

PHILIPS' GLOWLAMP WORKS LTD.

GENERAL
CATALOGUE

NOVEMBER 1923

Errata.

Page 6. We do not supply the Argentalamp 25 Watts for 25-139 Volts but for 25-179 Volts. Argentalamp Type 30 Watts to be cancelled.

Page 11. All Halfwattlamps from 200 up till 2000 Watts are delivered **pipless**. The dimensions remain the same.

Page 16. Lamps of reinforced construction are now also delivered in the following types :

Volts	C. P.	Type	Diam. inches	Total length	
				Ed.	Swan
90-130	5	320	2	4 1/4	4
130-179	10	322	2	4 1/4	4
180-250		321	2	4 7/8	4 3/4

Page 17. Spiralised filament lamps, Type 298 and 319 (Perfume burners) consume:
for 100-179 V. 15 Watts,
for 180-240 V. 20 Watts.

Page 26. Candle lamps of form D 5 C.P. (Type 318) are manufactured for 90-129 Volts only.
All lamps of form D are made with spiralised filament only.

Page 31. The upper picture on this page is the reproduction of Type 192 b and 192 c.
The lower picture represents the types 192 and 192 a (tubular shape). Instead of 193 b read 192 b.

Page 32. Nightlamps with bulbs of Argenta-glass are indicated by Type No. 312 and 313, corresponding with 112 and 113 for the ordinary frosted Nightlamps.
Nightlamps with globes of Argenta-glass are furnished pipless; therefore deduct $\frac{3}{16}$ " from specified length.

Page 35. Carbonlamp, Type 198, 30 C.P. read 50 C.P.

Page 39. Fitting HIN is also supplied as Type HINA with Albasta-Bowl.

NOVEMBER 1923

*Given out from Sales Dept by me while I
Despatched worked at Clarence St
nearest Town Hall - then
moved to Margaret St.*

PHILIPS PRODUCTS



PHILIPS'
GLOWLAMP WORKS LTD.

PHILIPS' GLOWLAMP WORKS LTD.

This new edition of our general catalogue gives full and descriptive information on all

PHILIPS' PRODUCTS

which have earned world-wide reputation in the lighting field.

We beg to notice that the following new articles have been added :

Argenta-Lamps of large sizes.

Albasta-Lamps.

Philux and Albasta lighting glass (Canopies and ceiling plates).

Tungsten Arc-Lamps for special projection purposes.

Should you be in need of any other articles in our line of manufacture, not mentioned in this catalogue, please let us have your enquiries.

**PHILIPS'
GLOWLAMP WORKS Ltd.**

7000 EMPLOYEES

*R.H. Grimwood employed by Philips Lamps & Window Sales Dept. London
from Feb 1927 to INDEX Feb 1928.*

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When ordering „PHILIPS” Lamps

please give exact information as to :

- 1^o) *number and type* of lamps required.
- 2^o) *Exact voltage of circuit* - remember that excess-voltage shortens the life of the lamps, whereas under-voltage impairs their efficiency.
- 3^o) *Kind of supply* (D. C. or A. C.), only when ordering Night-lamps. Savelite lamps and Tungsten Arc-lamps can only be used on A. C. supplies. All other types of lamps burn equally well both on D. C. and on A. C.
- 4^o) *Size of lamps*. Vacuum lamps with straight filament are rated in Candle-Power, gasfilled lamps and vacuum lamps with spiralsed filament are rated in Watts.
- 5^o) *Finish of bulb* : clear, half frosted, full frosted or silvered.
- 6^o) *Cap or Lampbase* : The bases or caps that can be supplied are mentioned separately with every type of lamp. The lampbases generally used are :
 - A. *Edison Screw caps* :

Mogul- or Goliath Screw (G.E.S.)	39.3 mm. = $1\frac{9}{16}$ inch
Standard Edison Screw (E.S.)	26.5 mm. = $1\frac{1}{16}$ inch
Small Edison Screw (S.E.S.)	13.8 mm. = $\frac{9}{16}$ inch
 - B. *Bayonet Caps*

Standard Bayonet (B.C.)	22.5 mm. = $\frac{7}{8}$ inch
Small Bayonet (S.B.C.)	15.0 mm. = $\frac{19}{32}$ inch
- For caps of motor-car lamps we refer to our separate catalogue 738 E.
- 7^o) *Limits of dimensions* only in case of absolute necessity. Dimensions as stated in this catalogue are true with a tolerance of about $\frac{3}{16}$ inch.
- 8^o) *Series burning* : state the series - letters on lamps of our manufacture already in use.

As we are continuously searching for further improvements, all dimensions and details of construction given are subject to change without notice.

There is a "PHILIPS" Lamp for every purpose.

Philips' Glowlamp Works Ltd. are in a position to supply an incandescent lamp for every purpose of lighting, having adapted their products to the special needs of all types, as to size of bulb, shape, concentration of filament and burning-position.

The extension in the range of the incandescent lamp is largely due to the

GASFILLED LAMPS.

Instead of the former evacuation of the bulb, these lamps are filled with an inert gas, thereby reducing the process of evaporation of the tungsten filament used. These gasfilled lamps can consequently be operated at a higher temperature, resulting in a more brilliant white light and increased efficiency.

The gas used is Nitrogen or Argon, extracted out of the air in our own up-to-date gasplants by a certain process.

The filament — drawn tungsten wire — is most uniformly coiled on special machines of our own invention, all of which machines were manufactured in our own engineering shops.

THE VACUUM LAMPS

are holding their own field of application, and their manufacture has not in the least been impaired by the extension in the range of the gasfilled-type lamps. The Vacuum Lamps are being made both with the straight and the helical filament, and in all sizes up to 100 C. P.

Philips' Lamps from 0.3 — 10,000 C.P. are used
all over the world.

Philips' Argenta Lamps

GASFILLED



REG. TRADE
MARK.



Philips' Argenta Lamps have been recognised as the most remarkable improvement wherever they have been introduced.

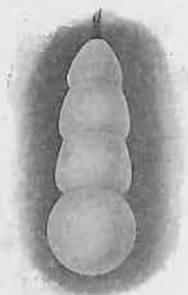
The bulbs of these lamps are tipless, they are made of opal glass specially prepared, by virtue of which no more light is lost than with ordinary frosted lamps. Glare and sharp shadows are entirely eliminated. The surface of the bulbs being smooth, less dust collects on them and they can easily be cleaned.

Volts	Watts	Type	Diam. of Bulb inches	Overall Length inches			Stand. Pack. Quan.
				E. S.	B. C.	G.E.S.	
25-139	25	245	2	3 ⁵ / ₈	3 ⁵ / ₈	—	500
25-139	30	316	2 ¹ / ₈	3 ⁷ / ₈	3 ⁷ / ₈	—	500
25-260	40	221	2 ³ / ₈	4 ³ / ₈	4 ¹ / ₄	—	500
25-260	60	223	2 ¹ / ₂	4 ⁷ / ₈	4 ⁵ / ₈	—	500
25-260	75	225	2 ³ / ₄	5 ³ / ₈	5	—	500
25-260	100	227	3 ¹ / ₈	6	5 ⁵ / ₈	—	250
20-260	150	229	4	8 ³ / ₈	7 ³ / ₈	8 ¹ / ₈	200*
20-260	200	230	4 ³ / ₈	9 ³ / ₄	9 ¹ / ₄	9 ³ / ₈	125*
20-260	300	231	5 ⁷ / ₈	11 ⁵ / ₈	11 ¹ / ₈	11 ¹ / ₄	65*
20-260	400	232	6 ³ / ₄	—	—	12 ³ / ₈	25*
20-260	500	233	7 ¹ / ₈	—	—	15 ⁵ / ₈	12*

* barrel packing

"Philux"

Accessories for Argenta-Lamps



PHILUX CANOPY



PHILUX CEILING-PLATE

"Philux" Accessories are made from the same white glass, of which Argenta lamps are made. Therefore they perfectly match these. Philux canopies make a nice fixture out of the simple drop-cord, whereas Philux Ceiling-plates are easily fitted to the ceiling by a special spring-device.

Object	Type	To be used with lamps	Diam. inches	Height inches	Weight
Canopy	500	40 -- 60 W	1 ³ / ₄	4 ¹ / ₂	0.060 kg
"	510	75-100 W	1 ³ / ₄	5 ¹ / ₂	0.070 "
Ceiling-plate	520	40 - 75 W	5 ³ / ₄	3 ¹ / ₈	0.165 "
Spring attachment	530	—	—	—	—

Philips' Albasta-Lamps

GASFILLED



Albasta-Lamps are fancy-lamps with coloured-glass bulbs of artistic design. Two tints are provided :

- a. brown
- b. olive-green and yellow.

When lighted the difference in colour practically disappears.

The glass itself being stained, all risk of fading colours is eliminated. Lamps can also be cleaned like ordinary lamps.



Albasta-lamps can replace silk-shades and similar devices, which are as a rule quickly spoiled by dust and destroyed by heat.

Volts	Watts	Type	Diam. Bulb inches	Overall length inches		Stand. Pack. Quan.
				E. S.	B. C.	
100-250	40	259	2 $\frac{1}{2}$	4 $\frac{7}{8}$	4 $\frac{5}{8}$	500

Albasta Canopies and Ceiling-Plates



These lighting-accessories correspond to the Philux-Accessories as described on page 7.

They are made of Albasta-glass, to match Albasta-lamps.

When ordering, the colour should be stated as follows:

- a. brown
- b. olive green and yellow.



Albasta-accessories are specially recommended for wood-furnished interiors, wooden ceilings, etc.

Object	Type	To be used with lamps	Diam. inches	Height inches
Albasta canopy brown	501	40 W	1 ³ / ₄	4 ¹ / ₂
„ „ olive green	502	40 W	1 ³ / ₄	4 ¹ / ₂
Albasta ceiling plate				
brown	521	40 W	5 ³ / ₄	3 ¹ / ₈
olive green	522	40 W	5 ³ / ₄	3 ¹ / ₈
Spring attachment	530	—	—	—

Philips' Arga Lamps

GASFILLED



A LAMP OF HIGH
EFFICIENCY



A long experience in the manufacture of small gasfilled lamps for the most usual voltages of electric supplies (110-220 V) is incorporated in the Philips' Arga Lamps.

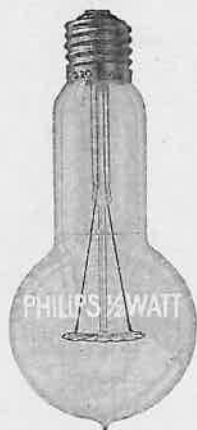
Their efficiency, their brilliant white light as well as their small dimensions, which make them suit in any fixture, have earned for the Philips' Arga Lamp a high reputation.

Where the lamps are suspended in such a way as to be visible, preference should be given to the Argentalamp (page 6)

Volts	Watts	Type	Diam. of Bulb inches	Overall Length inches		Stand. Pack. Quan.
				E. S.	B. C.	
20--179	25	29	2	4	4	500
180--230	30	29a	2 ¹ / ₈	4 ¹ / ₄	4 ¹ / ₈	500
20--260	40	30	2 ³ / ₈	4 ³ / ₄	4 ⁵ / ₈	500
20--260	60	31	2 ¹ / ₂	5 ¹ / ₈	5	500
20--260	75	32	2 ³ / ₄	5 ¹ / ₂	5 ³ / ₈	500

Philips' Halfwatt Lamps

GASFILLED



The gasfilled lamp has completely ousted the arc-lamp for interior and exterior lighting purposes, owing to its high efficiency and its white light of a uniform intensity. Moreover it does not require any supervision.

Special fixtures have been designed by us to prevent glare and to produce the most suitable distribution of light (see page 38 and 39).

Wherever the lamps remain visible, Argenta-Lamps should be used, which can be supplied up to 500 Watts.

Volts	Watts	Type	Diam. of Bulb inches	Overall Length inches			Stand. Pack. Quan.
				E. S.	B. C.	G. E. S.	
20-260	100	33	3 ¹ / ₈	6 ¹ / ₈	5 ⁷ / ₈	—	250
20-260	150	34	3 ¹ / ₂	7 ¹ / ₈	6 ³ / ₄	—	250
20-260	200	35	4	8 ⁵ / ₈	7 ⁷ / ₈	8 ¹ / ₈	200 *
30-260	300	36	4 ³ / ₈	—	—	9 ¹ / ₂	125 *
30-260	400	37a	4 ³ / ₄	—	—	9 ⁷ / ₈	100 *
30-260	500	37	5 ¹ / ₈	—	—	10 ³ / ₈	90 *
50-95	750	38	5 ⁷ / ₈	—	—	12 ¹ / ₂	65 *
96-260	750	38	5 ⁷ / ₈	—	—	11 ⁵ / ₈	65 *
50-95	1000	39	6 ³ / ₄	—	—	13 ³ / ₈	25 *
96-260	1000	39	6 ³ / ₄	—	—	12 ³ / ₈	25 *
60-260	1500	40	7 ⁷ / ₈	—	—	15 ¹ / ₂	12 *
80-260	2000	212	9 ¹ / ₂	—	—	18 ⁷ / ₈	6 *

* barrel packing

Philips' Street-series Lamps

GASFILLED

Series lamps are much in favour for street-lighting on account of their high efficiency, even with low intensity lamps, and on account of the simplification of the wiring. The current intensity has been standardised at the following values : 4—5.5—6.6—7.5—9.6—15 and 20 Amp. Automatic cut-outs should be provided for every lamp in the circuit, in order to prevent an interruption of the lighting of the whole series in case one lamp should burn out.

All street-series lamps are supplied with G.E.S. caps.

Nominal C P	Voltage at lamp in a circuit of							length inches	diam. inches	light center length.
	4 amp.	5.5 amp.	6.6 amp.	7.5 amp.	9.6 amp.	15 amp.	20 amp.			
40	8,7	—	—	—	—	—	—	7 ¹ / ₄	3	5 ³ / ₈
60	11,9	8,5	7,1	6,4	—	—	—	"	"	"
80	15,1	10,8	9,1	8,0	—	—	—	"	"	"
100	18,9	13,0	10,9	9,6	—	—	—	"	"	"
150	—	—	15,3	—	—	—	—	"	"	"
200	—	—	18,3	17,5	—	—	—	9 ¹ / ₄	4 ³ / ₄	7
250	50,0	29,7	23,5	19,6	—	—	—	"	"	"
300	—	—	25	—	—	—	—	"	"	"
350	—	—	29	—	—	—	—	"	"	"
400	71,5	47,4	37,1	30,5	24,0	15,3*)	11,5*)	"	"	"
600	107,3	—	55,7	45,8	35,9	—	15,5*)	"	"	"
1000	—	—	75	—	60,0	—	26,0	12 ³ / ₈	5 ¹ / ₈	9 ¹ / ₂
1500	—	—	—	—	—	—	37,8	"	"	"
2000	—	—	—	—	—	—	50,0	"	"	"

*) dimensions for these three lamps are 12³/₈—5¹/₈—9¹/₂ resp.

Philips' Daylight Lamps

GASFILLED



By the use of bulbs of a specially prepared blue glass that acts as a filter retaining superfluous red rays, the colour of the light of these lamps is changed until it closely resembles daylight.

Artificial daylight as produced by Philips' Daylight Lamps ensures accurate comparison of colours at any time. Preference to Philips' Daylight Lamps is therefore given for the lighting of millinery-stores, flower-shops, printing works, studios, mills, dye-works, etc.

Volts	Watts	Type	Diam. of Bulb inches	Overall Length inches			Stand. Pack. Quan.
				E.S.	B.C.	G.E.S.	
20-179	60	48	2 $\frac{1}{2}$	4 $\frac{7}{8}$	4 $\frac{3}{4}$	—	500
180-260	75	48a	2 $\frac{3}{4}$	5 $\frac{1}{4}$	5	—	500
20-260	100	49	3 $\frac{1}{8}$	6	5 $\frac{1}{2}$	—	250
20-260	150	50	3 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{8}$	—	250
20-260	200	51	4	8 $\frac{1}{2}$	7 $\frac{7}{8}$	8 $\frac{3}{4}$	200 *
30-260	300	52	4 $\frac{3}{8}$	—	—	9 $\frac{1}{2}$	125 *
30-260	400	53	4 $\frac{3}{4}$	—	—	11	100 *
30-260	500	54	5 $\frac{1}{8}$	—	—	11 $\frac{3}{8}$	90 *
50-260	750	55	5 $\frac{7}{8}$	—	—	11 $\frac{3}{8}$	65 *
50-260	1000	56	6 $\frac{3}{4}$	—	—	12 $\frac{1}{8}$	25 *
60-260	1500	57	7 $\frac{7}{8}$	—	—	15 $\frac{1}{2}$	12 *

* barrel packing

Philips' metal filament Lamps



VACUUM LAMPS PEAR - SHAPE BULBS



Volts	C. P.	Type	Diam. of Bulb inches	Overall Length inches		Stand. Pack. Quan.
				E. S.	B. C.	
25-129	5	1	1 ³ / ₄	4 ¹ / ₈	4	500
130-179			2	4 ¹ / ₄	4 ¹ / ₈	500
180-230			2 ¹ / ₄	4 ⁷ / ₈	4 ³ / ₄	500
25-129	10	2	1 ³ / ₄	4 ¹ / ₈	4	500
130-179			2	4 ¹ / ₄	4 ¹ / ₈	500
180-260			2 ¹ / ₄	4 ⁷ / ₈	4 ³ / ₄	500
25-179	16	3	2	4 ¹ / ₄	4 ¹ / ₈	500
180-260			2 ¹ / ₄	4 ⁷ / ₈	4 ³ / ₄	500
25-179	25	4	2	4 ¹ / ₂	4 ¹ / ₄	500
180-260			2 ¹ / ₄	5 ¹ / ₈	5	500
25-179	32	5	2	4 ⁵ / ₈	4 ¹ / ₂	500
180-260			2 ¹ / ₄	5 ¹ / ₈	5	500
25-129	50	6	2 ¹ / ₄	5	4 ⁷ / ₈	500
130-179			2 ¹ / ₄	4 ⁷ / ₈	4 ³ / ₄	500
180-260			2 ¹ / ₄	5 ¹ / ₄	5 ¹ / ₄	500
25-260	100	6a	2 ⁷ / ₈	6 ¹ / ₂	6 ¹ / ₄	250

Philips' metal filament Lamps



VACUUM LAMPS ROUND BULBS



Volts	C. P.	Type	Diam. of Bulb inches	Overall Length inches				Stand. Pack. Quan.
				E. S.	B. C.	S.E.S.	S.B.C.	
25-179	5	7	2 ¹ / ₈	3 ¹ / ₂	3 ¹ / ₄	3 ¹ / ₂	3 ³ / ₈	600
25-179 180-260	10	8	2 ¹ / ₈ 2 ³ / ₄	3 ¹ / ₂ 4 ¹ / ₈	3 ¹ / ₄ 4	3 ¹ / ₂ —	3 ³ / ₈ —	600 500
25-179 180-260	16	9	2 ¹ / ₈ 2 ³ / ₄	3 ¹ / ₂ 4 ¹ / ₈	3 ¹ / ₄ 4	3 ¹ / ₂ —	3 ³ / ₈ —	600 500
25-179 180-260	25	10	3 3 ¹ / ₈	4 ¹ / ₂ 4 ³ / ₄	4 ¹ / ₄ 4 ⁵ / ₈	— —	— —	500 400
25-179 180-260	32	11	3 3 ¹ / ₈	4 ¹ / ₂ 4 ³ / ₄	4 ¹ / ₄ 4 ⁵ / ₈	— —	— —	500 400
25-260	50	12	3 ¹ / ₈	4 ³ / ₄	4 ⁵ / ₈	—	—	400
25-260	100	13	4 ³ / ₈	6 ¹ / ₂	6 ¹ / ₈	—	—	100

Philips' Lamps of Reinforced Construction. Mill-Type Lamps



VACUUM-LAMPS PEAR - SHAPE BULBS

(ROUND BULBS WILL BE
SUPPLIED ON REQUEST)



Philips' Mill-Type Lamps of Reinforced Construction give entire satisfaction even when subjected to continuous vibrations or repeated mechanical shocks. They should therefore be used for the lighting of factories, mills, ships, lifts, etc. as well as for tram- and trainlighting service.

Data regarding lamps for low voltage trainlighting systems will be supplied on request.

Volts	C. P.	Type	Diam. of Bulb inches	Overall Length inches		Stand. Pack. Quan.
				E. S.	B. C.	
90-179 180-260	16	25	2 2 ¹ / ₄	4 ¹ / ₄ 4 ⁷ / ₈	4 4 ³ / ₄	500 500
90-179 180-260	25	26	2 2 ¹ / ₄	4 ¹ / ₂ 5 ¹ / ₈	4 ¹ / ₄ 5	500 500
90-179 180-260	32	27	2 2 ¹ / ₄	4 ⁵ / ₈ 5 ¹ / ₈	4 ¹ / ₂ 5	500 500
90-179 180-260	50	28	2 ¹ / ₄ 2 ³ / ₈	4 ⁷ / ₈ 5 ¹ / ₄	4 ³ / ₄ 5 ¹ / ₄	500 500

Philips' spiralsed filament Lamps



Type 298



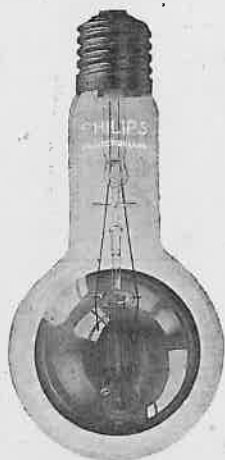
Spiralsed Filament Lamps of the Vacuum Type are supplied with round bulbs only, with the exception of the lamp type 319 which is also supplied in a cylindrical bulb as no. 298. Both these lamps are not made for lighting purposes, but to heat small vaporisers, which distribute incense and perfumes.

Volts	Watts	Type	Diam. of Bulb inch.	Overall Length inches				Stand. Pack. Quan.
				E.S.	B.C.	S.E.S.	S.B.C.	
100-240	15	298	1 ¹ / ₈	—	—	2 ⁵ / ₈	2 ¹ / ₂	200
100-240	15	319	1 ⁵ / ₈	—	—	2 ⁷ / ₈	2 ¹ / ₂	200
90-170	15	19	1 ³ / ₄	3 ¹ / ₈	2 ³ / ₄	3	2 ⁷ / ₈	1000
90-260	20	20	2	3 ¹ / ₄	2 ⁷ / ₈	3 ¹ / ₄	3 ¹ / ₈	1000
90-260	30	21	2 ¹ / ₈	3 ¹ / ₂	3 ¹ / ₄	3 ¹ / ₂	3 ³ / ₈	600
90-260	40	22	2 ³ / ₈	3 ³ / ₄	3 ³ / ₈	3 ³ / ₄	3 ¹ / ₂	500
90-260	50	23	2 ³ / ₄	4 ¹ / ₈	4	—	—	500
90-260	100	24	3 ¹ / ₂	5 ³ / ₈	5 ¹ / ₈	—	—	250

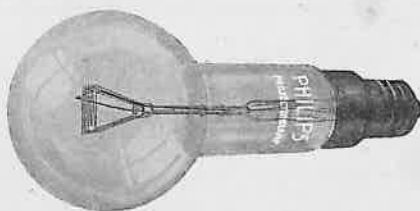
Philips' Projection Lamps

GASFILLED

Vert. type



Horizontal type



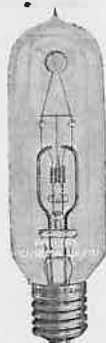
Philips' Lamps for projection or stereopticon service can be used in any lantern to replace the arc-lamp. They give as much light with A. C. as with D. C., they require no attendance and yield a constant light.

	Volts	Watts	C.P.	Type	Diam. of Bulb inch.	Overall Length inch		light center length
						E.S.	G.E.S.	
Lamps for horiz. position without mirror.	100-130	60	70	287	2 ³ / ₈	4 ¹ / ₈	—	3 ³ / ₈
		100	135	107	2 ³ / ₄	4 ¹ / ₂	—	3 ³ / ₄
		150	225	64	3 ¹ / ₈	4 ⁷ / ₈	—	4
		200	310	290	3 ¹ / ₂	5 ³ / ₈	—	4 ³ / ₄
	100-130	300	500	291	4 ³ / ₈	—	9 ¹ / ₂	7 ⁷ / ₈
		500	860	66	4 ³ / ₄	—	9 ⁷ / ₈	8 ¹ / ₈
	200-250	750	1350	67	5 ¹ / ₈	—	10 ¹ / ₂	8 ⁵ / ₈
		1000	1800	68	5 ⁷ / ₈	—	12 ³ / ₈	10
		1500	2700	69	6 ³ / ₄	—	13 ¹ / ₄	10 ³ / ₄
		2000	3600	309	7 ⁷ / ₈	—	13 ⁷ / ₈	10 ³ / ₄
Lamps for vertical position, provided with mirror. (2000 W. excepted).	100-130	60	115*	294	2 ³ / ₈	4 ¹ / ₈	—	3
		100	230	106	3 ¹ / ₈	6 ¹ / ₄	—	4 ³ / ₄
		150	400	58	3 ¹ / ₂	7 ¹ / ₄	—	5 ¹ / ₂
		200	540	288	3 ¹ / ₂	6 ¹ / ₄	—	4 ¹ / ₂
	100-130	300	850	289	4 ³ / ₈	—	9 ¹ / ₂	7 ¹ / ₄
		500	1550	60	4 ³ / ₄	—	9 ⁷ / ₈	7 ¹ / ₂
	200-250	750	2350	61	5 ¹ / ₈	—	10 ³ / ₈	7 ⁷ / ₈
		1000	3150	62	5 ⁷ / ₈	—	12 ¹ / ₄	9 ³ / ₈
		1500	4800	63	6 ³ / ₄	—	13 ¹ / ₄	9 ⁷ / ₈
		2000	3600	310	7 ⁷ / ₈	—	14 ¹ / ₈	10 ¹ / ₄

*) The candle-power of these lamps has been measured with a silver-coated bulb. (2000 W. excepted).

Philips' Cinema Lamps

GASFILLED



Philips' Cinema lamps have highly concentrated filaments, by virtue of which they can replace the arc-lamp for moving-picture service. To get good results the voltage should not be higher than 130 volts, so a series resistance or a transformer should be used on 220 V. supplies. The low-voltage cinema-lamp (30 V. 30 A.) possesses the smallest filament ($\frac{7}{16}$ by $\frac{7}{16}$) and the highest intrinsic brilliancy.

Once adjusted, Philips' Cinema Lamps give a constant light and do not need any attendance.

An adjustable lampholder with G. E. S. fitting and spherical mirror can be supplied in which the lamp burns with the tip upward.

For further particulars, see special list 730 E.

Volts	Watts	Type	Diam. of bulb	total length	light center length
100-130	300	295	$2\frac{1}{8}$	$7\frac{5}{8}$	$3\frac{5}{8}$
	600	296	$2\frac{1}{2}$	$9\frac{1}{4}$	$4\frac{3}{4}$
	1000	297	$2\frac{3}{4}$	$9\frac{1}{4}$	$4\frac{3}{4}$
30	900	75	$2\frac{3}{4}$	$9\frac{1}{4}$	$4\frac{3}{4}$

Philips' Floodlighting Lamps

GASFILLED



These lamps are specially made for floodlighting-projectors, searchlights and headlights whose mirror has a central opening through which the neck of the lamp can pass. These lamps are specially designed to burn in a horizontal position and in any position except tip down within 45 degrees of vertical position.

For floodlight projectors with vertical axis of lamp we recommend the use of projection lamps for vertical burning (see page 18).

Low voltage floodlighting lamps are used for locomotive headlight service.

Volts	Watts	Type	Diameter of Bulb inches	Overall Length with E.S. cap inches	light center length
25 - 40 } 100 - 130 }	100	120	3 ¹ / ₈	4 ⁷ / ₈	3
	150	121	3 ¹ / ₂	5 ¹ / ₈	3
25 - 40 } 100 - 130 }	250	123	4	5 ³ / ₈	3
200 - 240 }	500	125	5 ¹ / ₈	7 ¹ / ₄	4 ¹ / ₄

The 500 W. lamp can also be supplied with G. E. S.

Philips' Photo-Studio Lamps

GASFILLED.



Gasfilled lamps in general may replace arc-lamps for photo-studio work, although on account of their lower actinic value the time of exposure should be prolonged. A considerable shortening of the exposure can, however, be obtained by the use of

PHILIPS' PHOTO-STUDIO LAMPS.

These lamps are enclosed in large frosted bulbs in order to soften shadows and to prevent glare. They can be supplied with „Daylight” bulbs, which do not cause an increase of actinic value, but tend to make the bright light less objectionable to the eye.

Volts	Watts	Type	Diameter Bulb inches	Overall Length with G. E. S. cap inches.
90-260	300	116	8	13 ³ / ₄

The average life of these supercharged lamps being about 50 hours, it is recommended to use them on full voltage during the exposure only. During the remainder of the time the voltage should be reduced by a suitable resistance, for which purpose we can supply specially selected carbon filament lamps of 25 V. 2.4 A. for supplies from 110-125 V. and of 50 V. 1.2 A. for 220 V. supplies. To use one carbon lamp in conjunction with every photo-studio lamp.

Philips' Tungsten Arc-lamp

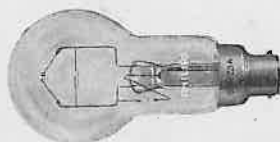
(SELF-STARTING)



vertical type



resistance



Horizontal type (seen from above)

The tungsten-arc lamp is a real point source of light, which has proved very useful for micro-photography, dark-ground illumination in microscopy, for micro-projection and optical experiments, as well as for small moving-picture apparatus for domestic use.

Philips' tungsten arc-lamp is self-starting. Its light is produced by two tiny spheres of tungsten, placed closely together and heated by the arc to a very high temperature.

Like every arc-lamp Philips' tungsten arc-lamp should always be used in series with a resistance. The use of our special resistances is strongly recommended, as they keep the current to the right value. The current intensity should never drop under its normal value, as this will cause blackening of the bulb.

see special bulletin 733 E.

Tungsten-Arc-lamp for 220 V. A.-C. only	Intensity of current	Total length inch	Light center length inch	Diam. of bulb inch.
Vertical type	1.3 amp	$4\frac{1}{8}$	$2\frac{3}{8}$	$1\frac{1}{4}$
" "	2.5 amp	$5\frac{1}{8}$	$2\frac{3}{4}$	$1\frac{1}{2}$
Horizontal type	1.3 amp	$4\frac{1}{8}$	$3\frac{1}{2}$	$2\frac{1}{8}$
" "	2.5 amp	$5\frac{3}{8}$	$4\frac{3}{4}$	$2\frac{1}{2}$

Philips' Projector Lamps

WITH SPIRALISED FILAMENT



The spiralised (helical) tungsten filament, mounted in a circle, has been placed as close as possible to the opal shade, thereby assuring a more effective and even distribution of light, without those awkward spots directly underneath the lamp.

More than $\frac{3}{4}$ of the flux of light of the Philips' Projector Lamps with opal shade is thrown in downward direction. With other incandescent lamps, on the contrary, the flux of light is equally distributed between the upper and the lower hemisphere.

Philips' Projector Lamps should be applied in all those instances, where light thrown in downward direction is needed, but where for one reason or another a separate shade or reflector cannot be used. Philips' Projector Lamps are particularly effective when used in silk-shaded fixtures.

These lamps can be supplied with white or green opal shades.

Volts	Watts	Type	Diameter inches	Overall Length inches		Stand Pack. Quan.
				E. S.	B. C.	
90-260	20	187	$2\frac{7}{8}$	$3\frac{3}{4}$	$3\frac{1}{2}$	500
90-260	30	188	$2\frac{7}{8}$	$3\frac{3}{4}$	$3\frac{1}{2}$	500
90-260	40	189	$2\frac{7}{8}$	$3\frac{3}{4}$	$3\frac{1}{2}$	500
90-260	50	190	$2\frac{7}{8}$	$3\frac{3}{4}$	$3\frac{1}{2}$	500

Philips' Illumination Lamps



SUPPLIED WITH
PEAR-SHAPE BULB
OR WITH
ROUND-BULB



As lamps for low-tension series-lighting are of great mechanical strength and easily wired, illumination lamps are usually made for 14 V. Lamps with a luminous intensity of 3 C. P. are preferred for this purpose. They are placed into a series circuit, in such a number, that their total voltage corresponds with the supply voltage.

For decorative purposes these lamps can be supplied with a frosted-coating of the following colours : red, blue, green, orange, white.

Volts	C.P.	Type	Diameter of Bulb inches		Overall Length inches			
			Pear shape	Round bulb	Pear Shape		Round Bulb	
					S.E.S.	S.B.C.	S.E.S.	S.B.C.
10-25	3	108	1 ¹ / ₈	1 ⁵ / ₈	2 ⁵ / ₈	2 ³ / ₈	2 ⁵ / ₈	2 ³ / ₈

Standard Packing Quantity 1000

Philips' X-mas-tree lighting-sets



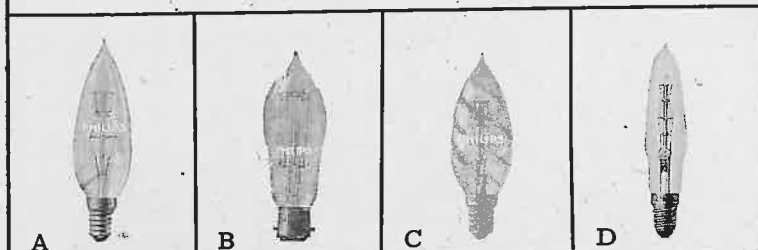
Everybody can light up electrically a X-mas-tree by means of our lighting sets, containing lamps (incl. spare lamps for renewals), lamp-holders with swivel-clamps, flexible green leads and plug in neat cardboard boxes, everything connected and ready for use.

Lamps are supplied in different colours, and are very much alike wax-candles. They avoid any risk of wax dropping on to the floor and any danger of fire.

A special advantage of electric lamps when used on big trees lies in the fact that they can be lighted at once.

Volts	Type	Number of lamps	Spare lamps	Diam. of lamps
100-135	317	2 × 8	2	1/2" × 4"
140-170		12	4	
200-250		16	2	

Philips' Candle Lamps



These fancy-lamps are supplied with the following bulbs :

- A. Plain candle.
- B. Conical shape.
- C. Twisted candle.
- D. New type candle.

The bulbs of these lamps have a neck of small diameter, which permits the insertion of the lamp into the porcelain tubes of candelabrum fittings.

Form	Volts	C. P.	Type	Diam. of Bulb inches	Overall Length inches	
					S. E. S.	S. B. C.
A	90-179	25	137	$1\frac{3}{8}$	$4\frac{1}{2}$	$4\frac{3}{8}$
	180-260	25		$1\frac{1}{2}$	$4\frac{7}{8}$	$4\frac{5}{8}$
	90-179	32		$1\frac{3}{8}$	$4\frac{1}{2}$	$4\frac{3}{8}$
	180-260	32		$1\frac{1}{2}$	$4\frac{7}{8}$	$4\frac{5}{8}$
B	90-129	5	139	$1\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{3}{8}$
	90-240	10		$1\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{3}{8}$
	90-240	16		$1\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{3}{8}$
C	90-129	5	110	$1\frac{3}{8}$	4	$3\frac{3}{4}$
	90-129	10		$1\frac{3}{8}$	4	$3\frac{3}{4}$
	130-240	10		$1\frac{3}{8}$	$4\frac{1}{2}$	$4\frac{3}{8}$
	90-129	16		$1\frac{3}{8}$	4	$3\frac{3}{4}$
	130-260	16		$1\frac{3}{8}$	$4\frac{1}{2}$	$4\frac{3}{8}$
	90-179	25		$1\frac{3}{8}$	$4\frac{1}{2}$	$4\frac{3}{8}$
	180-260	25		$1\frac{1}{2}$	$4\frac{7}{8}$	$4\frac{5}{8}$
	90-179	32		$1\frac{3}{8}$	$4\frac{1}{2}$	$4\frac{3}{8}$
180-260	32	$1\frac{1}{2}$	$4\frac{7}{8}$	$4\frac{5}{8}$		
D	90-260	5	318	1	$4\frac{5}{8}$	$4\frac{3}{8}$
		10				
		16				
		25				
		32				

Lamps of 5, 10 and 16 C.P. and 90-129 Volts are supplied with straight tungsten filament, whereas all other lamps mentioned above are supplied with spiralsed filament.

Standard Packing Quantity : for lamps of 90-179 Volts 1000.
 " " " " " " " " 180-260 " 500.

Philips' Candelabrum Lamps



The distinguishing feature of these lamps is that the lower part of same is enclosed in a tube of white opal glass, giving them the appearance of ordinary candles. Therefore no special fittings with loose porcelain tubes are needed. Edison fittings are recommended to hold these lamps in a perfect straight position.

Philips' Candelabrum Lamps are noticeable for their stylish appearance and their beautiful finish.



Volts	C. P.	Type	Diam. of Tube inches	Overall Length inches			
				E. S.	B. C.	S.E.S	S.B.C.
90-260	10	133	1	$7\frac{5}{8}$	$7\frac{5}{8}$	8	$7\frac{3}{4}$
90-260	16	133	1	$7\frac{5}{8}$	$7\frac{5}{8}$	8	$7\frac{3}{4}$
90-260	25	133	1	$7\frac{5}{8}$	$7\frac{5}{8}$	8	$7\frac{3}{4}$

Philips' Tubular Lamps



On account of their small dimensions, notably of their small diameter, Tubular Lamps can be used as fancy lamps in lighting fixtures or also as a source of light in such places where only a very restricted space is available e. g. in showcases, transparent signs, as signal lamps on switchboards, for the lighting of musicians' desks etc.



Volts	C. P.	Type	Diameter of Bulb inches	Overall Length inches	
				S. E. S.	S. B. C.
90-260	10	109	1 ¹ / ₈	4 ¹ / ₈	4
90-260	16	109	1 ¹ / ₈	4 ¹ / ₈	4
90-260	25	109	1 ¹ / ₄	4 ³ / ₈	4 ¹ / ₈

Lamps of 5, 10 and 16 C. P and 90-129 Volts are supplied with straight tungsten filament, whereas all other lamps mentioned above are supplied with spiraled filament.

Standard Packing Quantity : for lamps of 90-179 Volts 1000

" " " " " " 180-260 " 500

Philips' Show-window Lamps



Show-window lamps are tubular lamps with a spiralised filament, stretched from one end to the other. Caps are attached on both ends. Special fittings to suit these lamps will be supplied on request. Half-silvered show-window lamps do not require any further special reflector.



Volts	C. P.	Type	Diam. of Tube inches	Overall Length inches	Diam. of caps inches
90-129	16	142	$\frac{7}{8}$	$8\frac{5}{8}$	$\frac{5}{8}$
90-129		213	$\frac{7}{8}$	10	$\frac{5}{8}$
130-260		144	$1\frac{1}{8}$	$10\frac{1}{4}$	$\frac{3}{4}$
90-260	25	142 152	$\frac{7}{8}$ $1\frac{1}{2}$	$8\frac{3}{4}$ 11	$\frac{5}{8}$ $\frac{3}{4}$
90-260	32	154	$1\frac{1}{2}$	$12\frac{1}{8}$	$\frac{3}{4}$
90-260	50	154	$1\frac{1}{2}$	$12\frac{1}{8}$	$\frac{3}{4}$
90-260	100	156	$1\frac{7}{8}$	13	$\frac{3}{4}$



A special lampholder can be supplied with these lamps (No. 275).

Philips' Turn-down Lamps

FULL LIGHT.
25 C. P.



LIGHT DIMMED
5 C. P.

A pull of the string with the black bead instantly changes the light emitted by a Philips' Turn-Down Lamp from a full bright to a subdued one. Philips' Turn-Down Lamps bring about a considerable saving in electric current and as no special fittings are required they can be used on any outlet.

The absence of a resistance in the fitting prevents undue heating of same.

Volts	C. P.	Type	Diameter of Bulb inches	Overall Length inches	
				E. S.	B. C.
100-230	25/5	163	2 ¹ / ₄	5 ³ / ₄	5 ³ / ₈

Philips' Savelite Lamps



There has always been a big demand for lamps for continuous lighting purposes, consuming as little electric current as possible as e. g. for the lighting of corridors, stair-cases, hotels as well as hospitals, W.C.'s, cupboards etc. In all these instances a lamp of 1-2 C.P. provides ample supply of light.

This demand is now entirely met by the
PHILIPS' SAVELITE-LAMP

a lamp that saves money by preventing waste of light. Hereby is brought within the reach of the users of alternating current a lamp of 1½ C. P. only, which may be used on the ordinary voltages (100-260 Volts).

No special apparatus has to be installed, the lamp itself carrying in its own socket a suitable condenser to reduce the voltage of the supply without loss of energy to the voltage of the filament in the lamp.



Volts	C. P.	Type	Diam. of Bulb inches	Overall Length inches	
				E. S.	B. C.
Alternating current of 40-100 cycles (specify voltage and number of cycles).					
100-250	1.5	192	1 ³ / ₈	5 ³ / ₈	4 ³ / ₄
200-250	1.5	192a	1 ¹ / ₈	4 ⁵ / ₈	4 ³ / ₄
100-250	1.5	193b	2 ¹ / ₈	5 ¹ / ₈	4 ¹ / ₂
200-250	1.5	192c	2	4 ² / ₈	4 ¹ / ₂

Philips' Nightlamps



The luminous discharge of electricity in Neongas produces a soft subdued light of a warm orange colour, which is very suitable for nightlighting in bed-rooms, nurseries, infirmaries etc.

The current consumed by our night-lamps of this type being extremely small, nightlighting is rendered very cheap by these lamps.

The absence of an incandescent filament makes these lamps shock proof.

Nightlamps are supplied with frosted bulbs as well as with white bulbs, like the Argenta-lamps. A photograph of a lamp taken before frosting is reproduced to show the stout helical wire between which the luminous discharge is produced.



Volts	Type	Diameter inches	Overall Length inches	
			E. S.	B. C.
100-260 A. C.	112	$2\frac{3}{8}$	$4\frac{3}{4}$	$4\frac{3}{4}$
150-260 D. C.	113	$2\frac{3}{8}$	$4\frac{3}{4}$	$4\frac{3}{4}$

Philips' Photolamps



Ruby lamps for use in darkrooms should give sufficient light to see and yet not cause any veil on the plates. Most kinds of glass, though apparently red, cannot be used for photographic purposes. The glass used for the bulbs of Philips' Photolamps has stood a spectrometer test. The spirals tungsten wire radiates less heat than the carbon filament, which is an advantage for the use of Philips' Photolamps in hot climates or in ill-ventilated darkrooms.

For treating gaslight papers photolamps are made with bulbs of a bright red colour. If these lamps are wanted, please mention the word „bright” in your order.

Volts	Type	Diameter inches	Overall Length inches	
			E. S.	B. C.
100—150	117	$2\frac{1}{4}$	$5\frac{3}{8}$	$5\frac{1}{8}$
200—240	118	$2\frac{1}{4}$	$5\frac{1}{2}$	$5\frac{1}{8}$

Philips' Frostcoloured Lamps

It is generally recognised that alcoholic lacquers cannot provide a permanent coloured coating of electric lamps. Heat and light tend to destroy these colours within a short time.

The search for a more permanent coloured coating of lamps has resulted in the production of frost-coloured lamps.

These lamps are treated in such a way, that the colours appear exactly the same during daytime, when the lamps are not lighted, as they do during the night, when lamps are lighted.

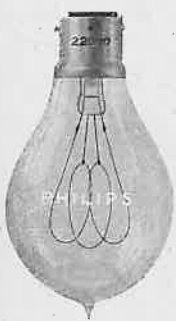
This offers a great advantage as far as the use of these lamps for decorative purposes is concerned.

Only these colours, which are standard, can be supplied:

white, red, green, blue and orange on the following lamps :

vacuum-lamps only	pearshape and spherical bulb	page 14 & 15
	illumination lamps	" 24
	projector lamps	" 23
	tubular and candle-shape lamps	" 26 & 28
	carbon filament lamps up to 16 C. P.	" 35

Philips' Carbon Lamps

	Volts	C. P.	Type	Diam. of Bulb inch.	Overall Length inch.	
					E. S.	B. C.
	50-260	5	193	2 ¹ / ₈	4	3 ³ / ₄
	50-260	10	194	2 ¹ / ₈	4	3 ³ / ₄
	50-260	16	195	2 ¹ / ₄	4 ³ / ₈	4 ¹ / ₈
	50-260	25	196	2 ¹ / ₂	4 ³ / ₄	4 ¹ / ₂
	50-260	32	197	2 ⁵ / ₈	4 ⁷ / ₈	4 ⁵ / ₈
	50-260	30	198	2 ³ / ₄	5 ³ / ₈	5 ¹ / ₄
Round Bulb	50-260	5	200	1 ³ / ₄	3	2 ⁷ / ₈
	50-260	10	201	1 ³ / ₄	3	2 ⁷ / ₈
	50-260	16	202	2 ¹ / ₈	3 ⁵ / ₈	3 ¹ / ₄
Plain Candle	50-260	5	203	1 ¹ / ₈	3 ³ / ₄	3 ¹ / ₂
	50-260	10	204	1 ¹ / ₈	3 ³ / ₄	3 ¹ / ₂
	50-260	16	205	1 ¹ / ₈	3 ³ / ₄	3 ¹ / ₂
Twisted Candle	50-260	5	206	1 ¹ / ₂	4 ⁵ / ₈	4 ¹ / ₂
	50-260	10	207	1 ¹ / ₂	4 ⁵ / ₈	4 ¹ / ₂
	50-260	16	208	1 ¹ / ₂	4 ⁵ / ₈	4 ¹ / ₂
Tubular Lamps	50-260	5	209	7/ ₈	4 ¹ / ₂	4 ¹ / ₈
	50-260	10	210	7/ ₈	4 ¹ / ₂	4 ¹ / ₈
	50-260	16	211	7/ ₈	4 ¹ / ₂	4 ¹ / ₈

Philips' Automobile Head Lamps

PIPELESS. GASFILLED






Diam. Bulb : 2" Cap : 833 P (D.C.)


FOR AMERICAN CARS			FOR EUROPEAN CARS		
Volts	C. P.	diam. inch.	Volts	C. P.	diam. inch.
6-8	15	1 1/2	6	12	1 1/4
6-8	18		8	12	
6-8	21		6	16	
6-8	27		8	16	
6-8	32		12	16	
6-8	50	2	6	25	1 5/8
9	18	8	25		
9	21	12	25		
9	27	6	32		
9	27	8	32		
12-16	16	1 1/2	12	32	2
12-16	21	2	12	32	
12-16	27		6	50	
12-16	32		8	50	
12-16	50		12	50	
18-24	27		1 1/2	6	75
With cap : S. C. (834 P) or D. C. (833 P)			8	75	
			12	75	
			6	100	
			8	100	
			12	100	
DOUBLE FILAMENT					
6-8	21 & 3	1 1/2 *	With cap : 834 P or D. C. 833 P or special caps.		
6-8	50 & 6	2 *			
* With Cap D. C. only					


Philips' Side and Taillamps

PIPELESS, VACUUM

For AMERICAN CARS			 Diam. Bulb: 3/4" Cap: 833 P (D.C.) Tail-lamp	For EUROPEAN CARS		
Volts	C. P.	Diam. inch.		Volts	C. P.	Diam. inch.
3-4	2	} 3/4	6	4	3/4	
6-8	2		6	6	1	
6-8	4	} 1	8	4	3/4	
6-8	6		8	8	1	
9	2	} 3/4	12	4	3/4	
9	4		12	6	1	
12-16	2	} 1	12	12	1	
12-16	4		 Diam. Bulb: 1" Cap: 834 P (C.P.) Side-lamp			

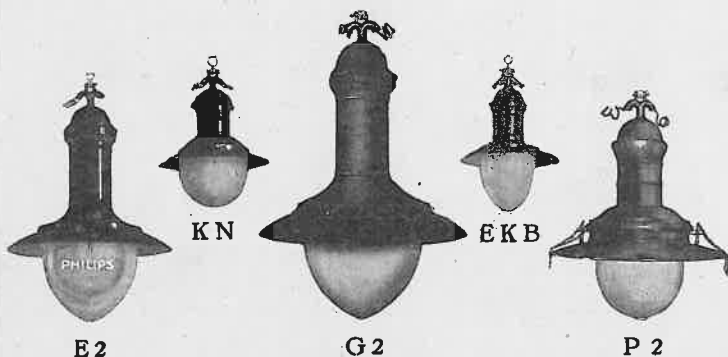
 Diam. Bulb: 1", Cap: 833 P (D.C.) Mushroom-Tail-lamp	MUSHROOM		
	Volts	C. P.	Diam. inch.
	6	6	} 1
	8	6	
	12	6	

 Diam.: 11/16", Total length: 2". Cap 847. Tubular for Fiat Cars	TUBULAR		
	Volts	C. P.	Diam. inch.
	6	6	} 5/8
	8	6	
	12	6	
Total length 2". With Cap: S.C. (834 P) or D.C. (833 P)			
TUBULAR FOR FIAT CARS			
12	6	11/16	
Total length 2". Cap: 847			
TUBULAR FOR CARS WITH BOSCH LIGHTING SYSTEM			
6	6	} 3/4	
12	8		
Total length 2 3/16". Cap: 863			

 Diam.: 5/8", Total length: 1 3/4". Festoonlamp	FESTOON		
	Volts	C. P.	Diam. inch.
	6	6	} 5/8
	8	6	
	12	6	
Total length 1 3/4".			

Philips' Lanterns

FOR IN- AND OUTDOOR LIGHTING



Philips' Lanterns for gasfilled lamps are black fire-enameled and absolutely weatherproof. The Lanterns E.K.B. & E.B. are furnished in blued brass with bands of polished brass. All lanterns are as a rule furnished with opalescent-globes, unless „clear-glass” is specified when ordering. If possible, it should be stated what size of lamp will be used in the lantern. Lanterns are supplied complete with wired suspension-device and lampholder. Please state when ordering lanterns to take lamps up to 200 Watts, whether E.S. or B.C. lampholders are required.

Type	Suitable for gas-filled lamps of these sizes :	Lanterns are supplied with these fittings :	Overall Length inch.	Diam. of globe inch.	Type	Diam. of Reflect. inch.
KN	60— 200 Watts	E. S. or B. C.	13 ¹ / ₂	6 ³ / ₄	KNL	11
E 1	300— 750 ”	G. E. S.	24	8 ⁵ / ₈	EL	none
E 2	300— 750 ”	”	24	8 ⁵ / ₈	EL	15 ³ / ₄
P 1	300— 750 ”	”	23	9	L 1	none
P 2	300— 750 ”	”	23	9	L 1	17 ³ / ₄
G 1	1000—2000 ”	”	29	11 ³ / ₈	GL	none
G 2	1000—2000 ”	”	29	11 ³ / ₈	GL	19 ³ / ₄
EKB	60— 200 ”	E. S. or B. C.	13	5 ⁷ / ₈	EKBL	11
EB	300— 750 ”	”	24	8 ⁵ / ₈	EBL	none

Philips' Fittings

FOR SEMI INDIRECT LIGHTING



HIKK 2



HIN



HIK 2

Semi-indirect lighting has become the favourite form of interior lighting with gasfilled lamps on account of the even distribution of the light and the absence of glare. The fixture H. I. N. is made of polished or oxidised brass, whereas the other fixtures are made of oxidised brass only. H. I. N. fittings can also be supplied with albasta bowls of slightly different form.

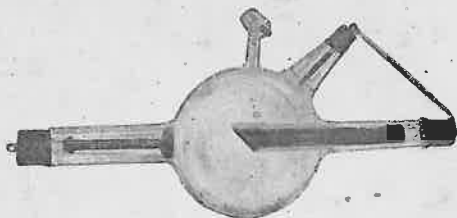
Type	Suitable for gasfilled lamps of the following sizes	Fixtures are supplied with the following fittings	Overall Length inch.	Diameter of Glass Bowl inches	Type of Glass Bowl used	Diameter of reflector inches
HIKK 1	60-150 Watts	E. S. or B. C.	18	10	cover A 3	none
HIKK 2	60-150 "	"	20	10	bowl O 5	14
HIK 1	200-500 Watts	G. E. S.	28	13 ¹ / ₄	cover A 1	none
HIK 2	200-500 "	"	30	13 ¹ / ₄	bowl O 3	18
HIN 10	60-100 Watts	none	27 ¹ / ₂	10	10	none
HIN 12	150-200 "	"	31 ¹ / ₂	12	12	"
HIN 14	300-400 "	"	33 ¹ / ₂	14	14	"
HIN 16	500-750 "	"	39 ¹ / ₂	16	16	"
HIN 18	1000-1500 "	"	41 ¹ / ₂	18	18	"

Philips' X-Ray Tubes

Tube for Therapeutics
T III



Radiography Tube
R III



RADIOGRAPHIC TUBES WITH RADIATOR
WATER COOLED RADIOGRAPHIC TUBES
HEAVY ANODE RADIOGRAPHIC TUBES
TUBES FOR THERAPEUTICS
VALVE TUBES
OSCILLOSCOPE TUBES

FOR PARTICULARS SEE BULLETIN 736 E

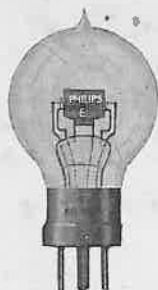
Philips' Thermionic Valves

For wireless telegraphy and telephony we supply

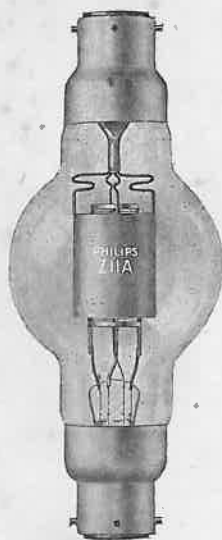
PHILIPS' RECEIVING VALVES
PHILIPS' TRANSMITTING VALVES
PHILIPS' RECTIFYING VALVES



Receiving Valve, Type D



Receiving Valve, Type E



Transmitting Valve,
Type Z II A

FOR PARTICULARS SEE BULLETIN 732 E

