



# T5 Standard

21W/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 | 80 (min), 82 (nom), 85 (max) Ra8 |
| Color Designation     | White                            |
| Color Temperature     | 3500 K                           |
| Luminous Flux EL      | 1850 Lm                          |
| 25°C, Rated           |                                  |
| Luminous Flux EL      | 1850 Lm                          |
| 25°C, Nominal         |                                  |
| Initial Lumens        | 2100 Lm                          |
| Lum Efficacy Rated    | 90 Lm/W                          |
| HF 25°C               |                                  |

|                           |          |
|---------------------------|----------|
| Lum Efficacy Rated        | 101 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           | 21 W    |
| Lamp Wattage EL | 20.6 W  |
| 25°C, Rated     |         |
| Lamp Wattage EL | 21 W    |
| 25°C, Nominal   |         |
| Lamp Wattage EL | 20.7 W  |
| 35°C            |         |
| Lamp Voltage EL | 126 V   |
| 25°C            |         |
| Lamp Voltage EL | 123 V   |
| 35°C            |         |
| Lamp Current EL | 0.165 A |
| 25°C            |         |

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Lamp Current EL 0.170 A  
 35°C  
 Dimmable Yes

Insertion Length B 853.7 (min), 856.1 (max) mm  
 Overall Length C 863.2 (max) mm  
 Diameter D 17 (max) mm

• Environmental Characteristics

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

• Measuring Conditions

Calibration Current 0.170 A  
 HF Generator Rated Voltage 246 V  
 Resistor 725 ohm

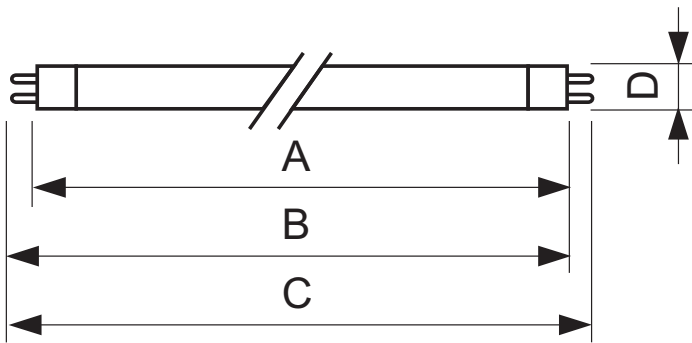
• Product Dimensions

Base Face to Base Face A 849.0 (max) mm

• Product Data

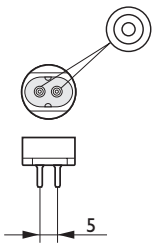
Product number 230821  
 Full product name 21W/835 Min Bipin T5 HE ALTO UNP  
 Short product name F21T5/835/ALTO 40PK  
 Pieces per Sku 1  
 eop\_pck\_cfg 40  
 Skus/Case 40  
 Bar code on pack 46677230821  
 Bar code on case 50046677230826  
 Logistics code(s) 927990883522  
 tpd\_ilcos\_cd FDH-21/35/1B-L/P-G5-16  
 eop\_net\_weight\_pp 78.000 gr

## Dimensional drawing



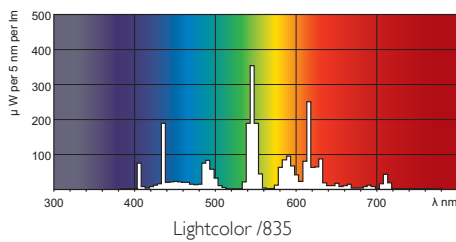
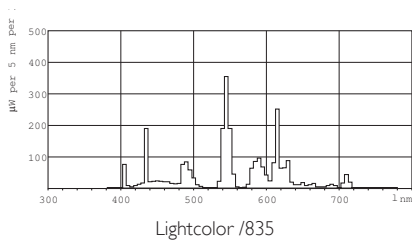
21W/835 Min Bipin T5 HE ALTO UNP

| Product                  | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|--------------------------|---------|---------|---------|---------|---------|
| TL5 HE F21T5/835 HE Alto | 849.0   | 853.7   | 856.1   | 863.2   | 17      |



G5

## Photometric data





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data subject to change