PHILIPS Lighting

CorePro LED PLC 2P

CorePro LED PLC 4.5W 830 2P G24d-1

CorePro LED PLC 2P integrates a LED light source into a traditional fluorescent form factor. This product is the ideal solution for uplamping in general lighting applications: it meets basic lighting requirements, offers significant energy savings, and is environmentally friendly.

Product data

General Information

Cap-Base	G24D-1 [G24d-1]
Nominal lifetime	30,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
Flux measurement reference	Sphere
CE mark	Yes
EU RoHS compliant	Yes

Light Technical

Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	120 degree(s)
Luminous Flux	475 lm
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	105.00 lm/W
Color Consistency	<6
Color rendering index (CRI)	83
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG0

Operating and Electrical

Line Frequency	50 to 60 Hz

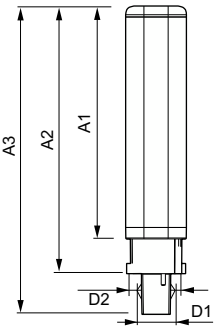|	
Input Frequency	50 to 60 Hz
Power Consumption	4.5 W
Lamp Current (Max)	25 mA
Lamp Current (Min)	20 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	13 W
Max. lamp no. on MCB B type 10A – Mains	191
Max. lamp no. on MCB B type 10A – EM ballast without Comp. Cap.	220
Max. lamp no. on MCB B type 10A – EM ballast with Comp. Cap.	30
Max. lamp no. on MCB B type 16A – Mains	306
Max. lamp no. on MCB B type 16A – EM ballast without Comp. Cap.	330
Max. lamp no. on MCB B type 16A – EM ballast with Comp. Cap.	49

Temperature

Ambient temperature range	–4 °F to 95 °F

CorePro LED PLC 2P

T–Case Maximum (Nom)	140 °F

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Material	Plastic
Product Length	3–15/16 inch
Bulb Shape	PL–C

Approval and Application

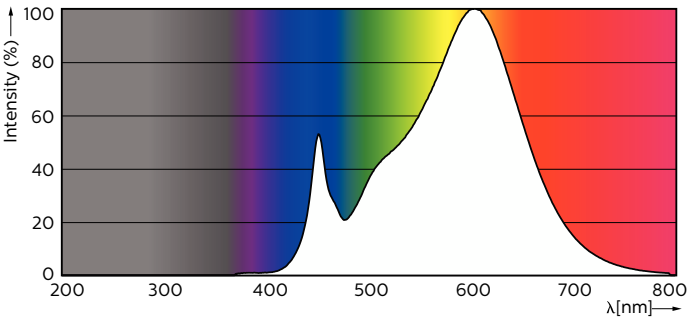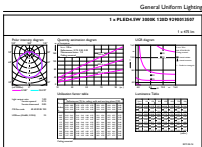|	
Energy Efficiency Class	F
Energy Saving Product	Yes
Approval Marks	TUV CE marking RoHS compliance KEMA Keur certificate
Energy Consumption kWh/1000 h	5 kWh

EPREL Registration Number	403560

Product Data

Order product name	CorePro LED PLC 4.5W 830 2P G24d–1
Full product name	CorePro LED PLC 4.5W 830 2P G24d–1
Full product code	871869670659600
Order code	345645
Material Nr. (12NC)	929001350702
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8718696706596
Numerator – Packs per outer box	10
EAN/UPC – Case	8718696706602

Dimensional drawing

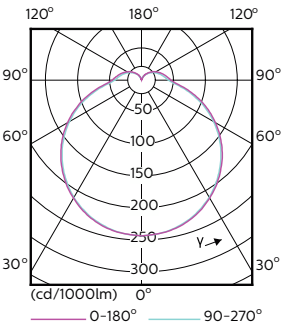| Product	D1	D2	A1	A2	A3
CorePro LED PLC 4.5W 830 2P G24d–1	1 inch	1–1/8 inch	3–13/16 inch	4–9/16 inch	5–7/16 inch

Photometric data

General uniform lighting – CorePro LED PLC 4.5W 830 2P G24d–1

Spectral Power Distribution Colour – CorePro LED PLC 4.5W 830 2P G24d–1
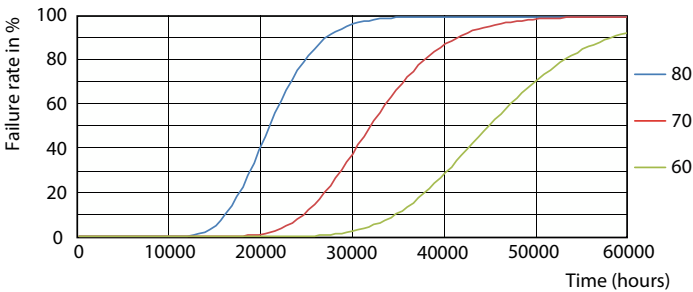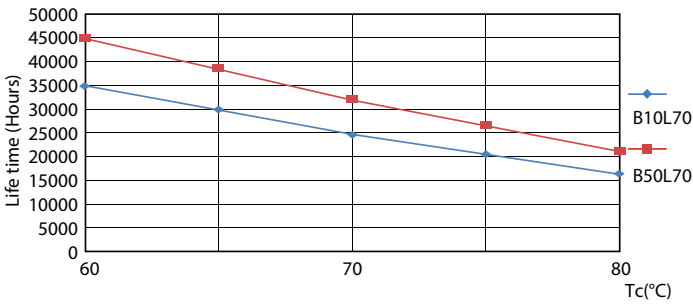
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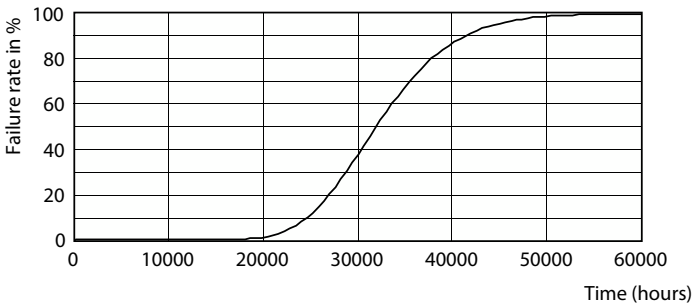## Photometric data

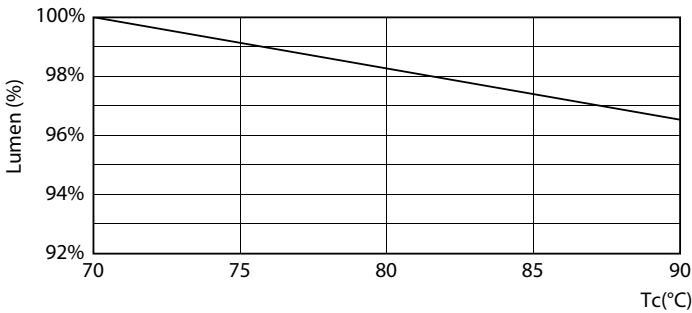**Light Distribution Diagram**

Lifetime

Life Expectancy Diagram – CorePro LED PLC 4.5W 830 2P G24d-1

Life Expectancy Diagram – CorePro LED PLC 4.5W 830 2P G24d-1

Life Expectancy Diagram – CorePro LED PLC 4.5W 830 2P G24d-1

Lumen Maintenance Diagram

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Lifetime

Lumen Maintenance Diagram – CorePro LED PLC 4.5W 830 2P G24d-1

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2023, August 16 – data subject to change