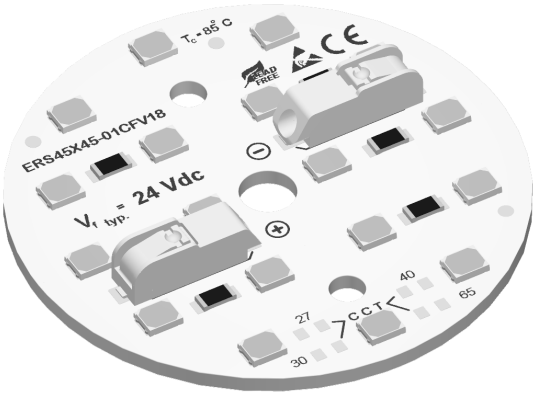
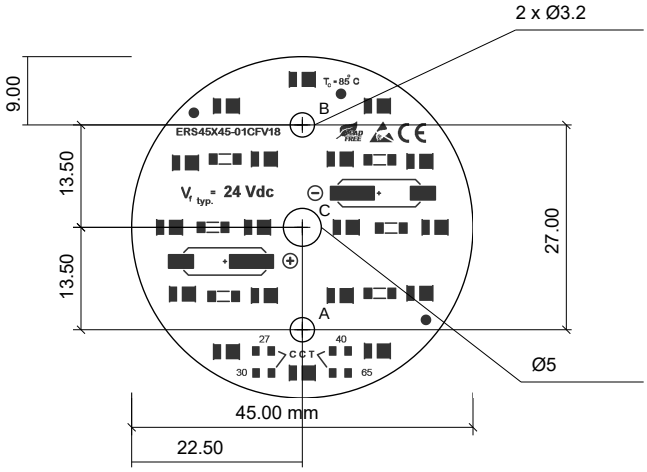
ERS45X45-01CFV18

ROUND LED MODULE

Downlight

Spotlight





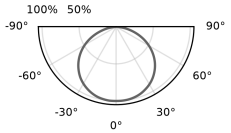
VOLTAGE / CURRENT (1 item)	POWER (1 item)	DIMENSIONS	CCT / lm / lm/W (1 item)
24.00 V · 187.5 mA	4.50 W	45.00 × 1.6 mm	2700 K: 528 / 117 3000 K: 553 / 123 4000 K: 578 / 128 6500 K: 578 / 128

Module Product Code	**ERS45X45-01CFV18**
Applications	Downlights and spotlights
Photometric Data	
Colour Temperatures	2700 / 3000 / 4000 / 6500 K
Colour Consistency	MacAdam Step-3
Luminous Flux (1 item)	528 / 553 / 578 / 578 lm
CRI [Ra]	80
Efficacy [lm/W]	117 / 123 / 128 / 128
Beam Angle	120° (typical LED)
Life L80B10C1 [hours]	40,000
Electrical Data - typical at 25 °C	
Operating Mode	Constant voltage
Voltage (1 item)	24.00 V
Current (1 item)	187.5 mA
Power (1 item)	4.50 W
Dimming	With compatible 24 V PWM controller
Circuit / LED Current	6S × 3P / 62.50 mA / LED

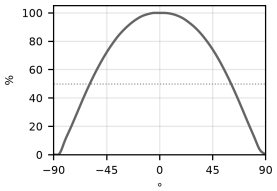
Dimensions / Mechanical Data		**Components / Packages / Temperature**	
Width	45.00 mm	LED / Package	3AAT / 2835
Length	45.00 mm	Resistor	6 × 1206
Thickness	1.6 mm	Connector	2 × WAGO
PCB Material	CEM-1	Operating Temperature [Tc]	-40 … +85 °C
LED Count	18	Ambient Temperature	-40 … +50 °C
Mounting holes	2 × Ø3.2 + Ø5	Source	DS522-1 / Fig.7

TYPICAL DISTRIBUTION OF THE LED USED

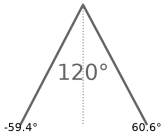
Polar Distribution



Angle - Relative Intensity



50% Intensity Angle



Schematic angle display

Bridgelux DS522-1 Rev.B, p.12 Fig.7; curve at 150 mA, Tsp=25 °C. Not a module/luminaire measurement.

24 V / 4.5 W user declaration; total 187.5 mA, 6S3P, 62.5 mA/LED. Typical LED flux at 25 °C; thermal/optical losses excluded, not a module measurement. The 2.9 V floor applies only to LED/resistor power allocation.