CorePro LED PLL

CorePro LED PLL EM/Mains 16.5W 830 4P

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 h
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere

Light Technical

Colour Code	830 [CCT of 3000K]
Beam angle (nom.)	160 degree(s)
Luminous Flux	2,000 lm
Colour designation	White (WH)
Correlated Colour Temperature (Nom)	3000 K
Luminous efficacy (rated) (nom.)	121 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80
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	16.5 W

Lamp current (nom.)	83 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	36 W
Inrush current at mains	9.4
Max. lamp no. on MCB B type 10A — Mains	82
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	104
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	19
Max. lamp no. on MCB B type 16A — Mains	131
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	166
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	30
Ballast Compatibility	EM

Temperature

T-Case maximum (nom.)	70 °C

CorePro LED PLL

Controls and Dimming	
Dimmable	No

Mechanical and Housing	
Lamp Finish	Frosted
Bulb material	Glass
Product length	405 mm
Bulb shape	PL-L
Net Weight (Piece)	0.150 kg

| Approval and Application	
Energy Efficiency Class	E
Energy-saving product	Yes
Approval marks	RoHS compliance KEMA Keur certificate
Energy consumption kWh/1,000 hours	17 kWh
EPREL Registration Number	1370827
CE mark	Yes
EU RoHS compliant	Yes

Flickering value (PstLM)	1
Stroboscopic effect	0.4
Ambient temperature range	–20℃ to 45℃

Product Data	
Order product name	CorePro LED PLL EM/Mains 16.5W 830 4P
Full product name	CorePro LED PLL EM/Mains 16.5W 830 4P
Full EOC	872016915707100
Order code	15707100
Material no. (12 NC)	929003592602
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8720169157071
Numerator – packs per outer box	10
EAN/UPC – Case	8720169157088

Dimensional drawing
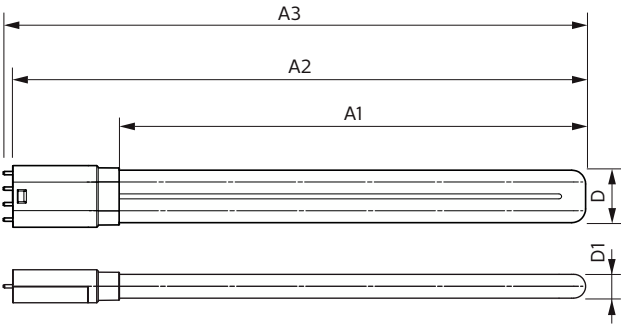
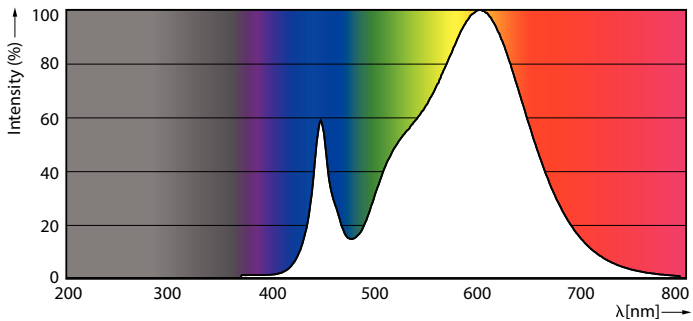| Product	D1	D2	A1	A2	A3
CorePro LED PLL EM/Mains 16.5W 830 4P	17 mm	38 mm	330 mm	405 mm	412 mm

Photometric data
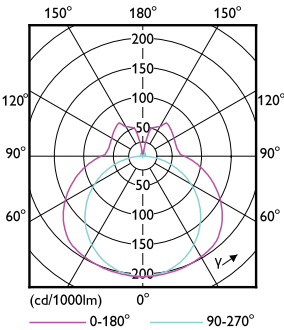
Light Distribution Diagram – CorePro LED PLL EM/Mains 16.5W 830 4P

Spectral Power Distribution Colour – CorePro LED PLL EM/Mains 16.5W 830 4P

CorePro LED PLL

Photometric data

Lifetime

Lumen Maintenance Diagram – CorePro LED PLL EM/Mains 16.5W 830 4P

FailureRate

Life Expectancy Diagram

LifetimeVsTc

Lifetime

Lumen Maintenance Diagram – CorePro LED PLL EM/Mains 16.5W 830 4P