

HBN

NSF Rated LED High-Bay

Product Description

Introducing NICOR's new NSF Rated LED High-Bay, designed for optimal performance in commercial and industrial environments. This fixture combines energy efficiency with robust construction, making it ideal for warehouses, food processing facilities, and manufacturing plants. With NSF certification, it ensures compliance with stringent safety and sanitation standards, perfect for food and beverage processing areas. Featuring an IP69K rating, it offers exceptional protection against dust and high-pressure, high-temperature water jets, making it suitable for even the most demanding environments. Equipped with selectable wattage and color temperature (CCT), you can easily customize the lighting to suit your specific needs, providing flexibility and efficiency. Its durable design withstands harsh conditions, ensuring longevity and reliability, while versatile mounting options allow for easy adaptation to various ceiling heights and layouts. The user-friendly design facilitates quick installation with minimal downtime, and it is compatible with smart controls for enhanced energy savings and control.

Elevate your facility's lighting with our NSF Rated High-Bay, where performance meets compliance and efficiency, creating a safe and productive environment.

Construction

- Single piece, die cast aluminum body
- Gasketed lenses
- Polyester powder coat finish
- Fixture vent to prevent overpressure

Optical System

- Standard clear polycarbonate lens
- Optional tempered glass lens available
- Selectable CCT of 3500K/4000K/5000K with >80 CRI

Electrical

- Selectable power levels: (150/130/100W), (300/270/240W)
- Operating temperature rating of -40°F to 149°F (-40°C to 65°C) for standard fixture
- Operating temperature rating of 32°F to 140°F (0°C to 60°C) for EM fixture
- Operating temperature rating of -4°F to 140°F (-20°C to 60°C) for Cold EM fixture
- Input voltage of 120-347V
- Pre-installed, fully sealed power lead: ϕ 9.4mm (0.37in.), length= 6ft.
- Pre-installed, fully sealed dimming and emergency power lead: ϕ 8.5mm (0.33 in.), length= 3.3ft.
- M20 waterproof connector is suitable for wires with a diameter of ϕ 6-12mm (0.24-0.47in)
- Dimming: 0-10V (dim-to-off) standard
- Surge Protection with supplemental SPD: L/N-PE: 10kV, L-N: 10kV
- Emergency Battery pack options (standard or cold weather) available.

Controls

- Pre-installed 3.5mm sensor socket
- Field installable multifunction MW or PIR sensor available
- Standard full-range dimming with compatible 0-10VDC dimmers

NLC (Network Lighting Controls)

- Bluetooth Low Energy (BLE) mesh network providing Luminaire Level Lighting Control
- Field installable BLE PIR/Daylight sensor (NLC SPEJ1WH-LHW) available
- Configurable with the NICOR NLC app available on iOS and Android devices
- Provides full dimming control with occupancy and daylight harvesting functions

Mounting and Installation

- Pre-installed mounting rings
- Surface mount kit available
- Wireguard option available for increased fixture protection
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

Listings

- cULus1598 Listed for wet locations
- DLC 5.1 Premium on PC Lens, DLC 5.1 Standard on Glass Lens
- NSF Food Zone Non-Contact, Splash Zone and Non Food Zone rated
- IP69K environmental rating (for standard and EM versions)
- IK10 rating on polycarbonate lens, IK06 on glass lens
- ASHRAE 90.1 compliance when specified with sensor option
- RoHS Compliant: Free from harmful and hazardous materials
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- TM-21 Reported L70(10k) life >60,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

Warranty

- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

Project

Catalog

Type

Date



HBN
LED High-Performance High Bay
Wattage Selectable
CCT Selectable



HBN

NSF Rated LED High-Bay

Ordering Information

Example: HBN1150USA8

Series	Version	Wattage Selectable	Input Voltage	CCT Selectable	Lens Type	CRI	Emergency
HBN	1	150S (150/130/100W)	U (120-347V)	S (35K/40K/50K)	A (polycarbonate)	8 (80+ CRI)	E1 (16W standard) ¹
		300S (300/270/240W)			B (glass)		E2 (25W standard) ²
							E3 (15W cold weather) ¹
							E4 (20W cold weather) ²

Specifications and dimensions subject to change without notice.

1) EM packs for 150W model only

2) EM packs for 300W model only

Accessories

Note: Installation of EM, Sensor, Plug or Transformer options will invalidate the IP69K rating of the fixture as options are not rated to that level.

Mounting Accessory Kits

Surface Mount Kit for 150W model	HBN1150SMBRACKETWH
Surface Mount Kit for 300W model	HBN1300SMBRACKETWH

Wireguard Accessories

Wireguard for 150W model	HBN1150WGWH
Wireguard for 300W model	HBN1300WGWH

Motion Sensors

Passive Infrared Motion Sensor	H12V3SENSORPIR1PWH
Microwave Motion Sensor	H12V3SENSORMW1PWH
Remote Control for PIR Sensor	H12V2REMOTE
NICOR Lighting Controls PIR Sensor	NLCSPEJ1WH-LHW

Field Installed Plug Accessories

15A 125V Straight Bladed Plug	515P
15A 125V Twist Lock Plug	L515P
15A 250V Twist Lock Plug	L615P
15A 277V Twist Lock Plug	L715P
20A 277V Twist Lock Plug	L720P
20A 347V Twist Lock Plug	L2320P
20A 480V Twist Lock Plug	L820P

* For installation in the field by the end user

High Voltage Transformer (see specsheet information)

HV (277-480V) Transformer	NST1375HVWH
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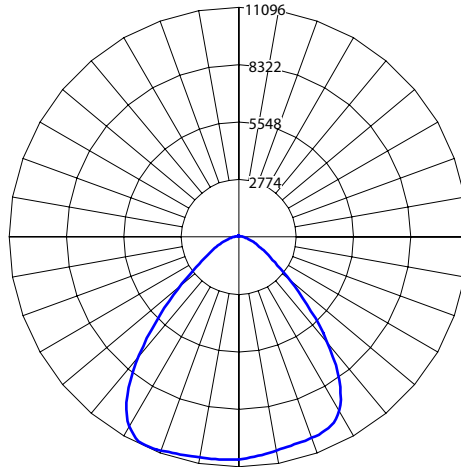
Performance Data

150W - Universal Voltage				
Model Number	CCT	Lumens	Watts	Lumens/Watt
HBN1150SUSA8	3500	16495	101.4	162.7
	4000	16894	97.2	173.8
	5000	16260	96.0	169.4
	3500	21342	131.2	162.7
	4000	21859	125.9	173.7
	5000	21039	124.9	168.4
	3500	24384	149.9	162.7
	4000	24974	143.4	174.1
	5000	24038	143.9	167.0

300W - Universal Voltage				
Model Number	CCT	Lumens	Watts	Lumens/Watt
HBN1300SUSA8	3500	39835	242	164.9
	4000	40718	232	175.7
	5000	39735	239	166.5
	3500	43693	270	161.8
	4000	45026	259	173.8
	5000	43887	268	163.7
	3500	47854	302	158.6
	4000	49609	289	171.8
	5000	48745	303	161.1

Photometric Data

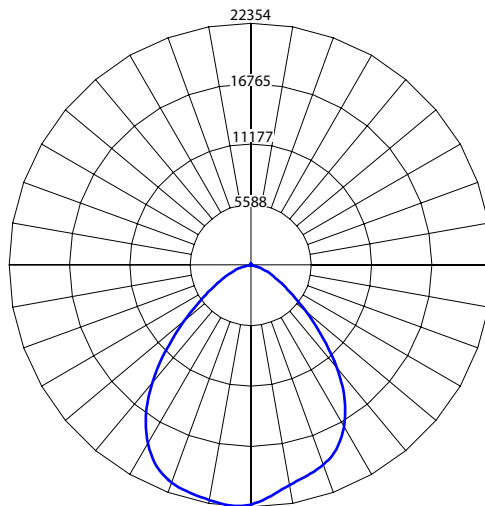
HBN 150W 50K	
Input Voltage (VAC)	120-347
System Level Power (W)	143.9
Delivered Lumens (Lm)	24037
System Efficacy (Lm/W)	167.0
Correlated Color Temp (K)	5052
Color Rendering Index (CRI)	83
Beam Angle (0)	87.5
Beam Angle (90)	87.6
Spacing Criteria (0)	1.34
Spacing Criteria (90)	1.30



Cone of Light Tabulation		
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	48.1	28.7
17	37.4	32.5
20	27.0	38.3
23	20.4	44.0
25	17.3	47.9
28	13.8	53.6
30	12.0	57.4

Data Multipliers			
	3500K	4000K	5000K
100W	0.686	0.703	0.676
130W	0.888	0.909	0.875
150W	1.014	1.039	1.000

HBN 300W 35K	
Input Voltage (VAC)	120-347V
System Level Power (W)	302.1
Delivered Lumens (Lm)	47854
System Efficacy (Lm/W)	158.4
Correlated Color Temp (K)	3423
Color Rendering Index (CRI)	84
Beam Angle (0)	87.1
Beam Angle (90)	88.2
Spacing Criteria (0)	1.24
Spacing Criteria (90)	1.18



Cone of Light Tabulation		
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	98.6	28.5
17	76.7	32.3
20	55.4	38.0
23	41.8	43.7
25	35.3	47.5
28	28.0	53.2
30	24.3	57.0

Data Multipliers			
	3500K	4000K	5000K
240W	0.817	0.835	0.815
270W	0.896	0.924	0.900
300W	0.982	1.018	1.000

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

Sensors and Dimmers

PIR Sensors

See the individual spec sheet for further information

- Field installed 12VDC sensor
- Infrared motion detector with built in daylight sensor
- Remote control programmable
- Highly configurable:
 - Detection area
 - Stand-by period
 - Hold time
 - Stand-by dimming
 - Dimming level
 - Daylight harvesting threshold
- Max mounting height: 40ft (12m)
- IP65 Rated



H12V3SENSORPIR1PWH

Microwave Sensors

See the individual spec sheet for further information

- Field installed 12VDC sensor
- Microwave motion detector with built in daylight sensor
- Remote control programmable
- Highly configurable:
 - Detection area
 - Stand-by period
 - Hold time
 - Stand-by dimming
 - Dimming level
 - Daylight harvesting threshold
- Max mounting height: 40ft (15m)
- IP65 Rated



H12V3SENSORMW1PWH

H12V Remotes

See the individual spec sheet for further information

- Allows programming of MW or PIR sensors
- Allows adjustment of:
 - Brightness
 - Stand-by dimming level
 - Hold time
 - Stand-by time
 - Sensor Sensitivity
 - Stand-by dimming
 - Daylight harvesting threshold



H12V2REMOTE

NLC Bluetooth PIR/Daylight Sensor (NLC SPEJ1WH-LHW)

See the individual spec sheet for further information

- Field installed 12VDC sensor
- Infrared motion detector with built in daylight sensor
- Commissioned with NLC App
- Highly configurable:
 - Occupancy/Vacancy Detection
 - Full Range Dimming (0-10V)
 - Daylight Harvesting
 - Scene Control
 - High-End Trim
 - Full Networking
- Max mounting height: 40ft (12m)
- IP65 Rated



Recommended Dimmers*

Lutron NTSTV
Lutron DVSTV
Cooper SF10P
Legrand RH4FBL3PW

*Not a complete list. Check compatibility before installation.

12VDC Output

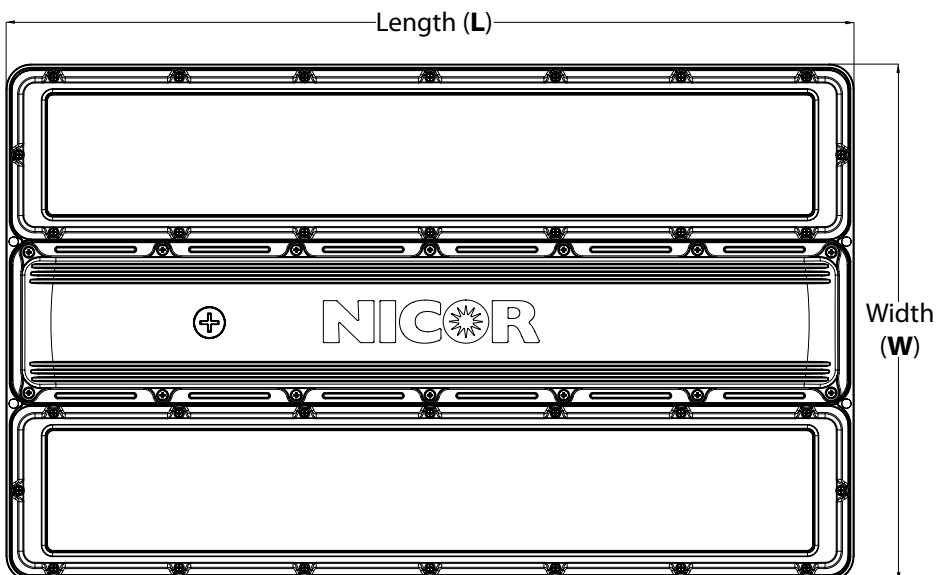
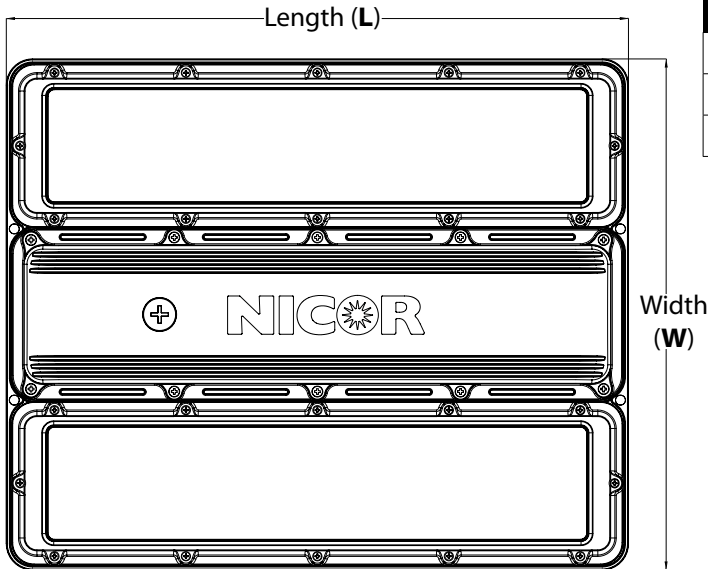
There is an additional 12VDC output on the driver. This output can be used to provide power to external low voltage sensors or controls. Do not use the 12VDC output if a sensor is installed in the socket.

Note: When using H12V sensors, set the fixture Wattage Selection Switch to the highest wattage. Lower wattages can then be set via the H12V Remote Control.

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Dimensions



Product Measurements		
	150W	300W
Length:	16.8 in. (426mm)	24.2 in. (615mm)
Width:	13.8 in. (350mm)	14.8 in. (375mm)
Height:	2.45 in. (62mm)	2.45 in. (62mm)

Power Lead Measurements		
	Dimming/EM	AC Power
Diameter:	0.33 in. (8.5mm)	0.37 in. (9.4mm)
Length:	3.3 ft. (1m)	5.9 ft. (1.8m)