



Maximize energy savings without sacrificing light output

T5 High Output Energy Advantage

Philips Energy Advantage T5 HO 49W lamps are environmentally-responsible, ultraslim and have extraordinary light output with increased energy savings.

Benefits

- Outstanding energy savings save 5 watts when switching from a standard T5 HO 54W lamp, with no sacrifice to performance.
- Sustainable Lighting Solution only 1.4 mg of mercury per lamp the lowest mercury levels in the industry.
- With just 12 Picograms per lumen hour, these lamps allow for more design freedom and help exceed all LEED requirements (For more information on LEED, please visit www.usgbc.org)

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Features

- \cdot Reduced maintenance and disposal costs.
- · Long life (40,000 hrs RAL**) for an extended relamping cycle.
- Outstanding energy savings save 5 watts when switching from a standard T5 HO 54W lamp, with no sacrifice to performance.
- · Save \$20.00 instantly in energy costs over the rated average life§ of the lamp
- · Operates on any Programmed Start ballast.
- Sustainable lighting solution- Reduces the impact on the environment: low mercury, energy efficiency, long life, and less material.
- Only 1.4 mg of mercury, the lowest in the industry.
- With just 9.8 Picograms per lumen hour, these lamps allow for more design freedom and help exceed all LEED requirements.
- Extreme Temperature lamp provides extraordinary output even in spaces without climate control. Lumen output is >90% from 65 degrees F to 170 degrees F due to amalgam technology.
- · Available in 49 Watt 3000K, 3500K, 4100K and 5000K Color Temperatures.

Application

· Ideal for medium-bay and high-bay retail and industrial applications.

Versions



48.0 W G5 16 mm (T5)

Dimensional drawing

Product	D (max)	A (max)	B (max)	B (min)	C (max)
F54T5 835 HO EA ALTO 49W	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
F54T5 841 HO EA ALTO 49W	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

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Mercury (Hg) Content (Nom)	1.4 mg	
mercury (rig) content (Hom)	1.71116	
Controls and dimming		
Dimmable	Yes	
Operating and electrical		
Lamp Current (Nom)	0.460 A	
Power (Nom)	48.0 W	
General information		
Cap-Base	G5	
Life To 50% Failures Preheat (Nom)	30000 h	
LSF Preheat 16000 h Rated	99 %	
LSF Preheat 20000 h Rated	94 %	
LSF Preheat 2000 h Rated	99 %	
LSF Preheat 4000 h Rated	99 %	
LSF Preheat 6000 h Rated	99 %	
LSF Preheat 8000 h Rated	99 %	
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 %	
Luminous Efficacy (@ Max Lumen,	102 lm/W	
Rated) (Nom)		
Luminous Efficacy (rated) (Nom)	93 lm/W	
Luminous Flux (Nom)	5000 lm	
Luminous Flux (Rated) (Nom)	4450 lm	
Mechanical and housing		
Bulb Shape	T5	
Temperature		
Design Temperature (Nom)	35 ℃	

Light technical

					Correlated Color
Order 0	Code	Full Product Name	Color Code	Color Designation	Temperature (Nom)
220509	9	F54T5/835/HO/EA/ALTO 49W 40/1	835	White (WH)	3500 K
220525	5	F54T5/841/HO/EA/ALTO 49W 40/1	841	Cool White (CW)	4100 K

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