



Effective light therapy

Philips lamps for therapeutic purposes



International Federation of
Psoriasis Associations

PHILIPS

sense and simplicity



Proven technology for phototherapy

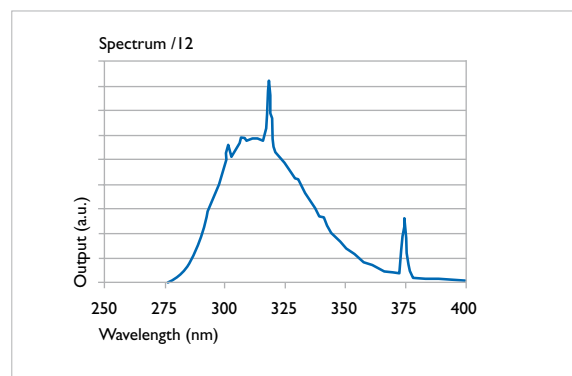
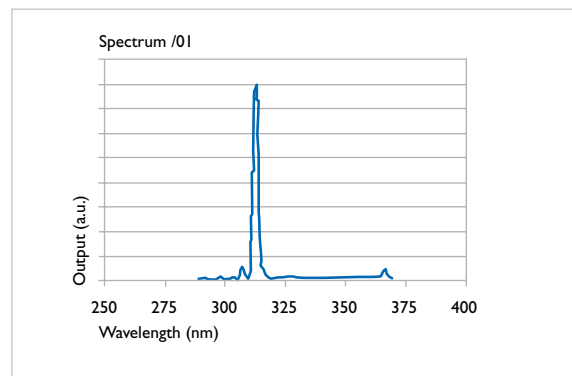
As the world's largest manufacturer of lighting products we have been setting the standard in pioneering technology for more than 100 years. Using our knowledge and experience we offer the very best in lighting innovation, reliability and quality. Our comprehensive range of lighting products has been 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).

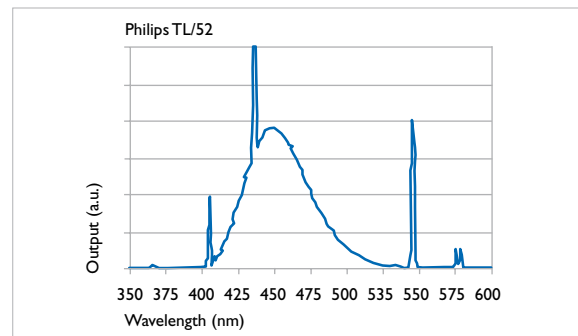
Within this limitation the /01 spectrum has been proven to be more effective than the /12 for the treatment of psoriasis. A study* also showed a reduced long term risk of narrow band (Philips /01) compared to broadband. Compared to PUVA therapy, UVB therapy is effective without the use of photosensitizers 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).

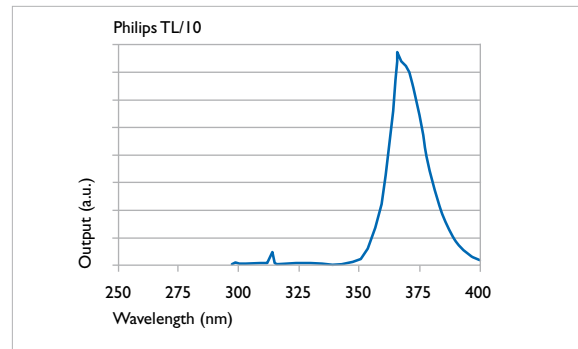
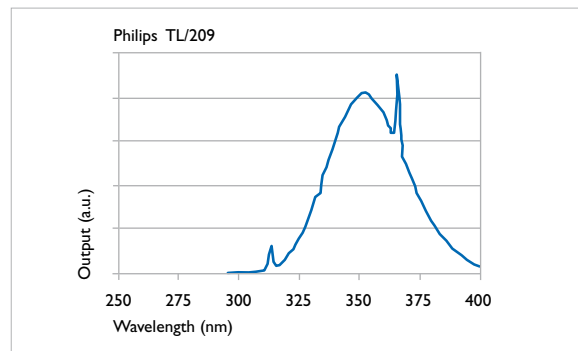
Philips TL 20W/52 lamps

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.

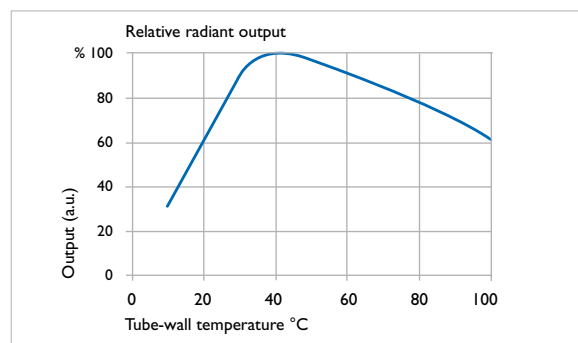
Philips UVB therapy lamps (TL/01 and TL/12) are only supplied to qualified customers. The lamps should only be used for medical purposes under doctor supervision.

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 Lamps Systems

Philips UVB - Narrowband products

Lamp type	Product code	Lamp Voltage	Lamp Current	UVB (W) at 5 hours	EOC
Philips PL-S 09W /01/2P	9279 017 00121	60	0.17	1.2	86891680
Philips PL-L 36W /01/4P	9279 034 00121	106	0.435	6.2	86889340
Philips TL 20W /01	9280 100 00101	57	0.37	3.0	63974540
Philips TL 40W/01	9280 113 00101	104	0.43	7.7	26474940
Philips TL 100W /01-F71 RDC	9280 349 00129	126	0.97	17.7	61425425
Philips TL 100W /01-F72 RDC	9279 785 00129	126	0.97	17.7	26327840
Philips TL 120W/01	9280 352 00101	123	1.11	19.3	26483140

Philips UVB - Broadband products

Lamp type	Product code	Lamp Voltage	Lamp Current	UVB (W) at 5 hours	EOC
Philips TL 20W /12	9280 100 01201	57	0.37	2.3	62883140
Philips TL 40W /12	9280 113 01201	104	0.43	6.4	62886240
Philips TL 100W /12	9280 349 01229	106	0.97	12.7	61428525

Philips Hyperbilirubinaemia (neonatal jaundice) products

Lamp type	Product code	Lamp Voltage	Lamp Current	Output Lm at 5 hours	EOC
Philips TL 20W /52	9280 035 05203	57	0.37	340	64302540

Philips PUVA products*

Lamp type	Product code	Lamp Voltage	Lamp Current	UVA (W) at 5 hours	EOC
Philips TLD 20W/09	9279 460 00929	49	0.49	5.1	61205240
Philips TL 100W/209	9280 043 20950	126	0.97	33.4	62833640
Philips TL 100W/209-R	9280 057 20950	126	0.97	31	62838140

*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	EOC
Philips TL 100W /10 R	9280 069 01029	126	0.97	27.8	6128640

*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

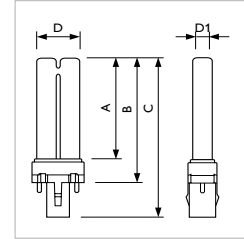
Type	A max	B min	B max	C max	D max
Philips TL 20W /01	589.8	594.5	596.9	604	40.5
Philips TL 40W/01	1199.4	1204.1	1206.5	1213.6	40.5
Philips TL 100W /01-F71 RDC	1763.8	1768.5	1770.9	1778	40.5
Philips TL 100W /01-F72 RDC	1755.7	1760.4	1762.8	1774.1	40.5
Philips TL 120W/01	2000	2004.7	2007.1	2014.2	40.5
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



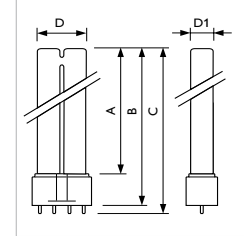
Philips PL-S 9W /12 G23



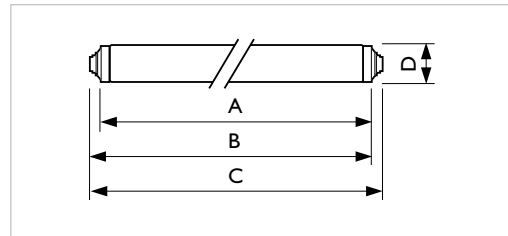
Philips PL-L 36W



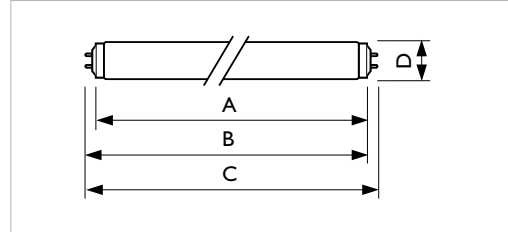
Philips PL-L 36W



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



Business Line UV Health & Wellness

Roosendaal
Zwaanhoefstraat 2
4702 LC Roosendaal
The Netherlands
Tel +31 165 57 7169
Fax +31 165 57 7907

www.philips.com/phototherapy

Benelux

Boschdijk 525, bldg.VB-6
5600 PD Eindhoven
The Netherlands
Tel +31 6 130 44 765
Fax +31 40 27 82273

France

Rue Pierre Rigaud
Val de Marne
94856 France
Tel +33 1 49 87 64 57
Fax +33 1 49 87 64 619

Germany

Lübeckertordamm 5
D-20099 Hamburg
Tel +49 40 2899 2788
Fax +49 40 2899 2205

Hungary

Fehervari ut 84/A
H-1119 Budapest
Tel +36 1 3821 856
Fax +36 1 3821 851

Italy

Via G. Casati 23
20052 Monza (MI)
Tel +39 039 203 6085
Fax +39 039 203 6127

Poland

UL. Kossaka 150
64-920 Pila
Tel +48 67 351 32 62
Fax +48 67 351 31 04

Russia

Usacheva str 35 A
119048 Moscow
Tel +7 495 937 9350
Fax +7 495 937 9359

Spain / Portugal

Philips Iberica S.A.
Division Comercial Alumbrado
Calle Martinez Villergas 49, planta 8
28027 Madrid
Tel + 34 91 566 97 64
Fax + 34 91 566 92 42

Sweden/Norway

Knarrarnasgatan 7
Kista
S-16485 Stockholm
Tel +46 8 5985 2000
Fax +46 8 5985 2797

Turkey

Yukarı Dudullu Organize Sanayi Bolgesi
2. Cadde No:22
34776 Umraniye
Istanbul
Tel +90 216 522 1844
Fax +90 216 522 1835

United Kingdom

Philips Centre
Guilford Business Park
Guilford, Surrey GU2 8XH
Tel +44 1483 293 156
Fax +44 1883 334 790

Ukraine

Philips Ukraine LLC
4, Mykoly Grinchenka Sr.
Horizon Park Business Center,
Building N2, floor 4
03038 Kyiv Ukraine
Tel +380 44 490 98 68
Fax +380 44 490 98 56

Argentina

Vedia 3892
(C1430DAL) Buenos Aires
Tel +54 11 4546 7651
Fax +54 11 4546 7672

Australia

Philips House, 65 Epping Road
North Ryde NSW, 2113
Tel +61 2 9947 0333
Fax +61 2 9947 0325

Brazil

Philips Lighting Latin America
Rua Verbo Divino 1400, 6 Andar
Chacara Santo Antonio
04719-002 Sao Paulo
Tel +55 11 2125 0746
Fax +55 11 2125 0580

U.S.A.

200 Franklin Square Drive
Somerset N.J. 08875 6800
Tel +1 848 459 8629
Fax +1 847 885 7376

Canada

281 Hillmount Road
Markham
Ontario L6C 2S3
Tel +1 905 438 0817
Fax +1 416 915 6183

Asia Pacific

Level 6, Three Pacific Place,
1 Queens Road East,
Wanchai,
Hong Kong
Tel +86 21 5910 7475
Fax +86 21 5915 4024

Shanghai, China

1805 Hu Yi Road, MaLu Town, Jiading District
Shanghai, China 201801
Tel: +86 21 5910 7047
Fax: +86 21 5915 4024

India

Philips Electronics India Ltd
9th Floor, Ashoka Estate
24, Barakhamba Road
New Delhi 110 001
India
Tel +91 11 43529800
Fax +91 11 41515221

Japan-domestic

Philips Electronics Japan, Ltd.
13-37, Kohnan 2-chome
Minato-ku
Tokyo 108-8507
Tel +81 3 3740 4429
Fax +81 3 3740 5163

Korea

Philips House
P.O. Box 3680
260-199, Itaewon-Dong
Yongsan-Ku
Seoul 140-200
Tel +82 2 709 1345
Fax +82 2 709 1329

Mexico

Norte 45 # 669 Col. Industrial Vallejo
Distrito Federal
México City
Tel +52 55 52699137
Fax +52 55 52699101

Taiwan

14F, No.3-1, Yuan Qu Street
Nan Gang District,
Taipei 115, Taiwan, R.O.C.
Tel +886 2 3789 2279
Fax +886 2 3789 2525



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