



TL5 Essential HE Super 80

TL5 Essential 28W/830 1SL

Philips TL5 Essential Super80 is a new fluorescent lamp which provides home users and professional end-users an aesthetic miniaturized lighting solution with high reliability at low price.

Product data

• General Characteristics

Cap-Base	G5
Bulb	T5 [16 mm]
Life to 10% fail	10000 hr
Preheat EL,3h	
Life to 50% fail	20000 hr
Preheat EL,3h	
LSF HF Preheat	98 %
2000h Rated,3h	
LSF HF Preheat	97 %
4000h Rated,3h	
LSF HF Preheat	95 %
6000h Rated,3h	
LSF HF Preheat	93 %
8000h Rated,3h	
LSF HF Preheat	84 %
12000h Rated,3h	
LSF HF Preheat	70 %
16000h Rated,3h	
LSF HF Preheat	50 %
20000h Rated,3h	

• Light Technical Characteristics

Colour Code	830 [CCT of 3000K]
Colour Rendering Index	80 (min), 82 (nom), 85 (max) Ra8
Colour Designation	Warm white
Colour Temperature	3000 K
Luminous Flux EL	2600 Lm
25°C, Rated	
Luminous Flux EL	2600 Lm
25°C, Nominal	
Luminous Flux Lamp EL 35°C	2900 Lm
Lum Efficacy Rated HF 25°C	94 Lm/W

Lum Efficacy Rated HF 35°C	104 Lm/W
Luminance Average EL 25°C	1.5 cd/cm2
LLMF HF 2000h Rated	94 %
LLMF HF 4000h Rated	92 %
LLMF HF 6000h Rated	91 %
LLMF HF 8000h Rated	90 %
LLMF HF 12000h Rated	88 %
LLMF HF 16000h Rated	87 %
LLMF HF 20000h Rated	86 %
Design Temperature	30 C
Chromaticity Coordinate X	440 -
Chromaticity Coordinate Y	403 -

• Electrical Characteristics

Lamp Wattage	28 W
Lamp Wattage EL 25°C, Rated	27.8 W
Lamp Wattage EL 25°C, Nominal	28 W
Lamp Wattage EL 35°C	27.8 W
Lamp Voltage EL 25°C	165 V
Lamp Voltage EL 35°C	165 V

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Lamp Current EL 25°C	0.170 A
Lamp Current EL 35°C	0.170 A
Dimmable	yes

• Environmental Characteristics

Energy Efficiency Label (EEL)	A
Mercury (Hg) Content	2.0 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
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Insertion Length B	1153.7 (min), 1156.1 (max) mm
Overall Length C	1163.2 (max) mm
Diameter D	17.0 (max) mm

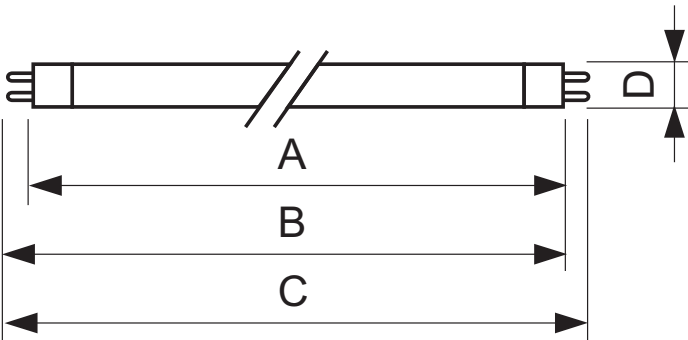
• Product Data

Order code	570437 55
Full product code	871150057043755
Full product name	TL5 Essential 28W/830 UNP
Order product name	TL5 Essential 28W/830 UNP/40
Pieces per pack	1
Packing configuration	40
Packs per outerbox	40
Bar code on pack - EAN1	8711500570437
Bar code on outerbox - EAN3	8711500570444
Logistic code(s) - 12NC	927926783058
Net weight per piece	0.096 kg

Warnings and Safety

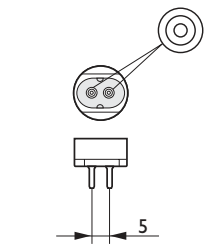
- 20,000 hours lifetime (50% survival point, 3 hour cycle) with preheat ballast which is ENEC compliant. Lifetime performance may differ on non-ENEC compliant ballasts.

Dimensional drawing



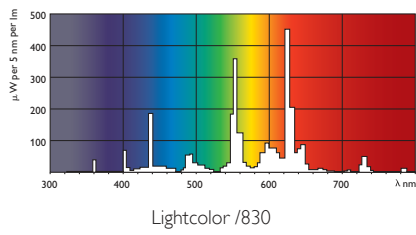
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Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL5 ESS 28W/830	1149.0	1153.7	1156.1	1163.2	17.0



G5

Photometric data



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www.philips.com/lighting

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data subject to change