



T5 Standard

F21T5/830 ALTO

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 Plate
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	830 [CCT of 3000K]
Color Rendering Index	85 Ra8
Color Designation	Warm White
Color Temperature	3000 K
Luminous Flux EL	1850 Lm
25°C, Rated	
Luminous Flux EL	1850 Lm
25°C, Nominal	
Initial Lumens	2100 Lm
Lum Efficacy Rated	90 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	440 -
Chromaticity Coordinate Y	403 -

• Electrical Characteristics

Watts	21 W
Lamp Wattage EL	20.6 W
25°C, Rated	
Lamp Wattage EL	21.0 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

Environmental Characteristics

Energy Efficiency	A+
Label (EEL)	
Mercury (Hg)	1.4 mg
Content	
Energy consumption	23 kWh
kWh/1000h	

Measuring Conditions

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

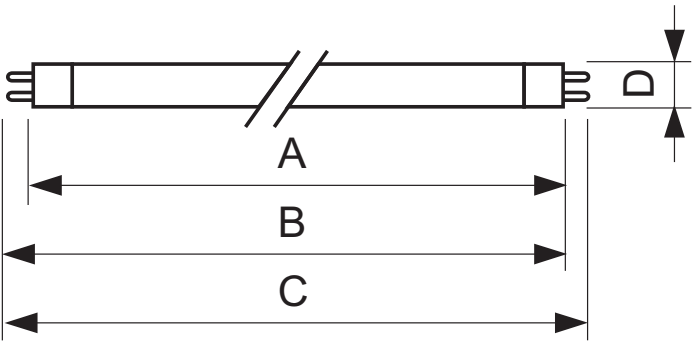
Product Dimensions

Base Face to Base	849.0 (max) mm
Face A	
Insertion Length B	853.7 (min), 856.1 (max) mm
Overall Length C	863.2 (max) mm
Diameter D	17 (max) mm

Product Data

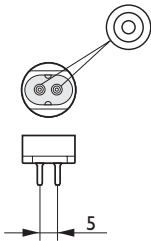
Product number	230813
Full product name	MASTER TL5 HE 21W/830 UNP
Short product name	MASTER TL5 HE 21W/830 UNP/40
Pieces per Sku	1
eop_pck_cfg	40
Skus/Case	40
Bar code on pack	8711500610706
Bar code on case	8711500634405
Logistics code(s)	927926283018
tpd_ilcos_cd	FDH-21/30/1B-L/P-G5-16/850
eop_net_weight_pp	80.500 gr

Dimensional drawing



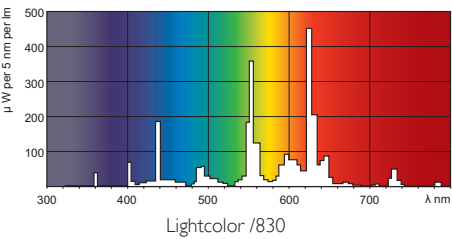
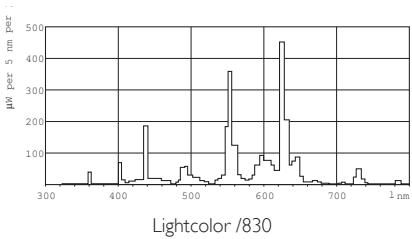
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Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 HE F21T5/830 HE Alto	849.0	853.7	856.1	863.2	17



G5

Photometric data





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