



Powerful, environmentally- responsible ultra-slim lamps

T5 Standard

Philips T5 Fluorescent Lamps featuring ALTO® Lamp Technology offer increased energy savings and low toxicity in a slim profile.

Benefits

- Philips T5 Warranty period - 36 months.
- Sustainable Lighting Solution - low mercury.
- Ultra slim profile allows for flexibility in design.

Features

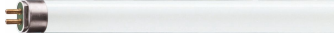
- Less mercury combined with energy efficiency and long life reduces the impact on the environment.
- Our green end-caps mean you are using ALTO® environmentally-responsible lamps.
- Only 1.4mg of mercury per lamp.
- Slim profile lamp and ballast.
- Operates on programmed start electronic ballasts only.
- Available in 14, 21, 28, and 35 Watts with 3000, 3500, 4100 color temperatures.

Application

- Ideal for general, decorative and architectural lighting in offices, retail stores, hotels, schools and hospitals.

T5 Standard

Versions



G5, T5

Dimensional drawing

1

Product	D (max)	A (max)	B (max)	B (min)	C (max)
14W/835 Min Bipin T5 HE ALTO UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
28W/841 Min Bipin T5 HE ALTO UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
14W/841 Min Bipin T5 HE ALTO UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
28W/830 Min Bipin T5 HE ALTO UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
28W/835 Min Bipin T5 HE ALTO UNP/40	17 mm	1149.0 mm	1156.1 mm	1153.7 mm	1163.2 mm
14W/830 Min Bipin T5 HE ALTO UNP/40	17 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
21W/835 Min Bipin T5 HE ALTO UNP/40	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
F21T5/841/ALTO 40PK	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
F35T5/841 40PK	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm
F21T5/830/ALTO 40PK	17 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm
F35T5/830 40PK	17 mm	1449.0 mm	1456.1 mm	1453.7 mm	1463.2 mm

T5 Standard

Approval and Application

Energy Efficiency Label (EEL)	A
Mercury (Hg) Content (Nom)	1.4 mg

Controls and Dimming

Dimmable	Yes
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General Information

Cap-Base	G5
Life To 50% Failures Preheat (Nom)	24000 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	HE

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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Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
230771	F14T5/830/ALTO 40PK	0.165 A	14.0 W
230797	F14T5/835/ALTO 40PK	0.165 A	14.0 W
230805	F14T5/841/ALTO 40PK	0.165 A	14.0 W
230847	F28T5/830 ALTO 40PK	0.170 A	27.9 W
230854	F28T5/835 ALTO 40PK	0.170 A	27.9 W
230862	F28T5/841 ALTO 40PK	0.170 A	27.9 W
230813	F21T5/830/ALTO 40PK	0.165 A	21 W
230821	F21T5/835/ALTO 40PK	0.165 A	20.6 W
230839	F21T5/841/ALTO 40PK	0.165 A	20.6 W
230888	F35T5/830 40PK	0.175 A	35.5 W
230953	F35T5/841 40PK	0.175 A	35.5 W

Light Technical (1/2)

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (@ Max Lumen, Rated) (Nom)
230771	F14T5/830/ALTO 40PK	830	Warm White (WW)	3000 K	99 lm/W
230797	F14T5/835/ALTO 40PK	835	White (WH)	3500 K	99 lm/W
230805	F14T5/841/ALTO 40PK	841	Cool White (CW)	4100 K	99 lm/W
230847	F28T5/830 ALTO 40PK	830	Warm White (WW)	3000 K	104 lm/W
230854	F28T5/835 ALTO 40PK	835	White (WH)	3500 K	104 lm/W
230862	F28T5/841 ALTO 40PK	841	Cool White (CW)	4100 K	104 lm/W

Order Code	Full Product Name	Color Code	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (@ Max Lumen, Rated) (Nom)
230813	F21T5/830/ALTO 40PK	830	Warm White (WW)	3000 K	101 lm/W
230821	F21T5/835/ALTO 40PK	835	White (WH)	3500 K	101 lm/W
230839	F21T5/841/ALTO 40PK	841	Cool White (CW)	4100 K	101 lm/W
230888	F35T5/830 40PK	830	Warm White (WW)	3000 K	105 lm/W
230953	F35T5/841 40PK	841	Cool White (CW)	4100 K	105 lm/W

T5 Standard

Light Technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)	Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
230771	F14T5/830/ALTO 40PK	86 lm/W	1350 lm	1200 lm	230862	F28T5/841 ALTO 40PK	96 lm/W	2900 lm	2675 lm
230797	F14T5/835/ALTO 40PK	86 lm/W	1350 lm	1200 lm	230813	F21T5/830/ALTO 40PK	90 lm/W	2100 lm	1850 lm
230805	F14T5/841/ALTO 40PK	86 lm/W	1350 lm	1200 lm	230821	F21T5/835/ALTO 40PK	90 lm/W	2100 lm	1850 lm
230847	F28T5/830 ALTO 40PK	96 lm/W	2900 lm	2675 lm	230839	F21T5/841/ALTO 40PK	90 lm/W	2100 lm	1850 lm
230854	F28T5/835 ALTO 40PK	96 lm/W	2900 lm	2675 lm	230888	F35T5/830 40PK	94 lm/W	3650 lm	3325 lm
					230953	F35T5/841 40PK	94 lm/W	3650 lm	3325 lm

