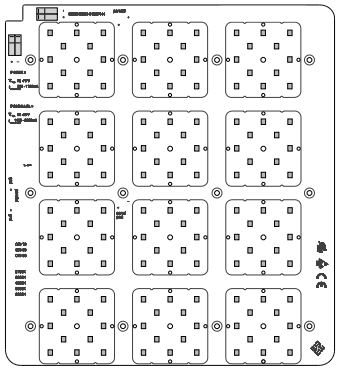
ESS210X230-01ACP144



Petrol station lighting

CANOPY LED MODULE

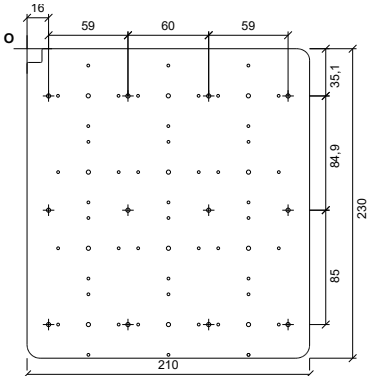


VOLTAGE / CURRENT (1 item)	POWER (1 item)	DIMENSIONS	CCT / lm / lm/W (1 item)
72 V · 1400 mA	Approx. 100 W	210 × 230 × 1.6 mm	2700 K: 13571 / 136 3000 K: 14039 / 140 4000 K: 14741 / 147 6500 K: 14741 / 147

TECHNICAL DATA

Module Product Code	**ESS210X230-01ACP144**
Applications	Canopy luminaires
Photometric Data	
Colour Temperatures	2700 / 3000 / 4000 / 6500 K
Colour Consistency	MacAdam Step-3
Luminous Flux (1 item)	13571 / 14039 / 14741 / 14741 lm
CRI [Ra]	80
Efficacy [lm/W]	136 / 140 / 147 / 147
Beam Angle	120° (typical LED)
Life L80B10C1 [hours]	40,000
Electrical Data - nominal / approximate	
Operating Mode	Constant current
Voltage (1 item)	Series: 72 V; parallel: 36 V
Current (1 item)	Series: 1400; parallel total: 2800 mA
Power (1 item)	Approx. 100 W
Dimming	With compatible driver
Circuit / LED Current	2 × (6S12P); 116.7 mA/LED

Dimensions / Mechanical Data		**Components / Packages / Temperature**	
Width	210 mm	LED / Package	LM282B+ / 2835
Length	230 mm	Resistor	None
Thickness	1.6 mm	Connector	4 × WAGO
PCB Material	Aluminium	Operating Temperature [Tc]	-40 … +85 °C
LED Count	144 / 1 item	Ambient Temperature	-40 … +50 °C
Mounting holes	27 × Ø3.1; 46 × Ø2.05	Source	LM282B+ / p.25



O: left/top edge; X right, Y down.

12 selected mounting centres

X: 16.001 / 75.001 mm

X: 135.001 / 194.001 mm

Y: 35.105 / 120.005 / 205.005

Ø3.1 mm

ΔX: 59 / 60 / 59 mm

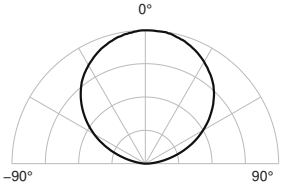
ΔY: 84.900 / 85.000 mm

210 × 230 mm

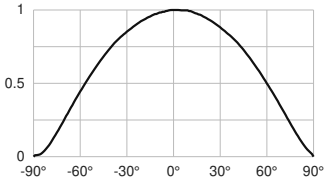
Dimensions in mm; not a 1:1 drilling template.

TYPICAL DISTRIBUTION OF THE LED USED

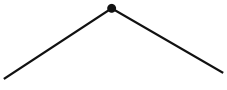
Polar Distribution



Angle - Relative Intensity



50% Intensity Angle



≈ 117°

I / Imax = 0.5

Samsung LM282B+ SA/SB Rev.0.5, p.25; 150 mA, Ta=25 °C. Manufacturer LED curve; not a module/lens measurement.

Flux: SA bin midpoint, 25 °C, equal sharing at 116.7 mA/LED. Optical/thermal/driver losses excluded. Approx. 100 W user declaration; 72 V × 1.4 A = 100.8 W nominal. Not a module measurement.