



**APPLICATION:** The **BLS 2A** is ideal for temporary lighting, pathways, parking areas, public walkways, parks and roads.

The **LUCE SOLARE® BLS 2A** is a solar street and area lighting solution that integrates the solar panel, battery and LED module into a single low-profile fixture. **BLS 2A** utilizes battery technology that will not drain below 10% capacity to ensure reliable re-charge for maximum performance.

The **BLS 2A** design eliminates bulky external battery boxes, while maximizing light output by using high efficiency mono-crystalline silicon solar cells and LEDs.

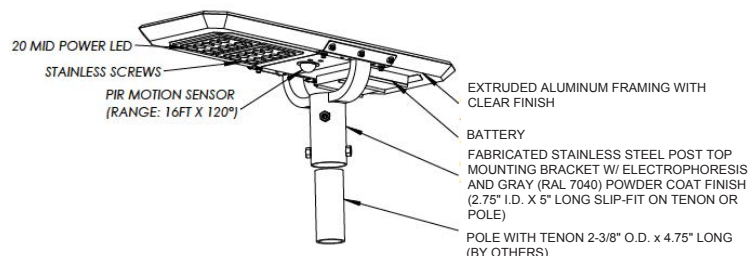
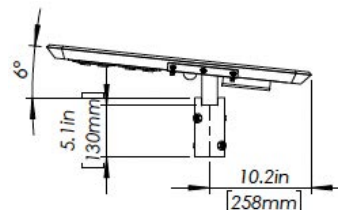
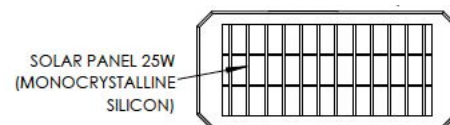
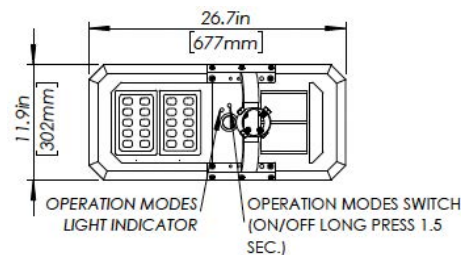
The **BLS 2A** incorporates a night sensor that detects ambient light to automatically turn the fixture on/off. An indicator light will blink 3x every 15 minutes during operation.

### SPECIFICATIONS

System Power Delivery	11.3W
Solar Panel	25W, 16.2V
LI-ION Battery	153.9 Wh / 10.2 Ah / 14.8V
Lumen Output	1630 lm @ 5700°K <sup>1</sup> (5 SCDM)
3030 LEDs	180-190lpw@150mA, 5-8.6.0V
Operation Time	36 hrs (after full charge)
Discharge Time	10-12 hrs (@ 100%)
Discharge Operating Temp.	-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>	7-10 ft
Effective Projected Area (EPA)	2.3 ft <sup>2</sup>
Distribution / BUG Rating	Type II / B1-U2-G1
Certifications	IP65 / ROHS / FCC
Weight	19.8 lbs (9.0 kgs)
Warranty	3 years

### ADVANTAGES

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



### ORDERING INFORMATION

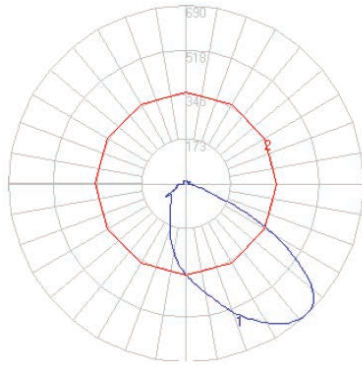
**BLS-2A-5700K<sup>1</sup>** Solar area/ street light, 11.3W, 5700K, 1630lm, aluminum finish

NOTE 1: 6500K, 3500K, 3000K also available, consult factory for other color temperatures  
NOTE 2: The mounting height is an estimate and depends on the application

Upon proper installation and start-up, Beghelli does not guarantee product performance meets specified performance levels. Unexpected/unknown environmental conditions (i.e., temperature, amount and direction of sunlight) affect performance, therefore solar is not recommended as a primary light source. In no event shall Beghelli be liable for special, incidental or consequential damages related directly or indirectly to the lack of product functionality and / or performance.

### PHOTOMETRICS

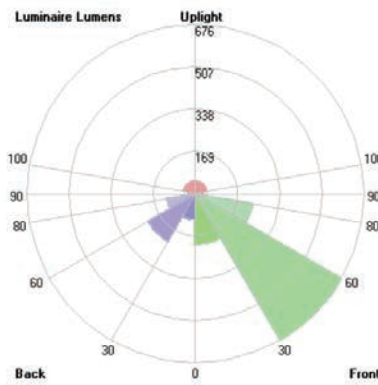
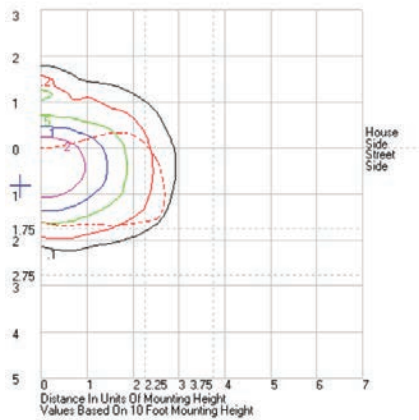
#### POLAR CURVES



**Characteristics**

IES Classification	Type II
Longitudinal Classification	Very Short
Luminaire Lumens	1630
Downward Total Efficiency	77 %
Total Luminaire Efficiency	80 %
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	N/A (Power delivery: 11.3W)
Solar Panel Watts	25W
Upward Waste Light Ratio	0.04
Max. Cd. (<90 Vert.)	690.048 (330H, 43V)
Max. Cd. (At 90 Deg. Vert.)	690.048 (330H, 43V)
Max. Cd. (80 to <90 Deg. Vert.)	11.128 (0.5%Lamp)
Cutoff Classification (deprecated)	84.376 (4.1%Lamp) 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>		1629.8	80.1 100.0
<b>BUG Rating</b>	<b>B1-U2-G1</b>		

#### SPACING

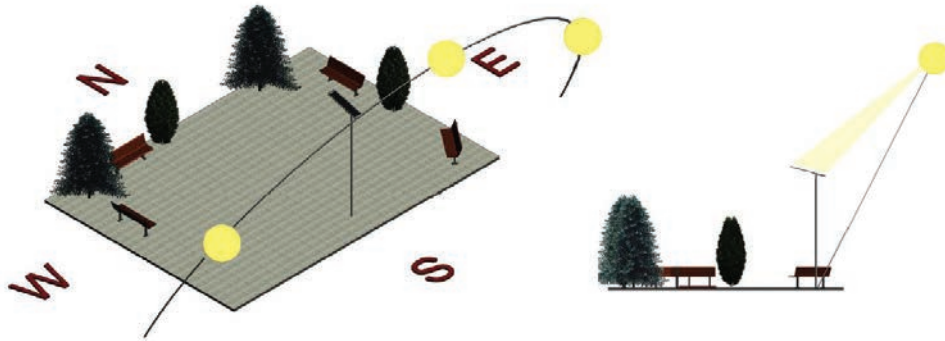
Lumen Output	Mounting Height = 10 ft (3 m)	
	Spacing to reach 0.5 fc	Spacing to reach 1 fc
1630	18 ft / 54 m	15 ft / 45 m

Note: 5700K CCT lumen output

## ORIENTATION

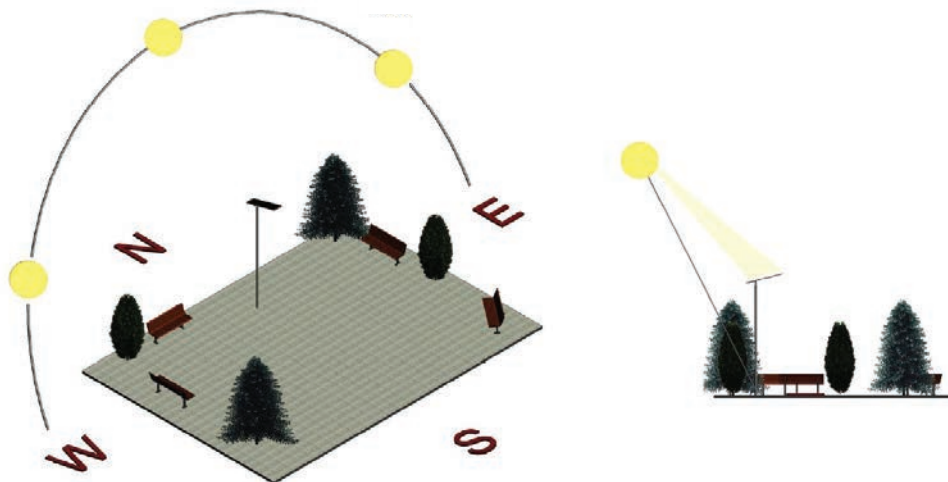
CHARGING PERFORMANCE ORIENTATION FOR NORTHERN HEMISPHERE  
 South 100%, East 75%, West 70%, North 46%

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



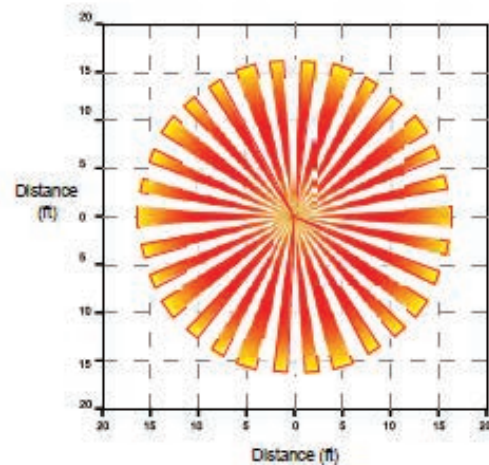
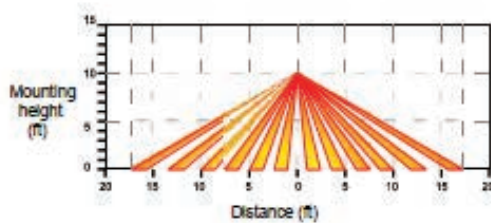
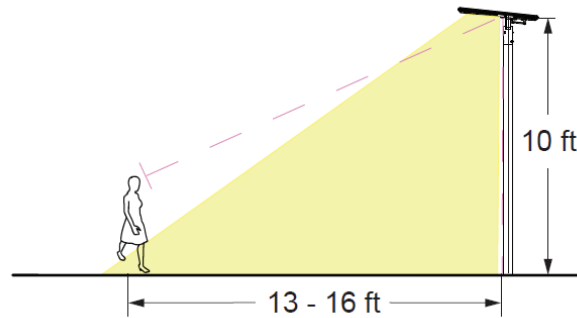
These graphics illustrate Luce Solare orientation, in which the fixture can absorb the maximum solar energy from the sun (south 100%).

### 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



COVERAGE PATTERN		
Product	Recommended Installation Height	PIR Sensor Coverage
BLS-2A	10 ft	16 ft 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