



The new generation of energy-saving LED PLL tube lighting

CorePro LED PLL

Philips CorePro LED PLL is the ideal uplampping 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.

Benefits

- Reduced operational cost thanks to a lower energy consumption than conventional PLL lamps, as well as lower maintenance cost thanks to a 2-3 times longer lifetime than conventional lamps
- Simple lamp-for-lamp replacement, re-using the existing fixture without major modifications, using a similar PLL form-factor
- Fastest and easiest way to upgrade existing luminaires to LED technology

Features

- High quality of light, no flickering nor stroboscopic effect
- Instant 100% light
- Choice of 3000 K, 4000 K & 6500 K

Application

- Hospitality
- Retail
- Office (stairways, corridors)
- Industrial areas

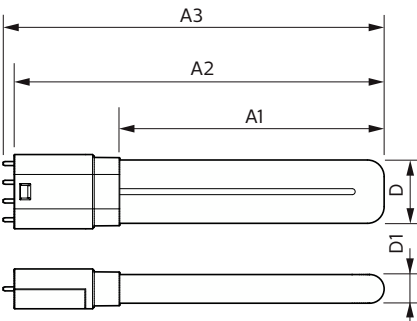
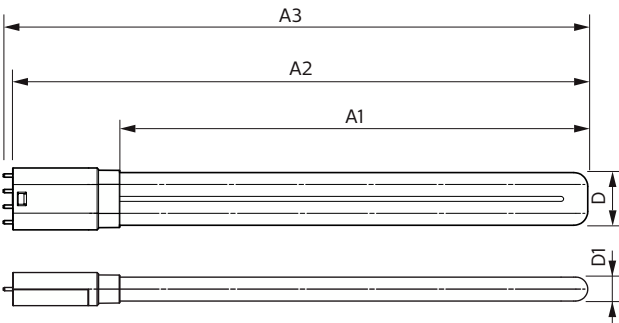
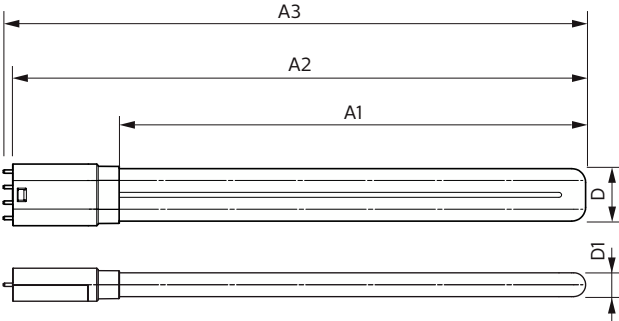
CorePro LED PLL

Versions



CorePro LED PLC 400mm 17W
2G11 830 2000lm

Dimensional drawing



Product	D1	D2	A1	A2	A3
CorePro LED PLL EM/Mains 16.5W 830 4P	17 mm		330 mm	405 mm	412 mm
CorePro LED PLL EM/Mains 16.5W 840 4P	17 mm		330 mm	405 mm	412 mm
CorePro LED PLL HF 16.5W 830 4P 2G11	43.6 mm	23.4 mm	329.5 mm	405 mm	411.6 mm
CorePro LED PLL HF 16.5W 840 4P 2G11	43.6 mm	23.4 mm	329.5 mm	405 mm	411.6 mm
CorePro LED PLL HF 16.5W 865 4P 2G11	43.6 mm	23.4 mm	329.5 mm	405 mm	411.6 mm

Product	D1	D2	A1	A2	A3
CorePro LED PLL EM/Mains 12W 830 4P	17 mm		250 mm	312 mm	319 mm
CorePro LED PLL EM/Mains 12W 840 4P	17 mm		250 mm	312 mm	319 mm
CorePro LED PLL HF 12W 830 4P 2G11	17 mm		250 mm	312 mm	319 mm
CorePro LED PLL HF 12W 840 4P 2G11	17 mm		250 mm	312 mm	319 mm
CorePro LED PLL HF 24W 830 4P 2G11	37.6 mm	17 mm	453 mm	528.5 mm	535.1 mm
CorePro LED PLL HF 24W 840 4P 2G11	37.6 mm	17 mm	453 mm	528.5 mm	535.1 mm
CorePro LED PLL HF 24W 865 4P 2G11	37.6 mm	17 mm	453 mm	528.5 mm	535.1 mm
CorePro LED PLL Mains 24W 830 4P	17 mm		453 mm	528 mm	535 mm
CorePro LED PLL Mains 24W 840 4P	17 mm		453 mm	528 mm	535 mm

Product	D1	D2	A1	A2	A3
CorePro LED PLL EM/Mains 8W 830 4P	17 mm		156 mm	218 mm	224 mm
CorePro LED PLL EM/Mains 8W 840 4P	17 mm		156 mm	218 mm	224 mm
CorePro LED PLL HF 8W 830 4P 2G11	17 mm		155 mm	217 mm	224 mm
CorePro LED PLL HF 8W 840 4P 2G11	17 mm		155 mm	217 mm	224 mm

CorePro LED PLL

General Information	
Cap-Base	2G11
Nominal lifetime	30,000 hour(s)
Light Technical	
Beam Angle (Nom)	160 degree(s)
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
Temperature	
Ambient temperature range	-20 °C to 45 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Shape	PL-L

General Information

Order Code	Full Product Name	Switching Cycle
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	50,000
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	50,000
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	50,000
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	200,000
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	200,000
82839700	CorePro LED PLL HF 24W 830 4P 2G11	50,000
82841000	CorePro LED PLL HF 24W 840 4P 2G11	50,000
82843400	CorePro LED PLL HF 24W 865 4P 2G11	50,000
15711800	CorePro LED PLL Mains 24W 830 4P	200,000
15713200	CorePro LED PLL Mains 24W 840 4P	200,000
48680500	CorePro LED PLL HF 12W 830 4P 2G11	50,000
48682900	CorePro LED PLL HF 12W 840 4P 2G11	50,000
15703300	CorePro LED PLL EM/Mains 12W 830 4P	200,000
15705700	CorePro LED PLL EM/Mains 12W 840 4P	200,000
48676800	CorePro LED PLL HF 8W 830 4P 2G11	50,000
48678200	CorePro LED PLL HF 8W 840 4P 2G11	50,000
15699900	CorePro LED PLL EM/Mains 8W 830 4P	200,000
15701900	CorePro LED PLL EM/Mains 8W 840 4P	200,000

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	3000 K	83	830	2,000 lm
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	4000 K	83	840	2,100 lm
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	6500 K	83	865	2,100 lm
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	3000 K	80	830	2,000 lm
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	4000 K	80	840	2,100 lm
82839700	CorePro LED PLL HF 24W 830 4P 2G11	3000 K	83	830	3,200 lm
82841000	CorePro LED PLL HF 24W 840 4P 2G11	4000 K	83	840	3,400 lm
82843400	CorePro LED PLL HF 24W 865 4P 2G11	6500 K	83	865	3,400 lm
15711800	CorePro LED PLL Mains 24W 830 4P	3000 K	80	830	3,200 lm
15713200	CorePro LED PLL Mains 24W 840 4P	4000 K	80	840	3,400 lm

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
48680500	CorePro LED PLL HF 12W 830 4P 2G11	3000 K	80	830	1,440 lm
48682900	CorePro LED PLL HF 12W 840 4P 2G11	4000 K	80	840	1,500 lm
15703300	CorePro LED PLL EM/Mains 12W 830 4P	3000 K	80	830	1,440 lm
15705700	CorePro LED PLL EM/Mains 12W 840 4P	4000 K	80	840	1,500 lm
48676800	CorePro LED PLL HF 8W 830 4P 2G11	3000 K	80	830	960 lm
48678200	CorePro LED PLL HF 8W 840 4P 2G11	4000 K	80	840	1,000 lm
15699900	CorePro LED PLL EM/Mains 8W 830 4P	3000 K	80	830	960 lm
15701900	CorePro LED PLL EM/Mains 8W 840 4P	4000 K	80	840	1,000 lm

Operating and Electrical

CorePro LED PLL

Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	39000-71000 Hz	39000-71000 Hz	16.5 W
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	39000-71000 Hz	39000-71000 Hz	16.5 W
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	39000-71000 Hz	39000-71000 Hz	16.5 W
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	50 to 60 Hz	50 to 60 Hz	16.5 W
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	50 to 60 Hz	50 to 60 Hz	16.5 W
82839700	CorePro LED PLL HF 24W 830 4P 2G11	20000-70000 Hz	20000-70000 Hz	24 W
82841000	CorePro LED PLL HF 24W 840 4P 2G11	20000-70000 Hz	20000-70000 Hz	24 W
82843400	CorePro LED PLL HF 24W 865 4P 2G11	20000-70000 Hz	20000-70000 Hz	24 W
15711800	CorePro LED PLL Mains 24W 830 4P	50 to 60 Hz	50 to 60 Hz	24 W

Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
15713200	CorePro LED PLL Mains 24W 840 4P	50 to 60 Hz	50 to 60 Hz	24 W
48680500	CorePro LED PLL HF 12W 830 4P 2G11	20K-80K Hz	20K-80K Hz	12 W
48682900	CorePro LED PLL HF 12W 840 4P 2G11	20K-80K Hz	20K-80K Hz	12 W
15703300	CorePro LED PLL EM/Mains 12W 830 4P	50 to 60 Hz	50 to 60 Hz	12 W
15705700	CorePro LED PLL EM/Mains 12W 840 4P	50 to 60 Hz	50 to 60 Hz	12 W
48676800	CorePro LED PLL HF 8W 830 4P 2G11	20K-80K Hz	20K-80K Hz	8 W
48678200	CorePro LED PLL HF 8W 840 4P 2G11	20K-80K Hz	20K-80K Hz	8 W
15699900	CorePro LED PLL EM/Mains 8W 830 4P	50 to 60 Hz	50 to 60 Hz	8 W
15701900	CorePro LED PLL EM/Mains 8W 840 4P	50 to 60 Hz	50 to 60 Hz	8 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	70 °C
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	70 °C
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	70 °C
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	70 °C
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	70 °C
82839700	CorePro LED PLL HF 24W 830 4P 2G11	70 °C
82841000	CorePro LED PLL HF 24W 840 4P 2G11	70 °C
82843400	CorePro LED PLL HF 24W 865 4P 2G11	70 °C
15711800	CorePro LED PLL Mains 24W 830 4P	75 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
15713200	CorePro LED PLL Mains 24W 840 4P	75 °C
48680500	CorePro LED PLL HF 12W 830 4P 2G11	70 °C
48682900	CorePro LED PLL HF 12W 840 4P 2G11	70 °C
15703300	CorePro LED PLL EM/Mains 12W 830 4P	70 °C
15705700	CorePro LED PLL EM/Mains 12W 840 4P	70 °C
48676800	CorePro LED PLL HF 8W 830 4P 2G11	70 °C
48678200	CorePro LED PLL HF 8W 840 4P 2G11	70 °C
15699900	CorePro LED PLL EM/Mains 8W 830 4P	70 °C
15701900	CorePro LED PLL EM/Mains 8W 840 4P	70 °C

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	-
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	-
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	-
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	Frosted
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	Frosted
82839700	CorePro LED PLL HF 24W 830 4P 2G11	-

Order Code	Full Product Name	Bulb Finish
82841000	CorePro LED PLL HF 24W 840 4P 2G11	-
82843400	CorePro LED PLL HF 24W 865 4P 2G11	-
15711800	CorePro LED PLL Mains 24W 830 4P	Frosted
15713200	CorePro LED PLL Mains 24W 840 4P	Frosted
48680500	CorePro LED PLL HF 12W 830 4P 2G11	Frosted
48682900	CorePro LED PLL HF 12W 840 4P 2G11	Frosted

Order Code	Full Product Name	Bulb Finish
15703300	CorePro LED PLL EM/Mains 12W 830 4P	Frosted
15705700	CorePro LED PLL EM/Mains 12W 840 4P	Frosted
48676800	CorePro LED PLL HF 8W 830 4P 2G11	Frosted

Order Code	Full Product Name	Bulb Finish
48678200	CorePro LED PLL HF 8W 840 4P 2G11	Frosted
15699900	CorePro LED PLL EM/Mains 8W 830 4P	Frosted
15701900	CorePro LED PLL EM/Mains 8W 840 4P	Frosted

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	17 kWh
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	17 kWh
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	17 kWh
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	17 kWh
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	17 kWh
82839700	CorePro LED PLL HF 24W 830 4P 2G11	24 kWh
82841000	CorePro LED PLL HF 24W 840 4P 2G11	24 kWh
82843400	CorePro LED PLL HF 24W 865 4P 2G11	24 kWh
15711800	CorePro LED PLL Mains 24W 830 4P	24 kWh
15713200	CorePro LED PLL Mains 24W 840 4P	24 kWh
48680500	CorePro LED PLL HF 12W 830 4P 2G11	12 kWh
48682900	CorePro LED PLL HF 12W 840 4P 2G11	12 kWh
15703300	CorePro LED PLL EM/Mains 12W 830 4P	12 kWh
15705700	CorePro LED PLL EM/Mains 12W 840 4P	12 kWh
48676800	CorePro LED PLL HF 8W 830 4P 2G11	8 kWh
48678200	CorePro LED PLL HF 8W 840 4P 2G11	8 kWh
15699900	CorePro LED PLL EM/Mains 8W 830 4P	8 kWh
15701900	CorePro LED PLL EM/Mains 8W 840 4P	8 kWh

