



# T5 TuffGuard Coated

## F54T5/841/HO/ALTO TG 40PK

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

### Warnings and Safety

- All HO lamps recommended for use only in open fixtures.
- Lamp contains mercury. Manage in Accord with Disposal Laws. See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-800-555-0050

### Product data

General Information			
Base	G5 [ G5]	Luminous Flux (Rated) (Nom)	4500 lm
Life to 50% Failures Preheat (Nom)	30000 h	Color Designation	Cool White (CW)
Features	HO Alto® [ High Output Alto]	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	93 lm/W
System Description	High Output (HO)	Correlated Color Temperature (Nom)	4100 K
LSF Preheat 2000 h Rated	99 %	Luminous Efficacy (rated) (Nom)	83 lm/W
LSF Preheat 4000 h Rated	99 %	Color Rendering Index (Max)	85
LSF Preheat 6000 h Rated	99 %	Color Rendering Index (Min)	80
LSF Preheat 8000 h Rated	99 %	Color Rendering Index (Nom)	82
LSF Preheat 16000 h Rated	97 %	LLMF 2000 h Rated	96 %
LSF Preheat 20000 h Rated	84 %	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 %
Light Technical			
Color Code	841 [ CCT of 4100K]		
Initial lumen (Nom)	5000 lm		

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LLMF 20000 h Rated	90 %
<b>Operating and Electrical</b>	
Power (Rated) (Nom)	54 W
Lamp Current (Nom)	0.455 A
<b>Temperature</b>	
Design Temperature (Nom)	35 °C
<b>Controls and Dimming</b>	
Dimmable	Yes
<b>Mechanical and Housing</b>	
Cap-Base Information	Green [ Green Cap]

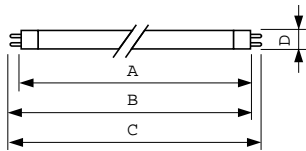
## Approval and Application

Energy Efficiency Label (EEL)	A
Mercury (Hg) Content (Nom)	1.4 mg

## Product Data

Order product name	F54T5/841/HO/ALTO TG 40PK
EAN/UPC - Product	046677162986
Order code	162982
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	40
Material Nr. (12NC)	927893184102
Net Weight (Piece)	0.001 kg
ILCOS Code	FDH-54/40/1B-L/P-G5-16/1150

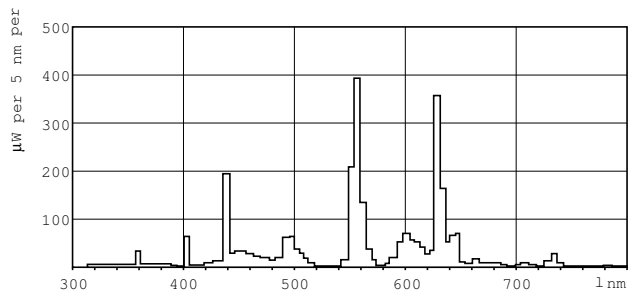
## Dimensional drawing



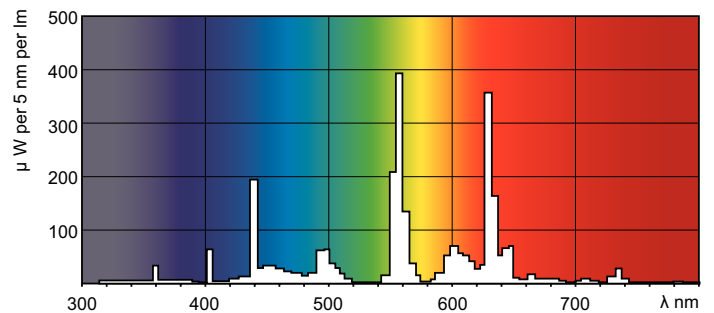
Product	D (max)	A (max)	B (max)	B (min)	C (max)
F54T5/841/HO/ALTO TG 40PK	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

## TL5 HO F54T5/841 HO Alto TG

## Photometric data



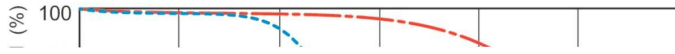
## LDPB\_TL5-HO8\_840-Spectral power distribution B/W



## LDPO\_TL5-HO8\_840-Spectral power distribution Colour

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## Lifetime



LDLE\_TL5-HO8\_0001-Life expectancy diagram

LDLE\_TL5-HO8\_0002-Life expectancy diagram



LDLM\_TL5-HO8\_0001-Lumen maintenance diagram

