



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	

Lum Efficacy Rated	88 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	347 -
Chromaticity Coordinate Y	363 -

• Light Technical Characteristics

Color Code	850 [CCT of 5000K]
Color Rendering Index	84 Ra8
Color Designation	Daylight [Daylight]
Color Temperature	5000 K
Luminous Flux EL	4250 Lm
25°C, Rated	
Luminous Flux EL	4250 Lm
25°C, Nominal	
Initial Lumens	4750 Lm
Lum Efficacy Rated	78 Lm/W
HF 25°C	

• Electrical Characteristics

Watts	54 W
Lamp Wattage EL	54.3 W
25°C, Rated	
Lamp Wattage EL	54 W
25°C, Nominal	
Lamp Wattage EL	53.8 W
35°C	
Lamp Voltage EL	118 V
25°C	
Lamp Voltage EL	118 V
35°C	
Lamp Current EL	0.460 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

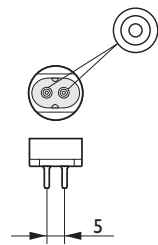
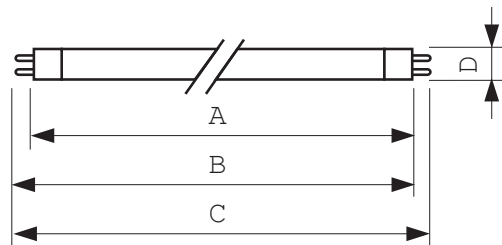
Warnings and Safety

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

Dimensional drawing

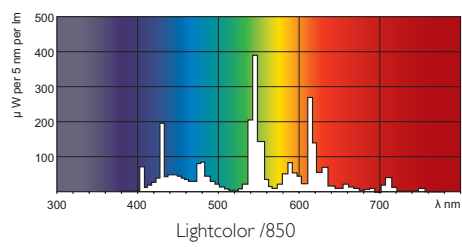
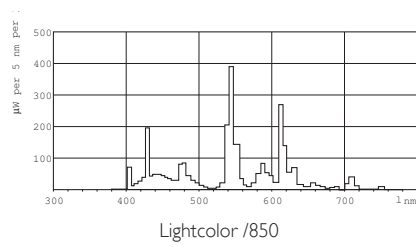
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Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HO F54T5/850 HO Alto TG	1149.0	1153.7	1156.1	1163.2	17



G5

Photometric data



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