PHILIPS Lighting

CorePro LED PLL



CorePro LED PLL Mains 24W 840 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 hour(s)
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	3,400 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	141 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	24 W

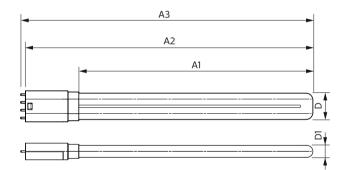
Lamp Current (Nom)	127 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	55 W
Inrush current at mains	9.6
Max. lamp no. on MCB B type 10A - Mains	80
Max. lamp no. on MCB B type 10A - EM ballast	80
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A - EM ballast	16
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	128
Max. lamp no. on MCB B type 16A - EM ballast	128
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - EM ballast	25
with Compensation Capacitor.	
Ballast Compatibility	Mains
Temperature	
T-Case Maximum (Nom)	75 °C

CorePro LED PLL

Controls and Dimming		
Dimmable	No	
Mechanical and Housing		
Bulb Finish	Frosted	
Bulb Material	Glass	
Product Length	528 mm	
Bulb Shape	PL-L	
Net Weight (Piece)	0.192 kg	
Approval and Application		
Energy Efficiency Class	D	
Energy Saving Product	Yes	
Approval Marks	RoHS compliance KEMA Keur	
	certificate	
Energy Consumption kWh/1000 h	24 kWh	
EPREL Registration Number	1370830	
CE mark	Yes	
EU RoHS compliant	Yes	

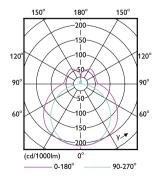
Flickering value (PstLM) - Flickering value as per	1
EN 61000-3-3	
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-20 °C to 45 °C
Product Data	
Order product name	CorePro LED PLL Mains 24W 840
	4P
Full product name	CorePro LED PLL Mains 24W 840
	4P
Full product code	872016915713200
Order code	929003592902
Material Nr. (12NC)	929003592902
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169157132
Numerator - Packs per outer box	10
EAN/UPC - Case	8720169157149

Dimensional drawing



Product	D1	D2	A1	A2	A3
CorePro LED PLL Mains 24W 840 4P	17 mm	38 mm	453 mm	528 mm	535 mm

Photometric data



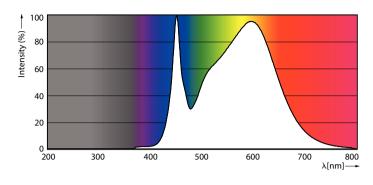
Light Distribution Diagram - CorePro LED PLL Mains 24W 840 4P

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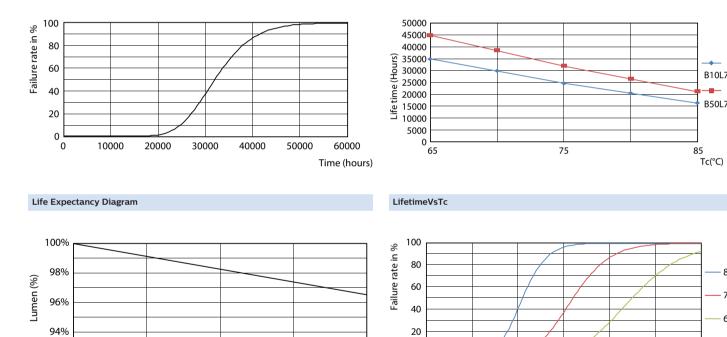
CorePro LED PLL

Photometric data



Spectral Power Distribution Colour - CorePro LED PLL Mains 24W 840 4P

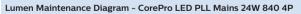
Lifetime





85

90



80

FailureRate

0 0

95

Tc(°C)

10000

20000

30000

40000

50000

92% ∟ 75

-

-B50L70

B10L70

85

75

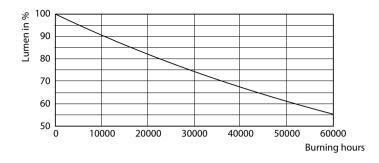
65

60000

Time (hours)

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Lifetime



Lumen Maintenance Diagram - CorePro LED PLL Mains 24W 840 4P



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