



The new generation of energy-saving LED PLC tube lighting

CorePro LED PLC

Philips CorePro LED PLC is the ideal uplampping solution for downlights 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 lower energy consumption than conventional PLC lamps, as well as lower maintenance cost thanks to 2-3 times longer lifetime than conventional lamps
- Simple lamp-for-lamp replacement, re-using the existing fixture without major modifications, using a similar PLC form-factor
- Fastest and easiest way to upgrade existing luminaires to LED technology

Features

- Shatter-proof plastic
- High quality of light, no flickering or stroboscopic effect
- Instant 100% light
- Rotating end-caps
- Choice of 3000 K and 4000 K

Application

- CorePro LED PLC lamps are the ideal upgrade for downlights in a wide range of applications. These include reception areas, meeting rooms, corridor and hallways in offices, retail stores, hospitality venues and home applications.

CorePro LED PLC

Versions



8.5W G24q-3 4P



6.5W G24q-2 4P



8.5W G24d-3 2P



6.5W G24d-2 2P

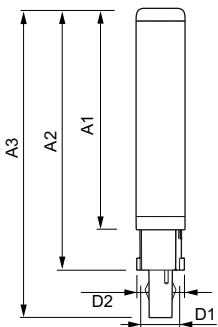
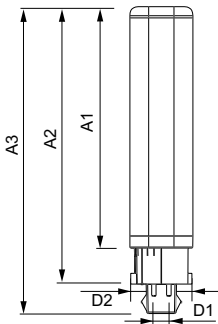


LEDtube G24D-1



LEDtube G24D-1

Dimensional drawing

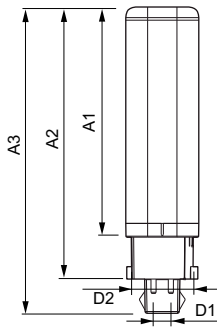
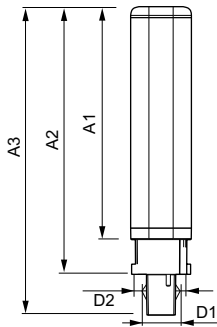


Product	D1	D2	A1	A2	A3
CorePro LED PLC 4.5W 840 4P G24q-1	24.3 mm	28.4 mm	95.8 mm	115 mm	130.6 mm
CorePro LED PLC 4.5W 830 4P G24q-1	24.3 mm	28.4 mm	95.8 mm	115 mm	130.6 mm
CorePro LED PLC 9W 840 4P G24q-3	24.3 mm	28.4 mm	128.8 mm	148 mm	163.6 mm
CorePro LED PLC 9W 830 4P G24q-3	24.3 mm	28.4 mm	128.8 mm	148 mm	163.6 mm

Product	D1	D2	A1	A2	A3
LED PLC 6.5W 865 2P G24d-2	24.3 mm	28.4 mm	105.8 mm	125 mm	147.6 mm
LED PLC 6.5W 830 2P G24d-2	24.3 mm	28.4 mm	105.8 mm	125 mm	147.6 mm
LED PLC 6.5W 840 2P G24d-2	24.3 mm	28.4 mm	105.8 mm	125 mm	147.6 mm
CorePro LED PLC 6.5W 830 2P G24d-2	24.3 mm	28.4 mm	105.8 mm	125 mm	147.6 mm
CorePro LED PLC 6.5W 840 2P G24d-2	24.3 mm	28.4 mm	105.8 mm	125 mm	147.6 mm

CorePro LED PLC

Dimensional drawing



Product	D1	D2	A1	A2	A3
LED PLC 8.5W 840 2P G24d-3	24.3 mm	28.4 mm	128.8 mm	148 mm	170.6 mm
LED PLC 8.5W 830 2P G24d-3	24.3 mm	28.4 mm	128.8 mm	148 mm	170.6 mm
CorePro LED PLC 8.5W 840 2P G24d-3	24.3 mm	28.4 mm	128.8 mm	148 mm	170.6 mm
CorePro LED PLC 8.5W 830 2P G24d-3	24.3 mm	28.4 mm	128.8 mm	148 mm	170.6 mm
CorePro LED PLC 4.5W 830 2P G24d-1	24.3 mm	28.4 mm	95.8 mm	115 mm	137.6 mm
CorePro LED PLC 4.5W 840 2P G24d-1	24.3 mm	28.4 mm	95.8 mm	115 mm	137.6 mm
LED PLC 8.5W 865 2P G24d-3	24.3 mm	28.4 mm	128.8 mm	148 mm	170.6 mm

Product	D1	D2	A1	A2	A3
CorePro LED PLC 6.5W 840 4P G24q-2	24.3 mm	28.4 mm	105.8 mm	125 mm	140.6 mm
CorePro LED PLC 6.5W 830 4P G24q-2	24.3 mm	28.4 mm	105.8 mm	125 mm	140.6 mm

Controls and Dimming

Dimmable	No
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Operating and Electrical

Starting Time (Nom)	0.5 s
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General Information

Nominal Lifetime (Nom)	30000 h
Rated Lifetime (Hours)	30000 h
Switching Cycle	50000X

Light Technical

Color Rendering Index (Nom)	83
Llmf At End Of Nominal Lifetime (Nom)	70 %

Temperature

T-Ambient (Max)	35 °C
T-Ambient (Min)	-20 °C
T-Storage (Max)	65 °C
T-Storage (Min)	-40 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929001200802	CorePro LED PLC 9W 830 4P G24q-3	12 kWh	A+
929001200902	CorePro LED PLC 9W 840 4P G24q-3	12 kWh	A+
929001201002	CorePro LED PLC 6.5W 830 4P G24q-2	9 kWh	A+
929001201102	CorePro LED PLC 6.5W 840 4P G24q-2	9 kWh	A+
929001201202	CorePro LED PLC 8.5W 830 2P G24d-3	11 kWh	A+
929001201208	LED PLC 8.5W 830 2P G24d-3	11 kWh	A+
929001201302	CorePro LED PLC 8.5W 840 2P G24d-3	11 kWh	A+
929001201308	LED PLC 8.5W 840 2P G24d-3	11 kWh	A+
929001280108	LED PLC 8.5W 865 2P G24d-3	11 kWh	A+
929001201402	CorePro LED PLC 6.5W 830 2P G24d-2	9 kWh	A+
929001201408	LED PLC 6.5W 830 2P G24d-2	9 kWh	A+
929001201502	CorePro LED PLC 6.5W 840 2P G24d-2	9 kWh	A+
929001201508	LED PLC 6.5W 840 2P G24d-2	9 kWh	A+
929001280208	LED PLC 6.5W 865 2P G24d-2	9 kWh	A+
929001350702	CorePro LED PLC 4.5W 830 2P G24d-1	5 kWh	A+++
929001350802	CorePro LED PLC 4.5W 840 2P G24d-1	5 kWh	A+++
929001351002	CorePro LED PLC 4.5W 830 4P G24q-1	6 kWh	A+
929001351102	CorePro LED PLC 4.5W 840 4P G24q-1	6 kWh	A+

Operating and Electrical

CorePro LED PLC

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001200802	CorePro LED PLC 9W 830 4P G24q-3	30000-80000 Hz	20-50 V	9 W
929001200902	CorePro LED PLC 9W 840 4P G24q-3	30000-80000 Hz	20-50 V	9 W
929001201002	CorePro LED PLC 6.5W 830 4P G24q-2	30000-80000 Hz	20-50 V	6.5 W
929001201102	CorePro LED PLC 6.5W 840 4P G24q-2	30000-80000 Hz	20-50 V	6.5 W
929001201202	CorePro LED PLC 8.5W 830 2P G24d-3	50 to 60 Hz	220-240 V	8.5 W
929001201208	LED PLC 8.5W 830 2P G24d-3	50 to 60 Hz	220-240 V	8.5 W
929001201302	CorePro LED PLC 8.5W 840 2P G24d-3	50 to 60 Hz	220-240 V	8.5 W
929001201308	LED PLC 8.5W 840 2P G24d-3	50 to 60 Hz	220-240 V	8.5 W
929001280108	LED PLC 8.5W 865 2P G24d-3	50 to 60 Hz	220-240 V	8.5 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001201402	CorePro LED PLC 6.5W 830 2P G24d-2	50 to 60 Hz	220-240 V	6.5 W
929001201408	LED PLC 6.5W 830 2P G24d-2	50 to 60 Hz	220-240 V	6.5 W
929001201502	CorePro LED PLC 6.5W 840 2P G24d-2	50 to 60 Hz	220-240 V	6.5 W
929001201508	LED PLC 6.5W 840 2P G24d-2	50 to 60 Hz	220-240 V	6.5 W
929001280208	LED PLC 6.5W 865 2P G24d-2	50 to 60 Hz	220-240 V	6.5 W
929001350702	CorePro LED PLC 4.5W 830 2P G24d-1	50 to 60 Hz	220-240 V	4.5 W
929001350802	CorePro LED PLC 4.5W 840 2P G24d-1	50 to 60 Hz	220-240 V	4.5 W
929001351002	CorePro LED PLC 4.5W 830 4P G24q-1	30000-80000 Hz	20-50 V	4.5 W
929001351102	CorePro LED PLC 4.5W 840 4P G24q-1	30000-80000 Hz	20-50 V	4.5 W

General Information

Order Code	Full Product Name	Cap-Base
929001200802	CorePro LED PLC 9W 830 4P G24q-3	G24Q-3
929001200902	CorePro LED PLC 9W 840 4P G24q-3	G24Q-3
929001201002	CorePro LED PLC 6.5W 830 4P G24q-2	G24Q-2
929001201102	CorePro LED PLC 6.5W 840 4P G24q-2	G24Q-2
929001201202	CorePro LED PLC 8.5W 830 2P G24d-3	G24D-3
929001201208	LED PLC 8.5W 830 2P G24d-3	G24D-3
929001201302	CorePro LED PLC 8.5W 840 2P G24d-3	G24D-3
929001201308	LED PLC 8.5W 840 2P G24d-3	G24D-3
929001280108	LED PLC 8.5W 865 2P G24d-3	G24D-3

Order Code	Full Product Name	Cap-Base
929001201402	CorePro LED PLC 6.5W 830 2P G24d-2	G24D-2
929001201408	LED PLC 6.5W 830 2P G24d-2	G24D-2
929001201502	CorePro LED PLC 6.5W 840 2P G24d-2	G24D-2
929001201508	LED PLC 6.5W 840 2P G24d-2	G24D-2
929001280208	LED PLC 6.5W 865 2P G24d-2	G24D-2
929001350702	CorePro LED PLC 4.5W 830 2P G24d-1	G24D-1
929001350802	CorePro LED PLC 4.5W 840 2P G24d-1	G24D-1
929001351002	CorePro LED PLC 4.5W 830 4P G24q-1	G24Q-1
929001351102	CorePro LED PLC 4.5W 840 4P G24q-1	G24Q-1

Light Technical

Order Code	Full Product Name	Correlated Color		Luminous Flux (Rated) (Nom)
		Color Code	Temperature (Nom)	
929001200802	CorePro LED PLC 9W 830 4P G24q-3	830	3000 K	950 lm
929001200902	CorePro LED PLC 9W 840 4P G24q-3	840	4000 K	1000 lm
929001201002	CorePro LED PLC 6.5W 830 4P G24q-2	830	3000 K	650 lm
929001201102	CorePro LED PLC 6.5W 840 4P G24q-2	840	4000 K	700 lm

Order Code	Full Product Name	Correlated Color		Luminous Flux (Rated) (Nom)
		Color Code	Temperature (Nom)	
929001201202	CorePro LED PLC 8.5W 830 2P G24d-3	830	3000 K	950 lm
929001201208	LED PLC 8.5W 830 2P G24d-3	830	3000 K	950 lm
929001201302	CorePro LED PLC 8.5W 840 2P G24d-3	840	4000 K	1000 lm
929001201308	LED PLC 8.5W 840 2P G24d-3	840	4000 K	1000 lm
929001280108	LED PLC 8.5W 865 2P G24d-3	865	6500 K	1000 lm

CorePro LED PLC

Order Code	Full Product Name	Color Code	Correlated Color		Luminous
			Temperature (Nom)	Luminous Flux (Nom)	Flux (Rated) (Nom)
929001201402	CorePro LED PLC 6.5W 830 2P G24d-2	830	3000 K	650 lm	650 lm
929001201408	LED PLC 6.5W 830 2P G24d-2	830	3000 K	650 lm	650 lm
929001201502	CorePro LED PLC 6.5W 840 2P G24d-2	840	4000 K	700 lm	700 lm
929001201508	LED PLC 6.5W 840 2P G24d-2	840	4000 K	700 lm	700 lm
929001280208	LED PLC 6.5W 865 2P G24d-2	865	6500 K	700 lm	700 lm

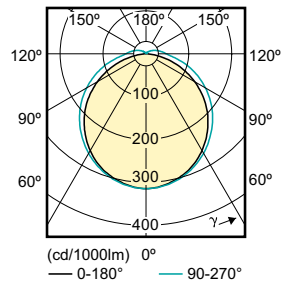
Order Code	Full Product Name	Color Code	Correlated Color		Luminous
			Temperature (Nom)	Luminous Flux (Nom)	Flux (Rated) (Nom)
929001350702	CorePro LED PLC 4.5W 830 2P G24d-1	830	3000 K	475 lm	475 lm
929001350802	CorePro LED PLC 4.5W 840 2P G24d-1	840	4000 K	500 lm	500 lm
929001351002	CorePro LED PLC 4.5W 830 4P G24q-1	830	3000 K	475 lm	475 lm
929001351102	CorePro LED PLC 4.5W 840 4P G24q-1	840	4000 K	500 lm	500 lm

Temperature

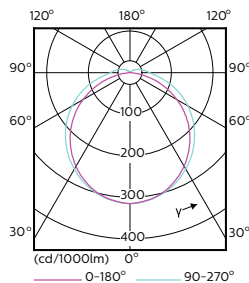
Order Code	Full Product Name	T-Case Maximum (Nom)
929001200802	CorePro LED PLC 9W 830 4P G24q-3	76 °C
929001200902	CorePro LED PLC 9W 840 4P G24q-3	76 °C
929001201002	CorePro LED PLC 6.5W 830 4P G24q-2	66 °C
929001201102	CorePro LED PLC 6.5W 840 4P G24q-2	66 °C
929001201202	CorePro LED PLC 8.5W 830 2P G24d-3	75 °C
929001201208	LED PLC 8.5W 830 2P G24d-3	75 °C
929001201302	CorePro LED PLC 8.5W 840 2P G24d-3	75 °C
929001201308	LED PLC 8.5W 840 2P G24d-3	75 °C
929001280108	LED PLC 8.5W 865 2P G24d-3	75 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929001201402	CorePro LED PLC 6.5W 830 2P G24d-2	65 °C
929001201408	LED PLC 6.5W 830 2P G24d-2	65 °C
929001201502	CorePro LED PLC 6.5W 840 2P G24d-2	65 °C
929001201508	LED PLC 6.5W 840 2P G24d-2	65 °C
929001280208	LED PLC 6.5W 865 2P G24d-2	65 °C
929001350702	CorePro LED PLC 4.5W 830 2P G24d-1	60 °C
929001350802	CorePro LED PLC 4.5W 840 2P G24d-1	60 °C
929001351002	CorePro LED PLC 4.5W 830 4P G24q-1	60 °C
929001351102	CorePro LED PLC 4.5W 840 4P G24q-1	60 °C

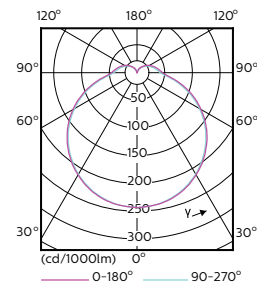
Light Distribution Diagrams



PLC /830, /840



LEDtube PLC 100mm 9W G24D-3 865 1000lm



LEDtube 100mm 5W G24D-1

