



# T5 Standard

28W/835 Min Bipin T5 HE ALTO UNP

Philips T5 Fluorescent Lamps featuring ALTO® Lamp Technology offer increased energy savings and low toxicity in a slim profile.

## Product data

### • General Characteristics

|                    |                    |
|--------------------|--------------------|
| System Description | High Efficiency    |
| Base               | Miniature Bipin    |
| Base Information   | Green [Green Base] |
| Bulb               | T5 [16 mm]         |
| Life to 10% fail   | 19000 hr           |
| Preheat EL,3h      |                    |
| Rated Avg. Life    | 24000 hr           |
| LSF HF Preheat     | 99 %               |
| 2000h Rated,3h     |                    |
| LSF HF Preheat     | 99 %               |
| 4000h Rated,3h     |                    |
| LSF HF Preheat     | 99 %               |
| 6000h Rated,3h     |                    |
| LSF HF Preheat     | 99 %               |
| 8000h Rated,3h     |                    |
| LSF HF Preheat     | 99 %               |
| 12000h Rated,3h    |                    |
| LSF HF Preheat     | 97 %               |
| 16000h Rated,3h    |                    |
| LSF HF Preheat     | 84 %               |
| 20000h Rated,3h    |                    |

### • Light Technical Characteristics

|                       |                    |
|-----------------------|--------------------|
| Color Code            | 835 [CCT of 3500K] |
| Color Rendering Index | 82 Ra8             |
| Color Designation     | White              |
| Color Temperature     | 3500 K             |
| Luminous Flux EL      | 2625 Lm            |
| 25°C, Rated           |                    |
| Luminous Flux EL      | 2625 Lm            |
| 25°C, Nominal         |                    |
| Initial Lumens        | 2900 Lm            |
| Lum Efficacy Rated    | 94 Lm/W            |
| HF 25°C               |                    |

|                           |          |
|---------------------------|----------|
| Lum Efficacy Rated        | 104 Lm/W |
| HF 35°C                   |          |
| LLMF HF 2000h             | 96 %     |
| Rated                     |          |
| LLMF HF 4000h             | 95 %     |
| Rated                     |          |
| LLMF HF 6000h             | 94 %     |
| Rated                     |          |
| LLMF HF 8000h             | 93 %     |
| Rated                     |          |
| LLMF HF 12000h            | 92 %     |
| Rated                     |          |
| LLMF HF 16000h            | 91 %     |
| Rated                     |          |
| LLMF HF 20000h            | 90 %     |
| Rated                     |          |
| Design Temperature        | 35 C     |
| Chromaticity Coordinate X | 409 -    |
| Chromaticity Coordinate Y | 394 -    |

### • Electrical Characteristics

|                 |         |
|-----------------|---------|
| Watts           | 28 W    |
| Lamp Wattage EL | 27.9 W  |
| 25°C, Rated     |         |
| Lamp Wattage EL | 28 W    |
| 25°C, Nominal   |         |
| Lamp Wattage EL | 27.8 W  |
| 35°C            |         |
| Lamp Voltage EL | 166 V   |
| 25°C            |         |
| Lamp Voltage EL | 167 V   |
| 35°C            |         |
| Lamp Current EL | 0.170 A |
| 25°C            |         |

# PHILIPS

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Lamp Current EL 0.170 A  
35°C  
Dimmable Yes

Insertion Length B 1153.7 (min), 1156.1 (max) mm  
Overall Length C 1163.2 (max) mm  
Diameter D 17 (max) mm

• Environmental Characteristics

Energy Efficiency A  
Label (EEL)  
Mercury (Hg) 1.4 mg  
Content

• Measuring Conditions

Calibration Current 0.170 A  
HF Generator Rated 329 V  
Voltage  
Resistor 950 ohm

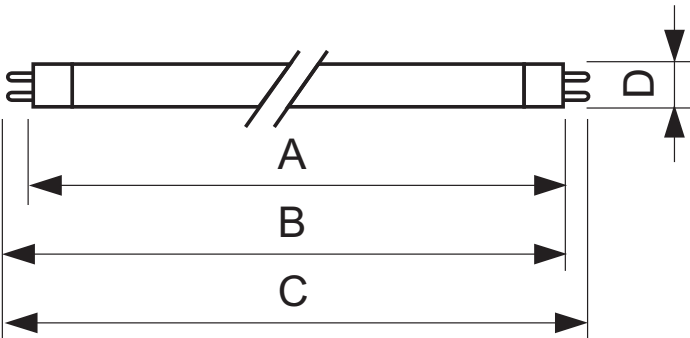
• Product Dimensions

Base Face to Base 1149.0 (max) mm  
Face A

• Product Data

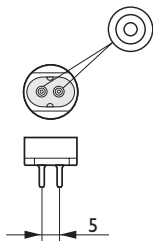
Product number 230854  
Full product name 28W/835 Min Bipin T5 HE ALTO UNP  
Short product name 28W/835 Min Bipin T5 HE ALTO UNP/40  
Pieces per Sku 1  
eop\_pck\_cfg 40  
Skus/Case 40  
Bar code on pack 46677230852  
Bar code on case 50046677230857  
Logistics code(s) 927990683522  
tpd\_ilcos\_cd FDH-28/35/1B-L/P-G5-16/1150  
eop\_net\_weight\_pp 104.500 gr

## Dimensional drawing



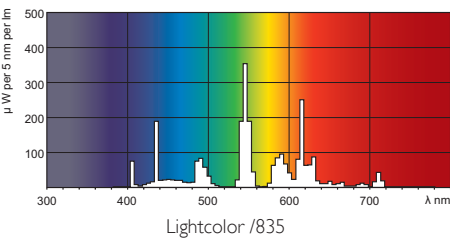
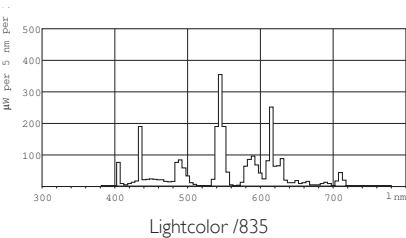
### 28W/835 Min Bipin T5 HE ALTO UNP

| Product                  | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|--------------------------|---------|---------|---------|---------|---------|
| TL5 HE F28T5/835 HE Alto | 1149.0  | 1153.7  | 1156.1  | 1163.2  | 17      |



G5

## Photometric data





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data subject to change