



# T5 Standard

## F28T5/835 ALTO 40PK

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

### Product data

| General Information                          |                                  |
|--|----------------------------------|
| Cap-Base                                     | G5 [ G5]                         |
| Life to 50% Failures Preheat (Nom)           | 24000 h                          |
| Features                                     | HE Alto® [ High Efficiency Alto] |
| System Description                           | HE [ High Efficiency]            |
| LSF Preheat 2000 h Rated                     | 99 %                             |
| LSF Preheat 4000 h Rated                     | 99 %                             |
| LSF Preheat 6000 h Rated                     | 99 %                             |
| LSF Preheat 8000 h Rated                     | 99 %                             |
| LSF Preheat 16000 h Rated                    | 97 %                             |
| LSF Preheat 20000 h Rated                    | 84 %                             |
| Light Technical                              |                                  |
| Color Code                                   | 835 [ CCT of 3500K]              |
| Luminous Flux (Nom)                          | 2900 lm                          |
| Luminous Flux (Rated) (Nom)                  | 2675 lm                          |
| Color Designation                            | White (WH)                       |
| Luminous Efficacy (@ Max Lumen, Rated) (Nom) | 104 lm/W                         |
| Correlated Color Temperature (Nom)           | 3500 K                           |
| Luminous Efficacy (rated) (Nom)              | 96 lm/W                          |
| Color Rendering Index (Max)                  | 85                               |
| Color Rendering Index (Min)                  | 80                               |
| Color Rendering Index (Nom)                  | 82                               |
| LLMF 2000 h Rated                            | 96 %                             |

|                    |      |
|--------------------|------|
| LLMF 4000 h Rated  | 95 % |
| LLMF 6000 h Rated  | 94 % |
| LLMF 8000 h Rated  | 93 % |
| LLMF 12000 h Rated | 92 % |
| LLMF 16000 h Rated | 91 % |
| LLMF 20000 h Rated | 90 % |

### Operating and Electrical

|                     |         |
|---------------------|---------|
| Power (Rated) (Nom) | 27.9 W  |
| Lamp Current (Nom)  | 0.170 A |

### Temperature

|                          |       |
|--------------------------|-------|
| Design Temperature (Nom) | 35 °C |
|--------------------------|-------|

### Controls and Dimming

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

### Mechanical and Housing

|                      |                     |
|----------------------|---------------------|
| Cap-Base Information | Green [ Green Base] |
| Bulb Shape           | T5 [ 16 mm (T5)]    |

### Approval and Application

|                            |        |
|----------------------------|--------|
| Mercury (Hg) Content (Nom) | 1.4 mg |
|----------------------------|--------|

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## Product Data

|                               |  |
|-------------------------------|--|
| Order product name            | 28W/835 Min Bipin T5 HE ALTO<br>UNP/40 |
| EAN/UPC - Product             | 046677230852                           |
| Order code                    | 230854                                 |
| Numerator - Quantity Per Pack | 1                                      |

|                                 |                             |
|---------------------------------|-----------------------------|
| Numerator - Packs per outer box | 40                          |
| Material Nr. (12NC)             | 927990683522                |
| Net Weight (Piece)              | 104.500 g                   |
| ILCOS Code                      | FDH-28/35/1B-L/P-G5-16/1150 |

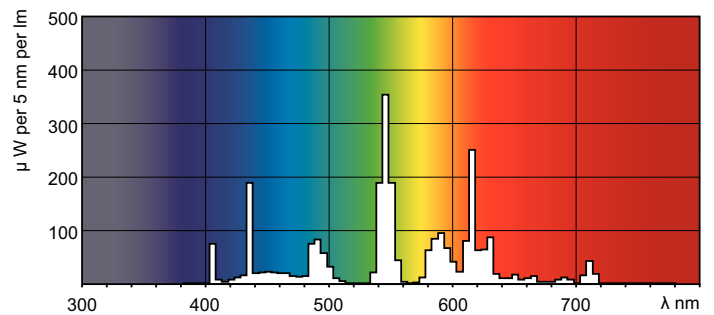
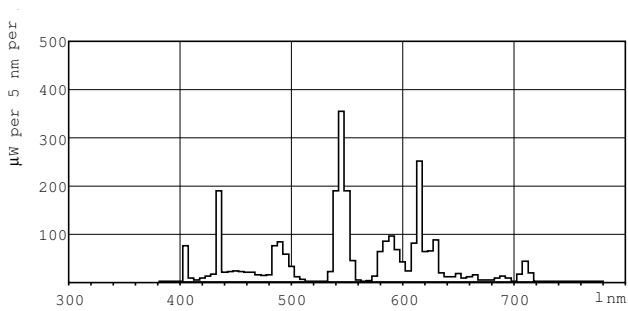
## Dimensional drawing



| Product                                | D (max) | A (max)   | B (max)   | B (min)   | C (max)   |
|--|---------|-----------|-----------|-----------|-----------|
| 28W/835 Min Bipin T5<br>HE ALTO UNP/40 | 17 mm   | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |

## TL5 HE F28T5/835 HE Alto

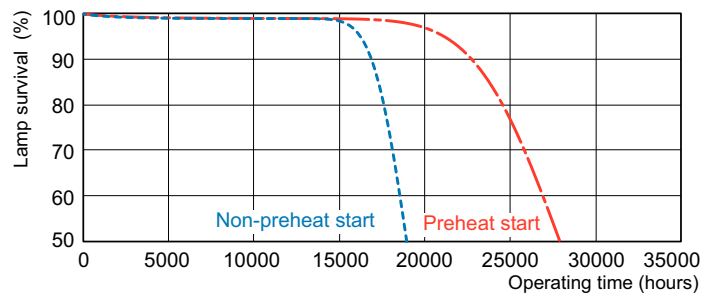
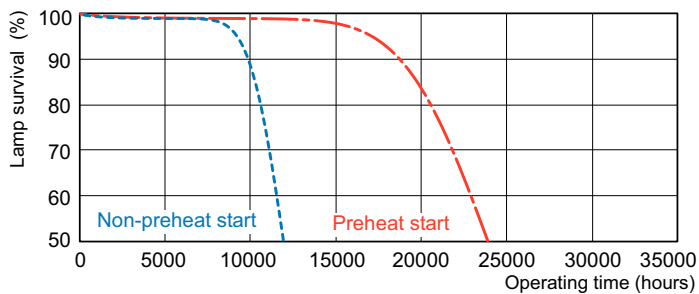
## Photometric data



## Lightcolor /835

## Lightcolor /835

## Lifetime



## MASTER TL5 HE Life Expectancy 3 h cycle

## MASTER TL5 HE Life Expectancy 12 h cycle

## T5 Standard

### Lifetime



MASTER TL5 HE Lumen Maintenance 3 h + 12 h cycle

