PHILIPS

Lighting




# CorePro LEDtube InstantFit HF

## CorePro LEDtube HF 600mm 9W840 T8 G

CorePro LEDtube InstantFit HF is an affordable LED solutionsuitable for replacing T8 fluorescent lamps. It provides a natural lighting effect for use in general lightingapplications, as well as instant energy savings – anenvironmentally friendly solution.

### Product data

| General Information | |
|---|---|
| **Cap-Base** | G13 [ Medium Bi-Pin Fluorescent] |
| **Nominal Lifetime (Nom)** | 30000 h |
| **Switching Cycle** | 50000X |
| **B50L70** | 30000 h |

| Light Technical | |
|---|---|
| **Color Code** | 840 [ CCT of 4000K (841)] |
| **Beam Angle (Nom)** | 240 ° |
| **Luminous Flux (Nom)** | 800 lm |
| **Luminous Flux (Rated) (Nom)** | 800 lm |
| **Color Designation** | Cool White (CW) |
| **Rated Beam Angle** | 240 ° |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 89.00 lm/W |
| **Color Consistency** | <6 |
| **Color Rendering Index (Nom)** | 83 |
| **LLMF At End Of Nominal Lifetime (Nom)** | 70 % |

| Operating and Electrical | |
|---|---|
| **Power (Rated) (Nom)** | 9 W |
| **Lamp Current (Max)** | 400 mA |
| **Lamp Current (Min)** | 200 mA |
| **Wattage Equivalent** | 18 W |
| **Starting Time (Nom)** | 0.5 s |
| **Warm Up Time To 60% Light (Nom)** | 0.5 s |
| **Voltage (Nom)** | 30-80 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)** | 60 °C |

| Controls and Dimming | |
|---|---|
| **Dimmable** | No |

# CorePro LEDtube InstantFit HF

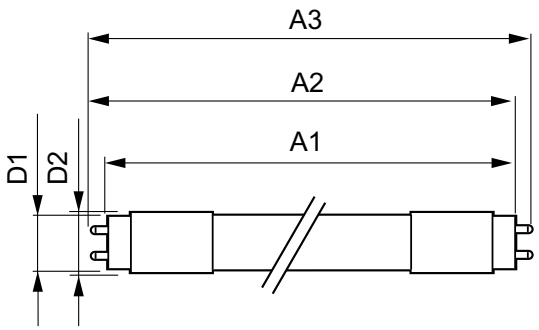
| Mechanical and Housing | |
|---|---|
| **Product Length** | 600 mm |

| Approval and Application | |
|---|---|
| **Energy Saving Product** | Yes |
| **Energy Efficiency Label (EEL)** | A |
| **Approval Marks** | TUV CE marking RoHS compliance KEMA Keur certificate |
| **Energy Consumption kWh/1000 h** | 12 kWh |

| Product Data | |
|---|---|
| **Full product code** | 871869665217600 |

| | |
|---|---|
| **Order product name** | CorePro LEDtube HF 600mm 9W840 T8 G |
| **EAN/UPC - Product** | 8718696652176 |
| **Order code** | 929001249502 |
| **Numerator - Quantity Per Pack** | 1 |
| **Numerator - Packs per outer box** | 10 |
| **Material Nr. (12NC)** | 929001249502 |
| **Net Weight (Piece)** | 0.160 kg |

## Dimensional drawing




CorePro LEDtube HF 600mm 9W840 T8 G

| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| CorePro LEDtube HF 600mm 9W840 T8 G | 27.9 mm | 28 mm | 589.8 mm | 595.7 mm | 604 mm |

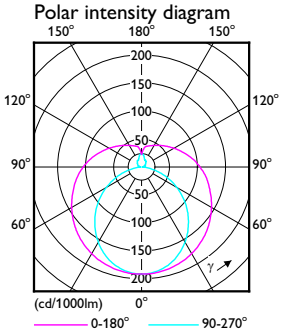
## Photometric data

# General Uniform Lighting

**1 x TLED 9W 4000K 240D 9290012495**

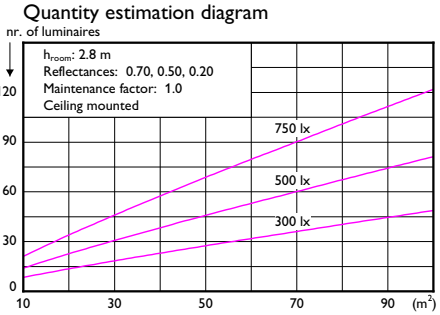
1 x 800 lm

### Polar intensity diagram

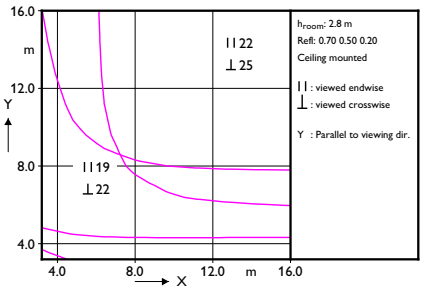



| | |
|---|---|
| Light output ratio | 1.00 |
| Service upward | 0.27 |
| Service downward | 0.73 |
| CIE flux code | 36 64 85 73 100 |
| UGRcen (4Hx8H, 0.25H) | 23 |

### Quantity estimation diagram




### UGR diagram




### 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 |
| | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.30 | 0.30 | 0.10 | 0.30 | 0.10 | 0.00 |
| | 0.30 | 0.10 | 0.30 | 0.20 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 |
| 0.60 | 0.40 | 0.38 | 0.38 | 0.37 | 0.36 | 0.29 | 0.27 | 0.22 | 0.25 | 0.21 | 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 |
| 1.00 | 0.58 | 0.53 | 0.54 | 0.53 | 0.51 | 0.43 | 0.40 | 0.35 | 0.36 | 0.32 | 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 |
| 1.50 | 0.72 | 0.65 | 0.67 | 0.65 | 0.62 | 0.55 | 0.50 | 0.45 | 0.46 | 0.42 | 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 |
| 2.50 | 0.87 | 0.77 | 0.82 | 0.78 | 0.74 | 0.68 | 0.62 | 0.58 | 0.57 | 0.54 | 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 |
| 4.00 | 0.98 | 0.85 | 0.92 | 0.86 | 0.81 | 0.77 | 0.71 | 0.67 | 0.65 | 0.62 | 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 |

Ceiling mounted

### Luminance Table

| Plane / Cone | 0.0 | 15.0 | 30.0 | 45.0 | 60.0 | 75.0 | 90.0 |
|---|---|---|---|---|---|---|---|
| 45.0 | 5497 | 5452 | 5413 | 5442 | 5634 | 6191 | 7496 |
| 50.0 | 5311 | 5251 | 5188 | 5171 | 5300 | 5785 | 7185 |
| 55.0 | 5150 | 5083 | 4987 | 4919 | 4955 | 5348 | 6810 |
| 60.0 | 5020 | 4941 | 4827 | 4706 | 4643 | 4898 | 6399 |
| 65.0 | 4914 | 4838 | 4690 | 4513 | 4345 | 4426 | 5877 |
| 70.0 | 4839 | 4767 | 4594 | 4372 | 4104 | 3936 | 5245 |
| 75.0 | 4821 | 4743 | 4553 | 4304 | 3918 | 3448 | 4446 |
| 80.0 | 4840 | 4749 | 4577 | 4287 | 3803 | 2983 | 3280 |
| 85.0 | 4879 | 4767 | 4606 | 4332 | 3768 | 2656 | 1737 |
| 90.0 | 4958 | 4845 | 4672 | 4399 | 3866 | 2625 | 765 |

(cd/m²)

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2017, February 6 - data subject to change