



T5 TuffGuard Coated

F21T5/841 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 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	

Lum Efficacy Rated	101 Lm/W
HF 35°C	
Luminance Average	1.5 cd/cm2
EL 25°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	381 -
Chromaticity Coordinate Y	379 -

• Light Technical Characteristics

Color Code	841 [CCT of 4100K]
Color Rendering Index	82 Ra8
Color Designation	Cool White
Color Temperature	4100 K
Luminous Flux EL	1920 Lm
25°C, Rated	
Luminous Flux EL	1920 Lm
25°C, Nominal	
Initial Lumens	2100 Lm
Lum Efficacy Rated	90 Lm/W
HF 25°C	

• Electrical Characteristics

Watts	21 W
Lamp Wattage EL	21.3 W
25°C, Rated	
Lamp Wattage EL	21 W
25°C, Nominal	
Lamp Wattage EL	20.7 W
35°C	
Lamp Voltage EL	125 V
25°C	
Lamp Voltage EL	123 V
35°C	

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Lamp Current EL 25°C	0.170 A
Lamp Current EL 35°C	0.170 A
Dimmable	Yes

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

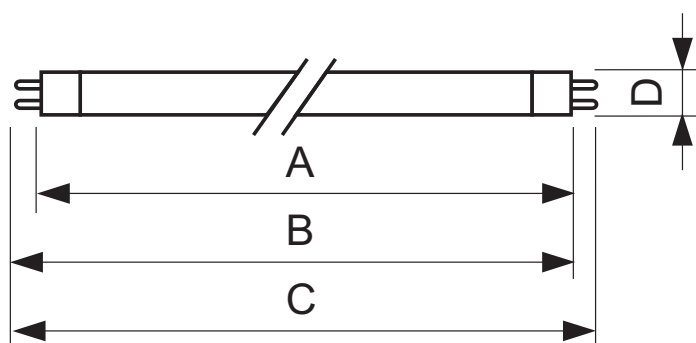
• Product Data

Product number	166694
Full product name	F21T5/841 TG
Short product name	F21T5/841/ALTO TG 40PK
Pieces per Sku	1
eop_pck_cfg	40
Skus/Case	40
Bar code on pack	46677166694
Bar code on case	50046677166699
Logistics code(s)	927890384101
tpd_ilcos_cd	FDH-21/40/1B-L/P-G5-16
eop_net_weight_pp	0.001 kg

Warnings and Safety

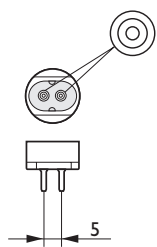
- All HO lamps recommended for use only in open fixtures.

Dimensional drawing



F21T5/841 TG

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HE F21T5/841 TG	849.0	853.7	856.1	863.2	17



G5



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data subject to change