PHILIPS Lighting

CorePro LED PLL

CorePro LED PLL HF 12W 840 4P 2G11

Philips CorePro LED PLL is the ideal uplamping solution for downlights & luminaires in a wide range of general lighting applications. It integrates a LED light source into a traditional fluorescent form factor to offer superb energy savings over a lifetime that's twice as long as fluorescent alternatives.

Product data

General Information

Cap-Base	2G11
Nominal lifetime	30,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
Flux measurement reference	Sphere

Light Technical

Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	1,500 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	125 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG0

Operating and Electrical

Line Frequency	20K–80K Hz
Input Frequency	20K–80K Hz
Power Consumption	12 W

Lamp Current (Max)	500 mA
Lamp Current (Min)	150 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	20-60 V
Ballast Compatibility	HF
LED alternative to fluorescent lamp power	24 W
Inrush current at mains	–
Max. lamp no. on MCB B type 10A – Mains	–
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	–
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	–
Max. lamp no. on MCB B type 16A – Mains	–
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	–
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	–

Temperature

T-Case Maximum (Nom)	70 °C

CorePro LED PLL

Controls and Dimming	
Dimmable	No

Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Glass
Product Length	312 mm
Bulb Shape	PL-L
Net Weight (Piece)	0.113 kg

| Approval and Application	
Energy Efficiency Class	E
Energy Saving Product	Yes
Approval Marks	RoHS compliance
Energy Consumption kWh/1000 h	12 kWh
EPREL Registration Number	1370822
CE mark	Yes

| EU RoHS compliant	Yes
Ambient temperature range	–20 °C to 45 °C

Product Data	
Order product name	CorePro LED PLL HF 12W 840 4P 2G11
Full product name	CorePro LED PLL HF 12W 840 4P 2G11
Full product code	871951448682900
Order code	929003579102
Material Nr. (12NC)	929003579102
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8719514486829
Numerator – Packs per outer box	10
EAN/UPC – Case	8719514486836

Dimensional drawing
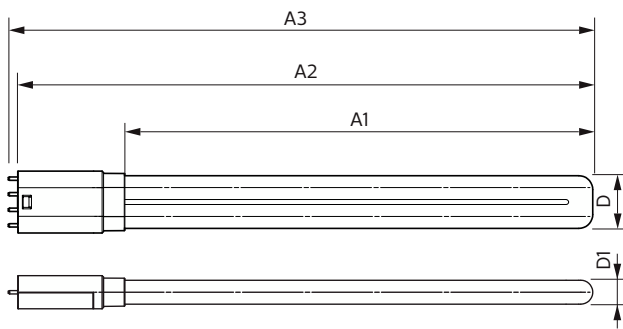
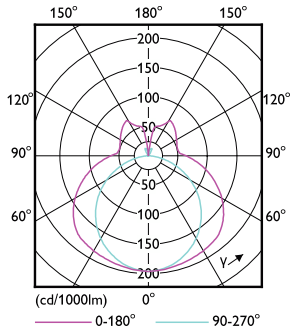| Product	D1	D2	A1	A2	A3
CorePro LED PLL HF 12W 840 4P 2G11	17 mm	38 mm	250 mm	312 mm	319 mm

Photometric data
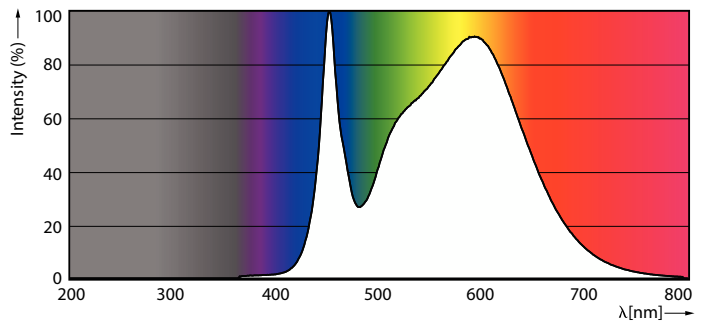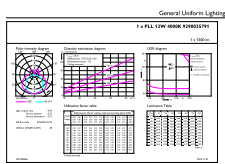
General uniform lighting – CorePro LED PLL HF 12W 840 4P 2G11

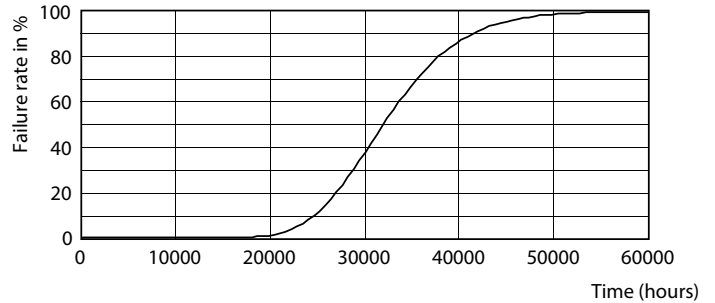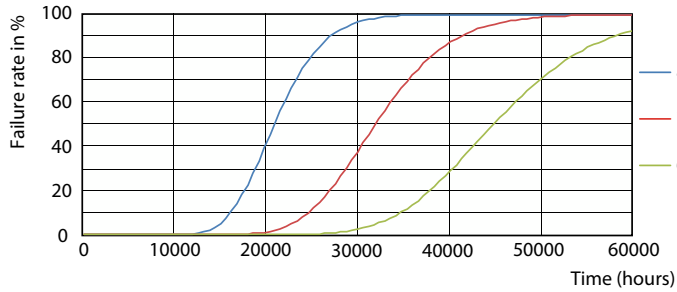Spectral Power Distribution Colour – CorePro LED PLL HF 12W 840 4P 2G11
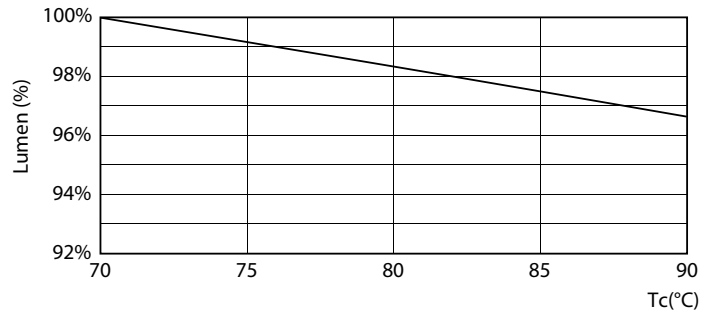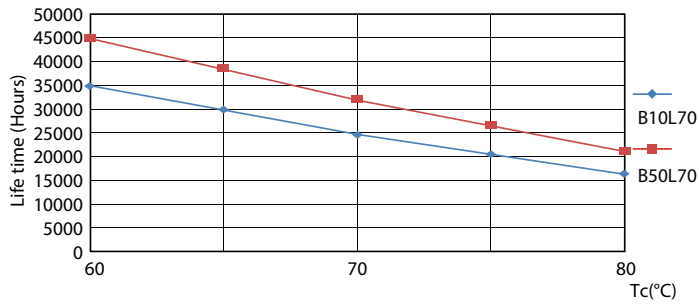
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Photometric data

150° 180° 150°
200
150
120° 100 120°
50
90° 90°
50
60° 100 60°
150
200
(cd/1000lm) 0°
— 0-180° — 90-270°

Lifetime

Failure rate in %
Time (hours)
80
70
60

FailureRate

Failure rate in %
Time (hours)

Life Expectancy Diagram

Life time (Hours)
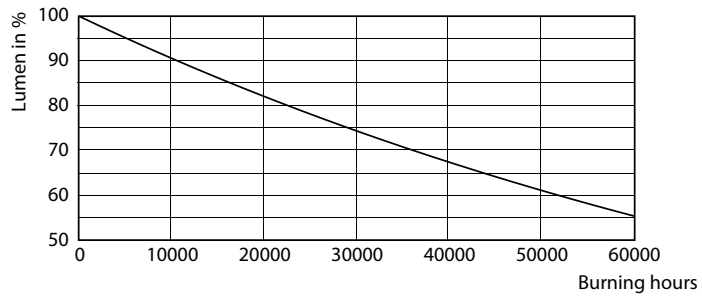Tc(°C)
B10L70
B50L70

LifetimeVsTc

Lumen (%)
Tc(°C)

Lumen Maintenance Diagram – CorePro LED PLL HF 12W 840 4P 2G11

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Lifetime

Lumen Maintenance Diagram – CorePro LED PLL HF 12W 840 4P 2G11

www.lighting.philips.com

2025, March 17 – data subject to change