



# MASTER TL-D 90 De Luxe

## MASTER TL-D 90 De Luxe 18W/965 SLV/10

This TL-D lamp makes colors appear rich, deep and enhanced in a natural way. Thus very suitable for applications where a high color recognition is needed: first aid and treatment rooms in hospitals, printing rooms, jewelry, dentists, hairdressing, museums and shops

### Product data

General Information	
Cap-Base	G13 [ Medium Bi-Pin Fluorescent]
Life To 10% Failures (Nom)	12000 h
Life to 50% Failures (Nom)	15000 h
Life to 50% Failures Preheat (Nom)	20000 h
LSF 2000 h Rated	99 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
LSF 12000 h Rated	89 %
LSF 16000 h Rated	33 %
LSF 20000 h Rated	2 %
Light Technical	
Color Code	965 [ CCT of 6500K]
Luminous Flux (Nom)	1150 lm
Luminous Flux (Rated) (Nom)	1150 lm
Color Designation	Cool Daylight
Chromaticity Coordinate X (Nom)	309
Chromaticity Coordinate Y (Nom)	323

Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	63.9 lm/W
Color Rendering Index (Nom)	93
LLMF 2000 h Rated	96 %
LLMF 4000 h Rated	95 %
LLMF 6000 h Rated	94 %
LLMF 8000 h Rated	93 %
LLMF 12000 h Rated	92 %
LLMF 16000 h Rated	91 %
LLMF 20000 h Rated	90 %

### Operating and Electrical

Power (Nom)	18.0 W
Lamp Current (Nom)	0.360 A

### Temperature

Design Temperature (Nom)	25 °C
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## Controls and Dimming

Dimmable	Yes
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## Approval and Application

Energy Efficiency Label (EEL)	B
Mercury (Hg) Content (Nom)	2 mg
Energy Consumption kWh/1000 h	22 kWh

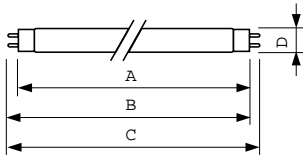
## Product Data

Full product code	871150088846425
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Order product name	MASTER TL-D 90 De Luxe 18W/965 SLV/10
EAN/UPC - Product	8711500888464
Order code	928043596581
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	10
Material Nr. (12NC)	928043596581
Net Weight (Piece)	71.000 g
ILCOS Code	FD-18/65/1A-E-G13

## Warnings and Safety

## Dimensional drawing

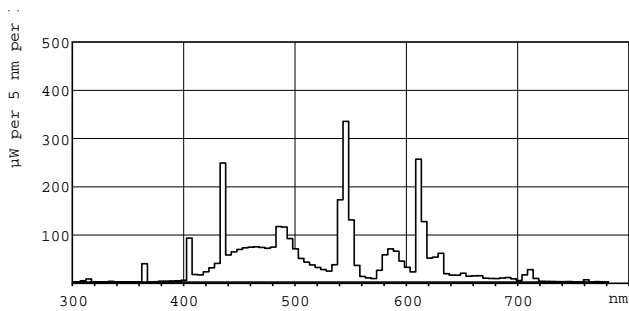


## Product

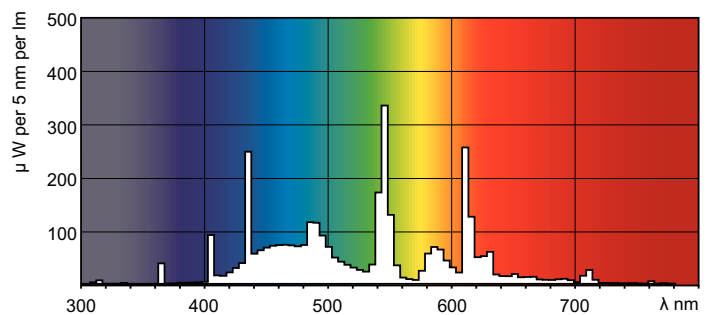
MASTER TL-D 90 De Luxe 18W/965 SLV/10

## TL-D De Luxe 18W/965

## Photometric data



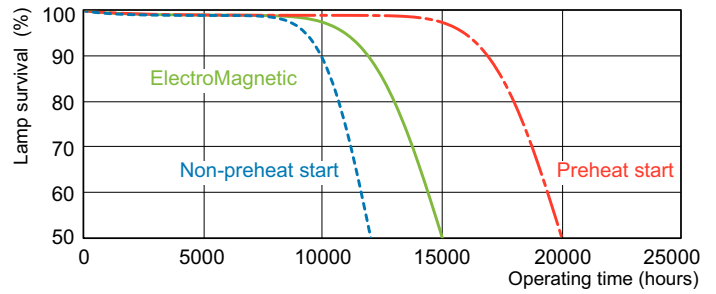
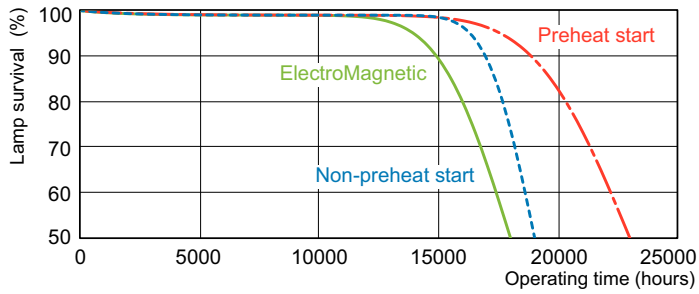
LDPB\_TL-D9Hlm\_965-Spectral power distribution B/W



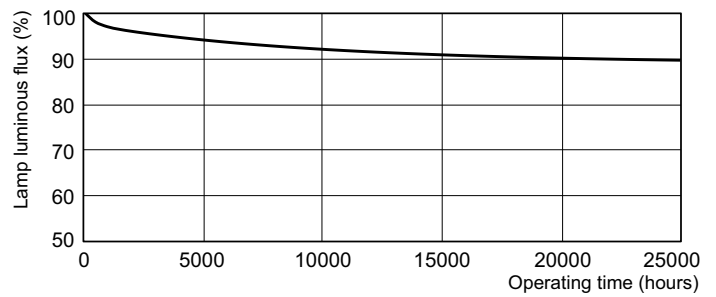
LDPO\_TL-D9Hlm\_965-Spectral power distribution Colour

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## Lifetime



LDLE\_TL-D9HLM\_0002-Life expectancy diagram



LDLM\_TL-D9HLM\_0001-Lumen maintenance diagram

