



# LED InstantFit Lamps

16.5T8/LED/48/835 IF 10/1

Philips InstantFit LED T8 - 4' Ultra High Output (16.5W / 2500 lm / 3500K)

Philips LED T8 InstantFit Lamps are an ideal energy saving choice for existing linear fluorescent fixtures.

## Product data

### • General Information

|                        |                                |
|------------------------|--------------------------------|
| Cap-Base               | Medium Bi-Pin [ Medium Bi-Pin] |
| Nominal Lifetime (Nom) | 70000 h                        |
| Switching Cycle        | 50000X                         |

### • Light Technical

|                                       |                     |
|---------------------------------------|---------------------|
| Color Code                            | 835 [ CCT of 3500K] |
| Beam Angle (Nom)                      | 160 °               |
| Initial lumen (Nom)                   | 2400 lm             |
| Luminous Flux (Rated) (Nom)           | 2400 lm             |
| Rated Beam Angle                      | 160 °               |
| Correlated Color Temperature (Nom)    | 3500 K              |
| Color Consistency                     | 6 steps             |
| Color Rendering Index (Nom)           | 82                  |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %                |

### • Operating and Electrical

|                                 |                               |
|---------------------------------|-------------------------------|
| Input Frequency                 | 50 to 60 Hz                   |
| Power (Rated) (Nom)             | 16.5 W                        |
| Lamp Current (Max)              | 350 mA                        |
| Lamp Current (Min)              | 110 mA                        |
| Starting Time (Max)             | 0.5 s                         |
| Warm Up Time To 60% Light (Max) | 0.1 s                         |
| Power Factor (Min)              | 0.9                           |
| Voltage (Nom)                   | 120-277 (ballast dependent) V |

### • Temperature

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

### • Controls and Dimming

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

### • Mechanical and Housing

|                |         |
|----------------|---------|
| Product Length | 1200 mm |
|----------------|---------|

### • Approval and Application

|                               |                                   |
|-------------------------------|-----------------------------------|
| Energy Saving Product         | Yes                               |
| Suitable For Accent Lighting  | No                                |
| Energy Efficiency Label (EEL) | A+                                |
| Approval Marks                | RoHS compliance<br>UL certificate |
| Energy Consumption kWh/1000 h | 20 kWh                            |

### • Product Data

|                                 |                                |
|---------------------------------|--------------------------------|
| Order product name              | 16.5T8 LED/48-3500 IF 10/1 UHO |
| EAN/UPC - Product               | 046677463137                   |
| Order code                      | 463133                         |
| Numerator - Quantity Per Pack   | 1                              |
| Numerator - Packs per outer box | 10                             |
| Material Nr. (12NC)             | 929001226704                   |

# PHILIPS

# LED InstantFit Lamps

Net Weight (Piece) 0.360 kg

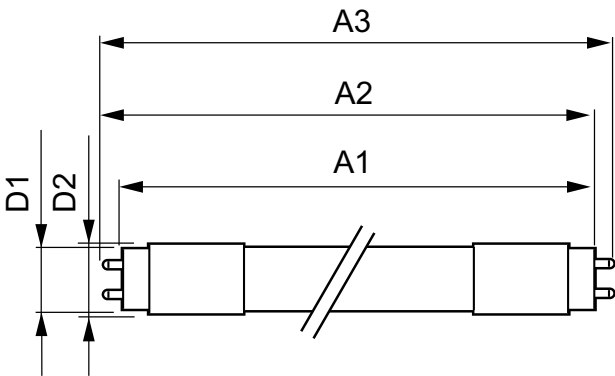
## Warnings and Safety

- Perform a visual inspection to ensure lamp holders (or sockets) are not damaged or loose. If the lamp holders (or sockets) are damaged,

corroded, charred, blackened or loose, contact a qualified electrician for proper replacement.

- Please refer to the ballast compatibility guide located at [www.philips.com/instantfit](http://www.philips.com/instantfit).

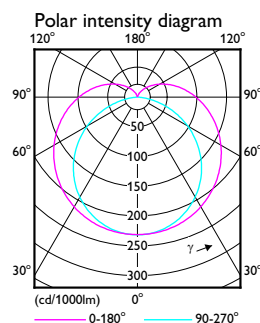
## Dimensional drawing



### TLED120-277V 16.5W-25/28/32W 3500K G13ND

| Product                        | D1       | D2    | A1      | A2      | A3      |
|--------------------------------|----------|-------|---------|---------|---------|
| 16.5T8 LED/48-3500 IF 10/1 UHO | 25.68 mm | 28 mm | 1198 mm | 1205 mm | 1212 mm |

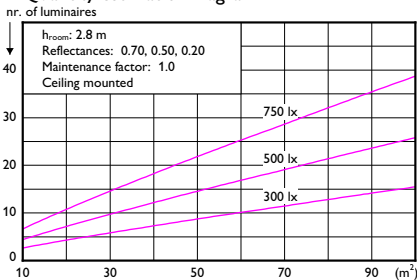
## General Uniform Lighting

**1 x TLED16.5W 3500K160D 9290012267****1 x 2400 lm**

Light output ratio 1.00  
 Service upward 0.15  
 Service downward 0.85

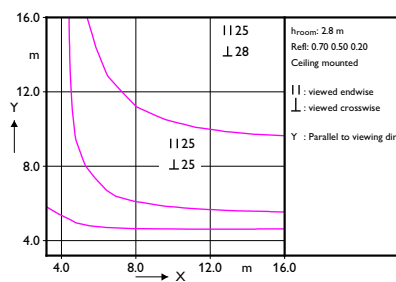
CIE flux code 38 66 87 85 100

UGR<sub>cen</sub> (4Hx8H, 0.25H) 25

**Quantity estimation 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 | 0.00 |
| 0.60         | 0.80                                                        | 0.80 | 0.70 | 0.70 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.30 | 0.00 | 0.00 |
| 0.80         | 0.50                                                        | 0.50 | 0.50 | 0.50 | 0.50 | 0.30 | 0.30 | 0.10 | 0.10 | 0.10 | 0.00 | 0.00 |
| 1.00         | 0.30                                                        | 0.10 | 0.30 | 0.20 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 | 0.00 |
| 1.25         | 0.60                                                        | 0.40 | 0.39 | 0.39 | 0.31 | 0.30 | 0.25 | 0.28 | 0.24 | 0.21 |      |      |
| 1.50         | 0.52                                                        | 0.49 | 0.50 | 0.48 | 0.47 | 0.39 | 0.37 | 0.32 | 0.35 | 0.31 | 0.27 |      |
| 2.00         | 0.60                                                        | 0.55 | 0.57 | 0.56 | 0.54 | 0.46 | 0.44 | 0.38 | 0.41 | 0.37 | 0.33 |      |
| 2.50         | 0.68                                                        | 0.62 | 0.65 | 0.62 | 0.60 | 0.53 | 0.50 | 0.45 | 0.47 | 0.43 | 0.38 |      |
| 3.00         | 0.74                                                        | 0.67 | 0.71 | 0.68 | 0.65 | 0.58 | 0.55 | 0.50 | 0.52 | 0.47 | 0.43 |      |
| 4.00         | 0.84                                                        | 0.75 | 0.80 | 0.76 | 0.72 | 0.66 | 0.62 | 0.58 | 0.59 | 0.55 | 0.50 |      |
| 5.00         | 0.90                                                        | 0.80 | 0.86 | 0.81 | 0.77 | 0.71 | 0.68 | 0.63 | 0.64 | 0.60 | 0.55 |      |
|              | 0.95                                                        | 0.83 | 0.91 | 0.85 | 0.81 | 0.76 | 0.72 | 0.68 | 0.68 | 0.64 | 0.59 |      |
|              | 1.02                                                        | 0.88 | 0.97 | 0.91 | 0.85 | 0.81 | 0.77 | 0.73 | 0.73 | 0.70 | 0.64 |      |
|              | 1.06                                                        | 0.91 | 1.01 | 0.94 | 0.88 | 0.84 | 0.80 | 0.77 | 0.76 | 0.73 | 0.67 |      |

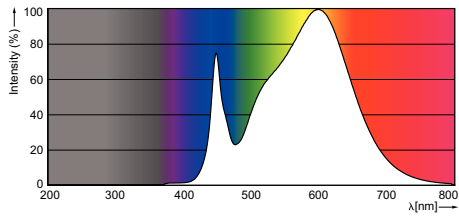
Ceiling mounted

**UGR diagram****Luminance Table**

| Plane Cote | 0.0  | 15.0 | 30.0 | 45.0  | 60.0  | 75.0  | 90.0  |
|------------|------|------|------|-------|-------|-------|-------|
| 45.0       | 9599 | 9539 | 9678 | 10027 | 10724 | 12197 | 14912 |
| 50.0       | 9181 | 9096 | 9197 | 9492  | 10101 | 11565 | 14512 |
| 55.0       | 8796 | 8685 | 8742 | 8968  | 9467  | 10875 | 14004 |
| 60.0       | 8448 | 8312 | 8324 | 8475  | 8819  | 10109 | 13366 |
| 65.0       | 8129 | 7967 | 7933 | 8008  | 8164  | 9255  | 12516 |
| 70.0       | 7836 | 7653 | 7575 | 7569  | 7516  | 8321  | 11373 |
| 75.0       | 7578 | 7369 | 7247 | 7169  | 6868  | 7270  | 9779  |
| 80.0       | 7349 | 7120 | 6960 | 6808  | 6269  | 6172  | 7524  |
| 85.0       | 7155 | 6907 | 6719 | 6513  | 5764  | 5136  | 4135  |
| 90.0       | 7003 | 6738 | 6530 | 6287  | 5408  | 4637  | 1020  |

(cd/m<sup>2</sup>)

2015-12-18



© 2016 Philips Lighting Holding B.V.  
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

[www.philips.com/lighting](http://www.philips.com/lighting)

2016, August 10  
data subject to change