![Philips Lighting logo]

MasterConnect T8

14T8/48-835/IF20/MC IA 10/1

Introducing MasterConnect LED lamps - smart retrofit LED lamps that give you an easy and seamless way to upgrade to connected lighting. Simply set up with an intuitive app, MasterConnect LED lamps can be programmed to maximize energy savings, while providing wireless and automated light for your comfort and convenience. What's more, it is fully scalable and upgradable. If you want to enjoy further benefits such as remote control or management dashboard, you can simply keep the currently installed lamps and add a gateway to experience all the advantages of a cloud-based system. There's no better way to take lighting solutions to the next level.

Product data

General Information

Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Nominal lifetime	70,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED

Light Technical

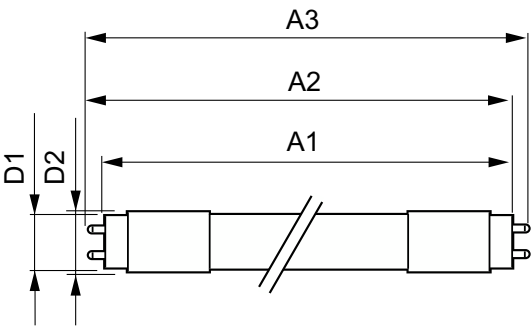|	
Color Code	835 [CCT of 3500K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	2,000 lm
Luminous Efficacy (rated) (Nom)	142.00 lm/W
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3500 K
Color Consistency	<6
Color rendering index (CRI)	82
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and Electrical

Line Frequency	28K to 100K Hz
Input Frequency	28K to 100K Hz
Power Consumption	14 W
Lamp Current (Max)	380 mA
Lamp Current (Min)	120 mA
Wattage Equivalent	32 W
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	100–380 V
UL Type	UL Type A

Temperature

Ambient temperature range	–20 °C to 45 °C
T-Case Maximum (Nom)	40 °C

MasterConnect T8

Controls and Dimming

Dimmable	Wireless Dim

Mechanical and Housing

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

Approval and Application

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

Application Conditions

can it be used in closed luminaires	Yes

Product Data

Order product name	14T8/48-835/IF20/MC IA 10/1
Full product name	14T8/48-835/IF20/MC IA 10/1
Order code	547299
Material Nr. (12NC)	929002051804
Numerator – Quantity Per Pack	1
Net Weight (Piece)	0.220 kg
EAN/UPC – Product/Case	046677547295
Numerator – Packs per outer box	10
EAN/UPC – Case	50046677547290

Dimensional drawing

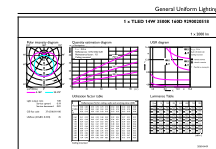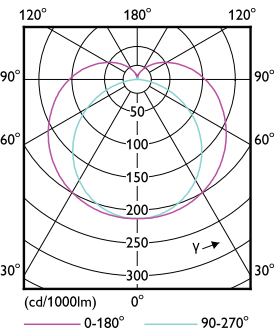| Product	D1	D2	A1	A2	A3
14T8/48-835/IF20/MC IA 10/1	25.7 mm	26.3 mm	1,198 mm	1,205 mm	1,212 mm

Photometric data

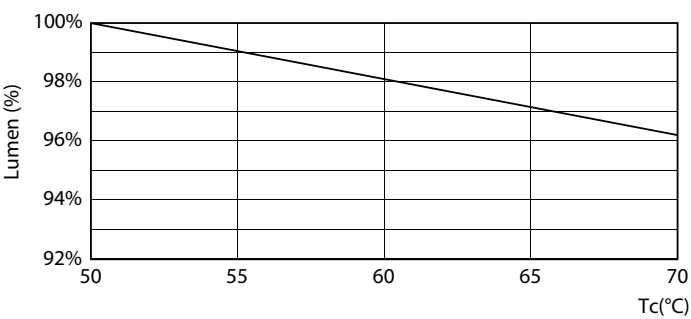Spectral Power Distribution Colour – 14T8/48-835/IF20/MC IA 10/1

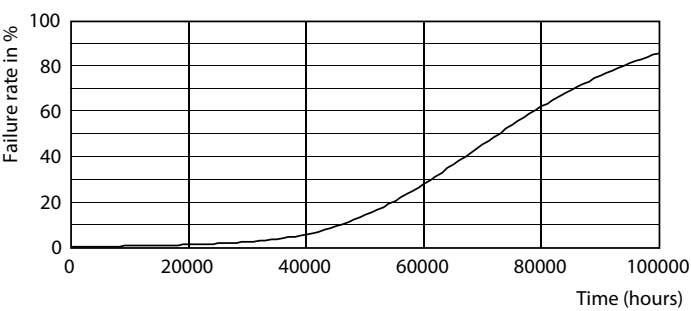General uniform lighting – 14T8/48-835/IF20/MC IA 10/1
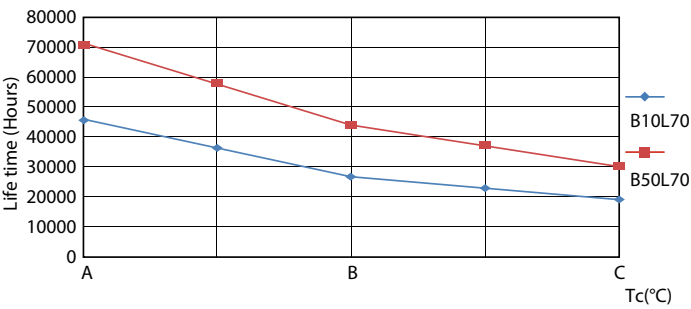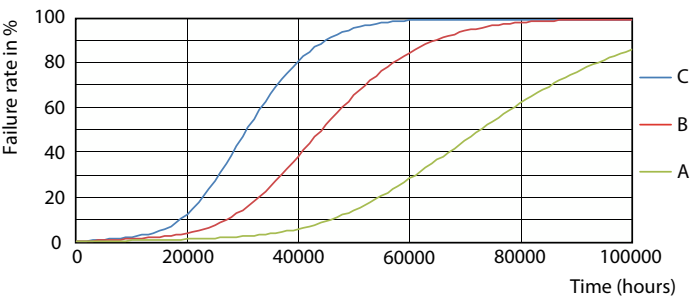
MasterConnect T8

Photometric data

Lifetime

Lumen Maintenance Diagram – 14T8/48-835/IF20/MC IA 10/1

Life Expectancy Diagram

LEDtube_70K_LifetimeVsTc-LED

LEDtube_70K_FailureRate-LED

Lifetime

Lumen Maintenance Diagram – 14T8/48-835/IF20/MC IA 10/1