



# The new generation of energy-saving LED PLL tube lighting

## CorePro LED PLL

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.

### 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-Urban-PLL-Mains-13W

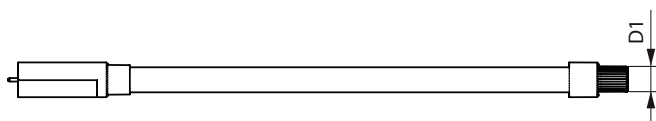
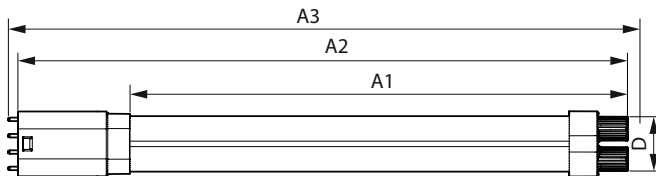
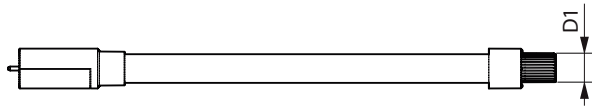
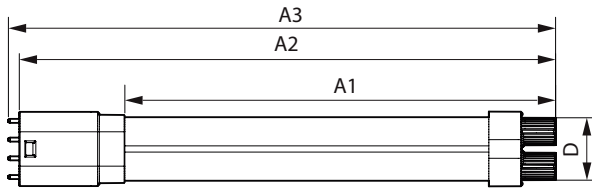


LEDtube COR PLL EU 12W 2G11



CorePro-LED-Urban-PLL-Mains-18W

## Dimensional drawing



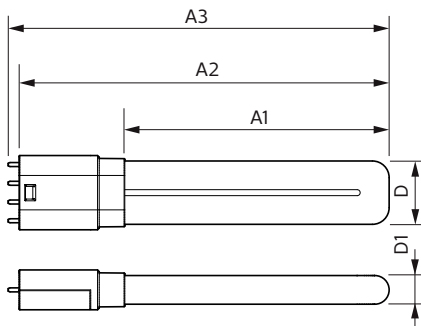
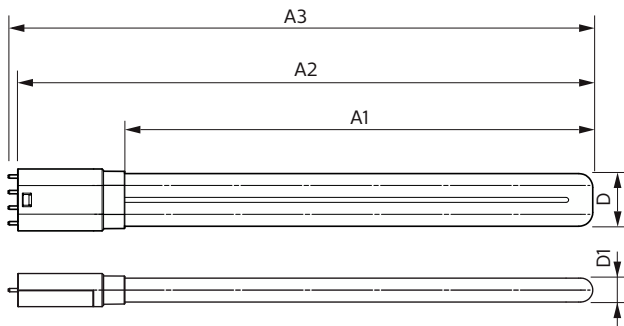
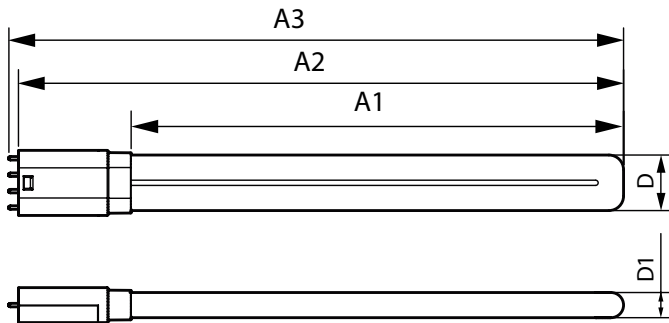
Product	D1	D2	A1	A2	A3
CorePro LED Urban PLL Mains 13W 830	17 mm	37 mm	253 mm	315 mm	321 mm
CorePro LED Urban PLL Mains 13W 840	17 mm	37 mm	253 mm	315 mm	321 mm

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
CorePro LED PLL EM/Mains 16.5W 840 4P	17 mm	38 mm	330 mm	405 mm	412 mm

Product	D1	D2	A1	A2	A3
CorePro LED Urban PLL Mains 18W 830	17 mm	37 mm	335 mm	410 mm	416 mm
CorePro LED Urban PLL Mains 18W 840	17 mm	37 mm	335 mm	410 mm	416 mm

# CorePro LED PLL

## Dimensional drawing



Product	D1	D	A1	A2	A3
CorePro LED PLL HF 16.5W 830 4P 2G11	17 mm	38 mm	330 mm	405 mm	412 mm
CorePro LED PLL HF 16.5W 840 4P 2G11	17 mm	38 mm	330 mm	405 mm	412 mm
CorePro LED PLL HF 16.5W 865 4P 2G11	17 mm	38 mm	330 mm	405 mm	412 mm

Product	D1	D2	A1	A2	A3
CorePro LED PLL EM/Mains 12W 830 4P	17 mm	38 mm	250 mm	312 mm	319 mm
CorePro LED PLL EM/Mains 12W 840 4P	17 mm	38 mm	250 mm	312 mm	319 mm
CorePro LED PLL HF 12W 830 4P 2G11	17 mm	38 mm	250 mm	312 mm	319 mm
CorePro LED PLL HF 12W 840 4P 2G11	17 mm	38 mm	250 mm	312 mm	319 mm
CorePro LED PLL HF 24W 830 4P 2G11	17 mm	38 mm	453 mm	528 mm	535 mm
CorePro LED PLL HF 24W 840 4P 2G11	17 mm	38 mm	453 mm	528 mm	535 mm
CorePro LED PLL Mains 24W 830 4P	17 mm	38 mm	453 mm	528 mm	535 mm
CorePro LED PLL Mains 24W 840 4P	17 mm	38 mm	453 mm	528 mm	535 mm

Product	D1	D2	A1	A2	A3
CorePro LED PLL EM/Mains 8W 830 4P	17 mm	38 mm	156 mm	218 mm	224 mm
CorePro LED PLL EM/Mains 8W 840 4P	17 mm	38 mm	156 mm	218 mm	224 mm
CorePro LED PLL HF 8W 830 4P 2G11	17 mm	38 mm	155 mm	217 mm	224 mm
CorePro LED PLL HF 8W 840 4P 2G11	17 mm	38 mm	155 mm	217 mm	224 mm

# CorePro LED PLL

General Information	
Cap-Base	2G11
Nominal lifetime	30,000 hour(s)
Light Technical	
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
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
15711800	CorePro LED PLL Mains 24W 830 4P	200,000
15713200	CorePro LED PLL Mains 24W 840 4P	200,000
28716700	CorePro LED Urban PLL Mains 13W 830	200,000
28718100	CorePro LED Urban PLL Mains 13W 840	200,000

Order Code	Full Product Name	Switching Cycle
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
28720400	CorePro LED Urban PLL Mains 18W 830	200,000
28722800	CorePro LED Urban PLL Mains 18W 840	200,000

## Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	160 degree(s)	3000 K	83	830	2,000 lm
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	160 degree(s)	4000 K	83	840	2,100 lm
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	160 degree(s)	6500 K	83	865	2,100 lm
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	160 degree(s)	3000 K	80	830	2,000 lm
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	160 degree(s)	4000 K	80	840	2,100 lm
82839700	CorePro LED PLL HF 24W 830 4P 2G11	160 degree(s)	3000 K	83	830	3,200 lm
82841000	CorePro LED PLL HF 24W 840 4P 2G11	160 degree(s)	4000 K	83	840	3,400 lm
15711800	CorePro LED PLL Mains 24W 830 4P	160 degree(s)	3000 K	80	830	3,200 lm
15713200	CorePro LED PLL Mains 24W 840 4P	160 degree(s)	4000 K	80	840	3,400 lm
28716700	CorePro LED Urban PLL Mains 13W 830	360 degree(s)	3000 K	80	830	1,520 lm
28718100	CorePro LED Urban PLL Mains 13W 840	360 degree(s)	4000 K	80	840	1,600 lm
48680500	CorePro LED PLL HF 12W 830 4P 2G11	160 degree(s)	3000 K	80	830	1,440 lm
48682900	CorePro LED PLL HF 12W 840 4P 2G11	160 degree(s)	4000 K	80	840	1,500 lm
15703300	CorePro LED PLL EM/Mains 12W 830 4P	160 degree(s)	3000 K	80	830	1,440 lm
15705700	CorePro LED PLL EM/Mains 12W 840 4P	160 degree(s)	4000 K	80	840	1,500 lm
48676800	CorePro LED PLL HF 8W 830 4P 2G11	160 degree(s)	3000 K	80	830	960 lm
48678200	CorePro LED PLL HF 8W 840 4P 2G11	160 degree(s)	4000 K	80	840	1,000 lm

# CorePro LED PLL

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
15699900	CorePro LED PLL EM/Mains 8W 830 4P	160 degree(s)	3000 K	80	830	960 lm
15701900	CorePro LED PLL EM/Mains 8W 840 4P	160 degree(s)	4000 K	80	840	1,000 lm
28720400	CorePro LED Urban PLL Mains 18W 830	360 degree(s)	3000 K	80	830	2,100 lm
28722800	CorePro LED Urban PLL Mains 18W 840	360 degree(s)	4000 K	80	840	2,300 lm

## Operating and Electrical

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
15711800	CorePro LED PLL Mains 24W 830 4P	50 to 60 Hz	50 to 60 Hz	24 W
15713200	CorePro LED PLL Mains 24W 840 4P	50 to 60 Hz	50 to 60 Hz	24 W
28716700	CorePro LED Urban PLL Mains 13W 830	50 to 60 Hz	-	13 W
28718100	CorePro LED Urban PLL Mains 13W 840	50 to 60 Hz	-	13 W

Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
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
28720400	CorePro LED Urban PLL Mains 18W 830	50 to 60 Hz	-	18 W
28722800	CorePro LED Urban PLL Mains 18W 840	50 to 60 Hz	-	18 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

Order Code	Full Product Name	T-Case Maximum (Nom)
82839700	CorePro LED PLL HF 24W 830 4P 2G11	70 °C
82841000	CorePro LED PLL HF 24W 840 4P 2G11	70 °C
15711800	CorePro LED PLL Mains 24W 830 4P	75 °C
15713200	CorePro LED PLL Mains 24W 840 4P	75 °C
28716700	CorePro LED Urban PLL Mains 13W 830	60 °C

## CorePro LED PLL

Order Code	Full Product Name	T-Case Maximum (Nom)
28718100	CorePro LED Urban PLL Mains 13W 840	60 °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

Order Code	Full Product Name	T-Case Maximum (Nom)
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
28720400	CorePro LED Urban PLL Mains 18W 830	55 °C
28722800	CorePro LED Urban PLL Mains 18W 840	55 °C

### Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	Frosted
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	Frosted
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	Frosted
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	Frosted
82841000	CorePro LED PLL HF 24W 840 4P 2G11	Frosted
15711800	CorePro LED PLL Mains 24W 830 4P	Frosted
15713200	CorePro LED PLL Mains 24W 840 4P	Frosted
28716700	CorePro LED Urban PLL Mains 13W 830	Clear
28718100	CorePro LED Urban PLL Mains 13W 840	Clear

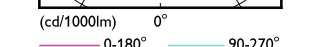
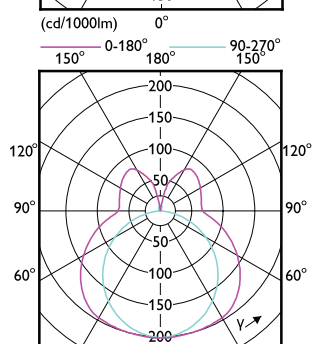
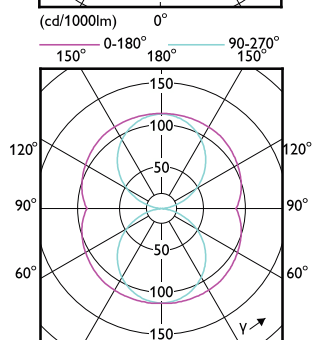
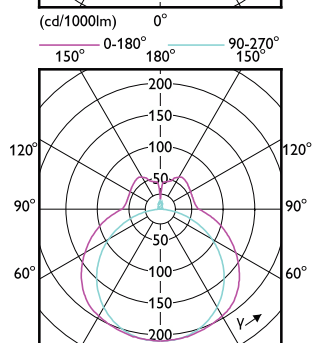
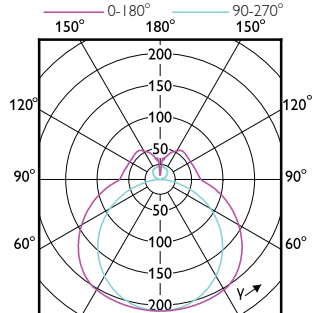
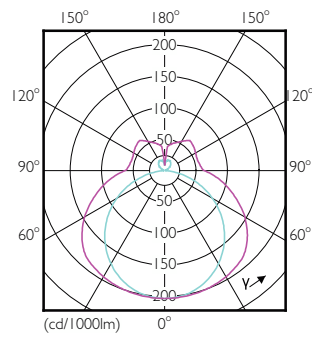
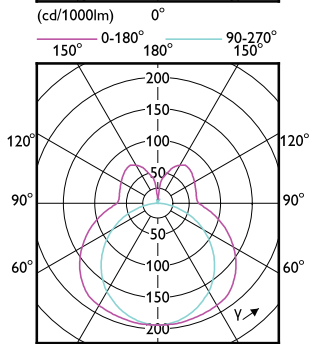
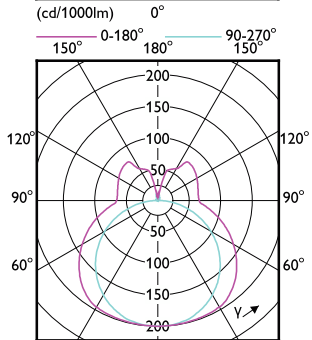
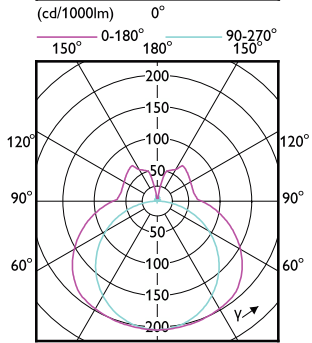
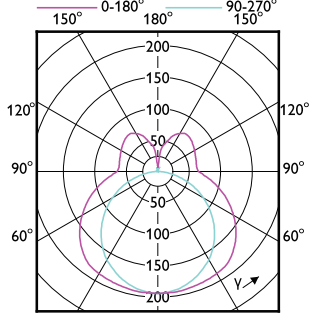
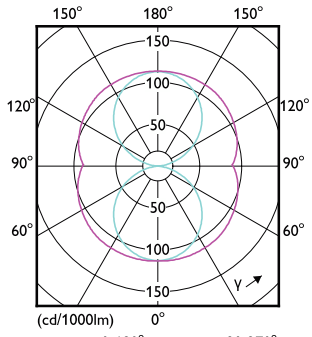
Order Code	Full Product Name	Bulb Finish
48680500	CorePro LED PLL HF 12W 830 4P 2G11	Frosted
48682900	CorePro LED PLL HF 12W 840 4P 2G11	Frosted
15703300	CorePro LED PLL EM/Mains 12W 830 4P	Frosted
15705700	CorePro LED PLL EM/Mains 12W 840 4P	Frosted
48676800	CorePro LED PLL HF 8W 830 4P 2G11	Frosted
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
28720400	CorePro LED Urban PLL Mains 18W 830	Clear
28722800	CorePro LED Urban PLL Mains 18W 840	Clear

### Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
73966200	CorePro LED PLL HF 16.5W 830 4P 2G11	-20 °C to 45 °C	17 kWh
73974700	CorePro LED PLL HF 16.5W 840 4P 2G11	-20 °C to 45 °C	17 kWh
73976100	CorePro LED PLL HF 16.5W 865 4P 2G11	-20 °C to 45 °C	17 kWh
15707100	CorePro LED PLL EM/Mains 16.5W 830 4P	-20 °C to 45 °C	17 kWh
15709500	CorePro LED PLL EM/Mains 16.5W 840 4P	-20 °C to 45 °C	17 kWh
82839700	CorePro LED PLL HF 24W 830 4P 2G11	-20 °C to 45 °C	24 kWh
82841000	CorePro LED PLL HF 24W 840 4P 2G11	-20 °C to 45 °C	24 kWh
15711800	CorePro LED PLL Mains 24W 830 4P	-20 °C to 45 °C	24 kWh
15713200	CorePro LED PLL Mains 24W 840 4P	-20 °C to 45 °C	24 kWh
28716700	CorePro LED Urban PLL Mains 13W 830	-30 to +45 °C	13 kWh
28718100	CorePro LED Urban PLL Mains 13W 840	-30 to +45 °C	13 kWh
48680500	CorePro LED PLL HF 12W 830 4P 2G11	-20 °C to 45 °C	12 kWh

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
48682900	CorePro LED PLL HF 12W 840 4P 2G11	-20 °C to 45 °C	12 kWh
15703300	CorePro LED PLL EM/Mains 12W 830 4P	-20 °C to 45 °C	12 kWh
15705700	CorePro LED PLL EM/Mains 12W 840 4P	-20 °C to 45 °C	12 kWh
48676800	CorePro LED PLL HF 8W 830 4P 2G11	-20 °C to 45 °C	8 kWh
48678200	CorePro LED PLL HF 8W 840 4P 2G11	-20 °C to 45 °C	8 kWh
15699900	CorePro LED PLL EM/Mains 8W 830 4P	-20 °C to 45 °C	8 kWh
15701900	CorePro LED PLL EM/Mains 8W 840 4P	-20 °C to 45 °C	8 kWh
28720400	CorePro LED Urban PLL Mains 18W 830	-30 to +45 °C	18 kWh
28722800	CorePro LED Urban PLL Mains 18W 840	-30 to +45 °C	18 kWh

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