



T5 TuffGuard Coated

F54T5/850 HO ALto TG

When you select Philips TuffGuard™ Fluorescent lamp with ALTO® lamp technology, you are reducing the impact on the environment, while the coating helps to protect your customers, employees, and reputation. Philips TuffGuard™ fluorescent lamps meet sustainability requirements because they reduce the impact on the environment with low mercury, energy efficiency and long life. The patented green endcaps mean you're using ALTO low-mercury technology. The 16 mils thick coating on TuffGuard™ fluorescent lamps forms a protective seal from end to end and is guaranteed to last the average rated life of the lamp under specific conditions

Product data

• General Characteristics

| | |
|--------------------|--------------------|
| System Description | High Output |
| Base | Miniature Bipin |
| Base Information | Green [Green Base] |
| Bulb | T5 [16 mm] |
| Life to 10% fail | 21000 hr |
| Preheat EL,3h | |
| Rated Avg. Life | 30000 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 | 850 [CCT of 5000K] |
| Color Rendering Index | 80 (min), 82 (nom), 85 (max) Ra8 |
| Color Designation | Daylight [Daylight] |
| Color Temperature | 5000 K |
| Luminous Flux EL | 4275 Lm |
| 25°C, Rated | |
| Luminous Flux EL | 4275 Lm |
| 25°C, Nominal | |
| Initial Lumens | 4800 Lm |
| Lum Efficacy Rated | 79 Lm/W |
| HF 25°C | |

| | |
|---------------------------|---------|
| Lum Efficacy Rated | 89 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 | 346 - |
| Chromaticity Coordinate Y | 359 - |

• Electrical Characteristics

| | |
|-----------------|---------|
| Watts | 54 W |
| Lamp Wattage EL | 54.1 W |
| 25°C, Rated | |
| Lamp Wattage EL | 54 W |
| 25°C, Nominal | |
| Lamp Wattage EL | 53.8 W |
| 35°C | |
| Lamp Voltage EL | 120 V |
| 25°C | |
| Lamp Voltage EL | 118 V |
| 35°C | |
| Lamp Current EL | 0.455 A |
| 25°C | |

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Lamp Current EL 0.460 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 Label (EEL) B
 Mercury (Hg) Content 1.4 mg

• Measuring Conditions

Calibration Current 0.460 A
 HF Generator Rated Voltage 235 V
 Resistor 255 ohm

• Product Dimensions

Base Face to Base Face A 1149.0 (max) mm

• Product Data

Product number 166868
 Full product name F54T5/850 HO Alto TG
 Short product name F54T5/850/HO/ALTO TG
 Pieces per Sku 1
 eop_pck_cfg 40
 Skus/Case 40
 Bar code on pack 46677166861
 Bar code on case 50046677166866
 Logistics code(s) 927893185001
 tpd_ilcos_cd FDH-54/50/1B-L/P-G5-16/1150
 eop_net_weight_pp 0.001 kg

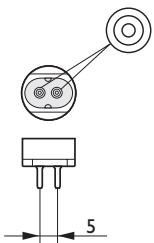
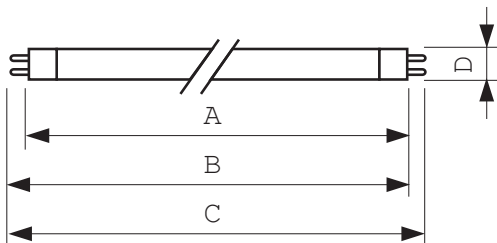
Warnings and Safety

- All HO lamps recommended for use only in open fixtures.

Dimensional drawing

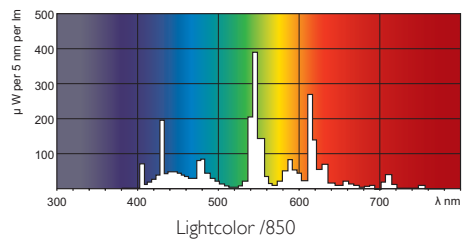
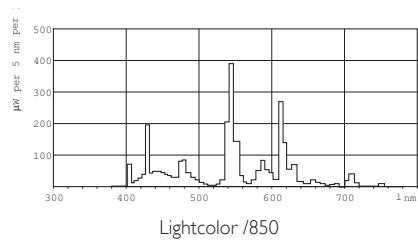
F54T5/850 HO Alto TG

| Product | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|-----------------------------|---------|---------|---------|---------|---------|
| TL5 HO F54T5/850 HO Alto TG | 1149.0 | 1153.7 | 1156.1 | 1163.2 | 17 |



G5

Photometric data



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data subject to change