



# 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

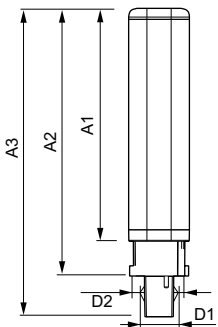
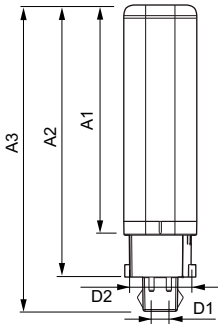


LEDtube G24D-1



LEDtube G24D-1

## Dimensional drawing

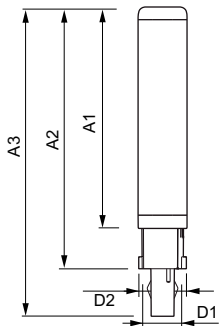
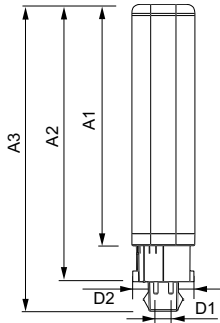


Product	D1	D2	A1	A2	A3
CorePro LED PLC 6.5W 840 4P G24q-2	24.3 mm	28.4 mm	105.8 mm	125 mm	140.6 mm
CorePro LED PLC 6.5W 830 4P G24q-2	24.3 mm	28.4 mm	105.8 mm	125 mm	140.6 mm

Product	D1	D2	A1	A2	A3
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
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

## Dimensional drawing



Product	D1	D2	A1	A2	A3
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
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 4.5W 840 4P G24q-1	24.3 mm	28.4 mm	95.8 mm	115 mm	130.6 mm

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

### 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	Energy Efficiency Label
		h	(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)
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)
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)
		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)
		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 Flux (Rated) (Nom)
			Temperature (Nom)	Luminous Flux (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

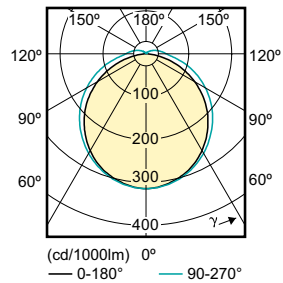
Order Code	Full Product Name	Color Code	Correlated Color		Luminous Flux (Rated) (Nom)
			Temperature (Nom)	Luminous Flux (Nom)	
929001350702	CorePro LED PLC 4.5W 830 2P G24d-1	830	3000 K	475 lm	475 lm
929001350802	CorePro LED PLC 4.5W 840 2P G24d-1	840	4000 K	500 lm	500 lm
929001351002	CorePro LED PLC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

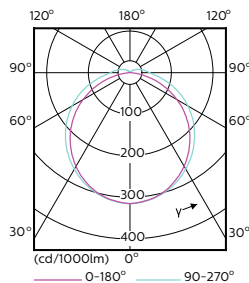
Order Code	Full Product Name	T-Case Maximum (Nom)
929001200802	CorePro LED PLC 9W 830 4P G24q-3	76 °C
929001200902	CorePro LED PLC 9W 840 4P G24q-3	76 °C
929001201002	CorePro LED PLC 6.5W 830 4P G24q-2	66 °C
929001201102	CorePro LED PLC 6.5W 840 4P G24q-2	66 °C
929001201202	CorePro LED PLC 8.5W 830 2P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

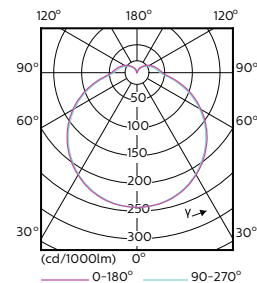
## Light Distribution Diagrams



PLC /830, /840



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



LEDtube 100mm 5W G24D-1

