



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

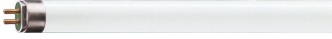
- Ideal for medium-bay and high-bay retail and industrial applications.

Warnings and Safety

- Lamp contains mercury.
- Manage in Accord with Disposal Laws.
- See: www.lamprecycle.org or 1-800-555-0050

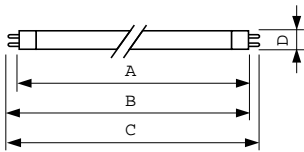
T5 High Output

Versions



G5, T5

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
F24T5/830/HO/ALTO 40PK	11/16 in	21-5/8 in	21-15/16 in	21-13/16 in	22-3/16 in
24W/835 Min Bipin T5 HO ALTO UNP	11/16 in	21-5/8 in	21-15/16 in	21-13/16 in	22-3/16 in
24W/841 Min Bipin T5 HO ALTO UNP	11/16 in	21-5/8 in	21-15/16 in	21-13/16 in	22-3/16 in
39W/830 Min Bipin T5 HO ALTO UNP	11/16 in	33-7/16 in	33-3/4 in	33-5/8 in	34 in
39W/835 Min Bipin T5 HO ALTO UNP	11/16 in	33-7/16 in	33-3/4 in	33-5/8 in	34 in
39W/841 Min Bipin T5 HO ALTO UNP	11/16 in	33-7/16 in	33-3/4 in	33-5/8 in	34 in
54W/830 Min Bipin T5 HO ALTO UNP	11/16 in	45-1/4 in	45-9/16 in	45-7/16 in	45-13/16 in
54W/835 Min Bipin T5 HO ALTO UNP	11/16 in	45-1/4 in	45-9/16 in	45-7/16 in	45-13/16 in
54W/840 Min Bipin T5 HO ALTO UNP	11/16 in	45-1/4 in	45-9/16 in	45-7/16 in	45-13/16 in
F54T5/850/HO/ALTO 40PK	11/16 in	45-1/4 in	45-9/16 in	45-7/16 in	45-13/16 in
F54T5/865/HO/ALTO 40PK	11/16 in	45-1/4 in	45-9/16 in	45-7/16 in	45-13/16 in

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	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
------------	----

Temperature

Design Temperature (Nom)	95 °F
--------------------------	-------

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

