



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

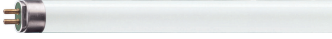
- Reduced maintenance and disposal costs.
- Long life for an extended relamping cycle.
- 35,000 hours rated average life*.
- Up to 70% more lumens than standard Standard T5 lamps.
- 95% lumen maintenance.
- Reduces the impact on the environment: low mercury, energy efficiency, long life, and less material.
- 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.

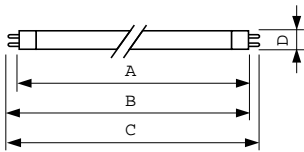
T5 High Output

Versions



G5, T5

Dimensional drawing



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

T5 High Output

Approval and Application

Mercury (Hg) Content (Nom)	1.4 mg
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Controls and Dimming

Dimmable	Yes
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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	High Output (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
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Temperature

Design Temperature (Nom)	35 °C
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Approval and Application

Order Code	Full Product Name	Energy Efficiency Label (EEL)
290197	F24T5/830/HO/ALTO 40PK	A
290205	F24T5/835/HO/ALTO 40PK	A
290213	F24T5/841/HO/ALTO 40PK	A
290221	F39T5/830/HO/ALTO 40PK	A
290239	F39T5/835/HO/ALTO 40PK	A
290254	F39T5/841/HO/ALTO 40PK	A
290262	F54T5/830/HO/ALTO 40PK	A
290288	F54T5/835/HO/ALTO 40PK	A
290833	F54T5/841/HO/ALTO 40PK	A
135103	F54T5/850/HO/ALTO 40PK	B
147454	F54T5/865/HO/ALTO 40PK	B

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)	Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
290197	F24T5/830/HO/ALTO 40PK	0.295 A	22.5 W	290262	F54T5/830/HO/ALTO 40PK	0.455 A	54 W
290205	F24T5/835/HO/ALTO 40PK	0.295 A	22.5 W	290288	F54T5/835/HO/ALTO 40PK	0.455 A	54.1 W
290213	F24T5/841/HO/ALTO 40PK	0.295 A	22.5 W	290833	F54T5/841/HO/ALTO 40PK	0.455 A	54.1 W
290221	F39T5/830/HO/ALTO 40PK	0.325 A	38.0 W	135103	F54T5/850/HO/ALTO 40PK	0.455 A	54.1 W
290239	F39T5/835/HO/ALTO 40PK	0.325 A	38.0 W	147454	F54T5/865/HO/ALTO 40PK	0.455 A	54.1 W
290254	F39T5/841/HO/ALTO 40PK	0.325 A	38.0 W				

Light Technical (1/2)

T5 High Output

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

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

