



Outstanding performance and reliability

T5 TuffGuard Coated

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

Benefits

- Sustainable Lighting Solution - Philips TuffGuard lamps reduce the impact on the environment with low mercury.
- Energy Efficient for a greener, brighter future
- Long Life to assist with lowering your maintenance costs and reducing waste.

Features

- Keeps broken glass contained.
- Coating will not yellow, crack, or flake.
- Reduces the impact on the environment: Low mercury, Energy efficient, Long life
- Warranty: Coating Guaranteed to Last the Average Rated Life of the Lamp.
- Lighting Required to be Shielded or Otherwise Protected in Food Service and Food Processing Areas.
- 8,13,14,21,24,28,35,54 watts with 3000,3500,4100,and, 5000 color temperatures

Application

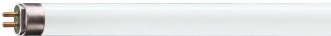
- Ideal for food processing/services, manufacturing, and hospitals

T5 TuffGuard Coated

Warnings and Safety

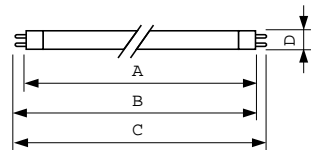
- All HO lamps recommended for use only in open fixtures.

Versions



G5, T5

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
F54T5/850/HO/ALTO TG	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

T5 TuffGuard Coated

Approval and application	
Mercury (Hg) Content (Nom)	1.4 mg
Controls and dimming	
Dimmable	Yes
Operating and electrical	
Lamp Current (Nom)	0.455 A
General information	
Cap-Base	G5
Life To 50% Failures Preheat (Nom)	30000 h
LSF Preheat 16000 h Rated	97 %
LSF Preheat 20000 h Rated	84 %
LSF Preheat 2000 h Rated	99 %
LSF Preheat 4000 h Rated	99 %
LSF Preheat 6000 h Rated	99 %
LSF Preheat 8000 h Rated	99 %
System Description	HO
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)	35 °C

Operating and electrical

Order Code	Full Product Name	Power (Nom)
162982	F54T5/841/HO/ALTO TG 40PK	54 W
166868	F54T5/850/HO/ALTO TG	54.1 W

Light technical (1/2)

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (@ Max Lumen, Rated) (Nom)
162982	F54T5/841/HO/ALTO TG 40PK	841	Cool White (CW)	4100 K	93 lm/W

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (@ Max Lumen, Rated) (Nom)
166868	F54T5/850/HO/ALTO TG	850	Daylight	5000 K	89 lm/W

Light technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
162982	F54T5/841/HO/ALTO TG 40PK	83 lm/W	5000 lm	4500 lm

T5 TuffGuard Coated

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
166868	F54T5/850/HO/ ALTO TG	80 lm/W	4800 lm	4325 lm

