



MASTER TL5 High Efficiency

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product Features

- 40% thinner than TL-D lamps
- High lamp efficacies up to 104 lm/W
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well-suited for dimming
- Maximum light output reached at approximately 35 °C in free-burning position if an electronic gear without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Product Benefits

- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Offers higher efficiencies and energy savings compared with TL-D lamps
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Application

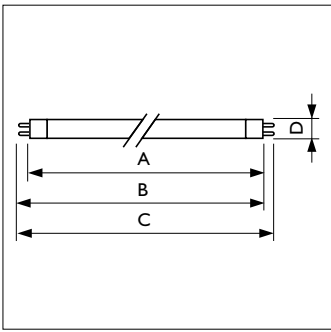
- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry (low ceiling), wherever high-quality, energy-effective lighting is required

Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable lightsource (40% less than a TL-D standard lamp, 26% less than TL-D 800). Products having the “Green product” logo contain the lowest mercury content in the industry and are 100% lead free. Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less compared with TL-D lamps)
- This product range is RoHS compliant
- This product range is covered by WEEE

Recommended gear page 8.202

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MASTER TL5 High Efficiency

Type	AMax	BMin	BMax	CMax	DMax
MASTER TL5 HE 14W	549.0	553.7	556.1	563.2	17
MASTER TL5 HE 21W	849.0	853.7	856.1	863.2	17
MASTER TL5 HE 28W	1149.0	1153.7	1156.1	1163.2	17
MASTER TL5 HE 35W	1449.0	1453.7	1456.1	1463.2	17

Technical data

Type	Lamp Wattage EL (W)	Lamp Voltage EL 25°C (V)	Lamp Current EL 25°C (A)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 10% failures Preheat EL (hrs)	Life to 50% failures Preheat EL (hrs)
MASTER TL5 HE 14W	14	83	0.170	14	A	Yes	19000	24000
MASTER TL5 HE 21W	21	125	0.170	21	A	Yes	19000	24000
MASTER TL5 HE 28W	28	166	0.170	28	A	Yes	19000	24000
MASTER TL5 HE 35W	35	208	0.170	35	A	Yes	19000	24000

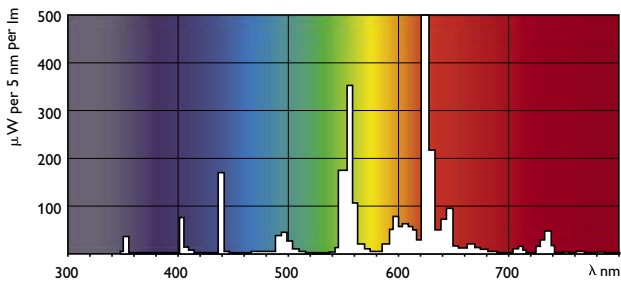
Light data

Type	Luminous Flux EL Lamp at 25°C (lm)	Luminous Efficacy Lamp EL at Top, 35°C (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER TL5 HE 14W/827	1200	96	Incandescent White	2700	85	469	419
MASTER TL5 HE 14W/830	1200	96	Warm White	3000	85	438	403
MASTER TL5 HE 14W/835	1200	96	White	3500	85	409	397
MASTER TL5 HE 14W/840	1200	96	Cool White	4000	85	381	379
MASTER TL5 HE 14W/850	1100	96	Daylight	5000	85	343	353
MASTER TL5 HE 14W/865	1100	89	Cool Daylight	6500	85	316	336
MASTER TL5 HE 21W/827	1900	100	Incandescent White	2700	85	469	419
MASTER TL5 HE 21W/830	1900	100	Warm White	3000	85	438	403
MASTER TL5 HE 21W/835	1900	100	White	3500	85	409	397
MASTER TL5 HE 21W/840	1900	100	Cool White	4000	85	381	379
MASTER TL5 HE 21W/865	1750	93	Cool Daylight	6500	85	316	336
MASTER TL5 HE 28W/827	2600	104	Incandescent White	2700	85	469	419
MASTER TL5 HE 28W/830	2600	104	Warm White	3000	85	438	403
MASTER TL5 HE 28W/835	2600	104	White	3500	85	409	397
MASTER TL5 HE 28W/840	2600	104	Cool White	4000	85	381	379
MASTER TL5 HE 28W/850	2400	96	Daylight	5000	85	343	353
MASTER TL5 HE 28W/865	2400	96	Cool Daylight	6500	85	316	336
MASTER TL5 HE 35W/827	3300	104	Incandescent White	2700	85	469	419
MASTER TL5 HE 35W/830	3300	104	Warm White	3000	85	438	403
MASTER TL5 HE 35W/835	3300	104	White	3500	85	409	397
MASTER TL5 HE 35W/840	3300	104	Cool White	4000	85	381	379
MASTER TL5 HE 35W/865	3100	97	Cool Daylight	6500	85	316	336

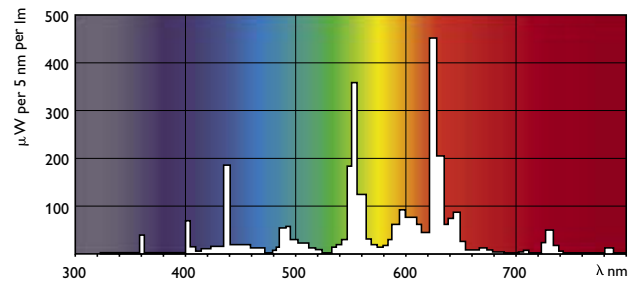
Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
MASTER TL5 HE 14W/827 SLV	FDH-14/27/1B-L/P-G5-16/550	8711500641021	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500867421	641021 55
MASTER TL5 HE 14W/827 UNP	FDH-14/27/1B-L/P-G5-16/550	8711500610621	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500634269	610621 55
MASTER TL5 HE 14W/830 SLV	FDH-14/30/1B-L/P-G5-16/550	8711500639387	54 gr	20	58 cm x 10.6 cm x 8.3 cm	8711500264763	639387 05
MASTER TL5 HE 14W/830 UNP	FDH-14/30/1B-L/P-G5-16/550	8711500639387	54 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500867469	639387 55
MASTER TL5 HE 14W/830 SLV	FDH-14/30/1B-L/P-G5-16/550	8711500610638	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500634283	610638 55
MASTER TL5 HE 14W/835 SLV	FDH-14/35/1B-L/P-G5-16/550	8711500707659	53 gr	40	58 cm x 16 cm x 10.2 cm	8711500867476	707659 55
MASTER TL5 HE 14W/835 UNP	FDH-14/35/1B-L/P-G5-16/550	8711500610645	54 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500634306	610645 55
MASTER TL5 HE 14W/840 SLV	FDH-14/40/1B-L/P-G5-16/550	8711500639400	54 gr	20	58 cm x 10.6 cm x 8.3 cm	8711500264787	639400 05
MASTER TL5 HE 14W/840 UNP	FDH-14/40/1B-L/P-G5-16/550	8711500639400	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500867483	639400 55
MASTER TL5 HE 14W/840 UNP	FDH-14/40/1B-L/P-G5-16/550	8711500610669	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500634320	610669 55
MASTER TL5 HE 14W/850 SLV	FDH-14/50/1B-L/P-G5-16/550	8711500261274	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500261281	261274 55
MASTER TL5 HE 14W/865 SLV	FDH-14/65/1B-L/P-G5-16/550	8711500710093	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500867490	710093 55
MASTER TL5 HE 14W/865 UNP	FDH-14/65/1B-L/P-G5-16/550	8711500610683	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500634368	610683 55
MASTER TL5 HE 21W/827 SLV	FDH-21/27/1B-L/P-G5-16/850	8711500643209	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500867537	643209 55
MASTER TL5 HE 21W/827 UNP	FDH-21/27/1B-L/P-G5-16/850	8711500610690	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500634382	610690 55
MASTER TL5 HE 21W/830 SLV	FDH-21/30/1B-L/P-G5-16/850	8711500639424	80.5 gr	20	88.3 cm x 10.6 cm x 8.3 cm	8711500264541	639424 05
MASTER TL5 HE 21W/830 UNP	FDH-21/30/1B-L/P-G5-16/850	8711500639424	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500867544	639424 55
MASTER TL5 HE 21W/830 UNP	FDH-21/30/1B-L/P-G5-16/850	8711500610706	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500634405	610706 55
MASTER TL5 HE 21W/835 UNP	FDH-21/35/1B-L/P-G5-16/850	8711500610713	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500634429	610713 55
MASTER TL5 HE 21W/840 SLV	FDH-21/40/1B-L/P-G5-16/850	8711500639448	80.5 gr	20	88.3 cm x 10.6 cm x 8.3 cm	8711500264558	639448 05
MASTER TL5 HE 21W/840 UNP	FDH-21/40/1B-L/P-G5-16/850	8711500639448	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500867551	639448 55
MASTER TL5 HE 21W/840 UNP	FDH-21/40/1B-L/P-G5-16/850	8711500610720	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500634443	610720 55
MASTER TL5 HE 21W/865 SLV	FDH-21/65/1B-L/P-G5-16/850	8711500710116	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500867568	710116 55
MASTER TL5 HE 21W/865 UNP	FDH-21/65/1B-L/P-G5-16/850	8711500610775	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	8711500634481	610775 55
MASTER TL5 HE 28W/827 SLV	FDH-28/27/1B-L/P-G5-16/1150	8711500643223	96.6 gr	40	119 cm x 16.4 cm x 10.2 cm	8711500867575	643223 55
MASTER TL5 HE 28W/827 UNP	FDH-28/27/1B-L/P-G5-16/1150	8711500610782	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500634504	610782 55
MASTER TL5 HE 28W/830 SLV	FDH-28/30/1B-L/P-G5-16/1150	8711500639462	104.5 gr	20	118.3 cm x 10.6 cm x 8.3 cm	8711500264190	639462 05
MASTER TL5 HE 28W/830 UNP	FDH-28/30/1B-L/P-G5-16/1150	8711500639462	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500867582	639462 55
MASTER TL5 HE 28W/830 UNP	FDH-28/30/1B-L/P-G5-16/1150	8711500610812	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500634528	610812 55
MASTER TL5 HE 28W/835 SLV	FDH-28/35/1B-L/P-G5-16/1150	8711500710048	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500867599	710048 55
MASTER TL5 HE 28W/835 UNP	FDH-28/35/1B-L/P-G5-16/1150	8711500610874	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500634542	610874 55
MASTER TL5 HE 28W/840 SLV	FDH-28/40/1B-L/P-G5-16/1150	8711500639486	104.5 gr	20	118.3 cm x 10.6 cm x 8.3 cm	8711500264206	639486 05
MASTER TL5 HE 28W/840 UNP	FDH-28/40/1B-L/P-G5-16/1150	8711500639486	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500867605	639486 55
MASTER TL5 HE 28W/840 UNP	FDH-28/40/1B-L/P-G5-16/1150	8711500610904	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500634566	610904 55
MASTER TL5 HE 28W/850 SLV	FDH-28/50/1B-L/P-G5-16/1150	8711500260208	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500260215	260208 55
MASTER TL5 HE 28W/865 SLV	FDH-28/65/1B-L/P-G5-16/1150	8711500710154	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500867612	710154 55
MASTER TL5 HE 28W/865 UNP	FDH-28/65/1B-L/P-G5-16/1150	8711500610928	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500634603	610928 55
MASTER TL5 HE 35W/827 SLV	FDH-35/27/1B-L/P-G5-16/1450	8711500643247	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500867629	643247 55
MASTER TL5 HE 35W/827 UNP	FDH-35/27/1B-L/P-G5-16/1450	8711500610935	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500634627	610935 55
MASTER TL5 HE 35W/830 SLV	FDH-35/30/1B-L/P-G5-16/1450	8711500639509	128.7 gr	20	148.5 cm x 10.6 cm x 8.3 cm	8711500264527	639509 05
MASTER TL5 HE 35W/830 UNP	FDH-35/30/1B-L/P-G5-16/1450	8711500639509	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500867667	639509 55
MASTER TL5 HE 35W/830 UNP	FDH-35/30/1B-L/P-G5-16/1450	8711500611031	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500634641	611031 55
MASTER TL5 HE 35W/835 SLV	FDH-35/35/1B-L/P-G5-16/1450	8711500710062	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500867674	710062 55
MASTER TL5 HE 35W/835 UNP	FDH-35/35/1B-L/P-G5-16/1450	8711500611048	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500634665	611048 55
MASTER TL5 HE 35W/840 SLV	FDH-35/40/1B-L/P-G5-16/1450	8711500639523	128.7 gr	20	148.5 cm x 10.6 cm x 8.3 cm	8711500264534	639523 05
MASTER TL5 HE 35W/840 UNP	FDH-35/40/1B-L/P-G5-16/1450	8711500639523	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500867681	639523 55
MASTER TL5 HE 35W/840 UNP	FDH-35/40/1B-L/P-G5-16/1450	8711500611055	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500634689	611055 55
MASTER TL5 HE 35W/865 SLV	FDH-35/65/1B-L/P-G5-16/1450	8711500710185	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500867698	710185 55
MASTER TL5 HE 35W/865 UNP	FDH-35/65/1B-L/P-G5-16/1450	8711500611079	128.7 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500634726	611079 55

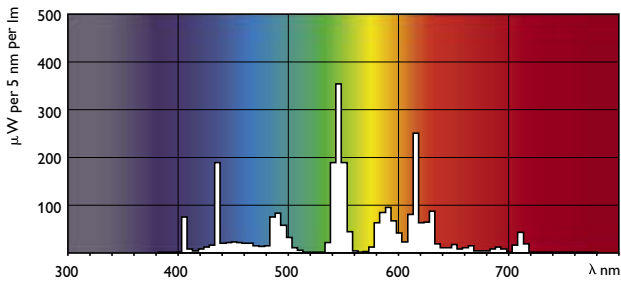
Spectral power distribution



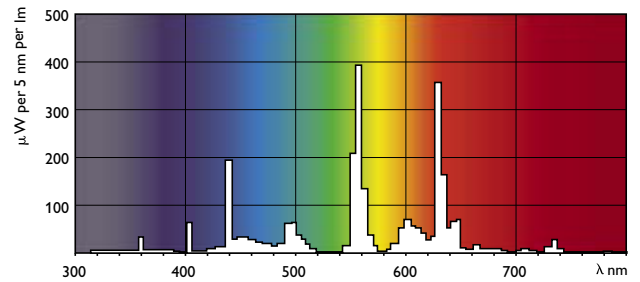
TL5 /827



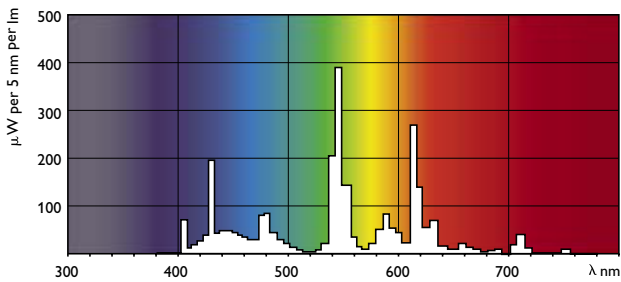
TL5 /830



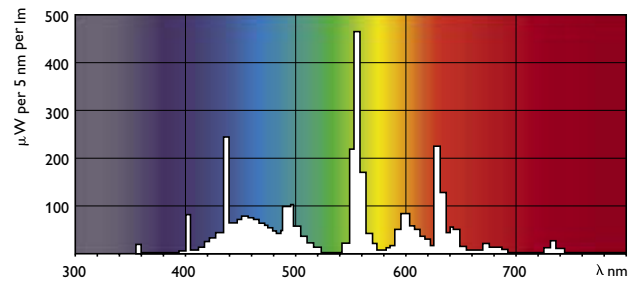
TL5 /835



TL5 /840

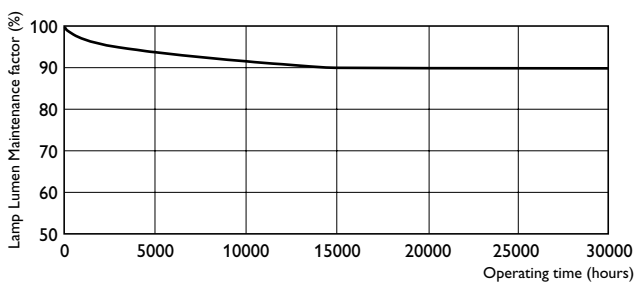


TL5 /850



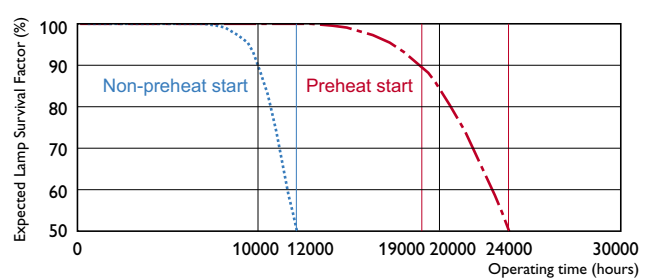
TL5 /865

Lumen maintenance diagram

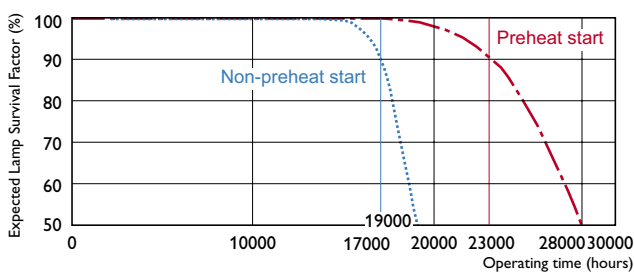


TL5

Life expectancy diagram

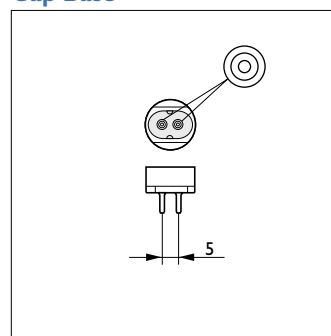


Life Expectancy 3h cycle



Life Expectancy 12h cycle

Cap Base



G5



MASTER TL5 High Efficiency Secura

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope and protective coating around the lamp to prevent contamination resulting from breakage

Product Features

- All the advantages of TL5 HE lamps
- Protective coating around the lamp (may extend by maximally 0.5 mm at lamp ends)
- Single blue ring around one end for identification
- Direct retrofit for all TL5 HE lamps

Product Benefits

- All the benefits of TL5 HE lamps
- Safety: special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage
- Superior coating material: high temperature-resistance (up to 200 °C) and no degradation under influence of temperature or UV
- Easy identification in audit situations by the blue ring at one end
- Compliant with relevant standards in the food industry, such as HACCP and ISO22000

Application

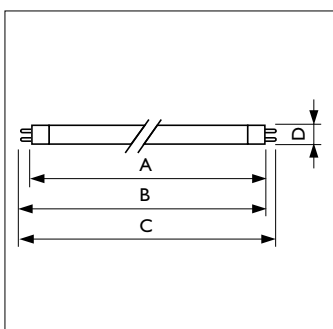
- For use where contamination resulting from lamp breakage must be prevented, e.g. in food industry, suppliers to the food industry, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls

Environment

- Best environmental choice because of highest energy efficiency, lowest mercury content and lead-free
- This product is RoHS compliant
- This product is covered by WEEE

Recommended gear page 8.202

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MASTER TL5 High Efficiency Secura

Type	AMax	BMin	BMax	CMax	DMax
MASTER TL5 HE Secura 14W	549.0	553.7	556.1	563.2	17
MASTER TL5 HE Secura 21W	849.0	853.7	856.1	863.2	17
MASTER TL5 HE Secura 28W	1149.0	1153.7	1156.1	1163.2	17
MASTER TL5 HE Secura 35W	1449.0	1453.7	1456.1	1463.2	17

Technical data

Type	Lamp Wattage EL (W)	Lamp Voltage EL 25°C (V)	Lamp Current EL 25°C (A)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 10% failures Preheat EL (hrs)	Life to 50% failures Preheat EL (hrs)
MASTER TL5 HE Secura 14W	14.0	83	0.170	14	A	Yes	19000	24000
MASTER TL5 HE Secura 21W	20.8	125	0.170	21	A	Yes	19000	24000
MASTER TL5 HE Secura 28W	28.0	166	0.170	28	A	Yes	19000	24000
MASTER TL5 HE Secura 35W	35.0	208	0.170	35	A	Yes	19000	24000

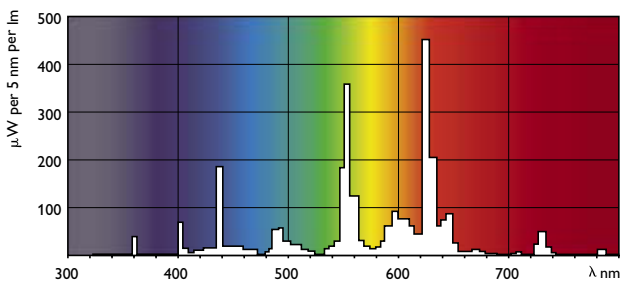
Light data

Type	Luminous Flux EL Lamp at 25°C (lm)	Luminous Efficacy Lamp EL at Top, 35°C (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER TL5 HE Secura 14W/830	1200	95	Warm White	3000	85	438	403
MASTER TL5 HE Secura 14W/840	1200	95	Cool White	4000	85	381	379
MASTER TL5 HE Secura 21W/830	1850	100	Warm White	3000	85	438	403
MASTER TL5 HE Secura 21W/840	1850	100	Cool White	4000	85	381	379
MASTER TL5 HE Secura 28W/830	2550	103	Warm White	3000	85	438	403
MASTER TL5 HE Secura 28W/840	2550	103	Cool White	4000	85	381	379
MASTER TL5 HE Secura 35W/830	3250	103	Warm White	3000	85	438	403
MASTER TL5 HE Secura 35W/840	3250	103	Cool White	4000	85	381	379

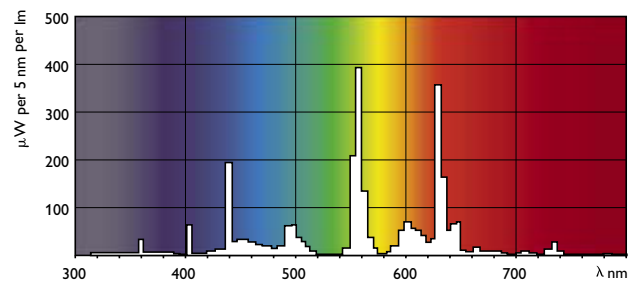
Ordering and packing data

Type	ILCOS	EAN code I piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
MASTER TL5 HE Secura 14W/830 UNP	FDH-14/30/1B-L/P-G5-16/550	8711500954749	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500954756	954749 55
MASTER TL5 HE Secura 14W/840 UNP	FDH-14/40/1B-L/P-G5-16/550	8711500954763	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500954770	954763 55
MASTER TL5 HE Secura 21W/830 UNP	FDH-21/30/1B-L/P-G5-16/850	8711500952080	78 gr	40	88.3 cm x 16 cm x 10.2 cm	8711500952097	952080 55
MASTER TL5 HE Secura 21W/840 UNP	FDH-21/40/1B-L/P-G5-16/850	8711500952103	78 gr	40	88.3 cm x 16 cm x 10.2 cm	8711500952110	952103 55
MASTER TL5 HE Secura 28W/830 UNP	FDH-28/30/1B-L/P-G5-16/1150	8711500952134	105 gr	40	119.8 cm x 16 cm x 10.2 cm	8711500952141	952134 55
MASTER TL5 HE Secura 28W/840 UNP	FDH-28/40/1B-L/P-G5-16/1150	8711500952158	105 gr	40	119.8 cm x 16 cm x 10.2 cm	8711500952165	952158 55
MASTER TL5 HE Secura 35W/830 UNP	FDH-35/30/1B-L/P-G5-16/1450	8711500952172	132 gr	40	149.8 cm x 16 cm x 10.2 cm	8711500952189	952172 55
MASTER TL5 HE Secura 35W/840 UNP	FDH-35/40/1B-L/P-G5-16/1450	8711500952196	132 gr	40	149.8 cm x 16 cm x 10.2 cm	8711500952202	952196 55

Spectral power distribution

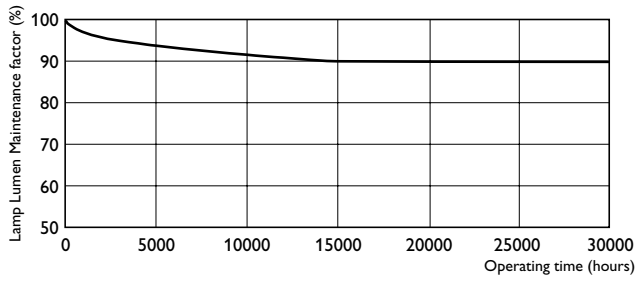


TL5 /830



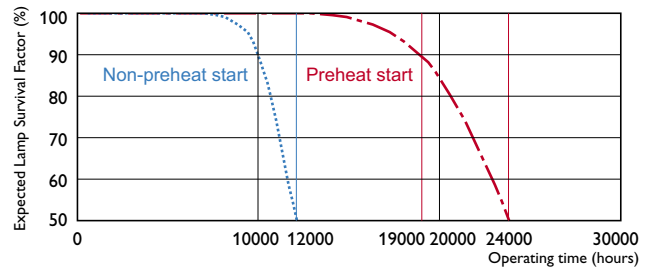
TL5 /840

Lumen maintenance diagram

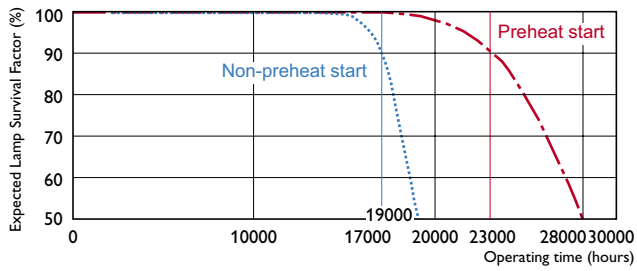


TL5

Life expectancy diagram

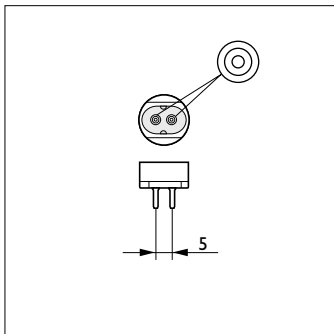


Life Expectancy 3h cycle



Life Expectancy 12h cycle

Cap Base



G5



MASTER TL5 High Output

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product Features

- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturisation
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well-suited for dimming
- Maximum light output reached at approximately 35 °C in free-burning position if an electronic gear without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Product Benefits

- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Optimised for installations which need high luminous flux
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Application

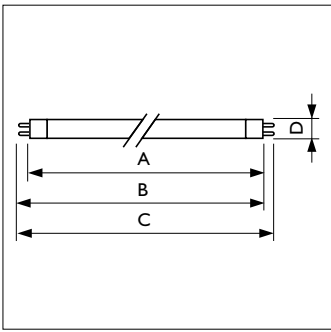
- The combination of a compact lamp and high lumen package of the MASTER TL5 HO offers exciting opportunities for architectural lighting and customized solutions
- Offers economic solutions with high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable lightsource (40% less than a TL-D standard lamp, 26% less than TL-D 800). Products having the “Green product” logo contain the lowest mercury content in the industry and are 100% lead free. Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less compared with TL-D lamps)
- This product range is RoHS compliant
- This product range is covered by WEEE

Recommended gear page 8.202

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MASTER TL5 High Output

Type	AMax	BMin	BMax	CMax	DMax
MASTER TL5 HO 24W	549.0	553.7	556.1	563.2	17
MASTER TL5 HO 39W	849.0	853.7	856.1	863.2	17
MASTER TL5 HO 49W/80W	1449.0	1453.7	1456.1	1463.2	17
MASTER TL5 HO 54W	1149.0	1153.7	1156.1	1163.2	17

Technical data

Type	Lamp Wattage EL (W)	Lamp Voltage EL 25°C (V)	Lamp Current EL 25°C (A)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 10% failures Preheat EL (hrs)	Life to 50% failures Preheat EL (hrs)
MASTER TL5 HO 24W	24	80	0.300	24	B	Yes	19000	24000
MASTER TL5 HO 39W	39	119	0.330	39	B	Yes	19000	24000
MASTER TL5 HO 49W	49	195	0.255	49	B	Yes	19000	24000
MASTER TL5 HO 54W	54	118	0.460	54	B	Yes	19000	24000
MASTER TL5 HO 80W	80	151	0.540	80	B	Yes	19000	24000

Light data

Type	Luminous Flux EL Lamp at 25°C (lm)	Luminous Efficacy Lamp EL at Top, 35°C (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER TL5 HO 24W/827	1750	89	Incandescent White	2700	85	469	419
MASTER TL5 HO 24W/830	1750	89	Warm White	3000	85	438	403
MASTER TL5 HO 24W/840	1750	89	Cool White	4000	85	381	379
MASTER TL5 HO 24W/850	1650	84	Daylight	5000	85	343	353
MASTER TL5 HO 24W/865	1650	84	Cool Daylight	6500	85	316	336
MASTER TL5 HO 39W/827	3100	92	Incandescent White	2700	85	469	419
MASTER TL5 HO 39W/830	3100	92	Warm White	3000	85	438	403
MASTER TL5 HO 39W/835	3100	92	White	3500	85	409	397
MASTER TL5 HO 39W/840	3100	92	Cool White	4000	85	381	379
MASTER TL5 HO 39W/865	2900	87	Cool Daylight	6500	85	316	336
MASTER TL5 HO 49W/827	4300	99	Incandescent White	2700	85	469	419
MASTER TL5 HO 49W/830	4300	99	Warm White	3000	85	438	403
MASTER TL5 HO 49W/835	4300	99	White	3500	85	438	403
MASTER TL5 HO 49W/840	4300	99	Cool White	4000	85	381	379
MASTER TL5 HO 49W/865	4100	94	Cool Daylight	6500	85	316	336
MASTER TL5 HO 54W/827	4450	93	Incandescent White	2700	85	469	419
MASTER TL5 HO 54W/830	4450	93	Warm White	3000	85	438	403
MASTER TL5 HO 54W/840	4450	93	Cool White	4000	85	381	379
MASTER TL5 HO 54W/850	4250	89	Daylight	5000	85	343	353
MASTER TL5 HO 54W/865	4250	89	Cool Daylight	6500	85	316	336
MASTER TL5 HO 80W/827	6150	88	Incandescent White	3000	85	438	403
MASTER TL5 HO 80W/830	6150	88	Warm White	3000	85	438	403

MASTER TL5 High Output

Light data

Type	Luminous Flux EL Lamp at 25°C (lm)	Luminous Efficacy Lamp EL at Top, 35°C (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER TL5 HO 80W/835	6150	88	White	3500	85	409	379
MASTER TL5 HO 80W/840	6150	88	Cool White	4000	85	381	379
MASTER TL5 HO 80W/865	5850	83	Cool Daylight	6500	85	316	336

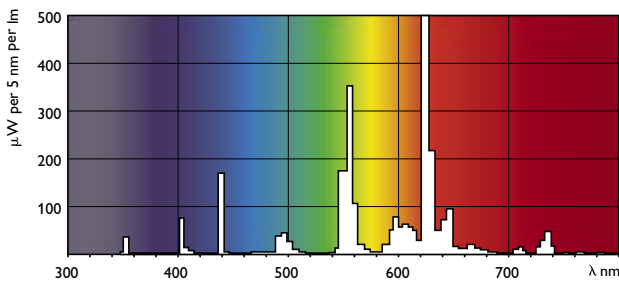
Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 871 1500
MASTER TL5 HO 24W/827 SLV	FDH-24/27/1B-L/P-G5-16/550	871 1500643087	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500867742	643087 55
MASTER TL5 HO 24W/827 UNP	FDH-24/27/1B-L/P-G5-16/550	871 1500636959	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500636966	636959 55
MASTER TL5 HO 24W/830 SLV	FDH-24/30/1B-L/P-G5-16/550	871 1500639585	54 gr	20	58 cm x 10.6 cm x 8.3 cm	871 1500264794	639585 05
MASTER TL5 HO 24W/830 SLV	FDH-24/30/1B-L/P-G5-16/550	871 1500639585	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500867759	639585 55
MASTER TL5 HO 24W/830 UNP	FDH-24/30/1B-L/P-G5-16/550	871 1500636980	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500636997	636980 55
MASTER TL5 HO 24W/840 SLV	FDH-24/40/1B-L/P-G5-16/550	871 1500639608	54 gr	20	58 cm x 10.6 cm x 8.3 cm	871 1500264800	639608 05
MASTER TL5 HO 24W/840 SLV	FDH-24/40/1B-L/P-G5-16/550	871 1500639608	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500867841	639608 55
MASTER TL5 HO 24W/840 UNP	FDH-24/40/1B-L/P-G5-16/550	871 1500637048	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500637055	637048 55
MASTER TL5 HO 24W/850 SLV	FDH-24/50/1B-L/P-G5-16/550	871 1500266750	54 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500266767	266750 55
MASTER TL5 HO 24W/865 SLV	FDH-24/65/1B-L/P-G5-16/550	871 1500643933	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500867858	643933 55
MASTER TL5 HO 24W/865 UNP	FDH-24/65/1B-L/P-G5-16/550	871 1500637109	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	871 1500637116	637109 55
MASTER TL5 HO 39W/827 SLV	FDH-39/27/1B-L/P-G5-16/850	871 1500643100	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500260000	643100 55
MASTER TL5 HO 39W/827 UNP	FDH-39/27/1B-L/P-G5-16/850	871 1500637130	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500637147	637130 55
MASTER TL5 HO 39W/830 SLV	FDH-39/30/1B-L/P-G5-16/850	871 1500639622	80.5 gr	20	88.3 cm x 10.6 cm x 8.3 cm	871 1500264565	639622 05
MASTER TL5 HO 39W/830 SLV	FDH-39/30/1B-L/P-G5-16/850	871 1500639622	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500260031	639622 55
MASTER TL5 HO 39W/830 UNP	FDH-39/30/1B-L/P-G5-16/850	871 1500637161	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500637178	637161 55
MASTER TL5 HO 39W/835 SLV	FDH-39/35/1B-L/P-G5-16/850	871 1500710512	78 gr	40	88.3 cm x 16 cm x 10.2 cm	871 1500868381	710512 55
MASTER TL5 HO 39W/835 UNP	FDH-39/35/1B-L/P-G5-16/850	871 1500637192	78 gr	40	88.3 cm x 16 cm x 10.2 cm	871 1500637208	637192 55
MASTER TL5 HO 39W/840 SLV	FDH-39/40/1B-L/P-G5-16/850	871 1500639646	80.5 gr	20	88.3 cm x 10.6 cm x 8.3 cm	871 1500264572	639646 05
MASTER TL5 HO 39W/840 SLV	FDH-39/40/1B-L/P-G5-16/850	871 1500639646	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500868398	639646 55
MASTER TL5 HO 39W/840 UNP	FDH-39/40/1B-L/P-G5-16/850	871 1500637222	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500637239	637222 55
MASTER TL5 HO 39W/865 SLV	FDH-39/65/1B-L/P-G5-16/850	871 1500643872	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500868503	643872 55
MASTER TL5 HO 39W/865 UNP	FDH-39/65/1B-L/P-G5-16/850	871 1500637284	80.5 gr	40	87.4 cm x 16.4 cm x 10.2 cm	871 1500637291	637284 55
MASTER TL5 HO 49W/827 SLV	FDH-49/27/1B-L/P-G5-16/1450	871 1500643124	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500867704	643124 55
MASTER TL5 HO 49W/827 UNP	FDH-49/27/1B-L/P-G5-16/1450	871 1500637499	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500637505	637499 55
MASTER TL5 HO 49W/830 SLV	FDH-49/30/1B-L/P-G5-16/1450	871 1500639547	128.7 gr	20	148.5 cm x 10.6 cm x 8.3 cm	871 1500264503	639547 05
MASTER TL5 HO 49W/830 SLV	FDH-49/30/1B-L/P-G5-16/1450	871 1500639547	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500867711	639547 55
MASTER TL5 HO 49W/830 UNP	FDH-49/30/1B-L/P-G5-16/1450	871 1500637529	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500637536	637529 55
MASTER TL5 HO 49W/835 UNP	FDH-49/35/1B-L/P-G5-16/1450	871 1500891105	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500891112	891105 55
MASTER TL5 HO 49W/840 SLV	FDH-49/40/1B-L/P-G5-16/1450	871 1500639561	128.7 gr	20	148.5 cm x 10.6 cm x 8.3 cm	871 1500264510	639561 05
MASTER TL5 HO 49W/840 SLV	FDH-49/40/1B-L/P-G5-16/1450	871 1500639561	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500867728	639561 55
MASTER TL5 HO 49W/840 UNP	FDH-49/40/1B-L/P-G5-16/1450	871 1500637581	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500637598	637581 55
MASTER TL5 HO 49W/865 SLV	FDH-49/65/1B-L/P-G5-16/1450	871 1500643896	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500867735	643896 55
MASTER TL5 HO 49W/865 UNP	FDH-49/65/1B-L/P-G5-16/1450	871 1500637642	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	871 1500637659	637642 55
MASTER TL5 HO 54W/827 SLV	FDH-54/27/1B-L/P-G5-16/1150	871 1500643148	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	871 1500868510	643148 55
MASTER TL5 HO 54W/827 UNP	FDH-54/27/1B-L/P-G5-16/1150	871 1500637314	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	871 1500637321	637314 55
MASTER TL5 HO 54W/830 SLV	FDH-54/30/1B-L/P-G5-16/1150	871 1500643162	104.5 gr	20	118.3 cm x 10.6 cm x 8.3 cm	871 1500264213	643162 05
MASTER TL5 HO 54W/830 SLV	FDH-54/30/1B-L/P-G5-16/1150	871 1500643162	104.5 gr	40	119 cm x 16.4 cm x 10.2 cm	871 1500868824	643162 55
MASTER TL5 HO 54W/830 UNP	FDH-54/30/1B-L/P-G5-16/1150	871 1500637345	104.5 gr	40	119 cm x 16.4 cm x 10.2 cm	871 1500637352	637345 55
MASTER TL5 HO 54W/840 SLV	FDH-54/40/1B-L/P-G5-16/1150	871 1500643186	104.5 gr	20	118.3 cm x 10.6 cm x 8.3 cm	871 1500264220	643186 05
MASTER TL5 HO 54W/840 SLV	FDH-54/40/1B-L/P-G5-16/1150	871 1500643186	104.5 gr	40	119 cm x 16.4 cm x 10.2 cm	871 1500868831	643186 55

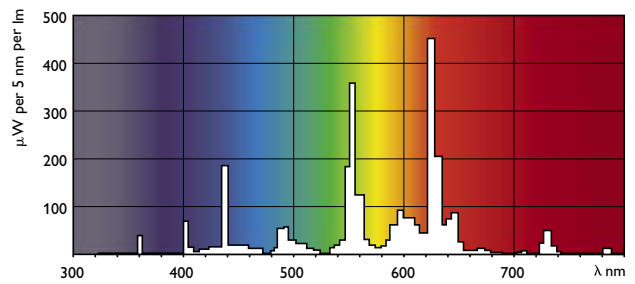
Ordering and packing data

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MASTER TL5 HO 54W/840 UNP	FDH-54/40/1B-L/P-G5-16/1150	8711500637406	104.5 gr	40	119 cm x 16.4 cm x 10.2 cm	8711500637413	637406 55
MASTER TL5 HO 54W/850 UNP	FDH-54/50/1B-L/P-G5-16/1150	8711500637437	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500637444	637437 55
MASTER TL5 HO 54W/865 SLV	FDH-54/65/1B-L/P-G5-16/1150	8711500643919	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500868848	643919 55
MASTER TL5 HO 54W/865 UNP	FDH-54/65/1B-L/P-G5-16/1150	8711500637468	104.5 gr	40	117.4 cm x 16.4 cm x 10.2 cm	8711500637475	637468 55
MASTER TL5 HO 80W/827 UNP	FDH-80/27/1B-L/P-G5-16/1450	8711500263292	132 gr	40	148.5 cm x 16 cm x 10.2 cm	8711500263308	263292 55
MASTER TL5 HO 80W/830 SLV	FDH-80/30/1B-L/P-G5-16/1450	8711500710406	128.7 gr	20	148.5 cm x 10.6 cm x 8.3 cm	8711500894038	710406 05
MASTER TL5 HO 80W/830 SLV	FDH-80/30/1B-L/P-G5-16/1450	8711500710406	132 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500868855	710406 55
MASTER TL5 HO 80W/830 UNP	FDH-80/30/1B-L/P-G5-16/1450	8711500644367	132 gr	40	148.5 cm x 16 cm x 10.2 cm	8711500644374	644367 55
MASTER TL5 HO 80W/835 UNP	FDH-80/30/1B-L/P-G5-16/1450	8711500892737	132 gr	40	148.5 cm x 16 cm x 10.2 cm	8711500892744	892737 55
MASTER TL5 HO 80W/840 SLV	FDH-80/40/1B-L/P-G5-16/1450	8711500710451	128.7 gr	20	148.5 cm x 10.6 cm x 8.3 cm	8711500894045	710451 05
MASTER TL5 HO 80W/840 SLV	FDH-80/40/1B-L/P-G5-16/1450	8711500710451	132 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500868862	710451 55
MASTER TL5 HO 80W/840 UNP	FDH-80/40/1B-L/P-G5-16/1450	8711500644381	132 gr	40	148.5 cm x 16 cm x 10.2 cm	8711500644398	644381 55
MASTER TL5 HO 80W/865 SLV	FDH-80/65/1B-L/P-G5-16/1450	8711500710475	132 gr	40	147.4 cm x 16.4 cm x 10.2 cm	8711500868879	710475 55
MASTER TL5 HO 80W/865 UNP	FDH-80/65/1B-L/P-G5-16/1450	8711500644404	132 gr	40	148.5 cm x 16 cm x 10.2 cm	8711500644411	644404 55

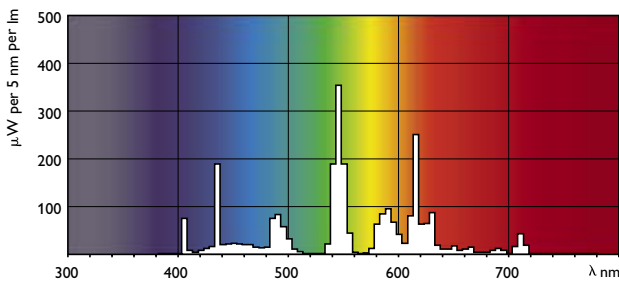
Spectral power distribution



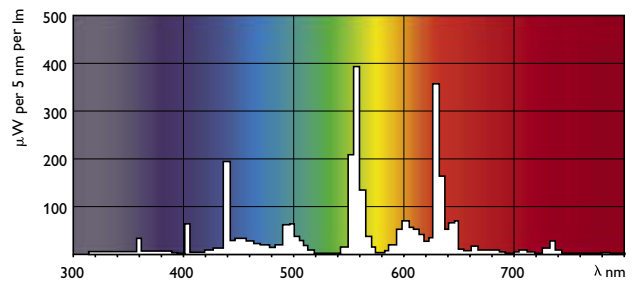
TL5 /827



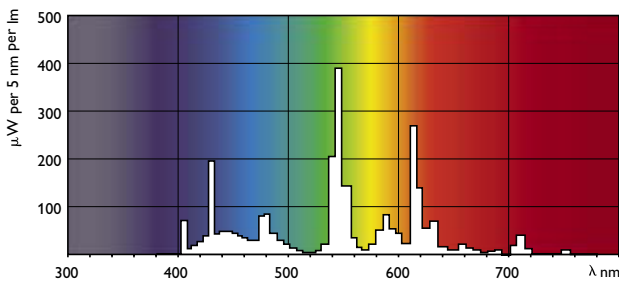
TL5 /830



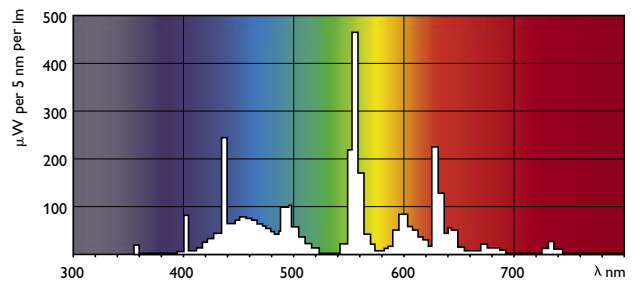
TL5 /835



TL5 /840

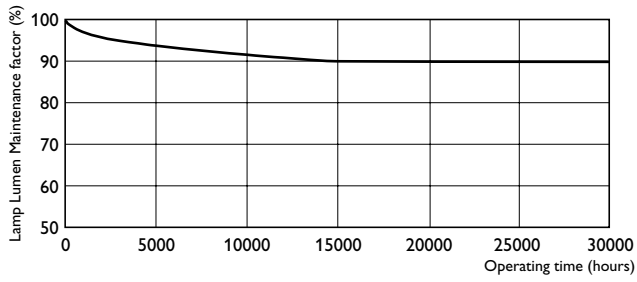


TL5 /850



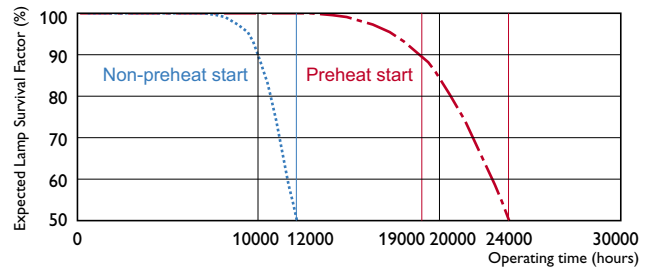
TL5 /865

Lumen maintenance diagram

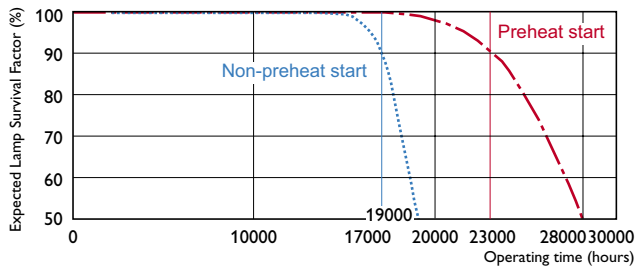


TL5

Life expectancy diagram

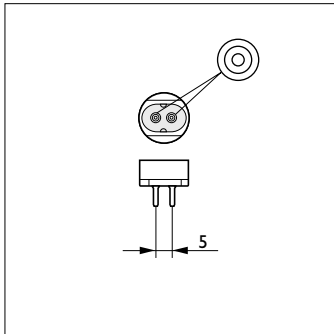


Life Expectancy 3h cycle

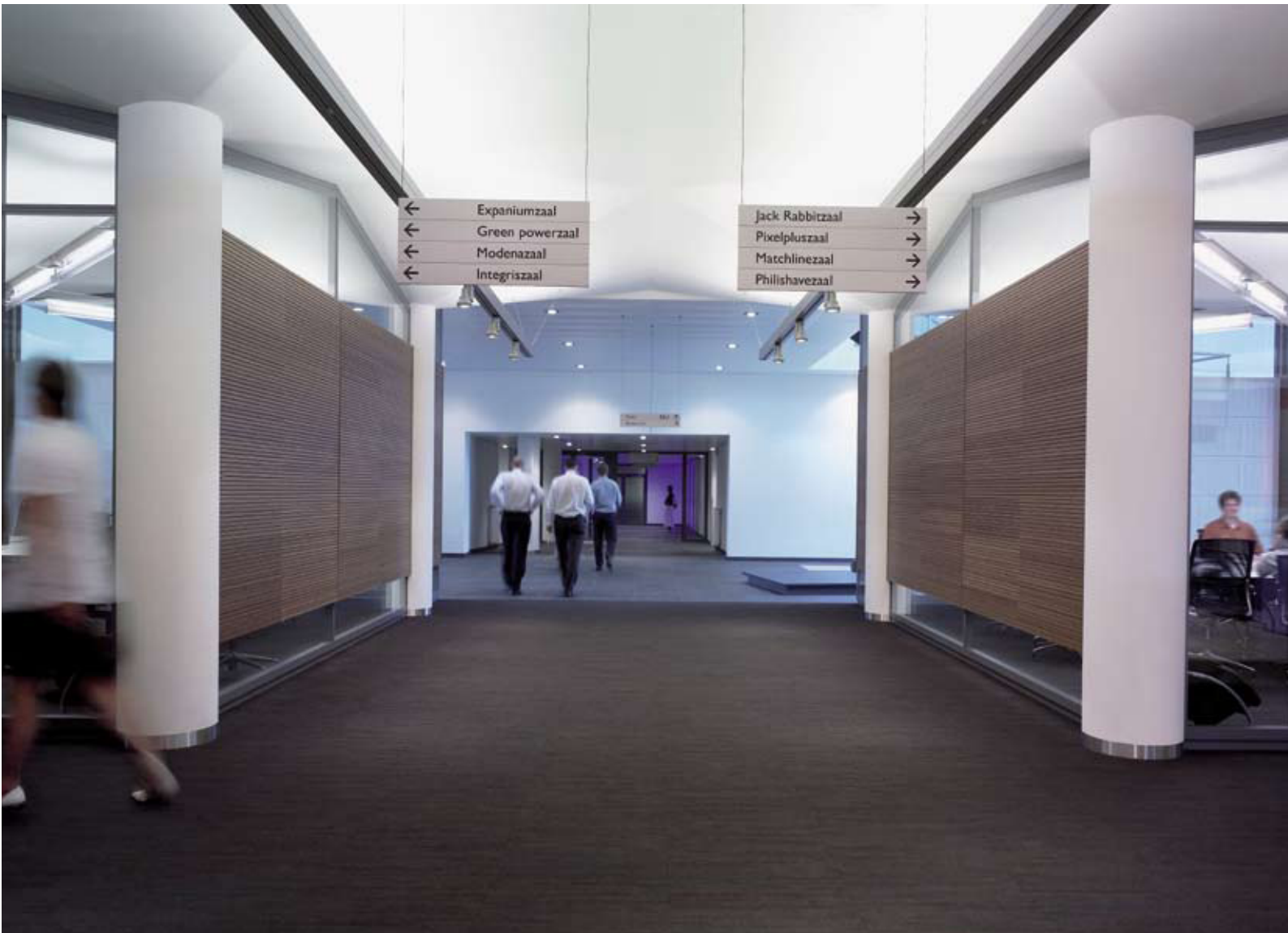


Life Expectancy 12h cycle

Cap Base



G5





MASTER TL5 High Output Secura

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope and protective coating around the lamp to prevent contamination resulting from breakage

Product Features

- All the advantages of TL5 HO lamps
- Protective coating around the lamp (may extend by maximally 0.5 mm at lamp ends)
- Single blue ring around one end for identification
- Direct retrofit for all TL5 HO lamps

Product Benefits

- All the benefits of TL5 HO lamps
- Safety: special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage.
- Superior coating material: high temperature-resistance (up to 200°C) and no degradation under influence of temperature or UV
- Easy identification in audit situations by the blue ring at one end
- Compliant with relevant standards in the food industry, such as HACCP and ISO22000.

Application

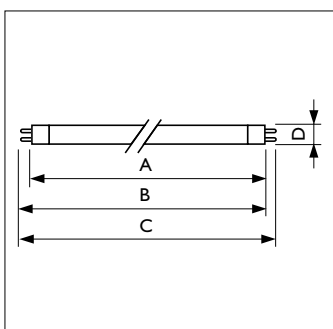
- For use where contamination resulting from lamp breakage must be prevented, e.g. in food industry, suppliers to the food industry, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls

Environment

- Best environmental choice because of highest energy efficiency, lowest mercury content and lead-free
- This product is RoHS compliant
- This product is covered by WEEE

Recommended gear page 8.202

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MASTER TL5 High Output Secura

Type	AMax	BMin	BMax	CMax	DMax
MASTER TL5 HO Secura 24W	549.0	553.7	556.1	563.2	17
MASTER TL5 HO Secura 39W	849.0	853.7	856.1	863.2	17
MASTER TL5 HO Secura 49W/80W	1449.0	1453.7	1456.1	1463.2	17
MASTER TL5 HO Secura 54W	1149.0	1153.7	1156.1	1163.2	17

Technical data

Type	Lamp Wattage EL (W)	Lamp Voltage EL 25°C (V)	Lamp Current EL 25°C (A)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 10% failures Preheat EL (hrs)	Life to 50% failures Preheat EL (hrs)
MASTER TL5 HO Secura 24W	22.5	80	0.300	24	B	Yes	19000	24000
MASTER TL5 HO Secura 39W	39	119	0.330	39	B	Yes	19000	24000
MASTER TL5 HO Secura 49W	49.3	195	0.255	49	B	Yes	19000	24000
MASTER TL5 HO Secura 54W	54	118	0.460	54	B	Yes	19000	24000
MASTER TL5 HO Secura 80W	80	151	0.540	80	B	Yes	19000	24000

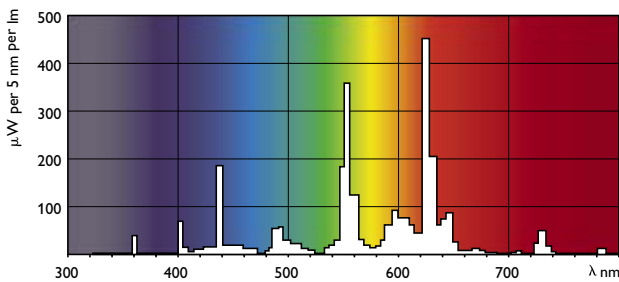
Light data

Type	Luminous Flux EL Lamp at 25°C (lm)	Luminous Efficacy Lamp EL at Top, 35°C (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER TL5 HO Secura 24W/830	1750	80	Warm White	3000	85	438	403
MASTER TL5 HO Secura 24W/840	1750	80	Cool White	4000	85	381	379
MASTER TL5 HO Secura 39W/830	3050	90	Warm White	3000	85	438	403
MASTER TL5 HO Secura 39W/840	3050	90	Cool White	4000	85	381	379
MASTER TL5 HO Secura 49W/830	4250	99	Warm White	3000	85	438	403
MASTER TL5 HO Secura 49W/840	4250	99	Cool White	4000	85	381	379
MASTER TL5 HO Secura 54W/830	4400	92	Warm White	3000	85	438	403
MASTER TL5 HO Secura 54W/840	4400	92	Cool White	4000	85	381	379
MASTER TL5 HO Secura 80W/830	6100	87	Warm White	3000	85	438	403
MASTER TL5 HO Secura 80W/840	6100	87	Cool White	4000	85	381	379

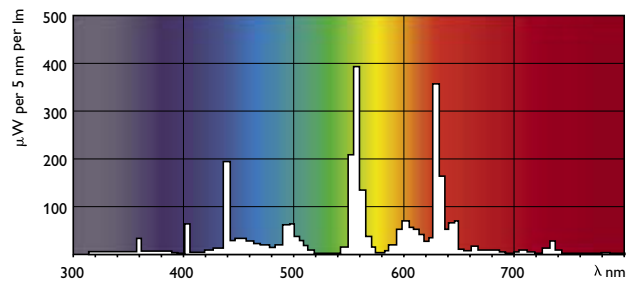
Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
MASTER TL5 HO Secura 24W/830 UNP	FDH-24/30/1B-L/P-G5-16/550	8711500954787	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500954794	954787 55
MASTER TL5 HO Secura 24W/840 UNP	FDH-24/40/1B-L/P-G5-16/550	8711500954800	53 gr	40	57.4 cm x 16.4 cm x 10.2 cm	8711500954817	954800 55
MASTER TL5 HO Secura 39W/830 UNP	FDH-39/30/1B-L/P-G5-16/850	8711500952219	78 gr	40	88.3 cm x 16 cm x 10.2 cm	8711500952226	952219 55
MASTER TL5 HO Secura 39W/840 UNP	FDH-39/40/1B-L/P-G5-16/850	8711500952233	78 gr	40	88.3 cm x 16 cm x 10.2 cm	8711500952240	952233 55
MASTER TL5 HO Secura 49W/830 UNP	FDH-49/30/1B-L/P-G5-16/1450	8711500952257	132 gr	40	149.8 cm x 16 cm x 10.2 cm	8711500952264	952257 55
MASTER TL5 HO Secura 49W/840 UNP	FDH-49/40/1B-L/P-G5-16/1450	8711500952271	132 gr	40	149.8 cm x 16 cm x 10.2 cm	8711500952288	952271 55
MASTER TL5 HO Secura 54W/830 UNP	FDH-54/30/1B-L/P-G5-16/1150	8711500952295	105 gr	40	119.8 cm x 16 cm x 10.2 cm	8711500952301	952295 55
MASTER TL5 HO Secura 54W/840 UNP	FDH-54/40/1B-L/P-G5-16/1150	8711500952318	105 gr	40	119.8 cm x 16 cm x 10.2 cm	8711500952325	952318 55
MASTER TL5 HO Secura 80W/830 UNP	FDH-80/30/1B-L/P-G5-16/1450	8711500952332	132 gr	40	149.8 cm x 16 cm x 10.2 cm	8711500952349	952332 55
MASTER TL5 HO Secura 80W/840 UNP	FDH-80/40/1B-L/P-G5-16/1450	8711500952356	132 gr	40	149.8 cm x 16 cm x 10.2 cm	8711500952363	952356 55

Spectral power distribution

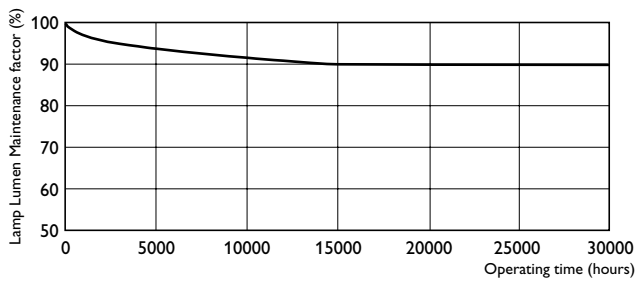


TL5 /830



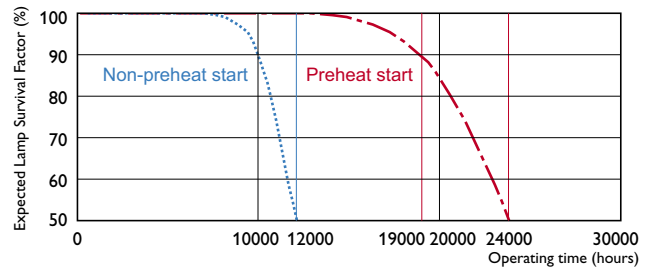
TL5 /840

Lumen maintenance diagram

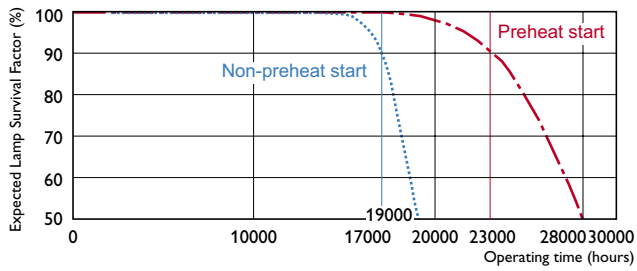


TL5

Life expectancy diagram

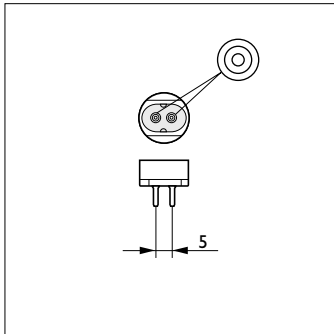


Life Expectancy 3h cycle



Life Expectancy 12h cycle

Cap Base



G5



MASTER TL5 High Output Xtra

Product Description

- Low-pressure high-output mercury discharge lamps with a tubular 16 mm envelope

Product Features

- Significant reduction of early failures through advanced long life technology
- Extra long lifetime
- Designed for high light output and system miniaturisation (40% thinner than TL-D lamps)
- Maximum light output reached at approximately 35 °C in free-burning position
- Low mercury dose

Product Benefits

- Longer lifetime and fewer early failures mean lower maintenance costs and facilitate change from spot to group replacement
- Less waste and disposal cost at end-of-life
- Allows system miniaturisation with maximum luminaire design freedom

Applications

- Where maintenance costs are high, e.g. high ceilings or other hard-to-reach locations
- Department stores, supermarkets, warehouses, production halls and public areas like car parks and railway stations

System

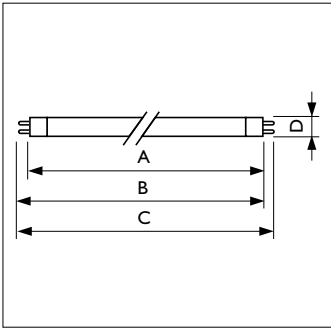
- Longest lifetime is achieved with Philips HF Xtreme gear

Environment

- Best environmental choice because of highest energy efficiency for fluorescent lighting and long reliable life. This leads to lower CO₂ emissions than any other comparable light source (40% less than TL-D standard lamp, 26% less than TL-D 800) and less waste. Products with the 'Green product' logo have the industry's lowest mercury content and are 100% lead-free
- This product range is RoHS compliant
- This product range is covered by WEEE

Recommended gear page 8.202

www.philips.com/OEM



MASTER TL5 High Output Xtra

Type	AMax	BMin	BMax	CMax	DMax
MASTER TL5 HO Xtra 49W/80W	1449.0	1453.7	1456.1	1463.2	17
MASTER TL5 HO Xtra 54W	1149.0	1153.7	1156.1	1163.2	17

Technical data

Type	Lamp Wattage EL (W)	Lamp Voltage EL 25°C (V)	Lamp Current EL 25°C (A)	Rated Lamp Wattage	Energy Efficiency Label	Dimmable	Life to 10% failures Preheat EL (hrs)	Life to 50% failures Preheat EL (hrs)
MASTER TL5 HO Xtra 49W	49.0	195	0.255	49	B	Yes	30000	45000
MASTER TL5 HO Xtra 54W	54.0	118	0.460	54	B	Yes	30000	45000
MASTER TL5 HO Xtra 80W	80.0	151	0.540	80	B	Yes	30000	45000

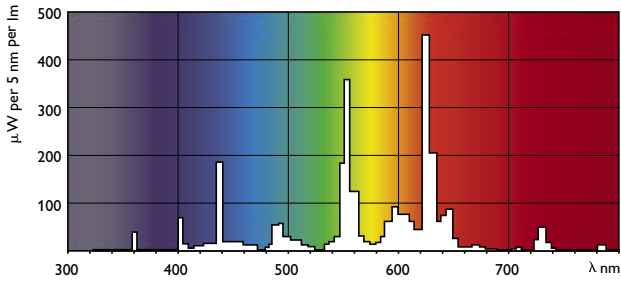
Light data

Type	Luminous Flux EL Lamp at 25°C (lm)	Luminous Efficacy Lamp EL at Top, 35°C (lm/W)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)	Chromaticity Coordinate X	Chromaticity Coordinate Y
MASTER TL5 HO Xtra 49W/830	4300	99	Warm White	3000	85	438	403
MASTER TL5 HO Xtra 49W/840	4300	99	Cool White	4000	85	381	379
MASTER TL5 HO Xtra 54W/830	4450	93	Warm White	3000	85	438	403
MASTER TL5 HO Xtra 54W/840	4450	93	Cool White	4000	85	381	379
MASTER TL5 HO Xtra 80W/830	6150	88	Warm White	3000	85	438	403
MASTER TL5 HO Xtra 80W/840	6150	88	Cool White	4000	85	381	379

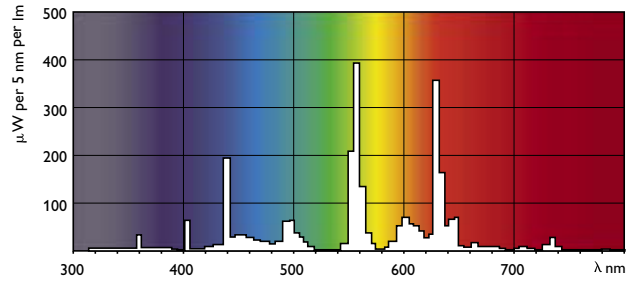
Ordering and packing data

Type	ILCOS	EAN code 1 piece	Weight	Qty bulk packing	Dimensions bulk packing	EAN code bulk packing	EOC 8711500
MASTER TL5 HO Xtra 49W/830 SLV	FDH-49/30/1B-L/P-G5-16/1450	8711500262516	128.7 gr	20	148.5 cm x 10.6 cm x 83 cm	8711500262523	262516 05
MASTER TL5 HO Xtra 49W/840 SLV	FDH-49/40/1B-L/P-G5-16/1450	8711500262530	128.7 gr	20	148.5 cm x 10.6 cm x 83 cm	8711500262608	262530 05
MASTER TL5 HO Xtra 49W/840 UNP	FDH-49/40/1B-L/P-G5-16/1450	8711500268068	128.7 gr	40	146.6 cm x 16.4 cm x 10.2 cm	8711500268075	268068 55
MASTER TL5 HO Xtra 54W/830 SLV	FDH-54/30/1B-L/P-G5-16/1150	8711500263230	104.5 gr	20	118.3 cm x 10.6 cm x 83 cm	8711500263247	263230 05
MASTER TL5 HO Xtra 54W/830 UNP	FDH-54/30/1B-L/P-G5-16/1150	8711500268082	104.5 gr	40	119 cm x 16.4 cm x 10.2 cm	8711500268099	268082 55
MASTER TL5 HO Xtra 54W/840 SLV	FDH-54/40/1B-L/P-G5-16/1150	8711500263520	104.5 gr	20	118.3 cm x 10.6 cm x 83 cm	8711500263544	263520 05
MASTER TL5 HO Xtra 80W/830 SLV	FDH-80/30/1B-L/P-G5-16/1450	8711500262615	128.7 gr	20	148.5 cm x 10.6 cm x 83 cm	8711500262882	262615 05
MASTER TL5 HO Xtra 80W/830 UNP	FDH-80/30/1B-L/P-G5-16/1450	8711500268129	104.5 gr	40	119 cm x 16.4 cm x 10.2 cm	8711500268136	268129 55
MASTER TL5 HO Xtra 80W/840 SLV	FDH-80/40/1B-L/P-G5-16/1450	8711500263032	128.7 gr	20	148.5 cm x 10.6 cm x 83 cm	8711500263049	263032 05

Spectral power distribution

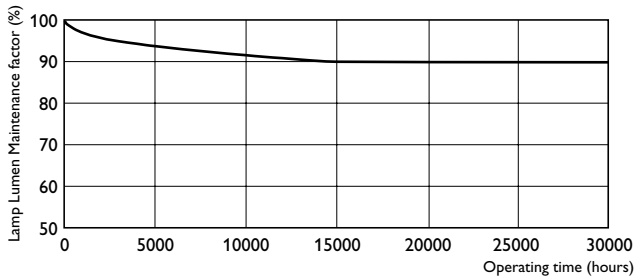


TL5 /830



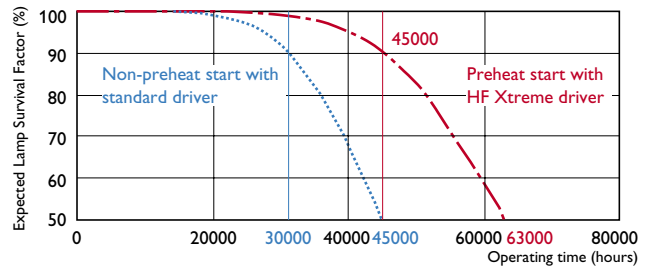
TL5 /840

Lumen maintenance diagram

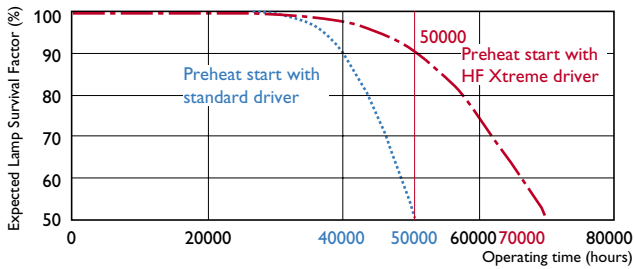


TL5

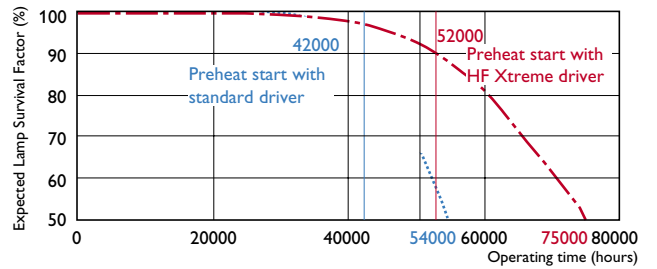
Life expectancy diagram



Life Expectancy 3 h switching cycle

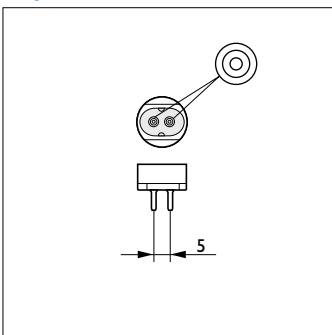


Life Expectancy 12 h switching cycle



Life Expectancy 24 h switching cycle

Cap Base



G5