



Saving energy was never so simple

T5 Energy Advantage

Philips Energy Advantage T5 lamps featuring ALTO Lamp Technology offer ultimate energy savings without any sacrifice to light levels.

Benefits

- Outstanding energy savings – save 3 watts when switching from a standard T5 28W lamp, with no sacrifice to performance.
- Sustainable Lighting Solution – only 1.4 mg of mercury per lamp.

Features

- Save 3 watts by simply changing a lamp (when replacing a Standard T5 28W lamp).
- Save \$12.00 in energy costs over the life of the lamp when compared to a Standard T5 28W (based on 40,000 hrs Rated Average Life at \$.10 per start).
- Operates on Programmed Start electronic ballast only.
- Sustainable lighting solution- Reduces the impact on the environment: low mercury, energy efficiency, long life, and less material.
- Only 1.4 mg of mercury, the lowest in the industry.
- Dimmable.
- Available in 25 Watt- 3000K, 3500K and 4100K Color Temperatures.

Application

- Ideal for general, decorative and architectural lighting in offices, retail stores, hotels, schools and hospitals.

Warnings and Safety

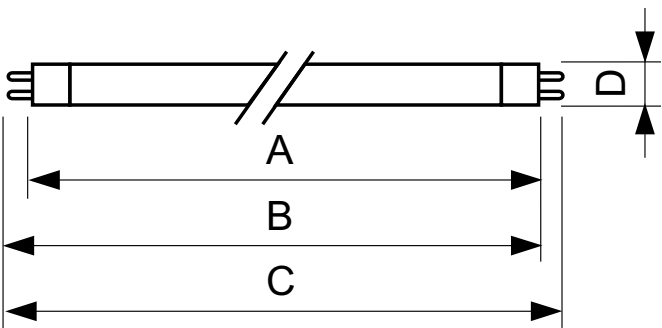
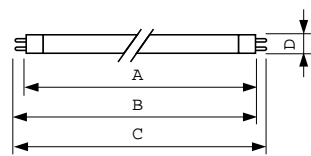
- Lamp contains mercury.
- Manage in Accord with Disposal Laws.
- See: www.lamprecycle.org or 1-800-555-0050

Versions



G5, T5

Dimensional drawing



| Product | D (max) | A (max) | B (max) | B (min) | C (max) |
|--------------------------|----------|-----------|------------|------------|-------------|
| F28T5 835 HE EA ALTO 25W | 11/16 in | 45-1/4 in | 45-9/16 in | 45-7/16 in | 45-13/16 in |

| Product | D (max) | A (max) | B (max) | B (min) | C (max) |
|---------------------------|----------|-----------|------------|------------|-------------|
| F54T5/841/HO/XEW/ALTO 44W | 11/16 in | 45-1/4 in | 45-9/16 in | 45-7/16 in | 45-13/16 in |

T5 Energy Advantage

| | |
|-----------------------------|--------|
| Approval and application | |
| Mercury (Hg) Content (Nom) | 1.4 mg |
| Controls and dimming | |
| Dimmable | Yes |
| General information | |
| Cap-Base | G5 |
| LSF Preheat 4000 h Rated | 99 % |
| LSF Preheat 6000 h Rated | 99 % |
| LSF Preheat 8000 h Rated | 99 % |
| Light technical | |
| Color Rendering Index (Max) | 85 |
| Color Rendering Index (Min) | 80 |
| Color Rendering Index (Nom) | 82 |
| LLMF 12000 h Rated | 92 % |
| LLMF 16000 h Rated | 91 % |
| LLMF 2000 h Rated | 96 % |
| LLMF 20000 h Rated | 90 % |
| LLMF 4000 h Rated | 95 % |
| LLMF 6000 h Rated | 94 % |
| LLMF 8000 h Rated | 93 % |
| Mechanical and housing | |
| Bulb Shape | T5 |
| Temperature | |
| Design Temperature (Nom) | 95 °F |

Operating and electrical

| Order Code | Full Product Name | Lamp Current (Nom) | Power (Nom) |
|------------|----------------------------|--------------------|-------------|
| 406314 | F28T5/835/EA/ALTO 25W 40/1 | 0.170 A | 25.2 W |
| 417824 | F54T5/841/HO/XEW/ALTO/44W | 0.460 A | 42.8 W |

General information

| | | Life To 50% | | | |
|--------|--------------------------------|-------------|-------------|-------------|-------------|
| | | Failures | LSF Preheat | LSF Preheat | LSF Preheat |
| Order | | Preheat | 16000 h | 20000 h | 2000 h |
| Code | Full Product Name | (Nom) | Rated | Rated | Rated |
| 406314 | F28T5/835/EA/ ALTO 25W 40/1 | 25000 h | 99 % | 94 % | 99 % |

| | | Life To 50% | | | |
|--------|-------------------------------|-------------|-------------|-------------|-------------|
| | | Failures | LSF Preheat | LSF Preheat | LSF Preheat |
| Order | | Preheat | 16000 h | 20000 h | 2000 h |
| Code | Full Product Name | (Nom) | Rated | Rated | Rated |
| 417824 | F54T5/841/HO/XE W/ALTO/44W | 30000 h | 98 % | 97 % | 100 % |

Light technical (1/2)

| | | | | Correlated | Luminous |
|--------|--------------------------------|-------|-------------|-------------|--------------|
| | | Color | Color | Color | Efficacy (@ |
| Order | Full Product | Code | Designation | Temperature | Max Lumen, |
| Code | Name | | | (Nom) | Rated) (Nom) |
| 406314 | F28T5/835/EA/ ALTO 25W 40/1 | 835 | White (WH) | 3500 K | 114 lm/W |

| | | | | Correlated | Luminous |
|--------|-------------------------------|-------|--------------------|-------------|--------------|
| | | Color | Color | Color | Efficacy (@ |
| Order | Full Product | Code | Designation | Temperature | Max Lumen, |
| Code | Name | | | (Nom) | Rated) (Nom) |
| 417824 | F54T5/841/HO/X EW/ALTO/44W | 841 | Cool White (CW) | 4100 K | 102 lm/W |

Light technical (2/2)

T5 Energy Advantage

| Order Code | Full Product Name | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) | Luminous Flux (Rated) (Nom) |
|------------|----------------------------|---------------------------------|---------------------|-----------------------------|
| | | | | |
| 406314 | F28T5/835/EA/ALTO 25W 40/1 | 103 lm/W | 2900 lm | 2600 lm |

| Order Code | Full Product Name | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) | Luminous Flux (Rated) (Nom) |
|------------|---------------------------|---------------------------------|---------------------|-----------------------------|
| | | | | |
| 417824 | F54T5/841/HO/XEW/ALTO/44W | 91 lm/W | 4500 lm | 3900 lm |

