



Shatterfree fluorescent lighting

MASTER TL5 High Output Secura

This TL5 High Output Secura lamp (tube diameter 16 mm) has a protective coating that keeps glass and lamp components together in the event of accidental breakage. The lamp is easily identifiable by a blue ring at one end. Application areas are all places where glass shatters can disturb operations and can have an impact on product and people safety, e.g. the food and beverage industry. This lamp is compliant with HACCP regulations and supports HACCP certification.

Benefits

- Special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage
- The protective coating has a high temperature-resistance and no degradation to be expected under influence of temperature or UV within specified lamp life (50% failures @ 3 hrs switching cycle)
- Making luminaires compliant with relevant standards in the industry, such as HACCP, ISO 22000 and IEC 61549

Features

- Protective coating around the lamp
- Fully compliant with IEC 61549 - Fragment Retention Lamp Standard
- Superior coating material (Teflon) with high temperature-resistance (up to 200 °C) and no degradation under influence of temperature or UV
- Single blue ring around one end for identification
- Direct retrofit for all TL5 HO lamps

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

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Warnings and Safety

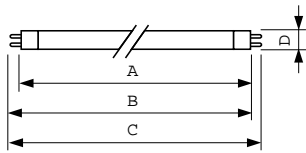
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- In order to ensure the integrity of the coating, it is strongly recommended to replace Secura lamps before or at the moment the specified lamp life (50% failures @ 3 hrs switching cycle) is reached.

Versions



G5, T5

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
MASTER TL5 HO Secura 54W/840 UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
MASTER TL5 HO Secura 80W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
MASTER TL5 HO Secura 49W/840 UNP/40	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm

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Approval and Application

Mercury (Hg) Content (Max)	1.4 mg
Mercury (Hg) Content (Nom)	1.4 mg

Controls and Dimming

Dimmable	Yes
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General Information

Cap-Base	G5
Life To 50% Failures Preheat (Nom)	30000 h
LSF Preheat 16000 h Rated	97 %
LSF Preheat 20000 h Rated	84 %
LSF Preheat 2000 h Rated	99 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	99 %
System Description	High Output

Light Technical

Chromaticity Coordinate X (Nom)	0.38
Chromaticity Coordinate Y (Nom)	0.38
Color Code	840
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Color Rendering Index (Max)	85
Color Rendering Index (Min)	80
Color Rendering Index (Nom)	80
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 2000 h Rated	96 %
LLMF 20000 h Rated	90 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %

Mechanical and Housing

Bulb Shape	T5
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Temperature

Design Temperature (Nom)	35 °C
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927927684018	MASTER TL5 HO Secura 49W/840 UNP/40	50 kWh
927929184018	MASTER TL5 HO Secura 54W/840 UNP/40	54 kWh
927929684018	MASTER TL5 HO Secura 80W/840 UNP/40	80 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927927684018	MASTER TL5 HO Secura 49W/840 UNP/40	0.255 A	49.4 W
927929184018	MASTER TL5 HO Secura 54W/840 UNP/40	0.455 A	53.8 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
927929684018	MASTER TL5 HO Secura 80W/840 UNP/40	0.530 A	80 W

Light Technical

MASTER TL5 High Output Secura

Order Code	Full Product Name	Luminous			
		Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
927927684018	MASTER TL5 HO Secura 49W/840 UNP/40	99 lm/W	89 lm/W	4250 lm	4375 lm
927929184018	MASTER TL5 HO Secura	93 lm/W	83 lm/W	4425 lm	4500 lm

Order Code	Full Product Name	Luminous			
		Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
	54W/840 UNP/40				
927929684018	MASTER TL5 HO Secura 80W/840 UNP/40	88 lm/W	82 lm/W	6550 lm	6550 lm

