



Product features

- LED retrofit replacement for halogen G9 mains voltage capsules
- ToLEDo Retro G9 has the same look and feel as halogen design thanks to glass construction body and wide light distribution
- Compact design
- Omni-directional light distribution
- 470lm = 40W halogen G9 lamp
- 90% energy saving
- Non-dimmable
- Suitable for chandeliers, interior display, shop windows, decorative and general lighting applications











PRODUCT OVERVIEW

Product name ToLEDo Retro G9 CL 470LM 865 SL Technology LED Watt (Rated) (W) 4.2 Type LED exchangeable Cap/Base G9 Fixture rating Open General application Hospitality, Residential & Consumer ETIM Class EC001959 E-number FI 4741143 Warranty 3 years Luminous flux (Im) Colour temperature (K) 6500 Light colour CRI (Ra) Colour Variation Initial (SDCM) Photobiological Risk Group Wattage (W) Product Voltage (V) Dimmable No Average life (Nominal) (h) Product EAN number LED Availation G9 CL 470LM 865 SL LED LED Availation G9 CL 470LM 865 SL LED Availation G9 CL 470LM 865 SL LED Availation G9 LED Availatio		
Watt (Rated) (W) Type LED exchangeable Cap/Base G9 Fixture rating Open General application Hospitality, Residential & Consumer ETIM Class EC001959 E-number FI 4741143 Warranty 3 years Luminous flux (Im) Colour temperature (K) 6500 Light colour Daylight CRI (Ra) R0 Colour Variation Initial (SDCM) Photobiological Risk Group Wattage (W) 4.2 Product Voltage (V) Dimmable No Average life (Nominal) (h) 15000	Product name	ToLEDo Retro G9 CL 470LM 865 SL
Type LED exchangeable Cap/Base G9 Fixture rating Open General application Hospitality, Residential & Consumer ETIM Class EC001959 E-number FI 4741143 Warranty 3 years Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Technology	LED
Cap/Base G9 Fixture rating Open General application Hospitality, Residential & Consumer ETIM Class EC001959 E-number FI 4741143 Warranty 3 years Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Watt (Rated) (W)	4.2
Fixture rating Open General application Hospitality, Residential & Consumer ETIM Class EC001959 E-number FI 4741143 Warranty 3 years Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Туре	LED exchangeable
General application Hospitality, Residential & Consumer ETIM Class EC001959 E-number FI 4741143 Warranty 3 years Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Cap/Base	G9
ETIM Class EC001959 E-number FI 4741143 Warranty 3 years Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Fixture rating	Open
E-number FI 4741143 Warranty 3 years Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	General application	Hospitality, Residential & Consumer
Warranty 3 years Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	ETIM Class	EC001959
Luminous flux (Im) 470 Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	E-number FI	4741143
Colour temperature (K) 6500 Light colour Daylight CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Warranty	3 years
Light colour CRI (Ra) Colour Variation Initial (SDCM) Photobiological Risk Group Wattage (W) Product Voltage (V) Dimmable Average life (Nominal) (h) R0 80 SDCM6 PG1 4.2 Product Voltage (V) 230 No Average life (Nominal) (h) 15000	Luminous flux (Im)	470
CRI (Ra) 80 Colour Variation Initial (SDCM) SDCM6 Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Colour temperature (K)	6500
Colour Variation Initial (SDCM) Photobiological Risk Group Wattage (W) Product Voltage (V) Dimmable Average life (Nominal) (h) SDCM6 RG1 4.2 Product Voltage (V) 230 No Average life (Nominal) (h) 15000	Light colour	Daylight
Photobiological Risk Group RG1 Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	CRI (Ra)	80
Wattage (W) 4.2 Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Colour Variation Initial (SDCM)	SDCM6
Product Voltage (V) 230 Dimmable No Average life (Nominal) (h) 15000	Photobiological Risk Group	RG1
Dimmable No Average life (Nominal) (h) 15000	Wattage (W)	4.2
Average life (Nominal) (h) 15000	Product Voltage (V)	230
	Dimmable	No
Product EAN number 5410288296715	Average life (Nominal) (h)	15000
	Product EAN number	5410288296715



DATA TABLE

General data	
Product name	ToLEDo Retro G9 CL 470LM 865 SL
Technology	LED
Watt (Rated) (W)	4.2
Туре	LED exchangeable
Cap/Base	G9
Fixture rating	Open
General application	Hospitality, Residential & Consumer
Operating temperature range (°C)	-20°C+45°C
Performance ambient temperature Tq (°C)	25
ETIM Class	EC001959
E-number FI	4741143
Warranty	3 years
Optical data	
Luminous flux (Im)	470
Luminous flux (Rated) (lm)	470
Colour temperature (K)	6500
Light colour	Daylight
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM6
Photobiological Risk Group	RG1
Lumen maintenance at end of nominal life (%)	70
Electrical data	
Wattage (W)	4.2
Equivalent watt (W)	40
Product Voltage (V)	230
Control gear required	No
No. Of switching cycles before premature failures	>50000
Transformer required	No
Dimmable	No
Inrush Current (A)	1.2
Inrush Duration (µs)	520
Lamp Energy Label (class)	E
Nominal Frequency (Hz)	50/60Hz
Max. Luminaires per 16A C Breaker	133
Max. Luminaires per 16A B Breaker	66
Lifetime data	
Lifespan L70 B50	15000
Average life (Nominal) (h)	15000
	13000
Average life (Rated) (h)	15000



	cal c	

Nominal Product Length (mm)	55.5
Nominal Product Diameter (mm)	18
Weight (kg)	0.007

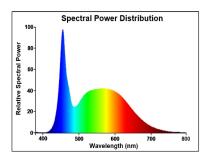
Packaging

Single packaging type	Carton
Product EAN number	5410288296715
Packaging single length / height (cm)	8.2
Packaging single width (cm)	6.1
Packaging single depth (cm)	5.1
DUN14 (outer)	15410288296712
Units per outer package	6
Packaging outer length / height (cm)	19.1
Packaging outer width (cm)	10.2
Packaging outer depth (cm)	9.2

Safety data

Optimal operating condition (°C)	-20-45
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

PHOTOMETRY



TECHNICAL DRAWINGS



