



# T5 Standard

28W/841 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	841 [CCT of 4100K]
Color Rendering Index	80 (min), 82 (nom), 85 (max) Ra8
Color Designation	Cool White
Color Temperature	4100 K
Luminous Flux EL	2625 Lm
25°C, Rated	
Luminous Flux EL	2625 Lm
25°C, Nominal	
Initial Lumens	2900 Lm
Lum Efficacy Rated	94 Lm/W
HF 25°C	

Lum Efficacy Rated	104 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	380 -
Chromaticity Coordinate Y	380 -

### • Electrical Characteristics

Watts	28 W
Lamp Wattage EL	27.9 W
25°C, Rated	
Lamp Wattage EL	28 W
25°C, Nominal	
Lamp Wattage EL	27.8 W
35°C	
Lamp Voltage EL	166 V
25°C	
Lamp Voltage EL	167 V
35°C	
Lamp Current EL	0.170 A
25°C	

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Lamp Current EL 0.170 A  
 35°C  
 Dimmable Yes

Insertion Length B 1153.7 (min), 1156.1 (max) mm  
 Overall Length C 1163.2 (max) mm  
 Diameter D 17 (max) mm

• Environmental Characteristics

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

• Measuring Conditions

Calibration Current 0.170 A  
 HF Generator Rated Voltage 329 V  
 Resistor 950 ohm

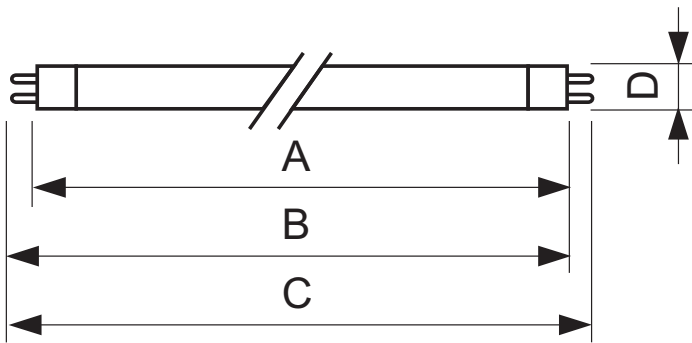
• Product Dimensions

Base Face to Base Face A 1149.0 (max) mm

• Product Data

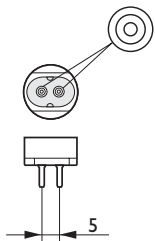
Product number 230862  
 Full product name 28W/841 Min Bipin T5 HE ALTO UNP  
 Short product name 28W/841 Min Bipin T5 HE ALTO UNP/40  
 Pieces per Sku 1  
 eop\_pck\_cfg 40  
 Skus/Case 40  
 Bar code on pack 46677230869  
 Bar code on case 50046677230864  
 Logistics code(s) 927990684022  
 tpd\_ilcos\_cd FDH-28/40/1B-L/P-G5-16/1150  
 eop\_net\_weight\_pp 104.500 gr

## Dimensional drawing



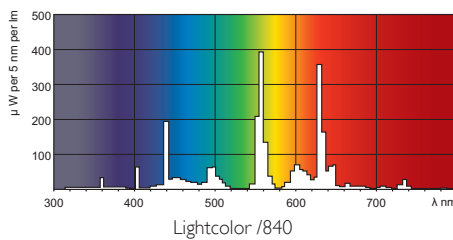
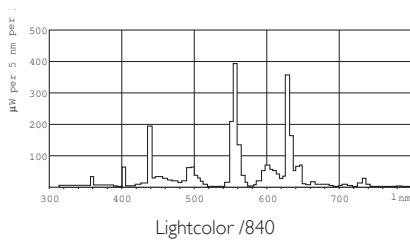
### 28W/841 Min Bipin T5 HE ALTO UNP

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TLS HE F28T5/841 HE Alto	1149.0	1153.7	1156.1	1163.2	17



G5

## Photometric data





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data subject to change