



T5 Standard

21W/835 Min Bipin T5 HE ALTO UNP

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

Product data

• General Characteristics

System Description	High Efficiency
Base	Miniature Bipin
Base Information	Green [Green Base]
Bulb	T5 [16 mm]
Life to 10% fail	19000 hr
Preheat EL,3h	
Rated Avg. Life	24000 hr
LSF HF Preheat	99 %
2000h Rated,3h	
LSF HF Preheat	99 %
4000h Rated,3h	
LSF HF Preheat	99 %
6000h Rated,3h	
LSF HF Preheat	99 %
8000h Rated,3h	
LSF HF Preheat	99 %
12000h Rated,3h	
LSF HF Preheat	97 %
16000h Rated,3h	
LSF HF Preheat	84 %
20000h Rated,3h	

• Light Technical Characteristics

Color Code	835 [CCT of 3500K]
Color Rendering Index	85 Ra8
Color Designation	White
Color Temperature	3500 K
Luminous Flux EL	1850 Lm
25°C, Rated	
Luminous Flux EL	1850 Lm
25°C, Nominal	
Initial Lumens	2100 Lm
Lum Efficacy Rated	89.8 Lm/W
HF 25°C	

Lum Efficacy Rated	101 Lm/W
HF 35°C	
LLMF HF 2000h	96 %
Rated	
LLMF HF 4000h	95 %
Rated	
LLMF HF 6000h	94 %
Rated	
LLMF HF 8000h	93 %
Rated	
LLMF HF 12000h	92 %
Rated	
LLMF HF 16000h	91 %
Rated	
LLMF HF 20000h	90 %
Rated	
Design Temperature	35 C
Chromaticity Coordinate X	409 -
Chromaticity Coordinate Y	394 -

• Electrical Characteristics

Watts	21 W
Lamp Wattage EL	20.6 W
25°C, Rated	
Lamp Wattage EL	21 W
25°C, Nominal	
Lamp Wattage EL	20.7 W
35°C	
Lamp Voltage EL	126 V
25°C	
Lamp Voltage EL	123 V
35°C	
Lamp Current EL	0.165 A
25°C	

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Lamp Current EL 0.170 A
35°C
Dimmable Yes

Insertion Length B 853.7 (min), 856.1 (max) mm
Overall Length C 863.2 (max) mm
Diameter D 17 (max) mm

Environmental Characteristics

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

Measuring Conditions

Calibration Current 0.170 A
HF Generator Rated 246 V
Voltage
Resistor 725 ohm

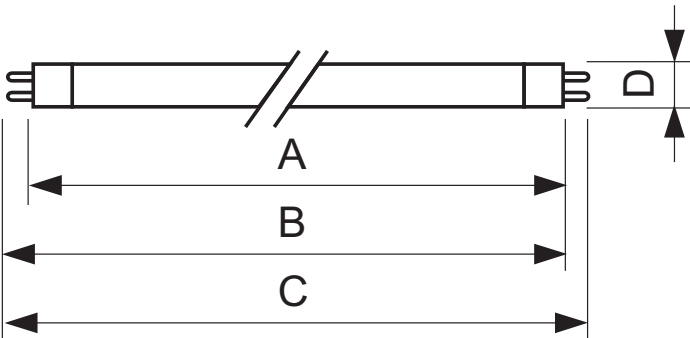
Product Dimensions

Base Face to Base 849.0 (max) mm
Face A

Product Data

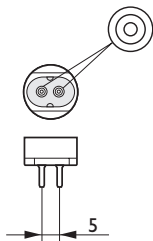
Product number 230821
Full product name 21W/835 Min Bipin T5 HE ALTO UNP
Short product name F21T5/835/ALTO 40PK
Pieces per Sku 1
eop_pck_cfg 40
Skus/Case 40
Bar code on pack 46677230821
Bar code on case 50046677230826
Logistics code(s) 927990883522
tpd_ilcos_cd FDH-21/35/1B-L/P-G5-16
eop_net_weight_pp 78.000 gr

Dimensional drawing



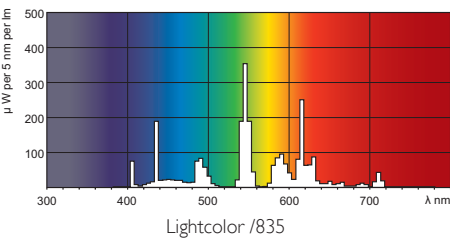
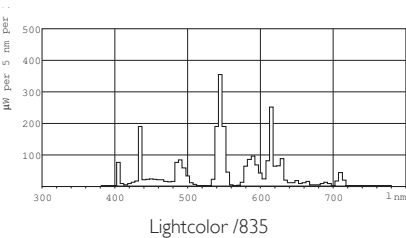
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Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HE F21T5/835 HE Alto	849.0	853.7	856.1	863.2	17



G5

Photometric data





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data subject to change