



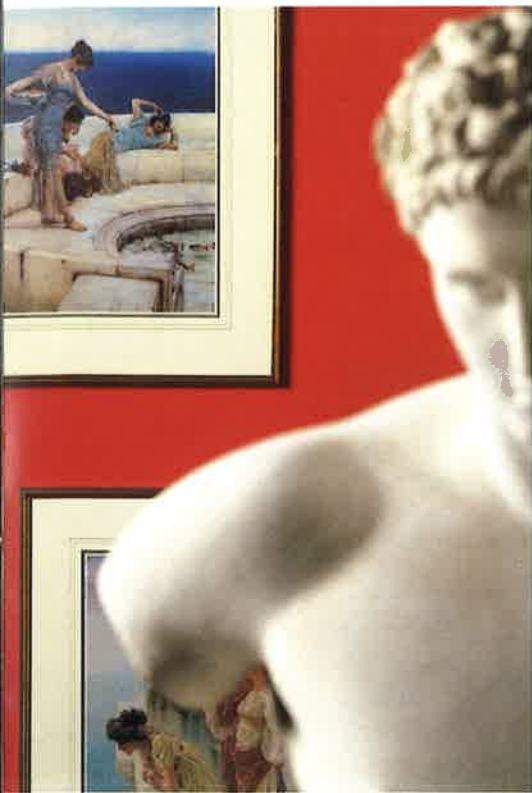
GE Lighting



Polylux

**Polylux 800
& Polylux Deluxe 900
Fluorescent Tubes**





GE Thorn Polylux 800 & Polylux Deluxe 900

GE Thorn Polylux and Polylux Deluxe fluorescent tubes can be classified according to their colour rendering index and their colour temperature.

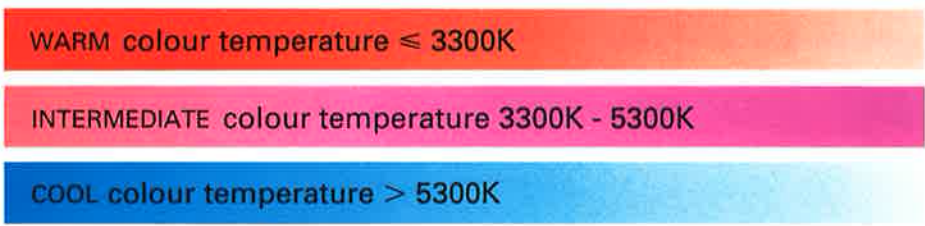
colour rendering index

Colour rendering is the ability of a light source to render colour.

The accuracy with which a light source can render colour can be quantified by a general index (Ra). Maximum is 100. Fluorescent tubes generally vary from an Ra of 50 to an Ra of 95. Tubes with an Ra of 80+ are considered very good, whilst tubes with an Ra of 90+ have excellent colour rendering qualities.

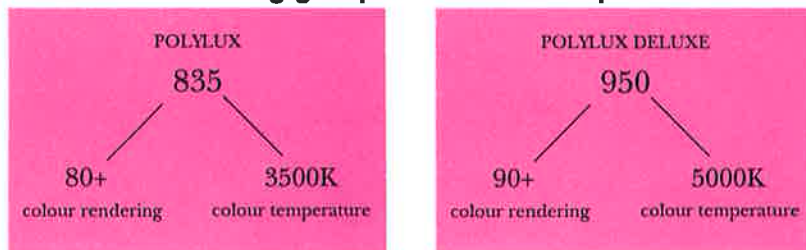
colour temperature

The colour temperature defines the apparent colour emitted from a light source. This is described in degrees Kelvin (K) and a tube can be classified in the following way:



In order to simplify selection, the colour rendering group and the colour temperature of GE Thorn Polylux and Polylux Deluxe can be readily identified. For example:

colour rendering group and colour temperature



product description

Based on highly sophisticated tri-phosphor technology, offering excellent colour rendering qualities, these fluorescent lamps come in wattages of 18W to 58W in the Polylux Deluxe range and 18W to 125W in the Polylux range.

polylux and polylux deluxe comparison chart

GE THORN	PHILIPS	OSRAM	SYLVANIA
POLYLUX 827	TL82	LUMILUX 41	HLX 182
POLYLUX 830	TL83	LUMILUX 31	WWX 183
POLYLUX 835	-	LUMILUX 26	-
POLYLUX 840	TL84	LUMILUX 21	CWX 184
POLYLUX 860	TL86	LUMILUX 11	DX 186
POLYLUX DELUXE 930	TL93	LUMILUX DELUXE 32	WWX 193
POLYLUX DELUXE 940	TL94	LUMILUX DELUXE 22	CWX 194
POLYLUX DELUXE 950	TL95	-	-



Specifications

Light Output Data

Lumens 100hrs 2000hrs	2' 18W T8	2' 20W T12	3' 30W T8	1050mm 38W T8	4' 36W T8	4' 40W T12	5' 58W T8	5' 65/80W T12	6' 70W T8	6' 75/85W T12	8' 85W T12	8' 100W T12	8' 125W T12
Polylux 827	1450 1300				3450 3200		5400 5100		6550 6300				9400 8900
Polylux 830	1450 1300		2500 2300		3450 3200		5400 5100		6550 6300				9400 8900
Polylux 835	1450 1300			3200 2950	3450 3200		5400 5100		6550 6300				9400 8900
Polylux 840	1450 1300	1450 1300	2500 2300		3450 3200	3450 3200	5400 5100	5400 5100	6550 6300	6700 6350	8450 8000	9400 8900	10900 10350
Polylux 860	1300 1200				3250 3000		5200 4800		6100 5600				
Polylux Deluxe 930	950 810				2300 2000		3600 3150						
Polylux Deluxe 940	1000 850				2350 2050		3750 3250						
Polylux Deluxe 950	1000 850				2350 2050		3750 3250						

Colour Data

Type	CCT	CIE/CIBSE GROUP	CIE CLASS	CHROMATICITY CO-ORDINATES	
				X	Y
Polylux 827	2700	1B	WARM	0.463	0.420
Polylux 830	2950	1B	WARM	0.440	0.402
Polylux 835	3400	1B	INTERMEDIATE	0.415	0.402
Polylux 840	4000	1B	INTERMEDIATE	0.380	0.377
Polylux 860	6000	1B	COOL	0.316	0.336
Polylux Deluxe 930	3000	1A	WARM	0.435	0.401
Polylux Deluxe 940	4000	1A	INTERMEDIATE	0.387	0.371
Polylux Deluxe 950	5000	1A	INTERMEDIATE	0.344	0.354

Dimensions and Electrical Data

Type	Length mm	Diameter mm	Cap	Rated Watts	Objective Watts	Tube Volts	Tube Amps
8' - 125W	2400	38	G13	125	123	149	0.940
8' - 100W	2400	38	G13	100	102	125	0.960
8' - 85W	2400	38	G13	85	85	178	0.550
6' - 75/85W	1800	38	G13	75	75	130	0.670
6' - 70W	1800	26	G13	70	69	128	0.700
5' - 65/80W	1500	38	G13	65	64	110	0.670
5' - 58W	1500	26	G13	58	58	110	0.670
4' - 40W	1200	38	G13	40	39	103	0.430
4' - 36W	1200	26	G13	36	36	103	0.430
1050mm 38W	1050	26	G13	38	38	104	0.430
3' - 30W	900	26	G13	30	30	96	0.365
2' - 20W	600	38	G13	20	19	57	0.370
2' - 18W	600	26	G13	18	18	57	0.370

Packaging Data

Type	Net Weight (g)	Packing Unit:	Quantity	Weight (Kg)	Dimensions (cm)	Volume (m3)
Polylux 18W 600mm (2')	100		25	3.26	65 x 16 x 16	0.016
Polylux 36W 1200mm (4')	186		25	5.93	127 x 16 x 16	0.033
Polylux 58W 1500mm (5')	229		25	7.70	157 x 17 x 16	0.043
Polylux 70W 1800mm (6')	300		25	9.30	184 x 23 x 22	0.093
Polylux 100W 2400mm (8')	625		20	14.0	245 x 24 x 18	0.106
Polylux Deluxe 18W 600mm (2')	100		25	3.26	65 x 16 x 16	0.016
Polylux Deluxe 36W 1200mm (4')	186		25	5.93	127 x 16 x 16	0.033
Polylux Deluxe 58W 1500mm (5')	229		25	7.70	157 x 17 x 16	0.043





Polylux 800 Series Product Characteristics



Windmill Hill Business Centre, Swindon

light output

GE Thorn Polylux 800 tubes are high efficacy tri-phosphor tubes. They produce approximately 12% more light than conventional halophosphate tubes whilst exhibiting superior lumen maintenance characteristics.

In effect this means that light output stays higher, longer, thus increasing the 'economic life' of the tube.

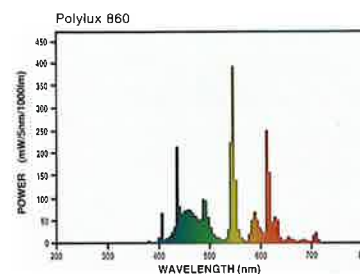
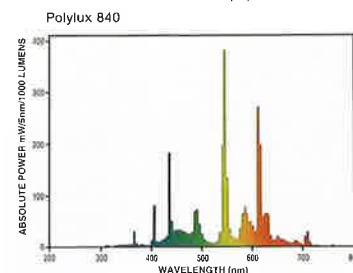
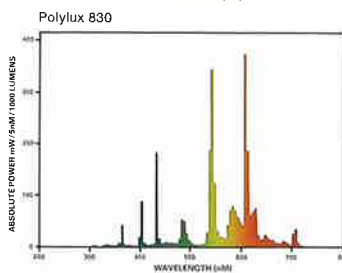
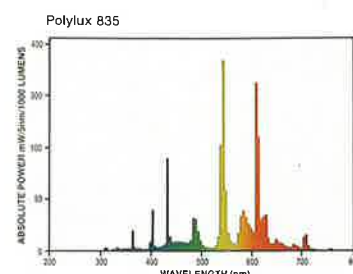
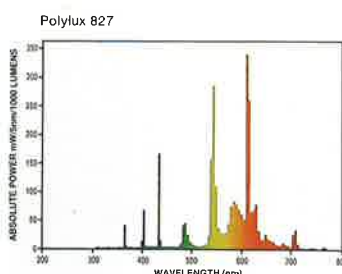
colour

GE Thorn Polylux 800 tubes have good colour rendering properties (group 1B) and are therefore ideal in situations where good colour discrimination is required.

applications

GE Thorn Polylux 800 tubes are the ideal choice for new installations. Because of their higher light output fewer luminaires are needed thus reducing the overall installation costs (as well as maintenance and replacement costs since the tubes will have to be replaced less frequently due to their longer 'economic life'.)

The wide range of lengths and colour temperatures offered means that Polylux 800 tubes are suitable in a number of different applications.



Polylux 827

A very warm colour suitable for domestic/social areas e.g. homes and restaurants. It is also used in cold countries to create a warm effect.

Polylux 830

A warm colour with applications in social areas such as hotels, receptions and certain retail outlets.

Polylux 835

An intermediate colour suitable for general commercial and industrial applications.

Polylux 840

A cool colour used to create a crisp, businesslike atmosphere.

Polylux 860

A very cool colour used in very warm countries to create a cool ambiance.



Supermarket



Clothes shop window



Office area





Polylux Deluxe 900 Series

Product Characteristics



Art Gallery

light output

GE Thorn Polylux Deluxe 900 tubes are medium efficacy tubes utilising five separate phosphors to produce a broad spectral distribution. These 26mm tubes produce up to 30% more light than the old 38mm deluxe colour tubes but less than Polylux 800 tubes. They also have superior lumen maintenance characteristics.

As a result smaller, more aesthetically pleasing luminaires can be used.

colour

The GE Thorn Polylux Deluxe 900 tubes have excellent colour rendering properties (group 1A), particularly useful where accurate colour matching is a prerequisite. In addition, they are available in a much wider range of colour temperatures than the old deluxe tubes for greater flexibility and application.

applications

GE Thorn Polylux Deluxe 900 tubes are suitable for applications where excellent colour rendering is essential. They are interchangeable with 38mm deluxe tubes, in switchstart circuits only and will show immediate savings due to their reduced energy consumption and increased light output.

The range of colour temperatures and ratings means that they can be used in a number of different applications.

Polylux Deluxe 930

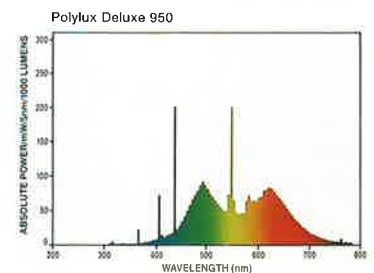
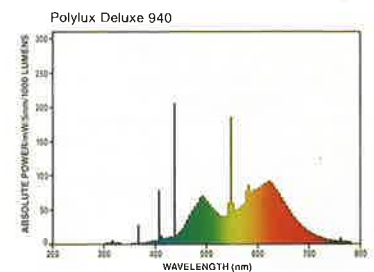
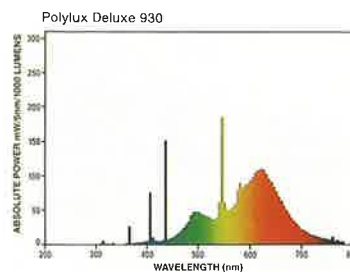
A warm colour with excellent colour rendering qualities. Suitable for leisure areas, such as hotels and restaurants.

Polylux Deluxe 940

A cooler colour, with excellent colour rendering qualities. Used particularly in offices, shops and establishments where colour accuracy is important e.g. fabric shops, museums, art galleries etc.

Polylux Deluxe 950

An even cooler colour, but also possessing excellent colour rendering qualities. Especially suitable where critical colour work is required, such as in printing and related graphical trades, paint and ceramic industries.



Gallery



Drawing office



Clothes shop interior





GE Thorn Lamps

A genius for light

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