PHILIPS Lighting

MasterConnect T8

14T8/48-840/IF21/MC IA 10/1

Philips MasterConnect LED Lamps, which are Interact Ready, enable an easy upgrade to a connected lighting system through Type A or Type B TLEDs, or via PAR38/30S/30L lamps. The 2.4GHz mesh networking technology allows wireless integration with a variety of sensors and switches, for easy light automation. With MasterConnect LED lamps, your system is fully scalable and upgradable. If you want to enjoy further benefits such as remote control or management dashboard, you can keep the currently installed lamps and simply add a gateway to experience all the advantages of a cloud-based (IoT) system. The result? Greater energy savings, various control possibilities and a more adaptable space!

Product data

General information

Base	G13 [Medium Bi-Pin Fluorescent]
EU RoHS compliant	Yes
Nominal Lifetime (Nom)	70000 h
Switching Cycle	50000
Technical Type	14-25-28-30-32W

Light technical

|	
Color Code	841 [CCT of 4100K (841)]
Beam Angle (Nom)	160 °
Initial lumen (Nom)	2100 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	150.00 lm/W
Color Consistency	<6
Color Rendering Index (Nom)	82
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and electrical

Input Frequency	28K to 100K Hz
Power (Rated) (Nom)	14 W
Lamp Current (Max)	380 mA
Lamp Current (Min)	120 mA
Wattage Equivalent	25-28-30-32 W
Starting Time (Nom)	0.5 s
Warm Up Time to 60% Light (Nom)	0.5 s
UL Type	TLED_Type A; UL listed HF
Power Factor (Nom)	0.9
Voltage (Nom)	100-380 V

Temperature

T-Ambient (Max)	113 °F
T-Ambient (Min)	-4 °F
T-Ambient (Min)-DUP(do not use)	-4 °F
T-Storage (Max)	149 °F
T-Storage (Min)	-40 °F

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T-Case Maximum (Nom)	104 °F

Controls and dimming

Dimmable	Wireless Dim

Mechanical and housing

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	48 in
Bulb Shape	Tube, double-ended

Approval and application

Energy Saving Product	Yes
Approbation Marks	DLC compliance

Approbation Marks	RoHS compliance UL certificate
Energy Consumption kWh/1000 h	– kWh

Product data

Order product name	14T8/48-840/IF21/MC IA 10/1
EAN/UPC – Product	046677547301
Order code	547307
Numerator – Quantity Per Pack	1
Numerator – Packs per outer box	10
Material Nr. (12NC)	929002051904
Net Weight (Piece)	0.485 lb

Dimensional drawing

14T8/48-840/IF21/MC IA 10/1
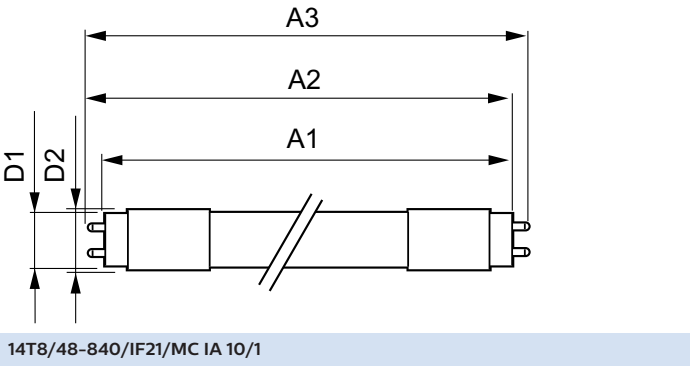
Product	D1	D2	A1	A2	A3
14T8/48-840/IF21/MC IA 10/1	1-1/16 in	1-1/16 in	47-3/16 in	47-1/2 in	47-3/4 in

Photometric data

LEDtube 14W G13 2100lm 840

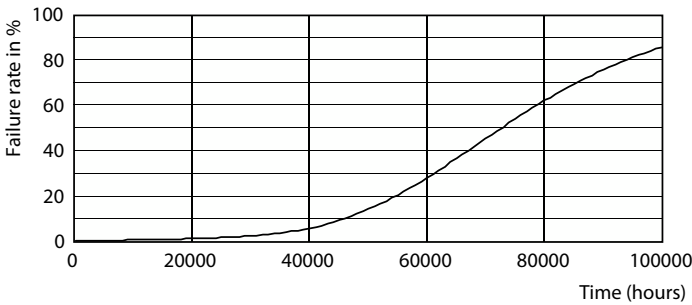LEDtube 14W G13 2000lm
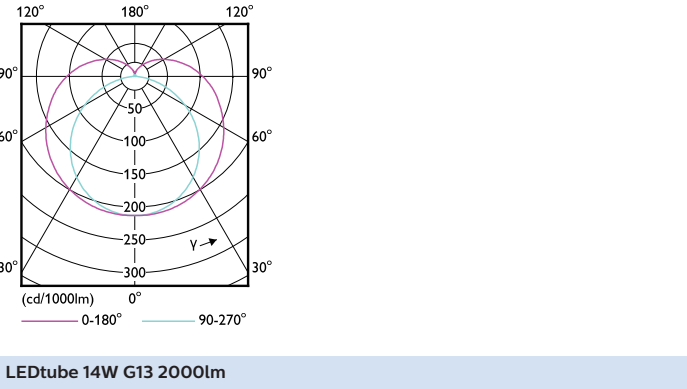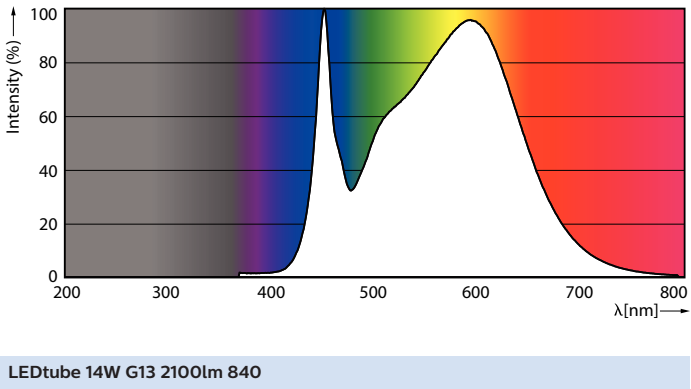
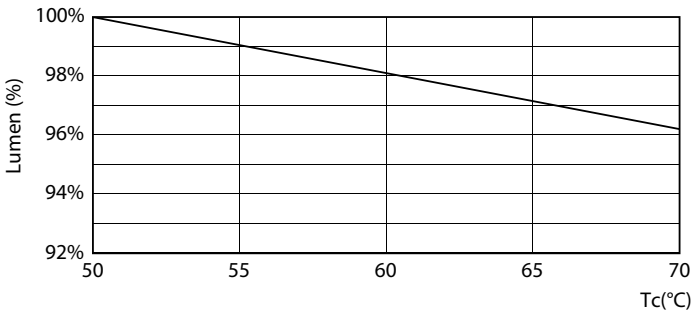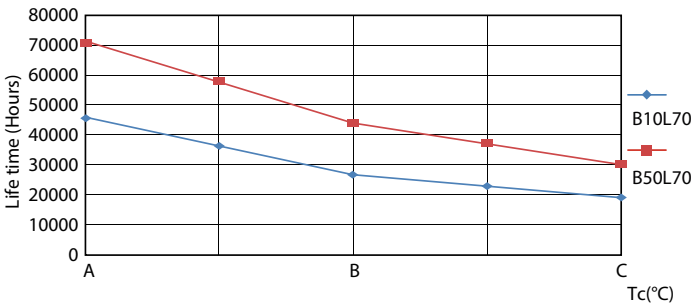# MasterConnect T8
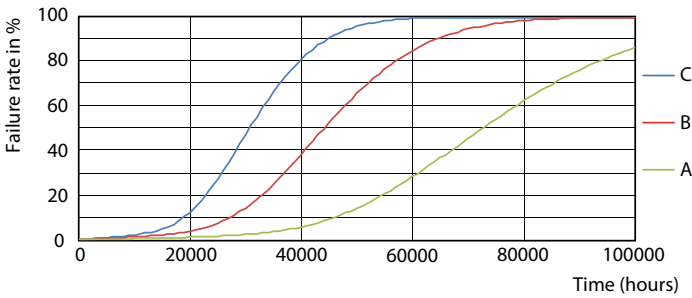
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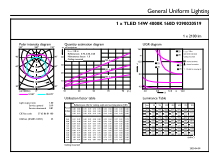
LEDtube 14W G13 2100lm 840

Lifetime

MC LEDtube 16W 60K LumenVsTc

Life Expectancy Diagram

LEDtube_70K_LifetimeVsTc-LED

LEDtube_70K_FailureRate-LED

Lifetime

Lumen Maintenance Diagram

www.lighting.philips.com

2022, September 12 – data subject to change