

Project:

Catalog Number:

Notes:

SK7

HIGH-BAY LUMINAIRES FOR COMMERCIAL AND INDUSTRIAL BUILDINGS

FEATURES

- No Dust Accumulation: Innovative design prevents dust buildup, ensuring better heat dissipation and extended lifespan.
- Heavy Dust Application Ready: An excellent fixture for environments with heavy dust.
- Robust Protection: Well-sealed with a dust-tight and waterproof rating of IP65.
- Flexible Mounting: Offers multiple mounting options.
- High Efficacy: Delivers impressive light output up to 170-180 LM/W



REGULATORY QUALIFICATIONS

- All variations are DLC-listed
- ETL-listed



APPLICATIONS

- Warehouses
- Factories
- Industrial Facilities
- Distribution Centers
- Manufacturing Plants
- Gymnasiums
- Retail Spaces (large format)
- Exhibition Halls
- Logistics Centers
- Automotive Service Bays
- Heavy Dust Environments

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.

SK7 HIGH-BAY

Electrical Information

Model No.	SK7-100	SK7-120	SK7-150	SK7-200	SK7-240
Power Consumption (±10%)	100W, 80W, 60W (Selectable)	120W, 100W, 80W, 60W (Selectable)	150W, 120W, 100W, 80W (Selectable)	200W, 150W, 120W, 100W (Selectable)	240W, 200W, 175W, 150W (Selectable)
Power Supply	MOSO				
Input Voltage	100V-277V 50/60Hz				
Power Factor	>0.93				
Surge Protection	4kV line-line, 6kV line-earth				
Driver Type	Constant Current (CC)				
Control	Dimmable				

Optic Information

LED Type	LED 2835				
Luminous Flux (±10%)	20000lm	24000lm	30000lm	40000lm	45600lm
Efficacy (5000K Ra70)	200 lm/W				190 lm/W
Correlated Color Temperature	5000K (4000K optional)				
Color Rendering Index	Ra70				
Beam Angle	H00108 / H00111 / H00115 / H00121				
UGR level	<25				

SK7 HIGH-BAY

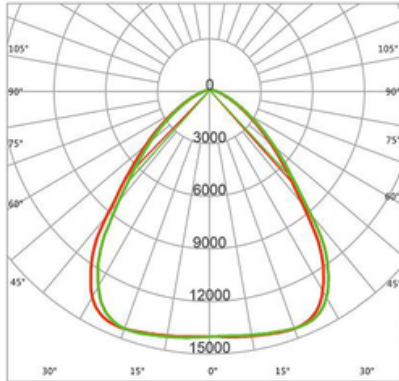
Dimintions and Mount

Product Dimension	360 x 186 (14.17" x 7.32")	
Luminaire Net Weight	3.9±0.3 (8.6±0.66)	4.3±0.3 (9.47±0.66)
Mounting Option	Eye Hook, U-Bracket, Pendant Mount	
Material	Aluminum Alloy	
Lens	Polycarbonate Optical Lens	
Fixture Color	Black	
IK Rating	IK08	
IP Rating	IP65	

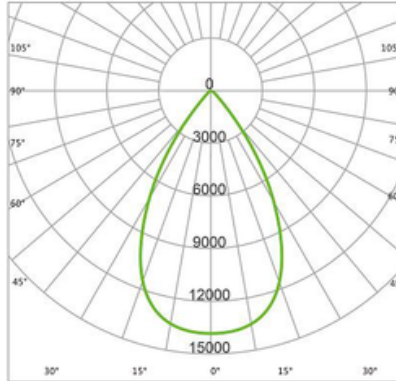
LIFESPAN AND WARRANTY

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

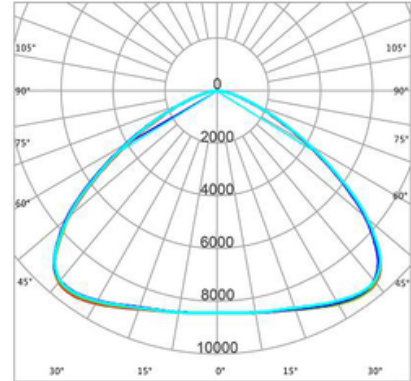
PHOTOMETRIC DATA



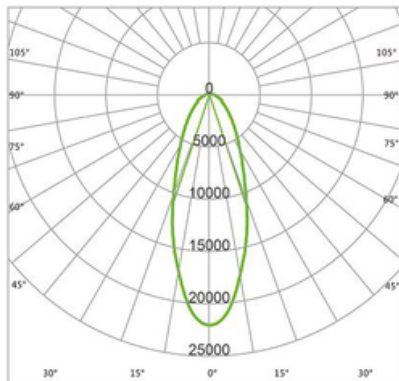
H00108 (90°)



H00111 (60°)

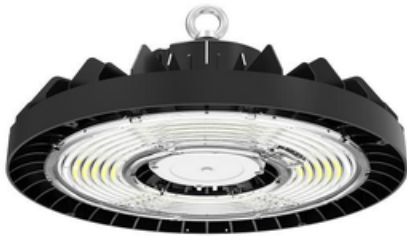


H00115 (120°)



H00121 (40°)

MOUNTING OPTIONS



Eye Bolt



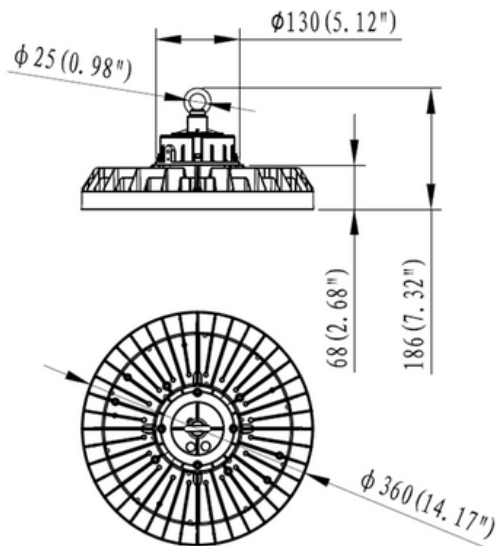
U-Bracket Mount



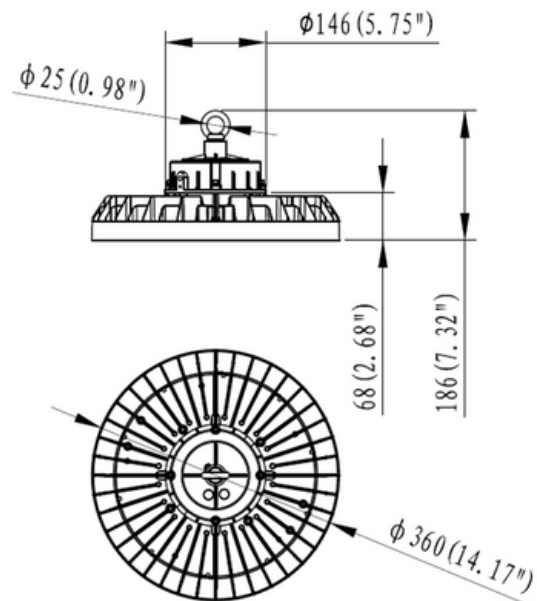
Pendant Mount

DIMENSIONAL DATA

Unit:mm



200W, 120W, 150W



200W, 240W

*Images not to scale.

ACCESSORIES



Optic Lens

- High transmittance PC materials with UV test approval.
- Available for various beam angles (refer to Photometry for details).



Aluminum Reflectors

- Offers different beam angles.
- Provides anti-glare effect.
- Available in black/silvery color.



PC Reflector

- 90° PC reflector with a lid.



Pipe Mount Bracket

- Supports 3/4 NPT pipe mounting.



±60° Adjustable Bracket

- Made from SPCC materials with outdoor powder coating.
- Allows for ±60° angle adjustment.



Non-Adjustable Bracket

- Made from SPCC materials with outdoor powder coating.
- Fixed, non-adjustable design.



Safety Chain

- Constructed from 304 stainless steel.
- Available in 0.25m, 1m, 1.5m, and 5m lengths.

*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
SK7	100W (20000lm)	MV (100-277V)	40K (4000K)	H00108 (90°)	(Dimmable)	EH (Eye Hook)	BL (Black)
	120W (24000lm)		50K (5000K)	H00111 (60°)		UB (U-Bracket)	
	150W (30000lm)			H00115 (120°)		Pendant Mount	
	200W (40000lm)			H00121 (40°)			
	240W (45600lm)						

OPTIONAL ACCESSORIES AVAILABLE*

- Emergency Battery Backup: External driver for field installation.
- Occupancy Sensor & Dimming Controls: For enhanced energy management.
- NEMA Plugs: Male and female options for flexible electrical connections.
- Mounting Chain/Cables: For secure suspension.
- Wire Nuts/Connectors: For safe electrical connections.
- Conduit Adapters: For integrating with existing conduit.
- Safety Cables: Provides secondary support for suspended fixtures.
- Mounting Hardware: For various hanging applications.
- 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.