA	165	23860	Q6.6AT4/DCR	167	80589	Q6.6A150PK30d	167
16987	F15T8 SW	165	23863	Q20A/PAR56/3	167	80590	Q6.6A200PK30d	167
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