

Project:

Catalog Number:

Notes:

Sagitta 8

OUTDOOR POLE ARM-MOUNTED AREA & ROADWAY LUMINAIRE

FEATURES

- High Efficiency: Delivers up to 155lm/W.
- Multiple Wattage Options: Offers selectable wattage levels for optimized power consumption across various models.
- CCT Selectable: Choose from 3000K, 4000K, or 5000K.
- Robust Protection: IK08 & IP65 rated for durability.
- Maintenance: Easy replacement of lenses and drivers.



REGULATORY QUALIFICATIONS

- All variations are DLC-listed
- ETL-listed



APPLICATIONS

- Residential Streets
- Parking Lots
- Roadways
- Plazas and Walkways

Big Shine LED is an LED lighting manufacturer, a division of technology company Big Shine Worldwide, Inc. With global manufacturing centers for continuity of supply, Big Shine LED designs lighting fixtures with premium components that meet international certifications.

SAGITTA 8 AREA LIGHT

TECHNICAL SPECIFICATIONS

Model No.	SX8-150	SX8-300
Power Consumption (±10%)	150W, 120W, 90W (Selectable)	300W, 240W, 180W (Selectable)
Power Supply	SOSEN / Fahold	
Input Voltage	120V-277V	
Power Factor	>0.95	
Control	Photocell	

* The tolerance for power is ±2.5% @100% power (150W/300W).

OPTIC SPECIFICATIONS

LED Type	LED 2835	
Luminous Flux (±10%) @4000K Ra70 (lm)	23250lm	46500lm
Efficacy @4000K Ra70 (lm/W)	155lm/w	
Correlated Color Temperature	3000K, 4000K, 5000K Selectable	
Color Rendering Index	Ra70 (Ra80 optional)	
Beam Angle	R34403(III) / R34404(IV) / R34405(V)	R65803(III) / R65804(IV) / R65805(V)

* The tolerance for luminous flux is ±10%.

SAGITTA 8 AREA LIGHT

MOUNTING AND PRODUCT DIMENSIONS

Product Dimension (mm/inch)	465×334×67/18.31×13.15×2.64	574×405×67/22.6×15.94×2.64
Luminaire Net Weight (kg/lbs)	4.6/10.14	6.5/14.33
Mounting Option	Slipfitter Mount, Trunion Mount, Square/Round Extruded Arm	
Material	Aluminum alloy	
Lens	Polycarbonate lens	
Fixture Color	Bronze (RAL8019)	
IK Rating	IK08	
IP Rating	IP65	

* The tolerance for weight is ±6%.

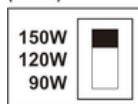
LIFESPAN AND WARRANTY

Operating Temperature	-30°C to +50°C (-22°F to +122°F)
Warranty	5 Years

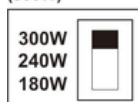
NEW FEATURES

Adjustable power and CCT by DIP switch

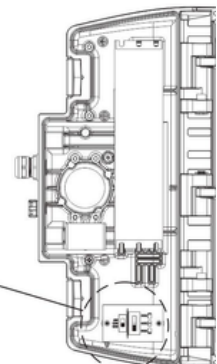
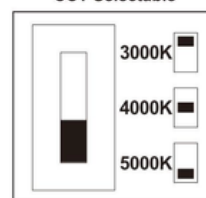
Power Selectable
(150W)



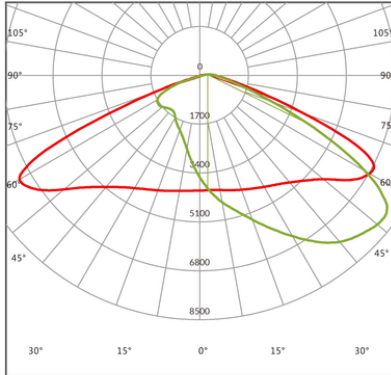
Power Selectable
(300W)



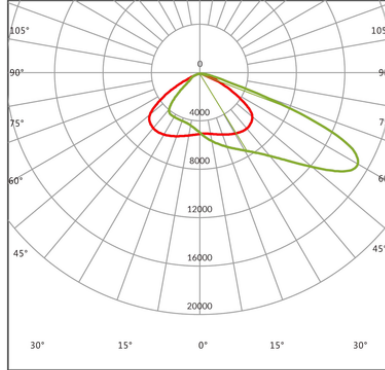
CCT Selectable



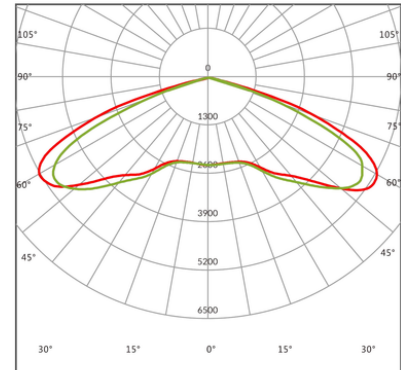
PHOTOMETRIC DATA



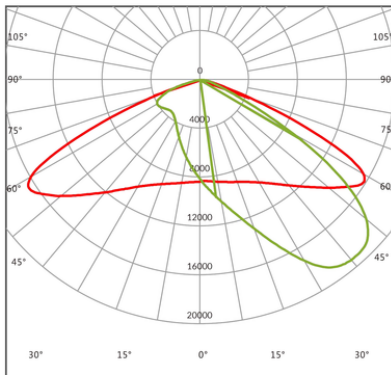
R34403 (III)
90W-150W Beam Angle



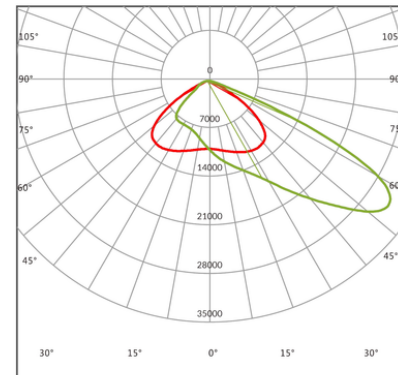
R34404 (IV)
90W-150W Beam Angle



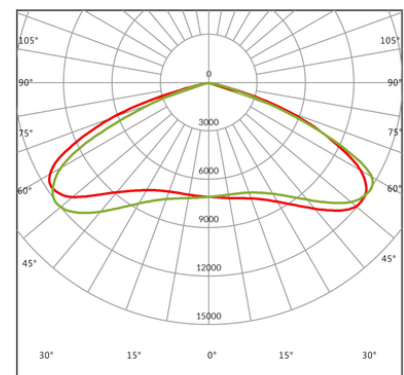
R34405 (V)
90W-150W Beam Angle



R65803 (III)
180W-300W Beam Angle



R65804 (IV)
180W-300W Beam Angle



R65805 (V)
180W-300W Beam Angle

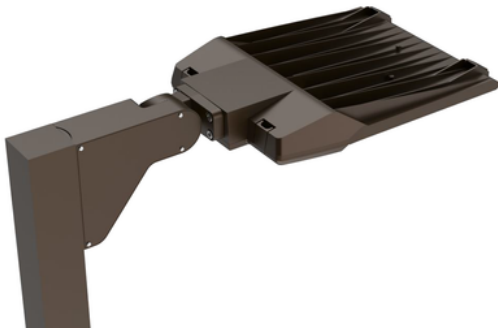
MOUNTING OPTIONS



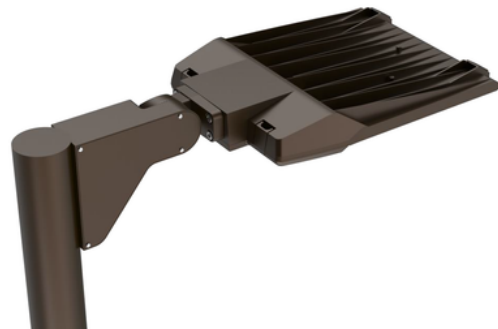
Slipfitter Mount



Trunion Mount



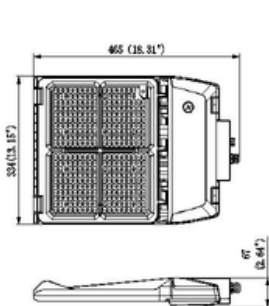
Extruded Arm



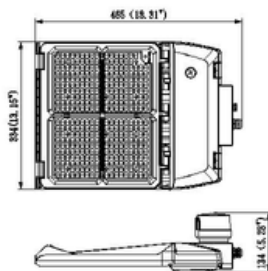
Extruded Arm (Round)

DIMENSIONAL DATA

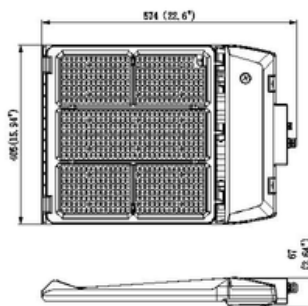
Unit:mm



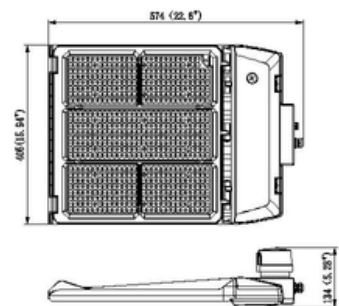
150W



150W



300W



300W

*Images not to scale.

ACCESSORIES



Trunion Mount

- Wall mounting bracket with adjustable angle.
- Constructed from SPCC material.



Slipfitter Mount (76mm)

- Adjustable angle mounting bracket with a 76mm sleeve.



Slipfitter Mount (60mm)

- Adjustable angle mounting bracket with a 60mm sleeve.



Extruded Arm Mount

- Excellent anti-corrosion aluminum alloy.
- Designed for round and square poles.



Photocell (120-277V)

- Compatible with 90-300W fixtures (120-277V).



Photocell (277-480V)

- Compatible with 90-300W fixtures (277-480V).

*Images not to scale.

ORDERING INFORMATION

ORDERING EXAMPLE: BSL-SX8-150-MV-40K-III-SF-BL

SERIES	WATTAGE & LUMEN OUTPUT	VOLTAGE	CORELATED COLOR TEMPERATURE (CCT)	BEAM ANGLE	CONTROL OPTIONS	MOUNTING OPTIONS	FINISH COLOR
SX8	150W (23250lm)	MV (100-277V)	30K (3000K)	III	Photocell	SF (Slipfitter Mount)	BZ (Bronze)
	300W (46500lm)	HV (277-480V)	40K (4000K)	IV		TR (Trunion)	
			50K (5000K)	V		EA (Extruded Arm)	

OPTIONAL ACCESSORIES AVAILABLE*

- Photocell (Dusk-to-Dawn Sensor): Automates lighting to turn on at dusk and off at dawn, optimizing energy use.
- Conduit Adapters: For seamless integration with various electrical conduit systems.
- Surge Protection Devices (SPDs): Protects the fixture from power surges and lightning strikes.

*Accessories sold separately.

WARRANTY



Big Shine LED products are covered by a five-year limited warranty against defects in materials. A fixture is considered defective if 10% or more of the LED fixture's components have failed. Visit our website to learn more about our product warranty: bigshineled.com/resources.

Covered Under Warranty:

Warranty Length: 5 years from purchase date (or installed date in some cases)

Coverage: Manufacturer defects in materials

Repair or Replacement: Big Shine LED may determine to repair or replace the product.

Not Covered Under Warranty:

- Damage caused by misuse, accidents, weather, improper installation, or unauthorized repairs.
- Using the product for something other than its intended purpose.

Visit our website to read the terms and conditions of our product warranty at bigshineled.com/resources.

How to Submit a Warranty Claim:

To submit a warranty claim, visit our website at bswpartnerhub.com or contact us at (845) 219-5548.

LED PREVENTATIVE MAINTENANCE

Implementing a preventative maintenance plan helps ensure optimal performance and longevity of LED lighting systems through regular inspections and upkeep. Here are some steps to take to keep LED lighting systems in good working condition, prevent malfunction, and extend their lifespan.

I. Maintenance schedule: The frequency of maintenance tasks will depend on the specific lighting system, its environment, and usage. As a general rule, LED fixtures should be inspected and cleaned at least once every six months. Tasks should be performed more frequently in high-traffic areas or in environments with excessive dust and debris.

II. Record keeping: It is also important to keep accurate records of all maintenance tasks performed on the lighting system. This information can be used to track the performance of the system, identify any trends or patterns, and schedule future maintenance tasks.

For a more detailed preventative maintenance plan, visit the Resource Center in our website at bigshineled.com/resources.

DEFINITIONS

LM-80 Testing

The LM-80 test method that measures the lumen maintenance, or long-term light output, of an LED light source over a period of time. Big Shine LED fixtures are tested at three different temperatures for at least 6,000 hours and up to 10,000 hours. By measuring the LED's light output at regular intervals during this extended period, the LM-80 test can determine how the performance of the LED degrades over its lifespan. To obtain test results for individual Big Shine LED fixtures, visit our website or contact us at info@bigshineled.com.

TM-21 Method

TM-21 is a method for projecting the lumen maintenance and lifespan of an LED light source based on data collected from LM-80 testing. The data collected during the LM-80 testing must show a stable trend in lumen maintenance. The TM-21 calculates a decay rate based on the data, which shows how quickly the LED's brightness is diminishing over time. The TM-21 sets a limit on how far the projected lifespan can be estimated based on the LM-80 data. The lifespan cannot exceed six times the duration of the LM-80 testing. The extrapolation limit ensures that predictions made by the TM-21 are based on solid data and do not exceed too far beyond the actual testing period.

L70 Rating

The L70 is a measure of an LED's longevity. It represents the time it takes for the LED's brightness or lumen output to drop to 70% of its original level. In other words, it estimates how long the LED will last before it dims significantly.

L90 Rating

The L90 rating is similar to the L70 rating, but it measures a different level of light output maintenance in LEDs. This measures the time it takes for an LED light source to decrease to 90% of its original brightness or lumen output. It's a stricter standard compared to the L70 because it represents a higher level of light output maintenance. This rating is important for applications where higher light levels must be maintained for a longer period of time.

Total Harmonic Distortion (THD)

The Total Harmonic Distortion is a measure of the distortion in the electrical current caused by non-linear loads. THD is expressed as a percentage and represents the deviation of the current waveform from a perfect sinusoidal wave. Lower THD percentages in LED improve energy efficiency as the fixture has less wasted energy. It also extends the life of the LED fixture and other connected devices in a building's electrical system as less heat is generated in the electrical wiring and components, reducing the risk of overheating. Lower THD also improves power quality, causes less interference and enhances the reliability of the entire electrical system. To better understand the benefits of lower THD in LED fixtures, visit our website at bigshineled.com.

Power Factor

A higher power factor in LED fixtures means the fixture uses electrical power more efficiently. Less power is wasted in the form of reactive power, so the lighting system consumes less electricity overall. A higher power factor also improves the overall power quality of the electrical system, resulting in a more stable and consistent power supply, which benefits other devices connected to the same electrical network. Other benefits include reducing the load on the electrical grid, reducing heat generation, and enhancing the lifespan of all equipment on the system. For more details on power factor, visit our website at bigshineled.com.

Efficacy

The efficacy in an LED fixture refers to how efficiently the light converts electrical power into visible light. It's typically measured in lumens per watt, indicating how much light is produced for each watt of electricity used.

Luminous Flux

Luminous flux is the total amount of visible light emitted by a light source, measured in lumens. It represents the overall brightness of the light produced.

Dominant Peak Wavelength

It represents the wavelength that contributes most to the perceived color of the light source.

Full Width at Half Maximum (FWHM)

It is a measure of the spectral bandwidth of a light source. Specifically, it is the width of the spectral curve at half of its maximum intensity. A narrower FWHM indicates a more focused spectral distribution, while a wider FWHM suggests a broader spectral distribution.