



Features

- Energy saving replacement for halogen ES111 GU10 lamps
- High lumen output - 1000lm
- Compact design, same diameter as the halogen lamp
- Stippled lens to help reduce glare and recreate the halogen light effect
- 25° beam angle
- High lumen intensity – 4500 cd
- 90% energy saving – A+ EEL rating
- 11.5 W equivalent to 122W
- Dimmable
- 25,000 H average rated life, last 12.5 times longer than halogen alternatives
- 0.90 power factor
- > 50,000X switching cycle
- High lumen efficacy –87 lm/W
- CRI 80

Product Overview

Product name	RefLED ES111 1000LM DIM 830 25°SL
Technology	LED
Watt (Rated) (W)	11.5
Lamp shape	Reflector
Type	RefLED ES111
Cap/Base	GU10
Fixture rating	Open
General application	Hospitality, Retail, Residential & Consumer, Museums & Galleries
ETIM Class	EC001959
E-number FI	4740563
E-number SE	8292815
Colour temperature (K)	3000
Light colour	Warm White
CRI (Ra)	80
Colour Consistency (SDCM)	6
Colour Variation Initial (SDCM)	6
Beam Angle (°)	25
Wattage (W)	11.5
Product Voltage (V)	230
Dimmable	Yes

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Average life (Nominal) (h)	25000
Product EAN number	5410288276366
Warranty	3 years
Colour Code	830

Data table

GENERAL DATA

Product name	RefLED ES111 1000LM DIM 830 25°SL
Technology	LED
Watt (Rated) (W)	11.5
Lamp shape	Reflector
Type	RefLED ES111
Cap/Base	GU10
Fixture rating	Open
General application	Hospitality, Retail, Residential & Consumer, Museums & Galleries
Performance ambient temperature Tq (°C)	25
ETIM Class	EC001959
E-number FI	4740563
E-number SE	8292815
Warranty	3 years

OPTICAL DATA

Colour temperature (K)	3000
Light colour	Warm White
Colour Code	830
CRI (Ra)	80
Colour Consistency (SDCM)	6
Colour Variation Initial (SDCM)	6
Adjustable chromaticity	N
Luminous Intensity (cd)	4500
Beam Angle (°)	25

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ELECTRICAL DATA

Wattage (W)	11.5
Starting time (max) (s)	0.5
Warm-up time to 60% of full light (max) (s)	2
Current (A)	55
Mains voltage (V)	220-240V
Product Voltage (V)	230
Lamp power factor	0.9
Control gear required	No
No. Of switching cycles before premature failures	>50000
Transformer required	Yes
Dimmable	Yes
Lamp Energy Label (class)	F
Nominal Frequency (Hz)	50/60Hz

LIFETIME DATA

Average life (Nominal) (h)	25000
Average life (Rated) (h)	25000

PHYSICAL DATA

Nominal Product Length (mm)	65
Nominal Product Diameter (mm)	111
Weight (kg)	0.155

PACKAGING

Single packaging type	Carton
Product EAN number	5410288276366
Packaging single length / height (cm)	11.5
Packaging single width (cm)	11.5
Packaging single depth (cm)	7.8
DUN14 (inner)	25410288276360



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Units per inner package	6
Packaging inner length / height (cm)	36.5
Packaging inner width (cm)	12.5
Packaging inner depth (cm)	17.0
DUN14 (outer)	15410288276363
Units per outer package	24
Packaging outer length / height (cm)	38.3
Packaging outer width (cm)	27.0
Packaging outer depth (cm)	36.5

SAFETY DATA

Breakage cleaning instructions	Not applicable
Special purpose lamp	No
Dry applications use only	Yes
Suitable for household illumination	Yes
Safety message	Not Suitable for totally enclosed fixtures