



Effective light therapy

Philips lamps for therapeutic purposes



International Federation of
Psoriasis Associations

PHILIPS

sense and simplicity



Proven technology for phototherapy

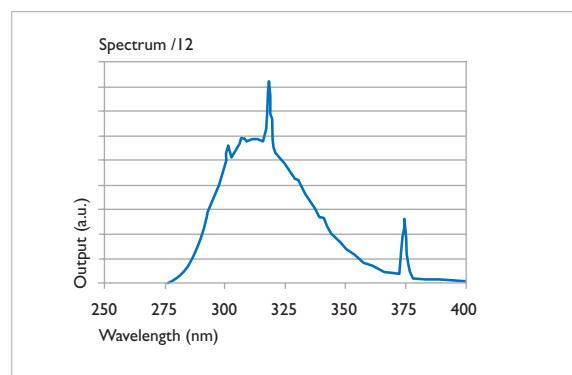
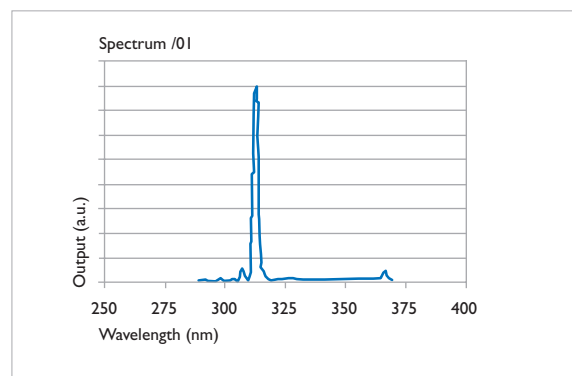
As the world's largest manufacturer of lighting products we have been setting the standard in pioneering technology for more than 100 years. Using our knowledge and experience we offer the very best in lighting innovation, reliability and quality. Our comprehensive range of lighting products has been developed for a broad range of lighting applications. This includes our highly effective range of therapy lamps designed for therapeutic purposes. These have been developed in close cooperation with universities and clinics around the world. We are here to work in partnership with you to advise you on which lamps best fit your application needs.

Philips TL/01 and TL/12 lamps

Philips TL/01 and TL/12 low-pressure mercury vapour fluorescent lamps are used for the treatment of Psoriasis, Vitiligo, Atopic Dermatitis and other less common skin diseases. These Philips lamps have been used as the reference UV sources in numerous medical studies. Due to the shape of the spectrum the /01 is commonly referred to as narrowband and /12 is known as broadband by the scientific community.

A patient's session is typically in the order of minutes. The dose must be limited in order to prevent erythema (sunburn).

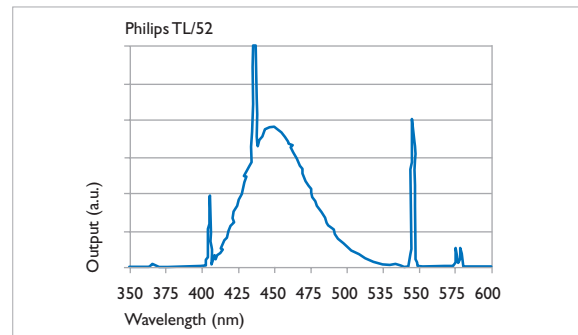
Within this limitation the /01 spectrum has been proven to be more effective than the /12 for the treatment of psoriasis. A study* also showed a reduced long term risk of narrow band (Philips /01) compared to broadband. Compared to PUVA therapy, UVB therapy is effective without the use of photosensitizers which are not tolerated by some patients.



* van Weelden, H.; van der Leun, J.C.: Improving the effectiveness of phototherapy for psoriasis. Br. J. Derm 111: 484 (1984).

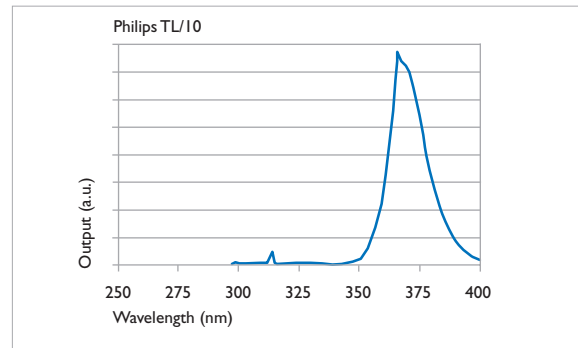
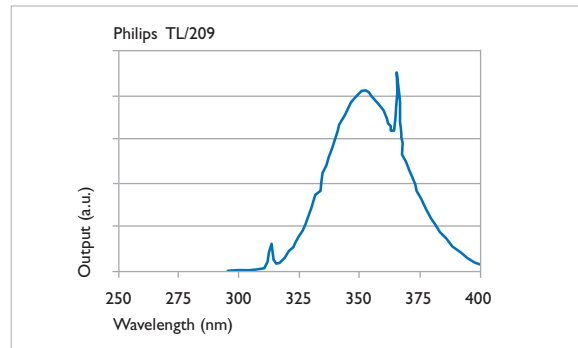
Philips TL 20W/52 lamps

The TL 20W/52 is a low-pressure mercury vapour fluorescent lamp emitting light in the blue part of the visible spectrum. It is used in incubators for the treatment of Hyperbilirubinaemia (neonatal jaundice) in newborn babies.



Philips TL/09 and TL/10 lamps

Philips /09 lamps emit radiation over the whole UVA part of the spectrum (315-400 nm). Philips /10 lamps emit radiation in the UVA1, a limited part of the UVA range. In PUVA-therapy these lamps are used in combination with photosensitizers, (for example psoralen) for the treatment of psoriasis.



Safety measures

As with natural sunlight, UV-therapy increases the risk of skin cancer, can cause erythema (sunburn), conjunctivitis (snow blindness) and cataract of the eye. Chronic blue light exposure can damage the retina.

Patients should always wear appropriate eye-wear. Therapy equipment must be screened off to ensure safe operation by service personnel.* Equipment must be provided with a timer in order to control the dose.

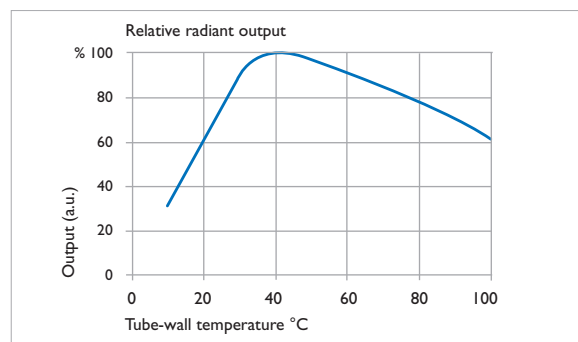
Philips UVB therapy lamps (TL/01 and TL/12) are only supplied to qualified customers. The lamps should only be used for medical purposes under doctor supervision.

Burning-in time

We advise allowing a burning-in time for new /01 lamps of at least one hour to avoid the initial high output value.

Operating conditions

In order to obtain the highest possible output, the equipment should be designed to keep the lamp at the optimal temperature.



*For safe levels, see standard IEC 62471 Photobiological Safety of Lamps and Lamp Systems

Philips UVB - Narrowband products

Lamp type	Product code	Lamp Voltage	Lamp Current	UVB (W) at 5 hours	6NC
Philips PL-S 09W /01/2P	9279 017 00121	60	0.17	1.2	392027
Philips PL-L 36W /01/4P	9279 034 00121	106	0.435	6.2	157461
Philips TL 20W /01	9280 100 00101	57	0.37	3.0	381723
Philips TL 40W/01	9280 113 00101	104	0.43	7.7	158089
Philips TL 100W /01-F71 RDC	9280 349 00129	126	0.97	17.7	312769
Philips TL 100W /01-F72 RDC	9279 785 00129	126	0.97	17.7	131706

Philips UVB - Broadband products

Lamp type	Product code	Lamp Voltage	Lamp Current	UVB (W) at 5 hours	6NC
Philips TL 20W /12	9280 100 01201	57	0.37	2.3	218024
Philips TL 40W /12	9280 113 01201	104	0.43	6.4	218040
Philips TL 100W /12	9280 349 01229	106	0.97	12.7	262675
Philips PLS 9W/12 2P	9279 901 701207	60	0.17	1.0	392035

Philips Hyperbilirubinaemia (neonatal jaundice) products

Lamp type	Product code	Lamp Voltage	Lamp Current	Output Lm at 5 hours	6NC
Philips TL 20W /52	9280 035 05203	57	0.37	340	161190

Philips PUVA products*

Lamp type	Product code	Lamp Voltage	Lamp Current	UVA (W) at 5 hours	6NC
Philips TLD 20W/09	9279 460 00929	49	0.49	5.1	359752
Philips TL 100W/209	9280 043 20950	126	0.97	33.4	235739
Philips TL 100W/209-R	9280 057 20950	126	0.97	31	235747

*The listed products are labeled as tanning lamps. To be used under medical supervision if combined with photosensitizers like psoralen.

Philips UVA-I products*

Lamp type	Product code	Lamp Voltage	Lamp Current	UVA (W) at 5 hours	6NC
Philips TL 100W /10 R	9280 069 01029	126	0.97	27.8	246942

*The listed products are labeled as tanning lamps. To be used under medical supervision if combined with photosensitizers like psoralen.

Dimensions in mm

Type	A max	B min	C max	D max	DI max
Philips PL-S 09W /01/2P	128.8	144.5	167.0	28.0	13.0

Type	A max	B min	C max	D max	DI max
Philips PL-L 36W /01/4P	384.2	410.0	416.6	39.0	18.0

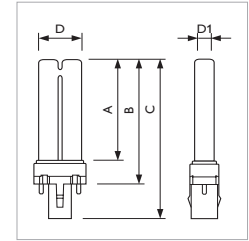
Type	A max	B min	B max	C max	D max
Philips TL 20W /01	589.8	594.5	596.9	604	40.5
Philips TL 40W/01	1199.4	1204.1	1206.5	1213.6	40.5
Philips TL 100W /01-F71 RDC	1763.8	1768.5	1770.9	1778	40.5
Philips TL 100W /01-F72 RDC	1755.7	1760.4	1762.8	1774.1	40.5
Philips TL 120W/01	2000	2004.7	2007.1	2014.2	40.5
Philips TL 20W /12	589.8	594.5	596.9	604	40.5
Philips TL 40W /12	1199.4	1204.1	1206.5	1213.6	40.5
Philips TL 100W /12	1763.8	1768.5	1770.9	1778	40.5
Philips TL 20W /52	589.8	594.5	596.9	604	40.5
Philips TLD 20W/09	437.4	442.1	444.5	451.6	28
Philips TL 100W/209	1763.8	1768.5	1770.9	1778	40.5
Philips TL 100W/209-R	1763.8	1768.5	1770.9	1778	40.5
Philips TL 100W /10 R	1763.8	1768.5	1778	1778	40.5

Note: For TL/09 and TL/10, Philips also has other lamp wattages commercially available and can be provided on request for manufacturers or for trial purposes.

Philips PL-S 9W



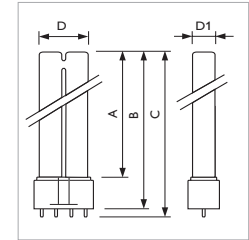
Philips PL-S 9W /12 G23



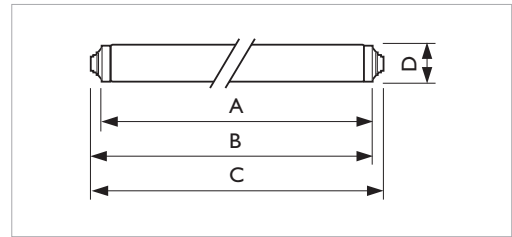
Philips PL-L 36W



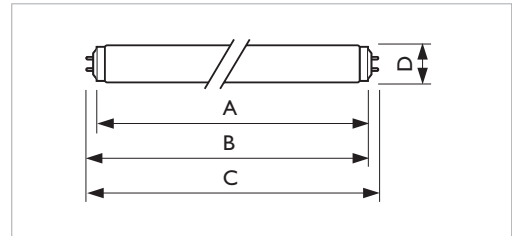
Philips PL-L 36W



Dimensions with RDC cap



Dimensions with bi-pin cap



Philips TL 100W with RDC cap (R17d)



Philips TL 20W/40W/100W/1200W with bi-pin cap



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