

# Special fluorescent lamps

# CLEO Professional



Low-pressure mercury vapour fluorescent lamps emitting long-wave UV radiation between 300 and 400 nm for suntanning and other applications. All CLEO Professional lamps have gold-coloured caps. The UV-B/UV-A ratio is 1.4% (UV-B: 280-315 nm). The UV-B/UV-A ratio is 2.6% (UV-B: 280-320 nm). CLEO Professional-R lamps have an internal reflector of 200 degs. CLEO Professional-S lamps have an UV-B/UV-A ratio of 2.4%.

### Warning

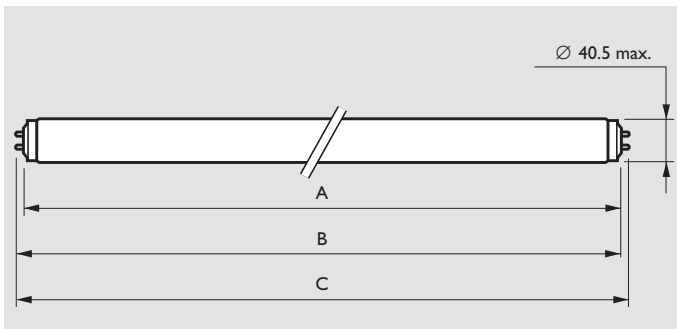
UV radiation, like solar radiation, can cause eye and skin injury if the appropriate safety measures are not observed. Always follow the manufacturer's instructions carefully when using any tanning product or system. When replacing tanning lamps in existing equipment, always adjust the tanning times according to the equipment manufacturer's instructions for the new lamp type.

### Starter

To ignite a tanning lamp the CLEO starter is recommended for tanning lamps with a lamp power of 80 W or 100 W. For tanning lamps with a lamp power of 140 W or 160 W the use of an S12 starter is recommended.

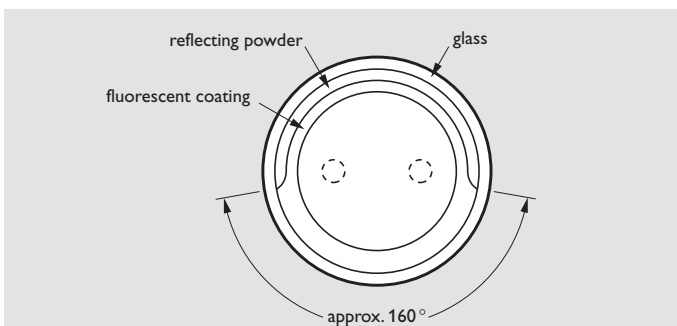
### Applications

- Cosmetic tanning in professional surroundings.



Dimensions in mm

Type	A max.	B min.	B max.	C max.
CLEO Professional 80W (-R)	1500.0	1504.7	1507.1	1514.2
CLEO Professional 100W (-R)	1763.8	1768.5	1770.9	1778.0
CLEO Professional 140W (-R) (-S-R)	1500.0	1504.7	1507.1	1454.2
CLEO Professional 160W (-R) (-S-R)	1763.0	1768.5	1770.9	1778.0



Cross-section-R version



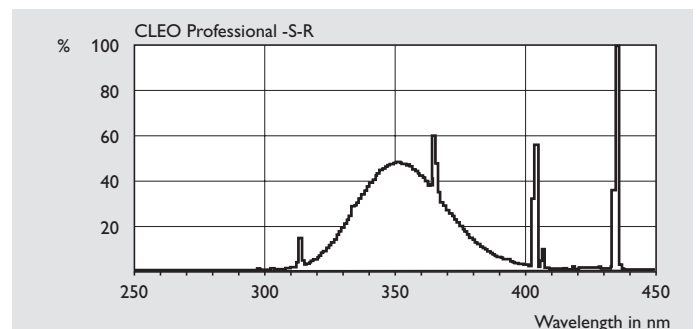
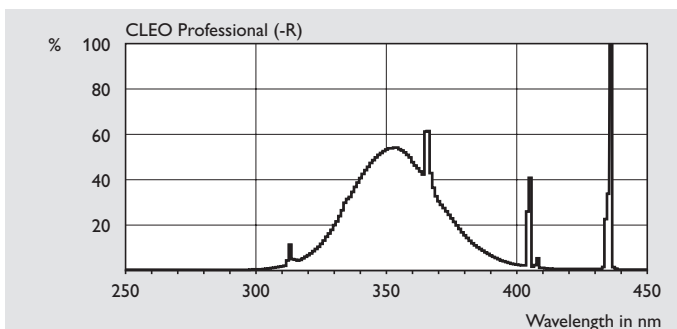
Type	Cap/ base	Lamp voltage	Lamp current	UV-A radiation <sup>1)</sup>	UV-B/UV-A ratio	Erythemat radiation <sup>1)</sup> ≤ 320 nm mW	Erythemat radiation <sup>1)</sup> > 320 nm mW	Useful life	Nett weight	Ordering number	EOC
		V	A	W	%			h	g		
<b>Professional</b>											
CLEO Professional 80W	G13	110	0.83	22	1.4	31	19	800	360	9280 032 10900	622174
CLEO Professional 80W-R	G13	110	0.83	20	1.4	29	17	800	360	9280 047 10900	622181
CLEO Professional 100W	G13	122	0.97	27	1.4	39	23	800	410	9280 043 10900	622198
CLEO Professional 100W-R	G13	122	0.97	26	1.4	37	22	800	410	9280 057 10900	622204
CLEO Professional 140W*	G13	118	1.46	35	1.4	49	29	800	360	9280 129 10900	629456
CLEO Professional 140W-R	G13	118	1.46	32	1.4	45	27	800	360	9280 132 10900	629401
CLEO Professional 160W*	G13	116	1.61	39	1.4	54	32	800	410	9280 080 10900	629371
CLEO Professional 160W-R	G13	116	1.61	37	1.4	52	30	800	410	9280 081 10900	629340
<b>Professional S, S-R, SHR</b>											
CLEO Professional S 80W	G13	110	0.83	22	2.4	45	19	800	360	9280 032 50900	641632
CLEO Professional S 80W-R	G13	110	0.83	20	2.4	42	17	800	360	9280 047 50900	641656
CLEO Professional S 100W	G13	122	0.97	27	2.4	56	23	800	410	9280 043 50900	641694
CLEO Professional S 100W-R	G13	122	0.97	26	2.4	53	22	800	410	9280 057 50900	641717
CLEO Professional SHR 140W*	G13	118	1.46	32	2.4	66	27	800	360	9280 132 50900	641113
CLEO Professional SHR 160W*	G13	116	1.61	36	2.4	74	31	800	410	9280 079 50900	641137

<sup>1)</sup> Average value at 100 hrs

<sup>2)</sup> Related to 100 hrs value

\* Cooling imperative

All CLEO products are measured at 5 hours according to IEC 61228.



Spectral power distributions