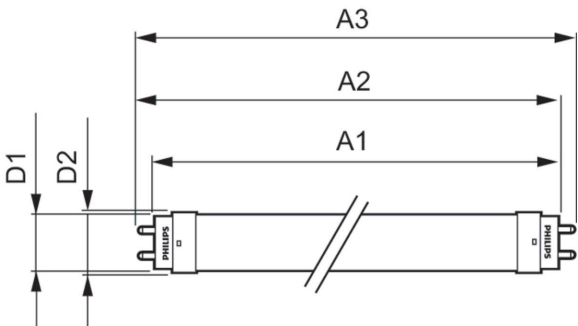# T8

12T8/PER/48-850/BB18/G 10/1 FB

Our TLEDs are available in InstantFit (Type A / Type C) or MainsFit (Ballast bypass / Type B) versions. The InstantFit lamps work on a broad variety of ballasts and LED drivers. Only InstantFit has over 15,000 lamp & ballast combinations delivering even light output, energy savings and a long lifetime. Our MainsFit products feature a double-ended design, simplifying installation while a proprietary safety circuit minimizes a shock risk. Lamp sizes range from 2-foot to 8-foot and U-bend with a variety of lumen outputs.

Product data

General Information

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

Light Technical

Color Code	850 [CCT of 5000K]
Beam Angle (Nom)	240 degree(s)
Luminous Flux	1,800 lm
Color Designation	Daylight
Correlated Color Temperature (Nom)	5000 K
Luminous Efficacy (rated) (Nom)	150.00 lm/W
Color Consistency	<5
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and Electrical

Line Frequency	50 to 60 Hz

Input Frequency	50 to 60 Hz
Power Consumption	12 W
Lamp Current (Max)	120 mA
Lamp Current (Min)	40 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	120-277 V

Temperature

Ambient temperature range	-4 °F to 113 °F
T-Case Maximum (Nom)	158 °F

Controls and Dimming

Dimmable	No

Mechanical and Housing

|	
Product Length	47-1/4 inch
Bulb Shape	T8

T8

Approval and Application

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

Product Data

Order product name	12T8/PER/48-850/BB18/G 10/1 FB

Full product name	12T8/PER/48-850/BB18/G 10/1 FB
Order code	532705
Material Nr. (12NC)	929001877104
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	046677532703
Numerator – Packs per outer box	10
EAN/UPC – Case	50046677532708

Dimensional drawing

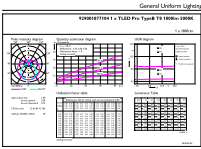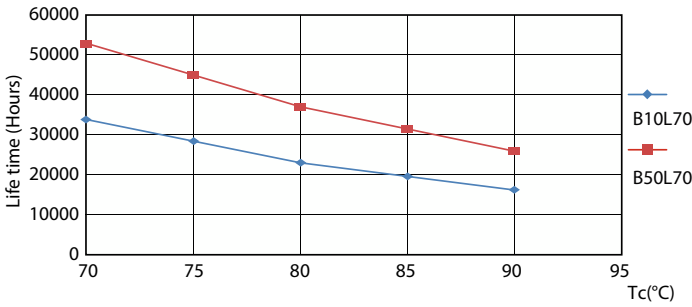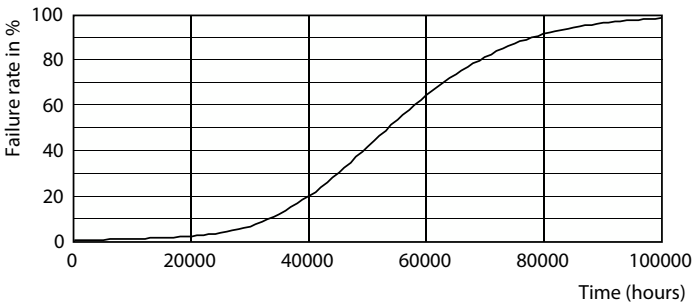| Product	D1	D2	A1	A2	A3
12T8/PER/48-850/ BB18/G 10/1 FB	1-1/16 inch	1-1/8 inch	47-3/16 inch	47-1/2 inch	47-3/4 inch

Photometric data
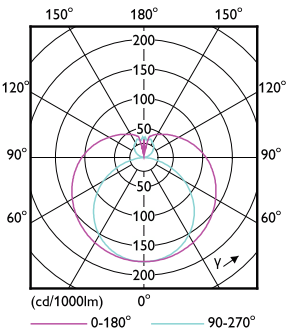
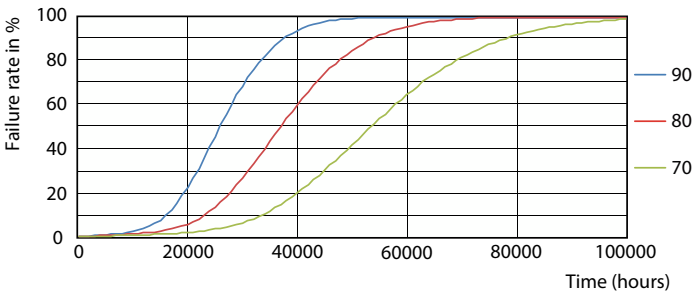Light Distribution Diagram – 12T8/PER/48-850/BB18/G 10/1 FB
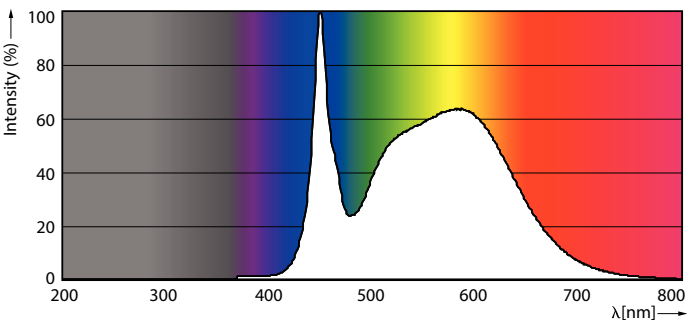
Spectral Power Distribution Colour – 12T8/PER/48-850/BB18/G 10/1 FB

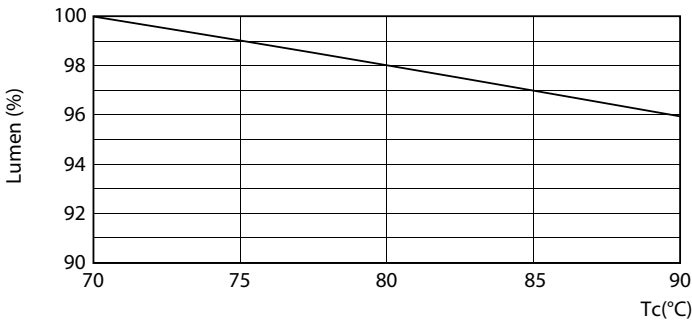General uniform lighting – 12T8/PER/48-850/BB18/G 10/1 FB

T8

Lifetime

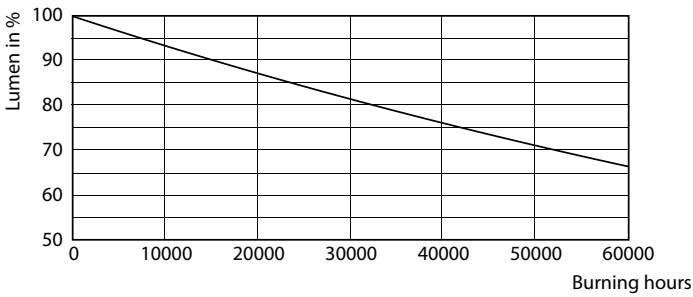**Life Expectancy Diagram – 12T8/PER/48–850/BB18/G 10/1 FB**

Life Expectancy Diagram – 12T8/PER/48–850/BB18/G 10/1 FB

Life Expectancy Diagram – 12T8/PER/48–850/BB18/G 10/1 FB

Lumen Maintenance Diagram – 12T8/PER/48–850/BB18/G 10/1 FB

Lumen Maintenance Diagram – 12T8/PER/48–850/BB18/G 10/1 FB

www.lighting.philips.com

2023, August 18 – data subject to change