Project:	
Model Number: BSL-HBXXX-NOV	
Notes:	

2x2 Nova

HIGH-BAYLUMINAIRESFOR COMMERCIAL AND INDUSTRIAL BUILDINGS

FEATURES

- Ultra-Thin Profile: A clean look that integrates seamlessly into T-bar grid ceilings.
- High Efficacy: Delivers superior light output with low energy consumption.
- Uniform Illumination: Provides smooth, glare-free light without hot spots.
- Durable Construction: Lightweight aluminum frame and a shatter-resistant PMMA lens.
- Advanced Thermal Management: Ensures a long lifespan and stable performance.
- Easy Installation: Slim, lightweight design for quick and hassle-free setup.
- CCTs: Multiple CCTs to suit various applications.
- Dimmable: Compatible with standard controls
- for adjustable light levels.

REGULATORY QUALIFICATIONS

- All variations are DLC-listed
- ETL-listed

APPLICATIONS

- Warehouses
- Factories
- Gymnasiums
- Retail Centers
- Large Commercial Spaces

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.

2X2 LINEAR HIGH-BAY

TECHNICAL SPECIFICATIONS	
Type	NOV-150W
Power Consumption (±5%)	150W, 113W, 75W (Selectable)
Power Supply	Constant current (CC)
Input Voltage	120V-347V, 50/60Hz
Power Factor	>0.9
Control	0-10V

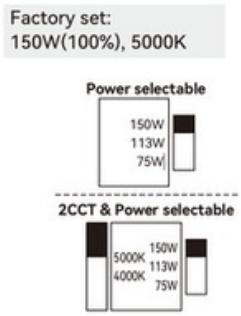
OPTIC SPECIFICATIONS	
LED Type	LED 2835
Luminous Flux (±10%) Ra80	150W: 22000-26000lm 75W: 10800-13000lm
Efficacy (lm/W)	160lm/W
Correlated Color Temperature	5000K, 4000K (Selectable)
Color Rendering Index	Ra80
Beam Angle	L00B48-01

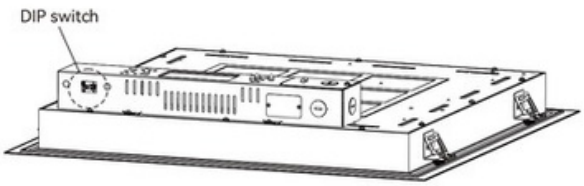
2X2 LINEAR HIGH-BAY

MOUNTING AND PRODUCT DIMENSIONS	
Product Dimension (mm/inch)	603×603×112mm (23.74"×23.74"×4.41")
Luminaire Net Weight (kg/lbs)	5.9kg (13.01lbs)
Mounting Option	Type F & Type G
Material	Aluminum alloy
Lens	Acrylic (PMMA)
Fixture Color	White (RAL9016)
IK Rating	IK06
IP Rating	IP20

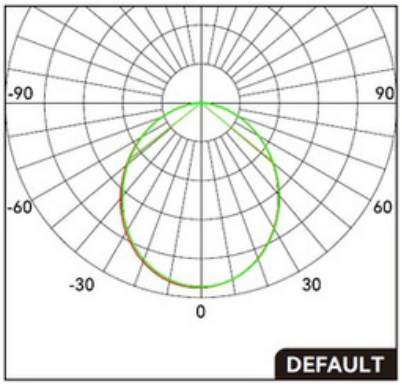
LIFESPAN AND WARRANTY	
Operating Temperature	-30°C to +50°C (-22°F to +122°F)
Warranty	5 Years
Life Time of LED @Ta=25°C	L90: 50,800hrs L80: 104,800hrs L70: 166,800hrs

NEW FEATURES



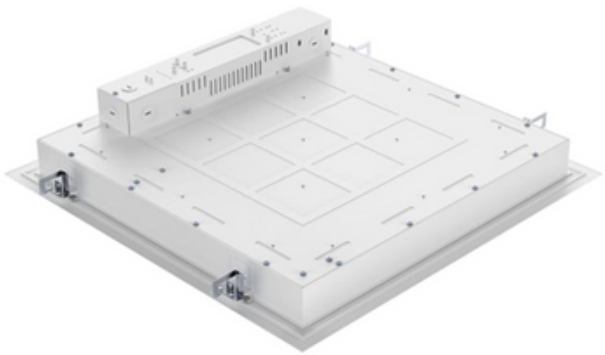


PHOTOMETRIC DATA

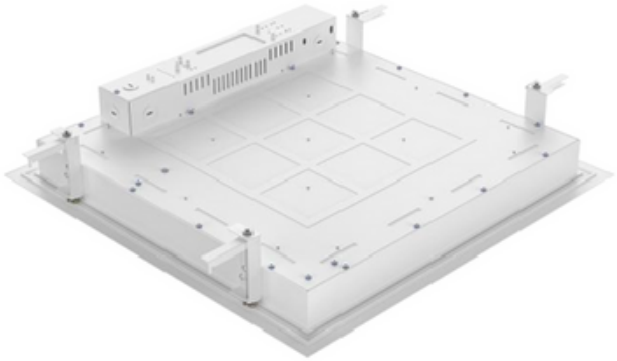


Symmetrical 100°

MOUNTING OPTIONS



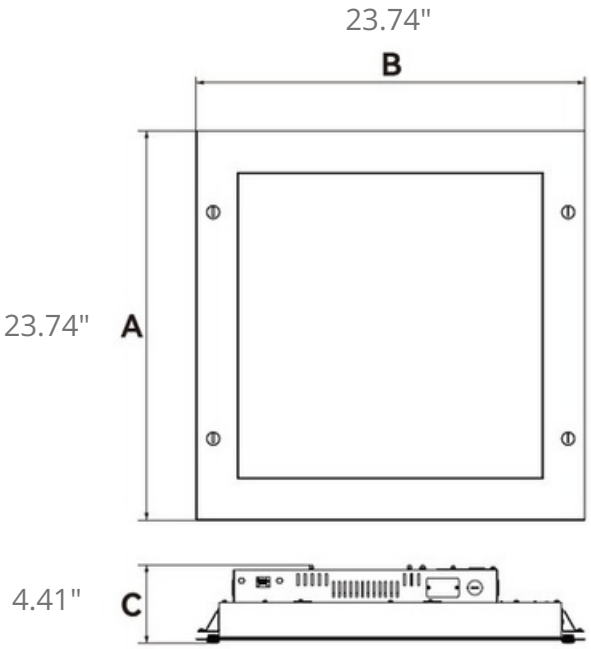
NEMA TYPE “G” Mount



NEMA TYPE “F” Mount

DIMENSIONAL DATA

Unit: Inches



150W 2x2 Linear High-Bay

Luminaire dimensions
AxBxC(mm/inch)

*Images not to scale.

ORDERING INFORMATION

ORDERING EXAMPLE: BSL-NOV-150-MIV-40K-100-TF-WH

SERIES	WATTAGE & LUMEN OUTPUT	VOLTAGE	CORELATED COLOR TEMPERATURE (CCT)	BEAM ANGLE	CONTROL OPTIONS	MOUNTING OPTIONS	FINISH COLOR
NOV	150W (26000lm)	MIV (100-347V)	40K (4000K)	100°	0-10V	TF (Type F)	WH (White)
			50K (5000K)			TG (Type G)	

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.

*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

TheLM-80 testmethod 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-21is amethod 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 base 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

TheL70 isa 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

TheL90 ratingis 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)

TheTotalHarmonic Distortion isa 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

Ahigher 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

Theefficacy 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

Luminousflux isthetotal amount of visible light emitted by a light source, measured in lumens. It represents the overall brightness of the light produced.

Dominant Peak Wavelength

Itrepresentsthewavelengththatcontributes most to the perceived color of the light source.

Full Width at Half Maximum (FWHM)

Itisameasureofthe spectralbandwidth ofa 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.