



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

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 low-profile fixture. **BLS-10A** utilizes battery technology that will not drain below 10% capacity to ensure reliable re-charge for maximum performance.

The **BLS-10A** design eliminates bulky external battery boxes, while maximizing light output by using high efficiency mono-crystalline silicon solar cells and LEDs.

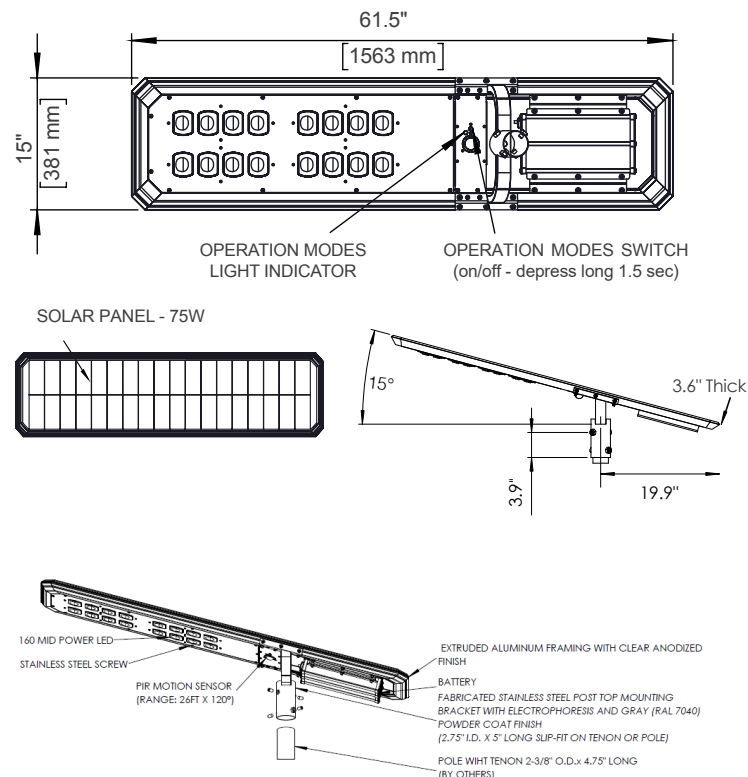
The **BLS-10A** incorporates a night sensor to detect ambient light and automatically turn the fixture on/off. An indicator light will blink 3x every 15 minutes during operation.

SPECIFICATIONS

System Power Delivery	56.6W
Solar Panel	75W, 16.2V
LI-ION Battery	692.6 Wh, 46.8 Ah, 14.8V
Lumen Output	8148lm @ 5700°K ⁽¹⁾ (5SCDM)
3030 LEDs	180-190lpw @ 150mA, 5.8-6V
Operation Time	36 hrs (after full charge)
Discharge Time	10-12 hrs
Discharge Operating Temperature	-20° to 60°C (-4° to 140°F)
Charge Time	10-12 hrs minimum
Charge Operating Temperature	0° to 60°C (32° to 140°F)
Min. Solar Direct Normal Irradiance	0.2 KWh/m ²
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%)
Mounting Height ⁽²⁾	21-32 ft
Effective Projected Area (EPA)	6.4 ft ²
Distribution / Bug Rating	Type II/ B2-U1-G2
Certifications	IP65 / ROHS / FCC
Weight	47.4 lbs / 21.5 kgs
Warranty	3 years

ADVANTAGES

- Integrated Solution
- Environmentally Friendly
- Easy Installation
- \$0 Energy Costs
- PIR Motion Sensor
- 3 Lighting Modes



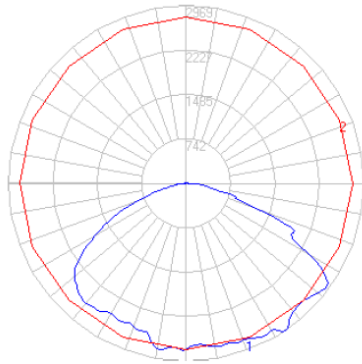
ORDERING INFORMATION

BLS-10A-5700K¹ Solar area/ street light, 56.6W, 5700K, 8148lm, aluminum finish

NOTE 1: 4000K also available, consult factory for other color temperatures
NOTE 2: The mounting height is an estimate and depends on the application.

PHOTOMETRICS

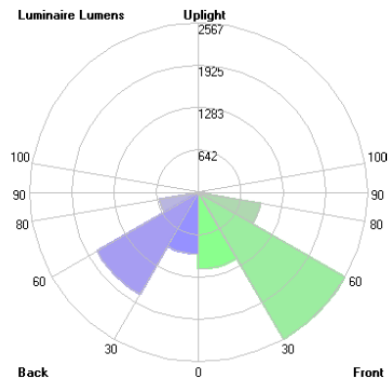
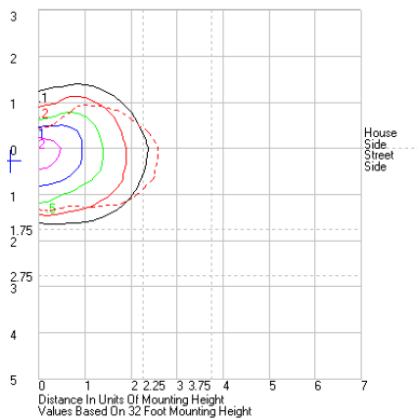
POLAR CURVES



Characteristics

IES Classification	Type II
Longitudinal Classification	Very Short
Luminaire Lumens	8148
Downward Total Efficiency	80 %
Total Luminaire Efficiency	80 %
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	N/A (Power delivery: 56.6W)
Solar Panel Watts	75W
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



Lum. Classification System (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1161.0	11.4	14.2
FM (30-60)	2566.9	25.2	31.5
FH (60-80)	950.0	9.3	11.7
FVH (80-90)	89.6	0.9	1.1
BL (0-30)	940.4	9.2	11.5
BM (30-60)	1783.7	17.5	21.9
BH (60-80)	604.2	5.9	7.4
BVH (80-90)	45.7	0.4	0.6
UL (90-100)	4.4	0.0	0.1
UH (100-180)	2.0	0.0	0.0
Total		8147.9	79.8 100.0

BUG Rating B2-U1-G2

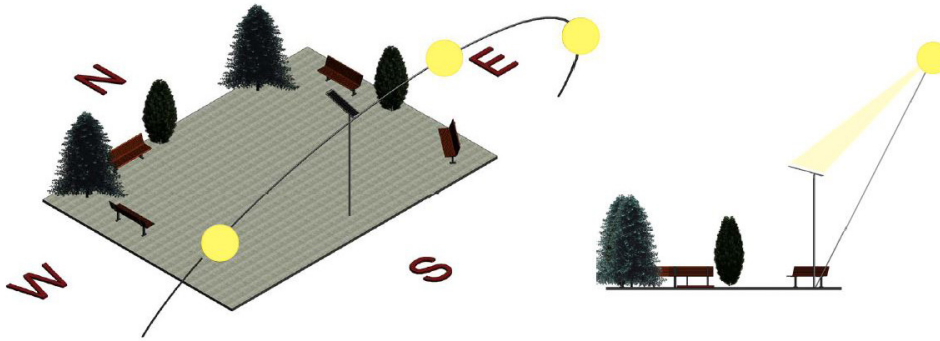
SPACING

B L S 1 0 A	Metric units	Lumen Output = 8148lm (@ 5700K CCT)	
		MH = 32 ft	
		Spacing to reach 0.5 fc	Spacing to reach 1 fc
ft		41.6	27.2
m		12.7	8.3

ORIENTATION

NORTHERN HEMISPHERE

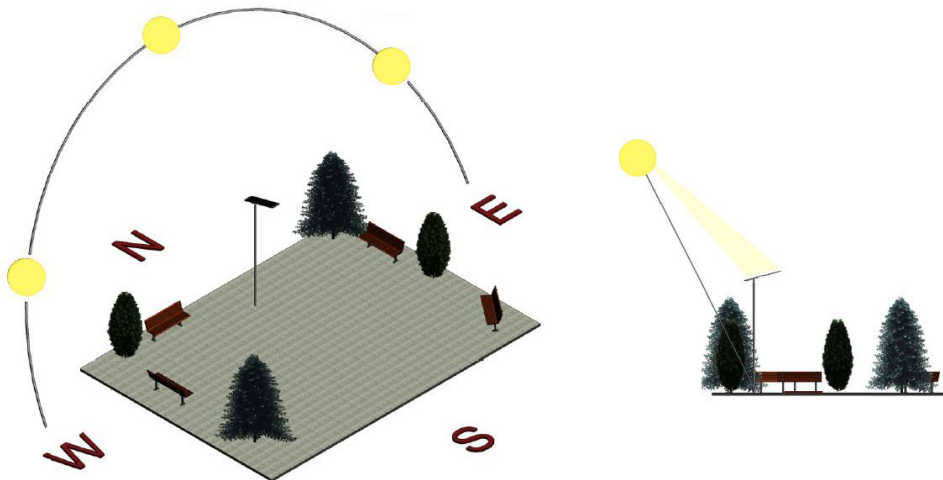
Sun's Path in the Sky



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

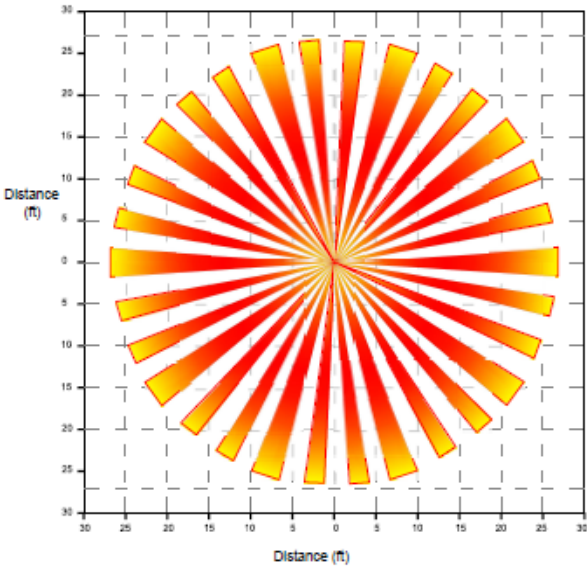
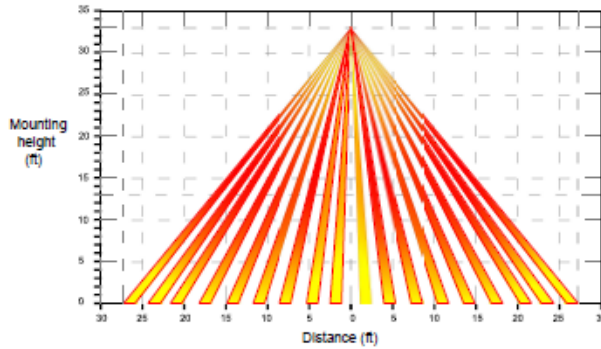
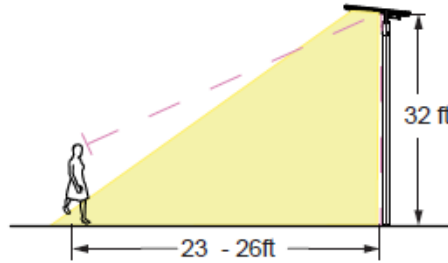
SOUTHERN HEMISPHERE

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%).

PIR SENSOR COVERAGE



COVERAGE PATTERN		
Product	Recommended installation height	PIR sensor coverage
BLS-10A	32ft	26ft max

LUCE SOLARE TURN ON / OFF LIGHT LEVELS

Light Level in lux (fc)	Mode
10 - 30 (0.93 - 2.78)	Turn On
50 - 100 (4.6 - 9.3)	Turn Off