

# CorePro LED tube Universal T8



## CorePro LEDtube UN 1500mm HO 23W830 T8

CorePro, LEDtube, T8, UN, 1500 mm, 23 W, 58W TL-D, 3000 K, 2500 lm, CRI 80, 50000 hour(s)

The new Philips CorePro LEDtube Universal T8 brings simplicity to your lighting project. You don't need to pay attention to the driver technology anymore. Thanks to a unique design, Philips CorePro LEDtube Universal T8 directly fits in luminaires operating either on Electro Magnetic ballasts or HF Electronic ballasts or mains power connection. So simple to operate and no need to carry double stock of products! Perfectly safe, reliable & easy to install Philips CorePro LEDtube Universal T8 is the ideal alternative to standard fluorescent tubes to save energy and lower investment.

### Product data

| General Information        |                |
|----------------------------|----------------|
| Cap-Base                   | G13            |
| Nominal lifetime           | 50,000 hour(s) |
| Switching Cycle            | 50,000         |
| Lighting Technology        | LEDtube        |
| Flux measurement reference | Sphere         |

| Light Technical                    |                    |
|------------------------------------|--------------------|
| Color Code                         | 830 [CCT of 3000K] |
| Beam Angle (Nom)                   | 240 degree(s)      |
| Luminous Flux                      | 2,500 lm           |
| Color Designation                  | White (WH)         |
| Correlated Color Temperature (Nom) | 3000 K             |

|                                              |          |
|----------------------------------------------|----------|
| Luminous Efficacy (rated) (Nom)              | 108 lm/W |
| Color Consistency                            | <6       |
| Color rendering index (CRI)                  | 80       |
| LLMF At End Of Nominal Lifetime (Nom)        | 70 %     |
| Photobiological safety according to EN 62471 | RG0      |

| Operating and Electrical  |             |
|---------------------------|-------------|
| Line Frequency            | 50 to 60 Hz |
| Input Frequency           | 50 to 60 Hz |
| Power Consumption         | 23 W        |
| Lamp Current (Nom)        | 130 mA      |
| Starting Time (Nom)       | 0.5 s       |
| Warm-up time to 60% light | 0.5 s       |

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|                                                                              |           |
|------------------------------------------------------------------------------|-----------|
| Power Factor (Fraction)                                                      | 0.9       |
| Voltage (Nom)                                                                | 220-240 V |
| LED alternative to fluorescent lamp power                                    | 58W TL-D  |
| Inrush current at mains                                                      | 9.6       |
| Max. lamp no. on MCB B type 10A – Mains                                      | 80        |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | 80        |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.    | 16        |
| Max. lamp no. on MCB B type 16A – Mains                                      | 128       |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 128       |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.    | 25        |
| Ballast Compatibility                                                        | UN        |

Temperature

|                      |       |
|----------------------|-------|
| T-Case Maximum (Nom) | 60 °C |
|----------------------|-------|

Controls and Dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

Mechanical and Housing

|                    |          |
|--------------------|----------|
| Bulb Finish        | Frosted  |
| Bulb Material      | Glass    |
| Product Length     | 1,500 mm |
| Bulb Shape         | T8       |
| Net Weight (Piece) | 0.270 kg |

Approval and Application

|                         |   |
|-------------------------|---|
| Energy Efficiency Class | F |
|-------------------------|---|

|                                                                 |                                                     |
|-----------------------------------------------------------------|-----------------------------------------------------|
| Energy Saving Product                                           | Yes                                                 |
| Approval Marks                                                  | RoHS compliance CE marking<br>KEMA Keur certificate |
| Energy Consumption kWh/1000 h                                   | 23 kWh                                              |
| EPREL Registration Number                                       | 1936623                                             |
| CE mark                                                         | Yes                                                 |
| EU RoHS compliant                                               | Yes                                                 |
| Flickering value (PstLM) – Flickering value as per EN 61000-3-3 | 1                                                   |
| Stroboscopic effect visibility measure (SVM)                    | 0.4                                                 |
| Ambient temperature range                                       | -20 to +45 °C                                       |

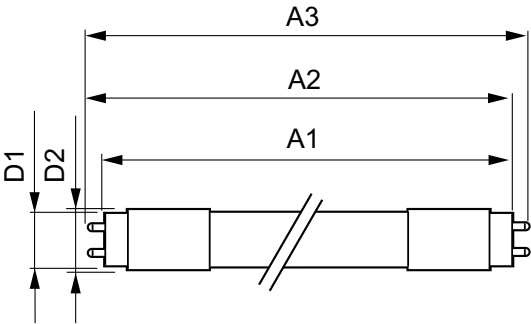
Application Conditions

|                                     |     |
|-------------------------------------|-----|
| can it be used in closed luminaires | Yes |
|-------------------------------------|-----|

Product Data

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Order product name              | CorePro LEDtube UN 1500mm HO 23W830 T8 |
| Full product name               | CorePro LEDtube UN 1500mm HO 23W830 T8 |
| Full product code               | 871869680172700                        |
| Order code                      | 929001869502                           |
| Material Nr. (12NC)             | 929001869502                           |
| Numerator - Quantity Per Pack   | 1                                      |
| EAN/UPC - Product/Case          | 8718696801727                          |
| Numerator - Packs per outer box | 10                                     |
| EAN/UPC - Case                  | 8718696801734                          |

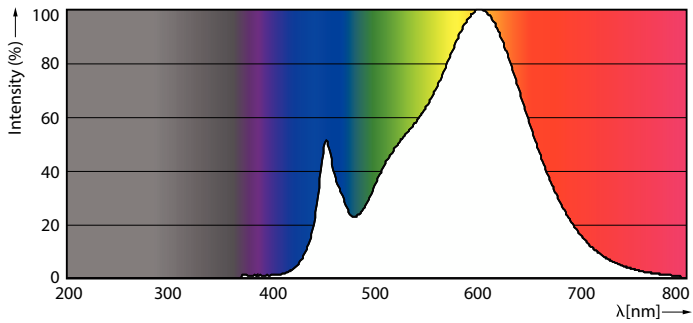
Dimensional drawing



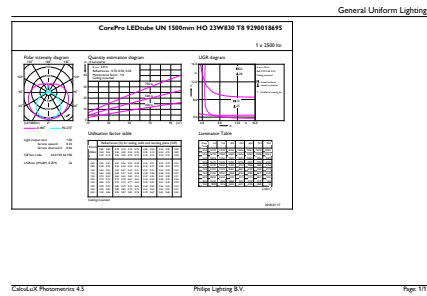
| Product                                | D1      | D2    | A1       | A2         | A3         |
|----------------------------------------|---------|-------|----------|------------|------------|
| CorePro LEDtube UN 1500mm HO 23W830 T8 | 27.9 mm | 28 mm | 1,500 mm | 1,505.9 mm | 1,514.2 mm |

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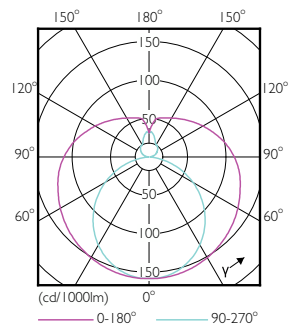
Photometric data



Spectral Power Distribution Colour - CorePro LEDtube UN 1500mm HO 23W830 T8

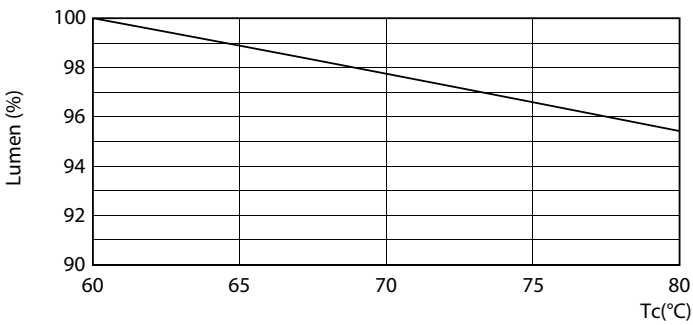


General uniform lighting - CorePro LEDtube UN 1500mm HO 23W830 T8

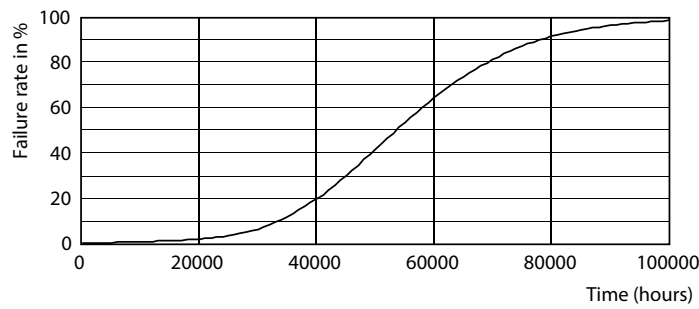


Light Distribution Diagram - CorePro LEDtube UN 1500mm HO 23W830 T8

Lifetime



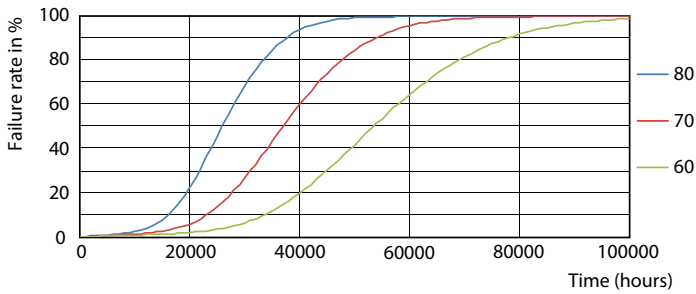
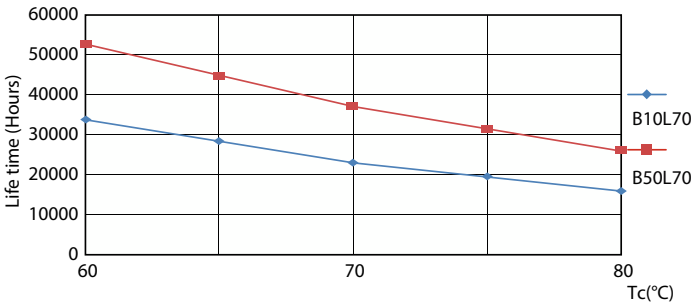
Lumen Maintenance Diagram - CorePro LEDtube UN 1500mm HO 23W830 T8



Life Expectancy Diagram

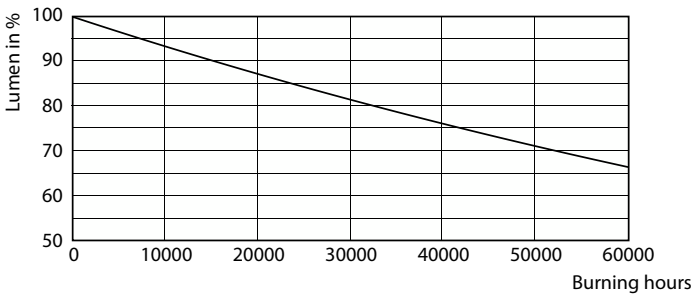
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Lifetime



LifetimeVsTc

FailureRate



Lumen Maintenance Diagram - CorePro LEDtube UN 1500mm HO 23W830 T8

