ELS18X495-01CFV84

LINEAR LED MODULE



Linear luminaire | Drum luminaire | Ring luminaire | Batten luminaire

VOLTAGE / CURRENT (50 cm)	POWER (50 cm)	DIMENSIONS	CCT / lm / lm/W (50 cm)
24 V · 666.7 mA	16 W	18 × 495 mm	2700 K: 1808 / 113 3000 K: 2043 / 128 4000 K: 2200 / 138 6500 K: 2200 / 138

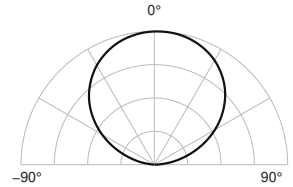
TECHNICAL DATA

Module Product Code	**ELS18X495-01CFV84**
Applications	Linear, batten, ring and drum luminaires
Photometric Data	
Colour Temperatures	2700 / 3000 / 4000 / 6500 K
Colour Consistency	MacAdam Step-3
Luminous Flux (50 cm)	1808 / 2043 / 2200 / 2200 lm
CRI [Ra]	80
Efficacy [lm/W]	113 / 128 / 138 / 138
Beam Angle	120° (typical LED)
Life L80B10C1 [hours]	40,000
Electrical Data - typical at 25 °C	
Operating Mode	Constant voltage
Voltage (50 cm)	24 Vdc
Current (50 cm)	666.7 mA
Power (50 cm)	16 W
Dimming	With compatible 24 V controller
Circuit / LED Current	6 × (7S × 2P) / 55.56 mA / LED

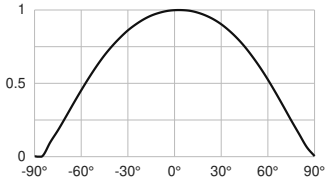
Dimensions / Mechanical Data		**Components / Packages / Temperature**	
Width	18 mm	LED / Package	11L-3BT / 2835
Length	495 mm	Resistor	12 × 1206
Thickness	1.6 mm	Connector	—
PCB Material	CEM-3	Operating Temperature [Tc]	-40 … +85 °C
LED Count	84 / 50 cm	Ambient Temperature	-40 … +50 °C
V-cut (catalogue nominal)	82.5 mm	Source	DS215-9 / Fig.7

TYPICAL DISTRIBUTION OF THE LED USED

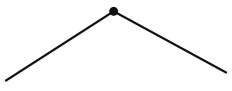
Polar Distribution



Angle - Relative Intensity



50% Intensity Angle

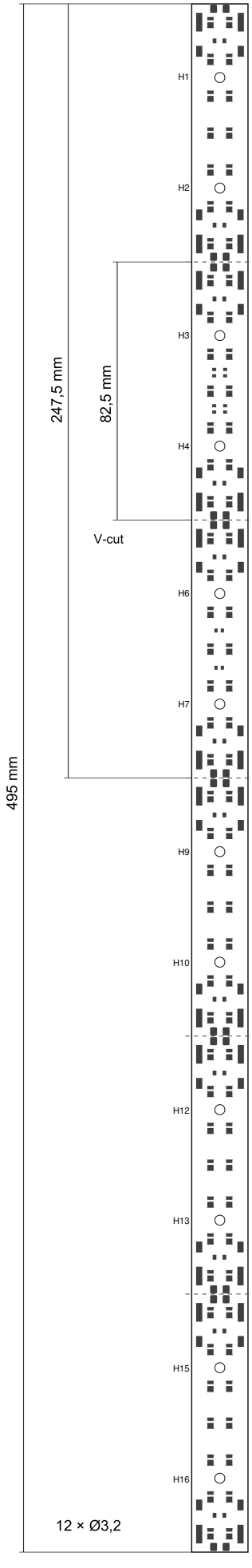


≈ 119°

I / Imax = 0.5

Bridgelux DS215-9, p.12 Fig.7; 60 mA, Tsp=25 °C. LED curve; not a module/lens measurement.

User rating (50 cm): 24 V / 16 W, 666.7 mA; 55.56 mA per LED. Typical LED total; thermal/optical losses excluded, not a module measurement.



Mounting: X from left / Y from top (mm)

H1 23.54 / 8.99; H2 58.88 / 9.00
H3 106.05 / 9.00; H4 141.39 / 9.00
H6 188.52 / 9.00; H7 223.86 / 9.00
H9 271.05 / 9.00; H10 306.39 / 9.00
H12 353.55 / 9.00; H13 388.89 / 9.00
H15 436.04 / 9.00; H16 471.39 / 9.00
H1-H2: 35.34 mm; H1-H3: 82.51 mm