

Increased Visibility &
Reduced Energy Consumption



LED

Canopy Downlight

LOW BAY LIGHTS

An Environmentally Friendly Option

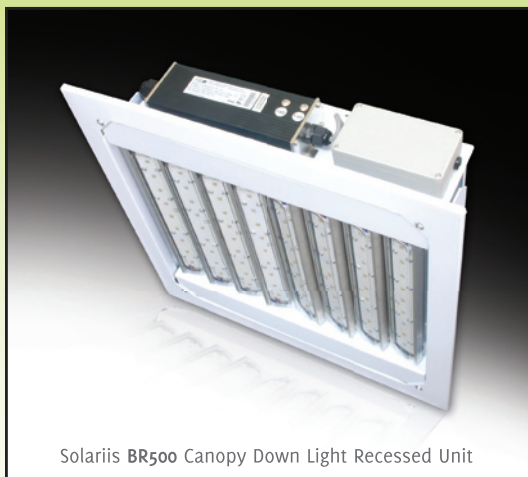
BR500 & BS500 Series



SolariisTM
Innovative Ambient Lighting

LED Low Bay Lights BR500 and BS500 Series

The Solariis **BR500** and **BS500** Low Bay Down Lights are specially designed to replace conventional luminaires in Petrol Stations Forecourts and Industrial facilities.



Solariis BR500 Canopy Down Light Recessed Unit



Solariis BS500 Canopy Down Light Surface Mounted Unit

Input Voltage	100~240Vac (+/- 10%)
Power Factor	>0.9
Total Harmonic Distortion	<20%
Class Insulation	Class 2
Operating Temp (Deg C)	-30 to +50
Color Rendering Index (CRI)	80
Color Temp	6000K - 7000K
CIE Color Coordinates	x=0.31, y=0.32 CIE 1931 (white)
IP Rating	IP66
RoHS Compliant	Yes
CE Compliant	Yes
UL Compliant	Application Pending
Warranty	3 Years

Advantages

- Efficiency** • Produce more light per watt than incandescent bulbs.
- Color** • Emit light of an intended color without the use of color filter that traditional lighting methods require. Light illumination with CRI 80 offers true daylight.
- Dimming** • Easily be dimmed either by Pulse-width modulation or lowering the forward current.
- Cool Light** • Radiate very little heat in the form of IR that can cause damage to sensitive objects or fabrics.
- Lifespan** • Have relatively long useful life and estimated more than 50,000 hours. Reduce maintenance costs and eliminates work at elevated height.
- Shock Resistance** • LEDs, being solid-state components, are difficult to damage with external shock, unlike incandescent bulbs which are fragile.
- Focus** • The solid package of the LED is designed to focus its light. Incandescent source often require an external reflector to collect light and direct it in a usable manner.

Toxicity • LEDs do not contain harmful mercury, unlike incandescent bulbs. No disposal cost.

Dark Skies Friendly • Emit directional light, more control on the unit lights. This makes for easier compliance with the Dark Skies Initiative, which aims to reduce light pollution and its associated wildlife impacts.

Specifications

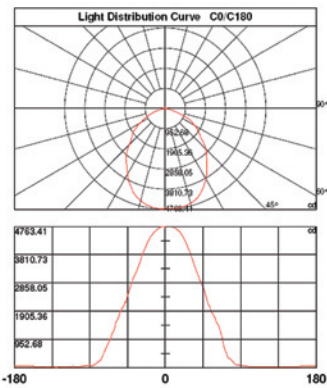
No of Leds	fwd current at 220mA (low mode)			fwd current at 350mA (medium mode)			fwd current at 500mA (high mode)		
	Power to Leds (W)	System Power (W)	Luminous Flux in (Lumen)	Power to Leds (W)	System Power (W)	Luminous Flux in (Lumen)	Power to Leds (W)	System Power (W)	Luminous Flux in (Lumen)
36	25	30	2160	40	47	3096	58	68	3960
48	34	40	2880	54	63	4128	77	90	5280
60	42	49	3600	67	79	5160	96	113	6600
72	50	59	4320	81	95	6192	115	136	7920
84	59	69	5040	94	111	7224	134	158	9240
96	67	79	5760	108	126	8256	154	181	10560

Data on the above chart is based on ambient operating temperature of 25° C

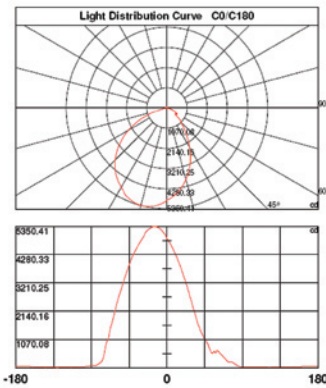
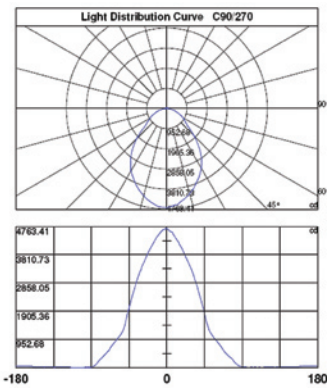
Forward Current on Lumen and Power Multiplier			Color on Lumen Multiplier		Operating Temperature on Lumen Multiplier	
Forward Current in mA	Lumen Multiplier	Power Multiplier	CCT	Lumen Multiplier	Ambient Temp Deg C	Lumen Multiplier
220	0.70	0.62	6500	1.00	-20	1.06
350	1.00	1.00	4300	0.80	0	1.02
500	1.28	1.40	3500	0.75	25	1.00
					40	0.96
					60	0.92

Intensity Distribution Curves

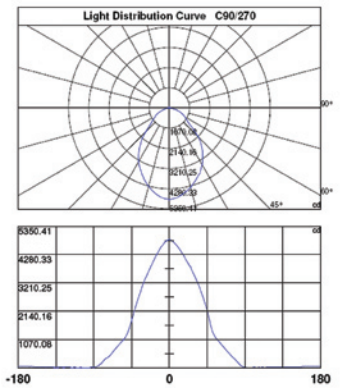
BR500 and BS500 LED Low Bay lights are available in both Symmetrical and Asymmetrical configurations.



Photometric Data for Solariis 90 Symmetrical at 500mA

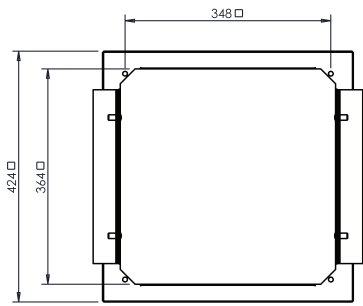


Photometric Data for Solariis 90 Asymmetrical at 500mA

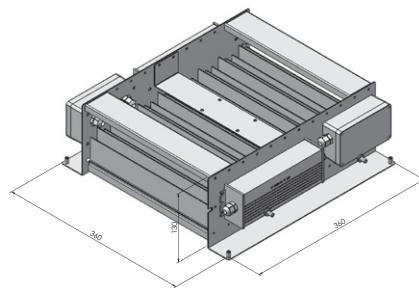


Dimensions

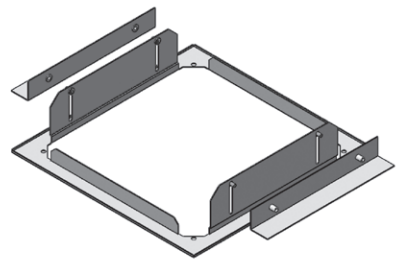
BR-500 Symmetrical and Asymmetrical Recess Mounting Type



Size of hole opening on ceiling 380x380

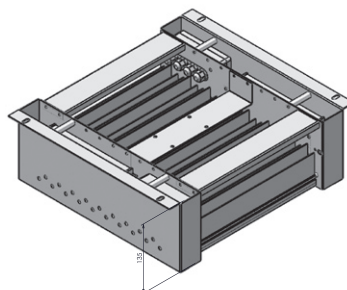
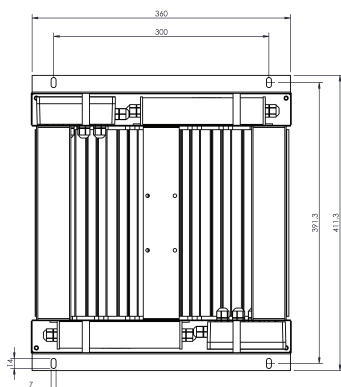


Luminaire

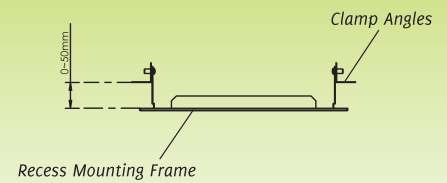


Recess Mounting Frame

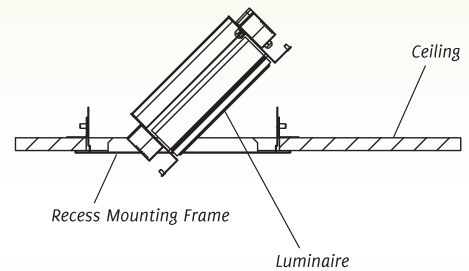
BS-500 Symmetrical and Asymmetrical Surface Mounting Type



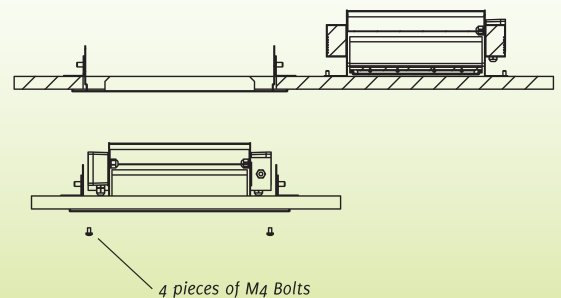
Installation Procedure for Recess Mounting



- Step 1** Make an opening on ceiling approx. 380mm x 380mm.
- Step 2** Insert Recess Mounting Frame and Clamp ceiling using the two adjustable Clamp angles. Ceiling thickness not to exceed 50mm.



- Step 3** Insert Luminaire at an incline through opening of Recess Mounting Frame.



- Step 4** Rest Luminaire on ceiling and align to orientation required.
- Step 5** Connect the AC supply through the cable glands. AC supply shall be 3 core with external diameter of 6mm.
- Step 6** Sit Luminaire into Recess Mounting Frame and fasten Luminaire to frame using the 4 pieces of M4 Bolts provided.



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B R 5 0 0 - A 1 - 8

Model Name Structure

B Version

R Mounting Type
R - Recessed
S - Surface-mounted

5
0 Forward Current
0

A Light Orientation
A - Asymmetrical
S - Symmetrical

1 1 - with sensor
2 - without sensor

8 Number of light module
