LUCE SOLARE

BLS-10A

The **LUCE SOLARE BLS-10A** is a solar street and area lighting solution that integrates the solar panel, battery and LED module into a single product. **BLS-10A** provides energy savings, high luminance and low maintenance.

BLS-10A design and technology eliminates the need for bulky external battery boxes, while maintaining maximum light by using high efficiency solar cells and LEDs.

The **BLS-10A** incorporates a night sensor that detects ambient light and will automatically turn the **BLS-10A** on and off as per the preset programs.

APPLICATION: The **BLS-10A** is ideal for temporary lighting, pathways, parking areas, public walkways, parks and roads.

IP65 WET RoHS COMPLIANT FC

SPECIFICATIONS

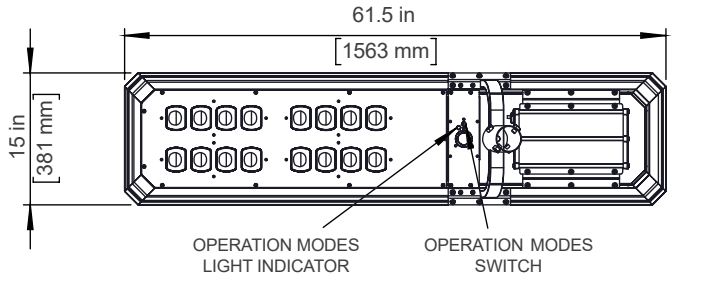
Solar Panel	72W
Battery	Li-ion Battery / 45 Ah
Lumen Output	8000 lm @ 6500°K (1)
LED Efficacy	109 lm/W
After Full Charge Operation Time	36 hrs
Indicator For One Night Operation	light indicator will blink 3 times every 15 minutes during the night
Discharge Time	10-12 hrs
Discharge Operating Temperature	-20°C(-4°F) to 60°C(140°F)
Charge Time	9-11 hrs
Charging Operating Temperature	0°C(32°F) to 45°C(113°F)
Min. Solar Direct Normal Irradiance	1 KWH/m²/day
Operation Mode (Green Light)	5 hrs @ (100%) + 7 hrs @ (30%+PIR 100%)
Operation Mode (Orange Light)	5 hrs @ (70%) + 7 hrs @ (30%+PIR 100%)
Operation Mode (Red Light)	12 hrs @ (30% + PIR 100%)
Performance Orientation	South 100%; East 75%; West 70%; North 46%
Mounting Height (2)	6 - 7.6m (19.7 - 25 ft)
Effective Projected Area (EPA)	6.4 ft²
Certifications	IP65 / ROHS / FCC
Weight	45 pounds / 20.4 kgs
Warranty	3 years

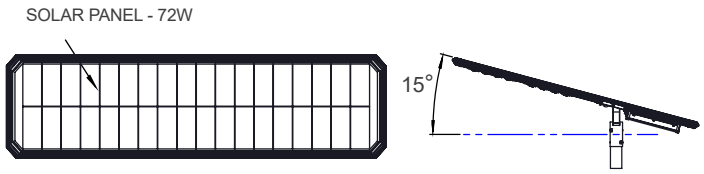
NOTE 1: For other color temperatures (3500K,4000K,5000K), contact factory.
NOTE 2: The mounting height is an estimate and depends on the application.

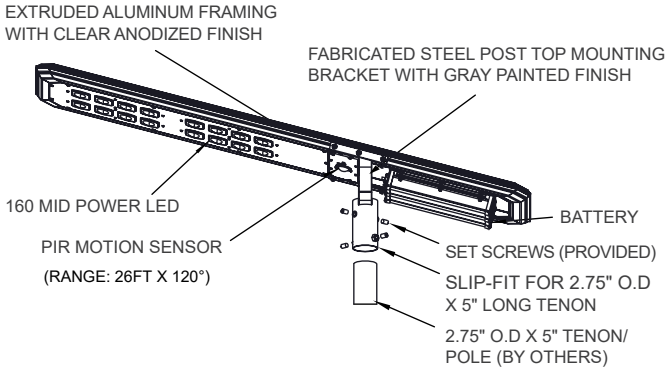
Battery Warranty: **3 years warranty.**

ADVANTAGES

- Integrated Solution
- Environmentally Friendly
- Easy Installation
- $0 energy cost
- IP65
- Type II Distribution







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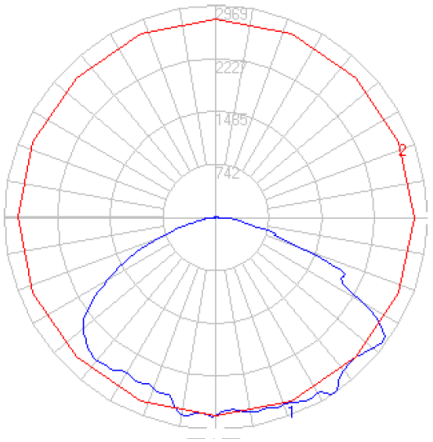
PHOTOMETRICS

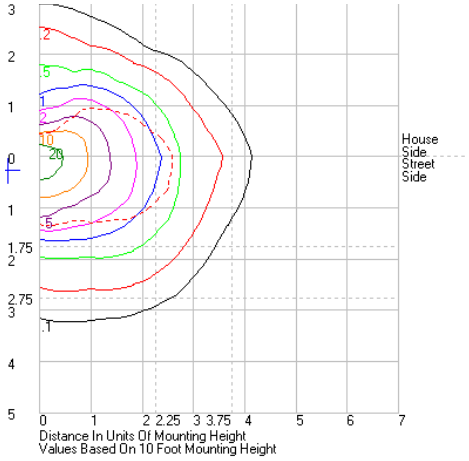
POLAR CURVES

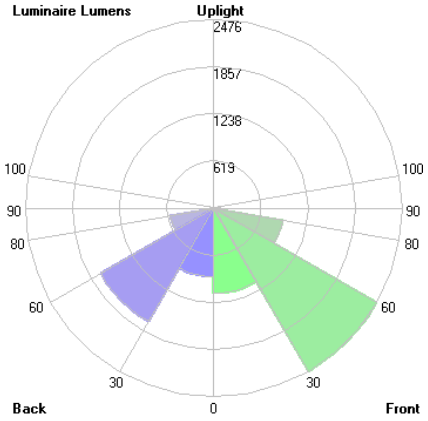


Characteristics

IES Classification	Type II
Longitudinal Classification	Very Short
Luminaire Lumens	8148
Downward Total Efficiency	80 %
Total Luminaire Efficiency	80 %
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	83
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Max. Cd.	2969.072 (292.5H, 34V)
Max. Cd. (<90 Vert.)	2969.072 (292.5H, 34V)
Max. Cd. (At 90 Deg. Vert.)	87.728 (0.9%Lamp)
Max. Cd. (80 to <90 Deg. Vert.)	453.112 (4.4%Lamp)
Cutoff Classification (deprecated)	Cutoff

ISOLINES





SPACING

Metric units	100 % LUMEN OUTPUT				30 % LUMEN OUTPUT			
	MH = 19.7 ft (6m)		MH = 25 ft (7.6m)		MH = 19.7 ft (6m)		MH = 25 ft (7.6m)	
	Spacing to 0.5 fc	Spacing to 1 fc	Spacing to 0.5 fc	Spacing to 1 fc	Spacing to 0.5 fc	Spacing to 1 fc	Spacing to 0.5 fc	Spacing to 1 fc
ft	37.7	29.9	40.5	31.4	24.4	15.7	23.1	11.4
m	11.5	9.1	12.3	9.6	7.4	4.8	7.0	3.5

LUMEN OUTPUT PERCENT

LUMEN OUTPUT (LM)		
100%	70%	30%
7860	5502	2358

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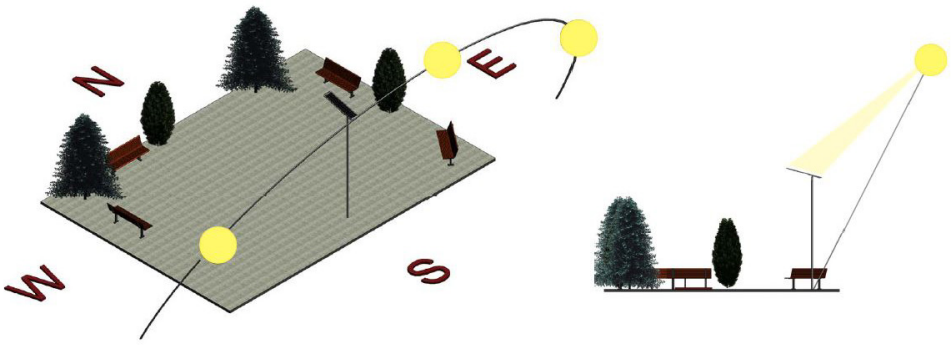
ORIENTATION

NORTHERN HEMISPHERE

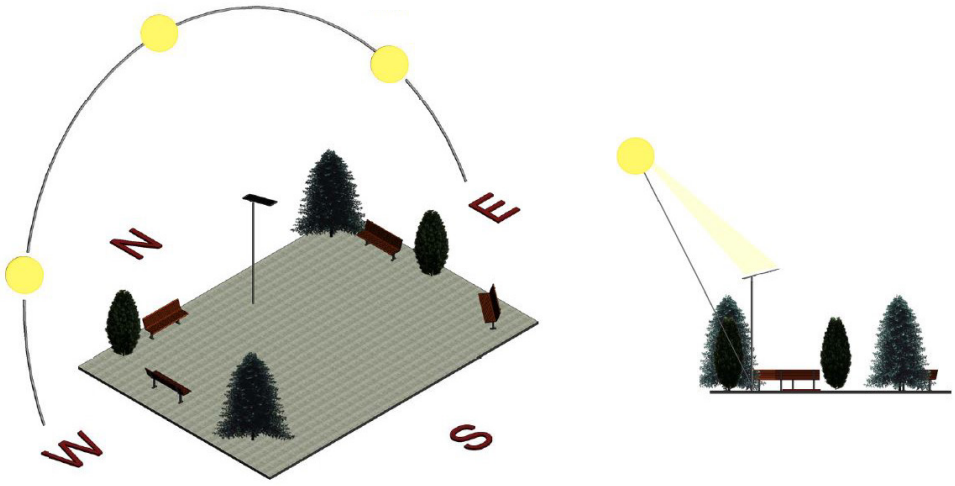
Sun's Path in the sky



These graphics illustrate Luce Solare orientation, in which the fixture can absorb the maximum solar energy from the sun (south 100% - refers to product specs).

SOUTHERN HEMISPHERE

Sun's Path in the sky



These graphics illustrate Luce Solare orientation, in which the fixture can absorb the maximum solar energy from the sun (north 100%).