



**APPLICATION:** The **BLS-8A** is ideal for temporary lighting, pathways, parking areas, public walkways, parks and roads.

The **LUCE SOLARE BLS-8A** is a solar street and area lighting solution that integrates the solar panel, battery and LED module into a single low-profile fixture. **BLS-8A** utilizes battery technology that will not drain below 10% capacity to ensure reliable re-charge for maximum performance.

The **BLS-8A** design eliminates bulky external battery boxes, while maximizing light output by using high efficiency mono-crystalline silicon solar cells and LEDs.

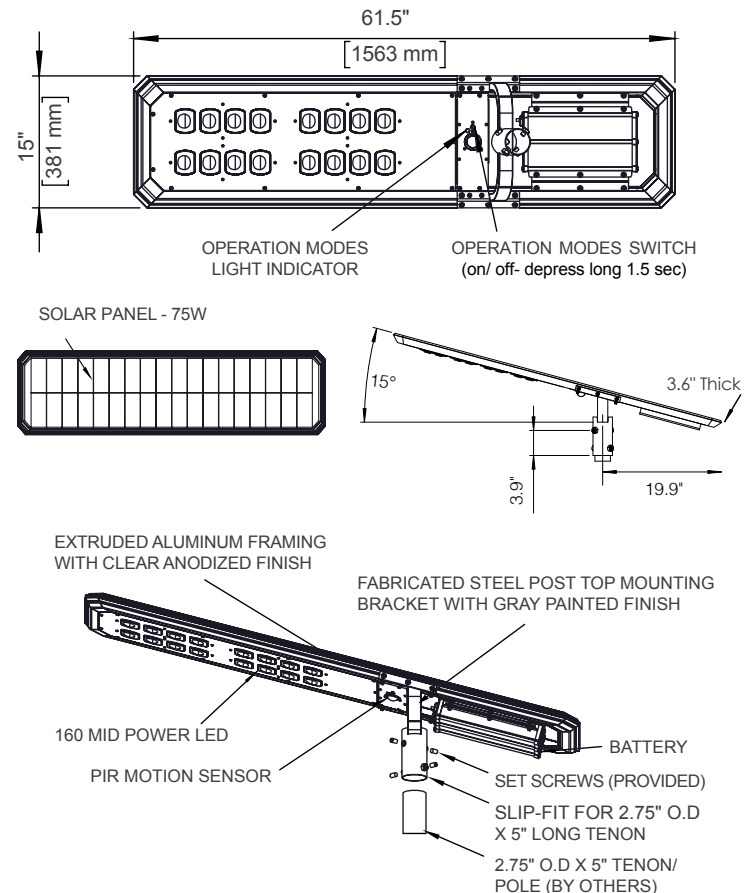
The **BLS-8A** incorporates a night sensor that detects ambient light to automatically turn the fixture on/off. An indicator light will blink 3x every 15 minutes during operation.

### SPECIFICATIONS

System Power Delivery	45.3W
Solar Panel	75W, 16.2V
LI-ION Battery	577.2 Wh, 39 Ah, 14.8V
Lumen Output	6518 lm @ 5700°K <sup>1</sup> (5 SCDM)
3030 LEDs	180-190lpw @ 150mA, 5.8-6V
Operation Time	36 hrs (after full charge)
Discharge Time	10-12 hrs (@ 100%)
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 <sup>2</sup>
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 <sup>(2)</sup>	19 - 26 ft
Effective Projected Area (EPA)	6.4 ft <sup>2</sup>
Distribution/ BUG Rating	Type II / B2-U1-G1
Certifications	IP65 / ROHS / FCC
Weight	45.0 lb / 20.4 kg
Warranty	3 years

### ADVANTAGES

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



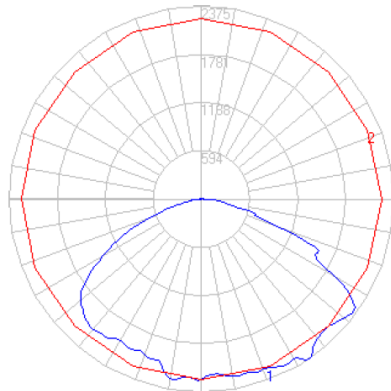
### ORDERING INFORMATION

**BLS-8A-5700K<sup>1</sup>** Solar area/ street light, 45.3W, 5700K, 6518lm, aluminum finish

NOTE 1: 6500K also available, consult factory for other color temperatures  
NOTE 2: The mounting height is an estimate and depends on the application

### PHOTOMETRICS

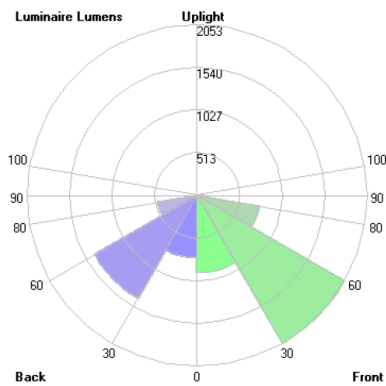
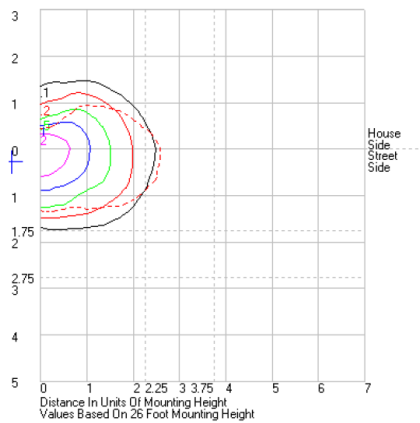
#### POLAR CURVES



#### Characteristics

IES Classification	Type II
Longitudinal Classification	Very Short
Luminaire Lumens	6518
Downward Total Efficiency	80 %
Total Luminaire Efficiency	80 %
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	N/A (Power delivery: 45.3W)
Solar Panel Watts	75W
Upward Waste Light Ratio	0.00
Max. Cd.	2375.184 (292.5H, 34V)
Max. Cd. (<90 Vert.)	2375.184 (292.5H, 34V)
Max. Cd. (At 90 Deg. Vert.)	70.184 (0.9%Lamp)
Max. Cd. (80 to <90 Deg. Vert.)	362.488 (4.4%Lamp)
Cutoff Classification (deprecated)	Cutoff

#### ISOLINES



#### LUM CLASSIFICATION SYSTEM (LCS)

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	202.2	9.9	12.4
FM (30-60)	675.6	33.2	41.5
FH (60-80)	232.9	11.4	14.3
FVH (80-90)	11.4	0.6	0.7
BL (0-30)	104.3	5.1	6.4
BM (30-60)	219.5	10.8	13.5
BH (60-80)	115.5	5.7	7.1
BVH (80-90)	10.3	0.5	0.6
UL (90-100)	9.5	0.5	0.6
UH (100-180)	48.6	2.4	3.0
<b>Total</b>	<b>1629.8</b>	<b>80.1</b>	<b>100.0</b>

**BUG Rating B1-U2-G1**

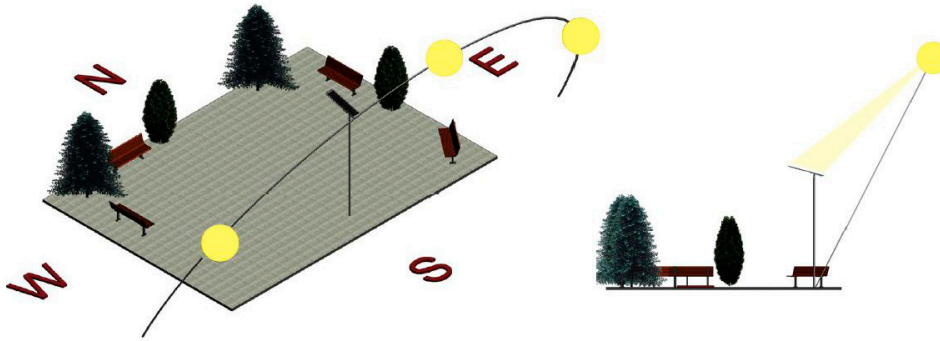
#### SPACING

B L S 8 A	Metric units	Lumen Output = 6518lm (5700K CCT)	
		Recommended Mounting Height = 26 ft (8m)	
		Spacing to reach 0.5 fc	Spacing to reach 1 fc
ft		39	28.6
m		11.9	8.7

## ORIENTATION

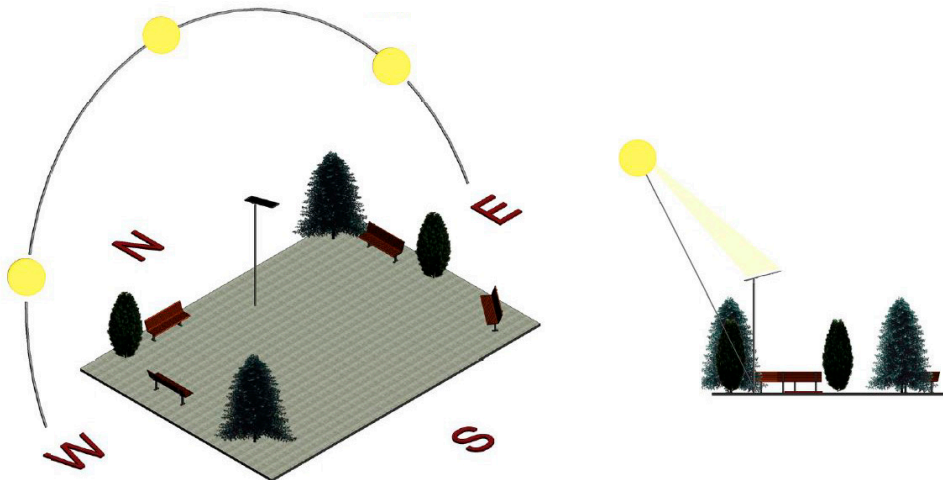
CHARGING PERFORMANCE ORIENTATION FOR NORTHERN HEMISPHERE  
 South 100%, East 75%, West 70%, North 46%

### NORTHERN HEMISPHERE Sun's Path in the Sky



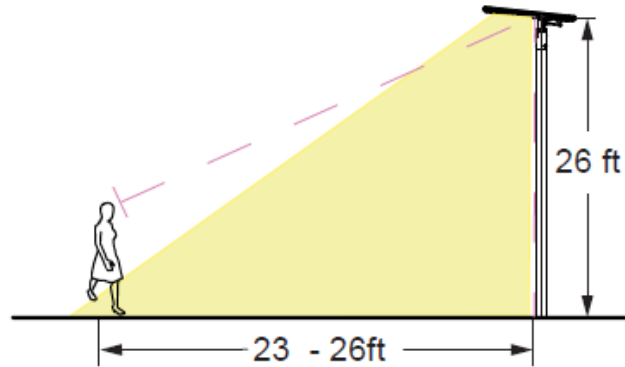
These graphics illustrate Luce Solare orientation, in which the fixture can absorb the maximum solar energy from the sun (south 100%)

### SOUTHERN HEMISPHERE Sun's Path in the Sky

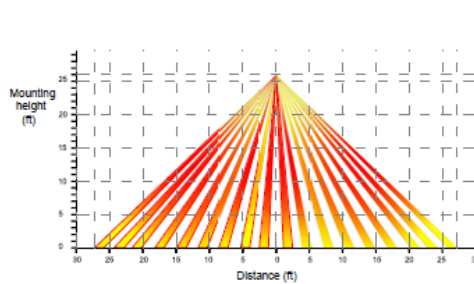


These graphics illustrate Luce Solare orientation, in which the fixture can absorb the maximum solar energy from the sun (north 100%).

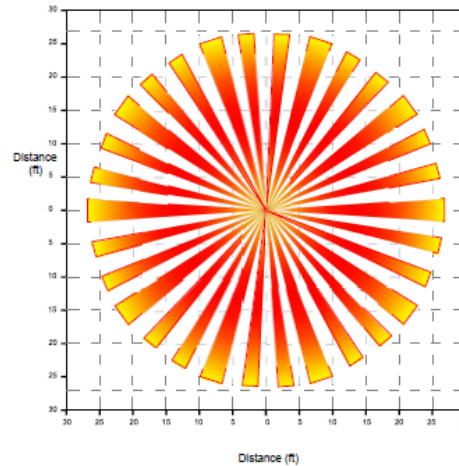
## PIR SENSOR COVERAGE



### PIR SENSOR COVERAGE



COVERAGE PATTERN		
Product	Recommended installation height	PIR sensor coverage
BLS-8A	26ft	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