



# 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]
Rated Avg. Life	24000 hr
Life to 10% fail	19000 hr
Preheat EL,3h	
LSF HF Preheat	85 %
20000h Rated,3h	
LSF HF Preheat	94 %
16000h Rated,3h	
LSF HF Preheat	95 %
12000h Rated,3h	
LSF HF Preheat	97 %
8000h Rated,3h	
LSF HF Preheat	98 %
6000h Rated,3h	
LSF HF Preheat	98 %
4000h Rated,3h	
LSF HF Preheat	99 %
2000h Rated,3h	

### • Light Technical Characteristics

Color Code	841 [CCT of 4100K]
Color Rendering Index	82 Ra8
Color Designation	Cool White
Color Temperature	4100 K
Chromaticity Coordinate X	383 -
Chromaticity Coordinate Y	386 -
Initial Lumens	2900 Lm
Lum Efficacy Rated HF 25°C	94 Lm/W

Lum Efficacy Rated HF 35°C	104 Lm/W
LLMF HF 20000h Rated	88 %
LLMF HF 16000h Rated	90 %
LLMF HF 12000h Rated	91 %
LLMF HF 8000h Rated	93 %
LLMF HF 6000h Rated	94 %
LLMF HF 4000h Rated	95 %
LLMF HF 2000h Rated	96 %
Luminous Flux EL 25°C, Rated	2625 Lm
Luminous Flux EL 25°C, Nominal	2625 Lm
Design Temperature	35 C

### • Electrical Characteristics

Watts	28 W
Lamp Voltage EL 25°C	166 V
Lamp Current EL 25°C	0.170 A
Dimmable	Yes
Lamp Wattage EL 35°C	27.8 W
Lamp Current EL 35°C	0.170 A
Lamp Voltage EL 35°C	167 V



# PHILIPS

sense and simplicity

# T5 Standard

Lamp Wattage EL 27.9 W  
 25°C, Rated  
 Lamp Wattage EL 28 W  
 25°C, Nominal

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

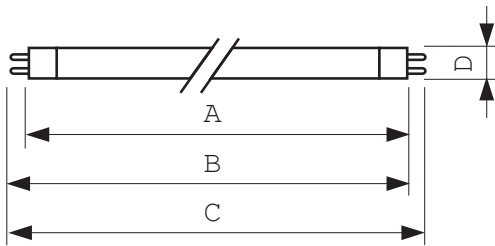
• Product Dimensions

Base Face to Base Face A 1149.0 (max) mm

• Product Data

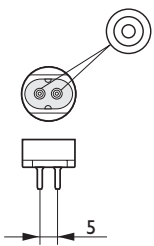
Product number 230862  
 Full product name 28W/841 Min Bipin T5 HE ALTO UNP  
 Short product name 28W/841 Min Bipin T5 HE ALTO UNP/40  
 Pieces per Sku 1  
 eop\_pck\_cfg 40  
 Skus/Case 40  
 Bar code on pack 46677230869  
 Bar code on case 50046677230864  
 Logistics code(s) 927990684022  
 tpd\_ilcos\_cd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

## Dimensional drawing



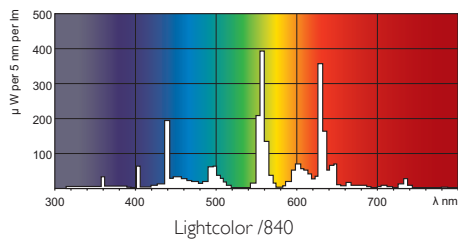
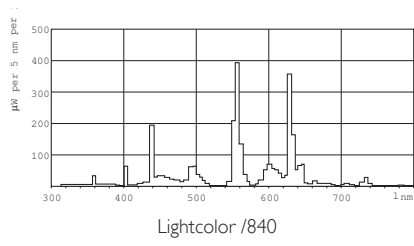
## G5, T5

Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HE F28T5/841 HE Alto	1149.0	1153.7	1156.1	1163.2	17



G5

## Photometric data



© 2012 Koninklijke Philips Electronics N.V.  
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners.

[www.philips.com/lighting](http://www.philips.com/lighting)

2012, April 10  
data subject to change