



UniversalFit (UL Type-A) T8

16T8/LED/48-840/UF18/G 10/1

The Philips UniversalFit (UL Type-A) T8 lamps are designed to operate on both electronic T8 ballasts as well as magnetic T12 ballasts. The UniversalFit is a simple plug and play installation with no need to change the ballast. Compared to the less efficient T12 lamps, the UniversalFit lamps can save up to 50% in energy costs while providing longer life (36,000 hours). These lamps also meet the Philips standards for light quality so that end users will be in comfortable environments while benefiting from lower energy usage.

Product data

General Information		Operating and Electrical	
Cap-Base	G13 [Medium Bi-Pin Fluorescent]	Line Frequency	50-120000 Hz
Nominal lifetime	36,000 hour(s)	Input Frequency	50-120000 Hz
Switching Cycle	50,000	Power Consumption	16 W
Lighting Technology	LED	Lamp Current (Max)	600 mA
Light Technical		Lamp Current (Min)	110 mA
Color Code	840 [CCT of 4000K]	Wattage Equivalent	32 W
Beam Angle (Nom)	240 degree(s)	Starting Time (Nom)	0.5 s
Luminous Flux	1,800 lm	Warm-up time to 60% light	0.5 s
Color Designation	Cool White (CW)	Power Factor (Fraction)	0.9
Luminous Efficacy (rated) (Nom)	112.00 lm/W	Voltage (Nom)	40-330 V
Correlated Color Temperature (Nom)	4000 K	UL Type	UL Type A
Color Consistency	<6	Temperature	
Color rendering index (CRI)	80	Ambient temperature range	-20 °C to 45 °C
LLMF At End Of Nominal Lifetime (Nom)	70 %	T-Case Maximum (Nom)	60 °C

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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Glass
Product Length	1,200 mm
Bulb Shape	T8

Approval and Application

Energy Saving Product	Yes
Approval Marks	RoHS compliance UL certificate
Energy Consumption kWh/1000 h	- kWh
EU RoHS compliant	Yes

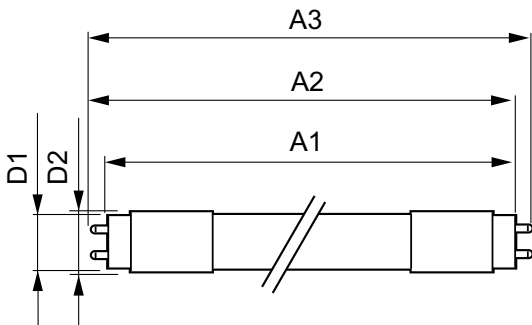
Application Conditions

can it be used in closed luminaires	Yes
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Product Data

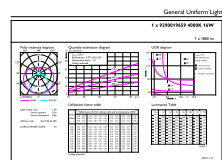
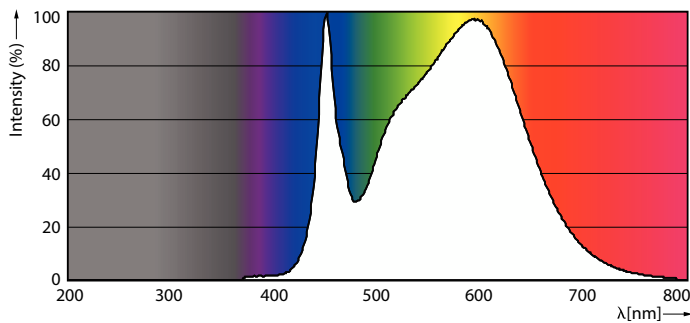
Order product name	16T8/LED/48-840/UF18/G 10/1
Full product name	16T8/LED/48-840/UF18/G 10/1
Order code	539972
Material Nr. (12NC)	929001965904
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.220 kg
EAN/UPC - Product/Case	046677539979
Numerator - Packs per outer box	10
EAN/UPC - Case	50046677539974

Dimensional drawing



Product	D1	D2	A1	A2	A3
16T8/LED/48-840/UF18/G 10/1	25.7 mm	28 mm	1,198 mm	1,205 mm	1,212 mm

Photometric data

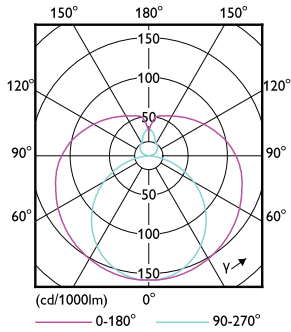


Spectral Power Distribution Colour - 16T8/LED/48-840/UF18/G 10/1

General uniform lighting - 16T8/LED/48-840/UF18/G 10/1

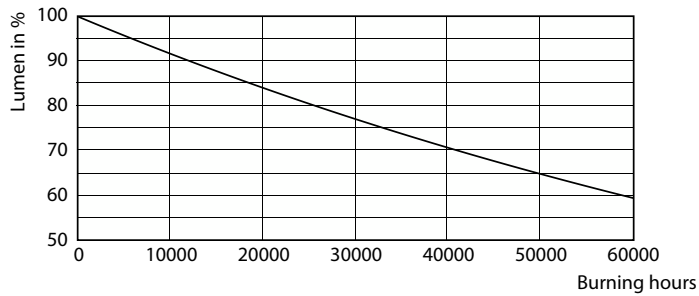
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Photometric data

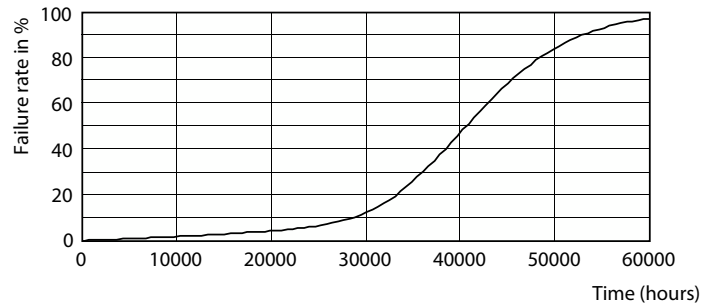


Light Distribution Diagram - 16T8/LED/48-840/UF18/G 10/1

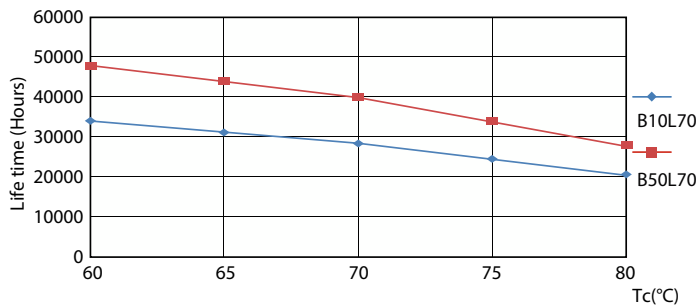
Lifetime



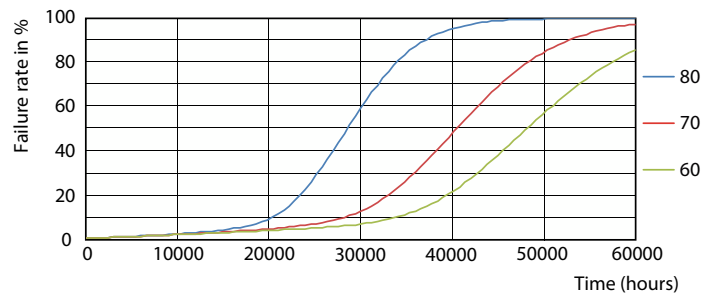
Lumen Maintenance Diagram - 16T8/LED/48-840/UF18/G 10/1



LEDtube 16T8 UF18



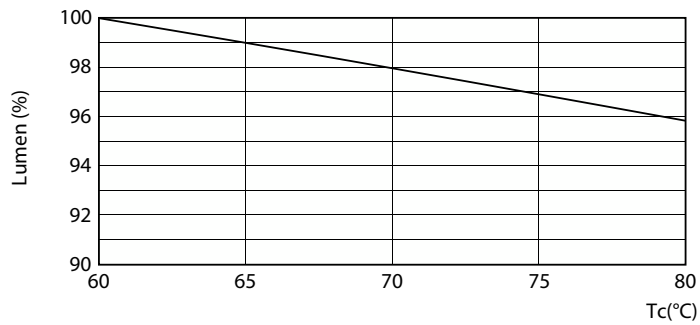
LEDtube 16T8 UF18 LifetimeVsTc



LEDtube 16T8 UF18 FailureRate

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Lifetime



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