



Powerful, ultra-slim lamps

T5 High Output

Philips T5 HO lamps are environmentally-responsible, ultra-slim and have extraordinary light output and longer life.

Benefits

- Reduces the impact on the environment with low mercury, energy efficiency, long life, and less material.
- Warranty period: 36 months.
- 95% lumen maintenance.

Features

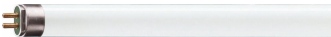
- Reduced maintenance and disposal costs.
- Long life for an extended relamping cycle.
- 35,000 hours rated average life*.
- Up to 70% more lumens than standard Standard T5 lamps.
- 95% lumen maintenance.
- Reduces the impact on the environment: low mercury, energy efficiency, long life, and less material.
- Only 1.4 mg of mercury, the lowest in the industry.
- With just 12 Picograms per lumen hour†, these lamps allow for more design freedom and help exceed all LEED requirements◇.
- 24, 39, 54 and 80 Watt with 3000, 3500, 4100, 5000, and 6500 Color Temperatures.

Application

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

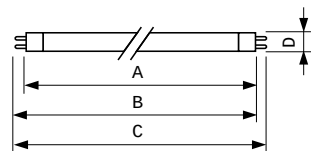
T5 High Output

Versions



G5, T5

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
F24T5/830/HO/ALTO 40PK	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
24W/835 Min Bipin T5 HO ALTO UNP	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
24W/841 Min Bipin T5 HO ALTO UNP	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
39W/830 Min Bipin T5 HO ALTO UNP	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
39W/835 Min Bipin T5 HO ALTO UNP	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
39W/841 Min Bipin T5 HO ALTO UNP	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
54W/830 Min Bipin T5 HO ALTO UNP	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
54W/835 Min Bipin T5 HO ALTO UNP	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
54W/840 Min Bipin T5 HO ALTO UNP	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
F54T5/850/HO/ALTO 40PK	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
F54T5/865/HO/ALTO 40PK	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm

T5 High Output

Approval and application	
Mercury (Hg) Content (Nom)	1.4 mg
Controls and dimming	
Dimmable	Yes
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	Lamp Current (Nom)	Power (Nom)
290197	F24T5/830/HO/ALTO 40PK	0.295 A	22.5 W
290205	F24T5/835/HO/ALTO 40PK	0.295 A	22.5 W
290213	F24T5/841/HO/ALTO 40PK	0.295 A	22.5 W
290221	F39T5/830/HO/ALTO 40PK	0.325 A	38.0 W
290239	F39T5/835/HO/ALTO 40PK	0.325 A	38.0 W
290254	F39T5/841/HO/ALTO 40PK	0.325 A	38.0 W
290262	F54T5/830/HO/ALTO 40PK	0.455 A	54 W
290288	F54T5/835/HO/ALTO 40PK	0.455 A	54.1 W
290833	F54T5/841/HO/ALTO 40PK	0.455 A	54.1 W
135103	F54T5/850/HO/ALTO 40PK	0.455 A	54.1 W
147454	F54T5/865/HO/ALTO 40PK	0.455 A	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)
290197	F24T5/830/HO/ALTO 40PK	830	Warm White (WW)	3000 K	87 lm/W
290205	F24T5/835/HO/ALTO 40PK	835	White (WH)	3500 K	87 lm/W
290213	F24T5/841/HO/ALTO 40PK	841	Cool White (CW)	4100 K	87 lm/W
290221	F39T5/830/HO/ALTO 40PK	830	Warm White (WW)	3000 K	92 lm/W
290239	F39T5/835/HO/ALTO 40PK	835	White (WH)	3500 K	92 lm/W
290254	F39T5/841/HO/ALTO 40PK	841	Cool White (CW)	4100 K	92 lm/W

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (@ Max Lumen, Rated) (Nom)
290262	F54T5/830/HO/ALTO 40PK	830	Warm White (WW)	3000 K	93 lm/W
290288	F54T5/835/HO/ALTO 40PK	835	White (WH)	3500 K	93 lm/W
290833	F54T5/841/HO/ALTO 40PK	841	Cool White (CW)	4100 K	93 lm/W
135103	F54T5/850/HO/ALTO 40PK	850	Daylight	5000 K	89 lm/W
147454	F54T5/865/HO/ALTO 40PK	865	Cool Daylight	6300 K	86 lm/W

T5 High Output

Light technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
290197	F24T5/830/HO/ALTO 40PK	76 lm/W	1950 lm	1700 lm
290205	F24T5/835/HO/ALTO 40PK	76 lm/W	1950 lm	1700 lm
290213	F24T5/841/HO/ALTO 40PK	76 lm/W	1950 lm	1700 lm
290221	F39T5/830/HO/ALTO 40PK	82 lm/W	3500 lm	3100 lm
290239	F39T5/835/HO/ALTO 40PK	82 lm/W	3500 lm	3100 lm
290254	F39T5/841/HO/ALTO 40PK	82 lm/W	3500 lm	3100 lm

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
290262	F54T5/830/HO/ALTO 40PK	83 lm/W	5000 lm	4500 lm
290288	F54T5/835/HO/ALTO 40PK	83 lm/W	5000 lm	4500 lm
290833	F54T5/841/HO/ALTO 40PK	83 lm/W	5000 lm	4500 lm
135103	F54T5/850/HO/ALTO 40PK	80 lm/W	4800 lm	4325 lm
147454	F54T5/865/HO/ALTO 40PK	77 lm/W	4650 lm	4200 lm

