



# CorePro LEDtube EM/ Mains

CorePro LEDtube 1500mm 20W 840 C G

The CorePro LEDtube is an affordable LED solution suitable for replacing T8 fluorescent lamps. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings – an environmentally friendly solution.

## Product data

### • General Information

Cap-Base	G13 [ G13 Medium Bi-Pin Fluorescent]
Main Application	Industrial
Nominal Lifetime (Nom)	30000 h
Switching Cycle B50L70	200000X 30000

### • Light Technical

Color Code	840 [ CCT of 4000K (841)]
Beam Angle (Nom)	240 °
Luminous Flux (Nom)	2000 lm
Luminous Flux (Rated) (Nom)	2000 lm
Rated Beam Angle	240 °
Correlated Color Temperature (Nom)	4000 K
Color Consistency	6 steps
Color Rendering Index (Nom)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

### • Operating and Electrical

Input Frequency	50 to 60 Hz
Power (Rated) (Nom)	20 W
Lamp Current (Max)	92 mA
Lamp Current (Min)	81 mA
Wattage Equivalent	58 W
Starting Time (Nom)	0.5 s

Warm Up Time To 60% Light (Nom)	instant full light s
Power Factor (Min)	0.9
Voltage (Nom)	220-240 V

### • Temperature

T-Ambient (Max)	45 °C
T-Ambient (Min)	-20 °C
T-Storage (Max)	65 °C
T-Storage (Min)	-40 °C
T-Case Maximum (Nom)	65 °C

### • Controls and Dimming

Dimmable	No
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### • Mechanical and Housing

Product Length	1500 mm
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### • Approval and Application

Energy Saving Product	Yes
Suitable For Accent Lighting	No
Energy Efficiency Label (EEL)	A+
Approval Marks	CE marking RoHS compliance KEMA Keur certificate
Energy Consumption kWh/1000 h	20 kWh

# PHILIPS

# CorePro LEDtube EM/Mains

## • Product Data

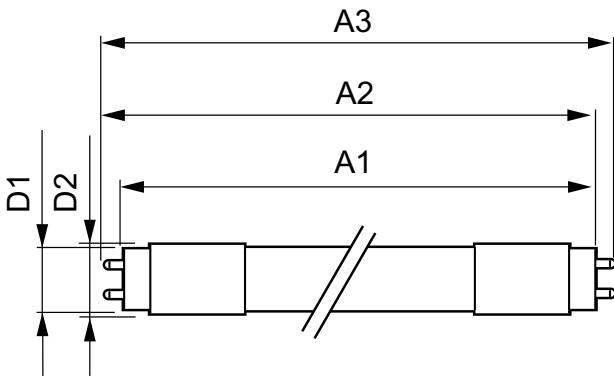
Full product code 871869656608400  
Order product name CorePro LEDtube 1500mm 20W 840 C G  
EAN/UPC - Product 8718696566084  
Order code 929001221402

Numerator - Quantity Per Pack 1  
Numerator - Packs per outer box 10  
Material Nr. (12NC) 929001221402  
Net Weight (Piece) 0.275 kg

## Warnings and Safety

- NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

## Dimensional drawing



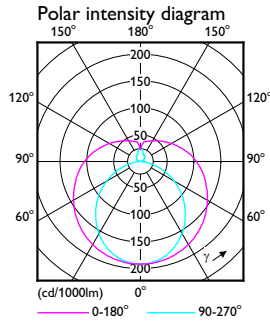
## TLED 5ft 220-240V 20W-58W 4000K G13 ND

Product	D1	D2	A1	A2	A3
CorePro LEDtube 1500mm 20W 840 C G	25.68 mm	28 mm	1500 mm	1507 mm	1514 mm

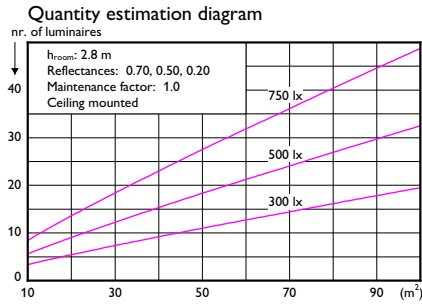
General Uniform Lighting

1 x TLED 20W 4000K 240D 9290012214

1 x 2000 lm



Light output ratio 1.00  
 Service upward 0.27  
 Service downward 0.73  
 CIE flux code 36 64 85 73 100  
 UGRcen (4Hx8H, 0.25H) 23

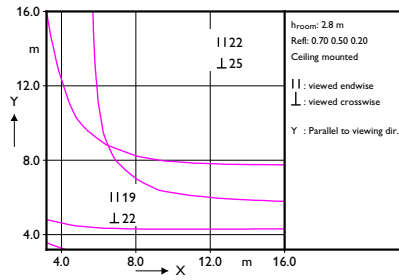


Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00
0.50	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.00	0.00	0.00
0.30	0.10	0.30	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.00	0.00
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.27	0.22	0.25	0.21	0.17	0.17
0.80	0.50	0.47	0.47	0.46	0.44	0.37	0.34	0.29	0.31	0.27	0.22	0.22
1.00	0.58	0.53	0.54	0.53	0.51	0.43	0.40	0.35	0.36	0.32	0.27	0.27
1.25	0.65	0.60	0.62	0.59	0.57	0.50	0.46	0.41	0.42	0.38	0.31	0.31
1.50	0.72	0.65	0.67	0.65	0.62	0.55	0.50	0.45	0.46	0.42	0.35	0.35
2.00	0.81	0.72	0.76	0.72	0.69	0.63	0.57	0.53	0.52	0.49	0.41	0.41
2.50	0.87	0.77	0.82	0.78	0.74	0.68	0.62	0.58	0.57	0.54	0.46	0.46
3.00	0.92	0.81	0.86	0.81	0.77	0.72	0.66	0.62	0.60	0.57	0.49	0.49
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53	0.53
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56	0.56

Ceiling mounted

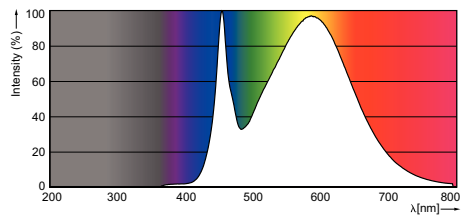
UGR diagram



Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Ceiling	5495	5471	5453	5506	5725	6324	7705
45.0	5312	5272	5228	5238	5392	5924	7421
50.0	5149	5104	5029	4969	5056	5498	7076
55.0	5020	4965	4871	4775	4744	5056	6702
60.0	4913	4863	4737	4589	4452	4585	6213
65.0	4841	4793	4645	4454	4217	4100	5635
70.0	4821	4772	4612	4392	4040	3624	4885
75.0	4838	4780	4637	4379	3938	3164	3757
80.0	4877	4799	4672	4435	3924	2860	2184
85.0	4957	4881	4746	4519	4055	2890	1913
90.0							

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