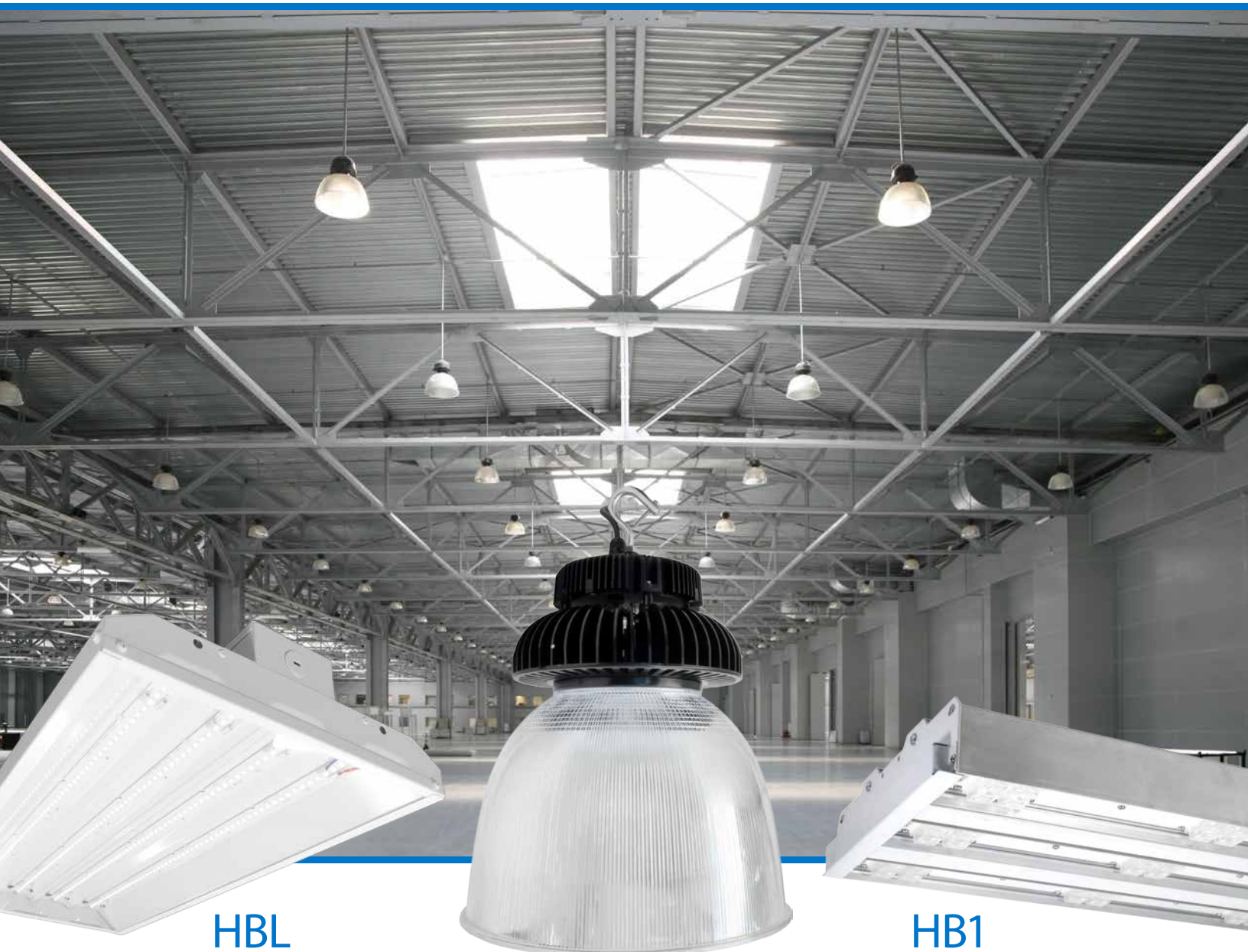


Industrial and Commercial Series

LED Low / High Bays



HBL

HBC

HB1

Improve Efficiency. Increase Productivity. **Save Energy.**



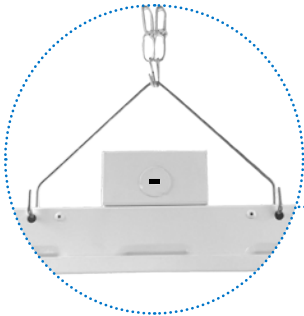
HBL

LED Linear Low Bay / High Bay

The **HBL LED Linear Low Bay/High Bay** provides a lumen package that is ideal for replacing metal halide and linear fluorescent low bay systems. This economical fixture offers high performance and long life, excellent color rendering, various color temperatures and even uniformity. Suggested mounting heights up to 75' with typical applications including warehouses, commercial and manufacturing facilities as well as open and stack aisle applications.

Lumens per Watt

UP TO **129**



Hassle-Free Mounting

Easy mounting with chain and hook or optional pendant kit.

Junction Box

Easy access to wiring makes installation hassle-free.

Surge Protection

Built-in 10kA surge protection standard

Rounded Edges

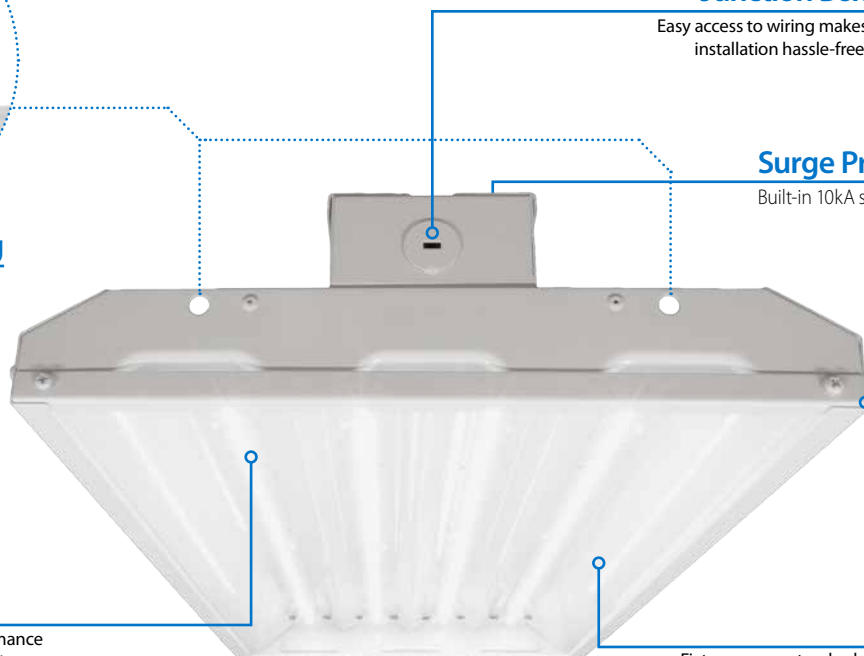
Smooth rounded edges provide safer handling of fixture

High Efficacy LEDs

Provide long-lasting, efficient performance with uniform color and light distribution.

Lens

Fixture comes standard with clear lens and has optional frosted diffuser available.





Economical Linear High Bay for Most Applications

Energy efficient, economical lighting solution

- Vented steel housing provides thermal management through natural convection
- Mounting options include pendant and chain/cable
- Standard 10kA surge protection
- Emergency battery backup and wire guard available

Two Lens Aesthetics

Determine the best visual design for your environment

- Customizable lens style to fit any design space
- Clear acrylic lens protects LED and provides optimal lumen output
- Frosted diffuser available for a cleaner design aesthetic and glare reduction

High Performance NICOR LED Design

Increases performance and energy savings

- Advanced High-powered LED technology
- High efficiency with up to 129 lumens per watt
- Projected L70 LED lifetime >70,000 hours
- Operating temperature range of -0°F to 104°F (-18°C to 40°C)
- Mounting heights of up to 75 feet
- 4000K/5000K creates a whiter more vibrant environment
- Greater than 80 CRI
- UL listed
- 120-277V; 480V option (excludes 150W)
- 0-10V Dimming
- No restrike delay with LEDs

Four Lumen Package Configurations

Traditional linear design fits any application

- 13,030 lumens for 250W HID replacement
- 20,317 lumens for 400W HID replacement
- 28,392 lumens for greater than 400W HID replacement
- 38,400 lumens for greater than 750W HID replacement

Increased ROI

Reduces processing errors, increases workspace safety, and reduces cost

- Significantly reduces operating and relamping costs
- DesignLights Consortium® qualified (DLC)
- Qualifies for many utility rebate programs



HBL Wattage Options

HBL-100W Greater Than 13,000 Lumens

Dimensions: 23.8in (605mm) x 12.6in (320mm) x 3.6in (92mm)

- Rack & Aisle
- Storage areas
- Small Warehouses
- Garages



HBL-150W Greater Than 20,000 Lumens

Dimensions: 23.8in (605mm) x 17.3in (440mm) x 3.6in (92mm)

- Manufacturing Facilities
- Gymnasiums
- Warehouses
- Garages



HBL-200W Greater Than 28,000 Lumens

Dimensions: 46in (1166mm) x 12.6in (320mm) x 3.6in (92mm)

- Showrooms
- Gymnasiums
- Warehouses
- Garages



HBL-320W Greater Than 38,000 Lumens Available Fall 2016

Dimensions: 46in (1166mm) x 17.3in (440mm) x 3.6in (92mm)

- Manufacturing Facilities
- Airports
- Warehouses
- Sports complex



HBL Module Comparison

	NICOR [®] LED HBL w/ Clear Lens	HID	Fluorescent
Warehouses, manufacturing facilities, airports, sports complex 50-80' Ceilings	320W Category 315W Actual 38,400 LM	750W MH 859W	12 lamp T5 648W
Warehouses, gymnasiums, showrooms, garages 25-35' Ceilings	200W Category 220W Actual 28,392 LM	400W PSMH 458W	8 lamp T5 468W
Warehouses, manufacturing facilities, garages, gymnasiums 20-35' Ceilings	150W Category 160W Actual 20,317 LM	400W MH 458W	6 lamp T5 351W
Storage areas, garages, aisle lighting small warehouses 15-25' Ceilings	100W Category 108W Actual 13,030 LM	250W MH 297W	4 lamp T5 234W

Lens Options



Clear

Clear lens comes standard with HBL.

Frosted

Frosted diffuser option available for HBL.

Additional Accessories



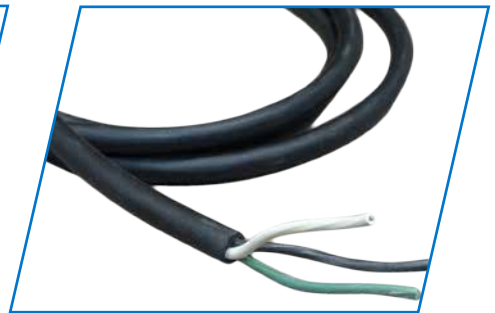
Microwave Motion Sensor

Offering stand-by dimming during vacancy at 50, 30, 20 and 10 percent light output, this sensor facilitates greater energy savings.



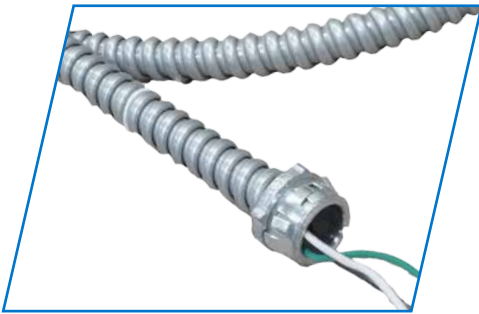
Infrared Motion Sensor

Multiple options to provide automatic control and energy savings.



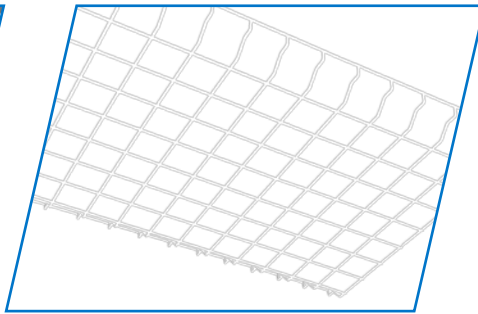
Cord & Plug Option

Standard 6ft cord with custom lengths available for wiring fixture.



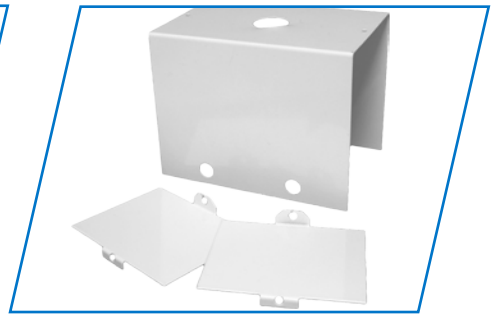
Flexible Metal Conduit Option

Flexible metal conduit provides more wire protection and a secure fit.



Wire Guard Option

Wire guard options for HBL add protection to the lens from any potential damage.



Pendant Mount Option

The pendant mount option is available for all HBL fixtures.



High Voltage Transformers

High voltage transformers allow the fixture to attain a higher power output. 347V - 480V.



Frosted Lens Option

The frosted lens option provides an even light spread and is ideal for lower ceiling applications.



Emergency Battery Back-up

The emergency battery back-up provides 90 minutes of power to your fixture in the event of an emergency.



HBC

LED Low Bay / High Bay

The HBC LED Low Bay/High Bay is an affordable one-for-one replacement for 250W and 400W metal halide fixtures. The forged aluminum heatsink design makes it one of the lightest fixtures in the market. Use of high efficient LED technology provides consistent, even color and light distribution making it a perfect choice in environments where safety and productivity are needed such as grocery stores, gymnasiums, hangers, industrial and warehouse spaces.

Lumens per Watt

UP TO **134**



Hassle-Free Mounting

Preinstalled hook with locking bolt allows for easy installation.

Surge Protection

Built-in 2kA surge protection standard

High Efficacy LEDs

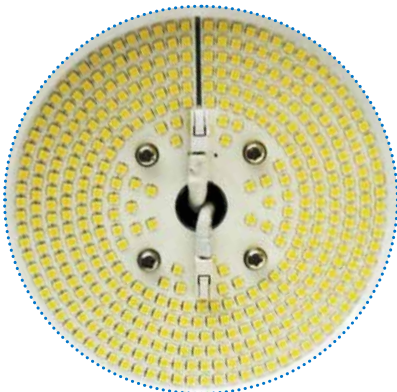
Provide long-lasting, efficient performance with uniform color and light distribution.

Heat Sink

Forged aluminum heat sink directs heat away from electrical components and provides cooler operating temperature.

Reflectors

Optional reflectors allow the end-user to customize light distribution to their application needs.





Lightweight Traditional Design Aesthetic

Durable, lightweight and easy to install

- Forged aluminum heatsink provides superior cooling while reducing fixture weight
- Preinstalled hook with locking bolt allows for easy installation
- Optional glare shield or motion sensors

Four Beam Angles

Direct light exactly where you need it

- Optimizes illumination for open floor or racked/aisle environment
- 120° No reflector for overall general illumination
- 90° Aluminum reflector for more concentrated light pattern
- 60° Aluminum reflector for even more concentrated light pattern
- 70° Polycarbonate reflector for overall general illumination



High Performance NICOR LED Design

Increases performance and energy savings

- Advanced High-powered LED technology
- High efficiency with up to 134 lumens per watt
- Projected L70 LED lifetime >111,000 hours
- Operating temperature range of -4°F to 122°F (-20°C to 50°C)
- Mounting heights of up to 45 feet
- 4000K/5000K creates a whiter more vibrant environment
- Greater than 80 CRI
- UL listed; Wet Location Rated
- 120-277V, 0-10V Dimming
- No restrike delay with LEDs

Three Lumen Package Configurations

Traditional design aesthetics fits any application

- 13,627 lumens for 250W HID replacement
- 20,441 lumens for 400W HID replacement
- 32,194 lumens for greater than 400W HID replacement

Increased ROI

Reduces processing errors, increases workspace safety, and reduces cost

- Significantly reduces operating and relamping costs
- DesignLights Consortium® qualified (DLC)
- Qualifies for some utility rebate programs



Reflector Options



HBC Basic 120°



HBC w/60° Aluminum Reflector

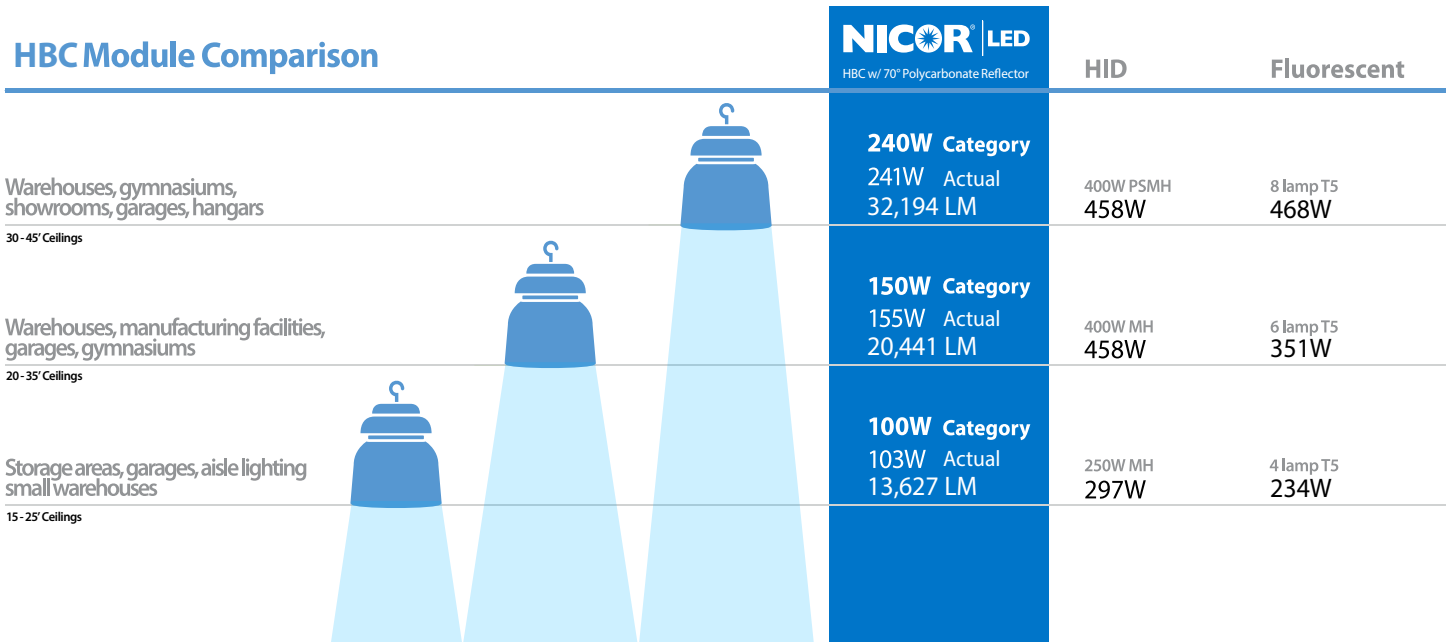


HBC w/90° Aluminum Reflector

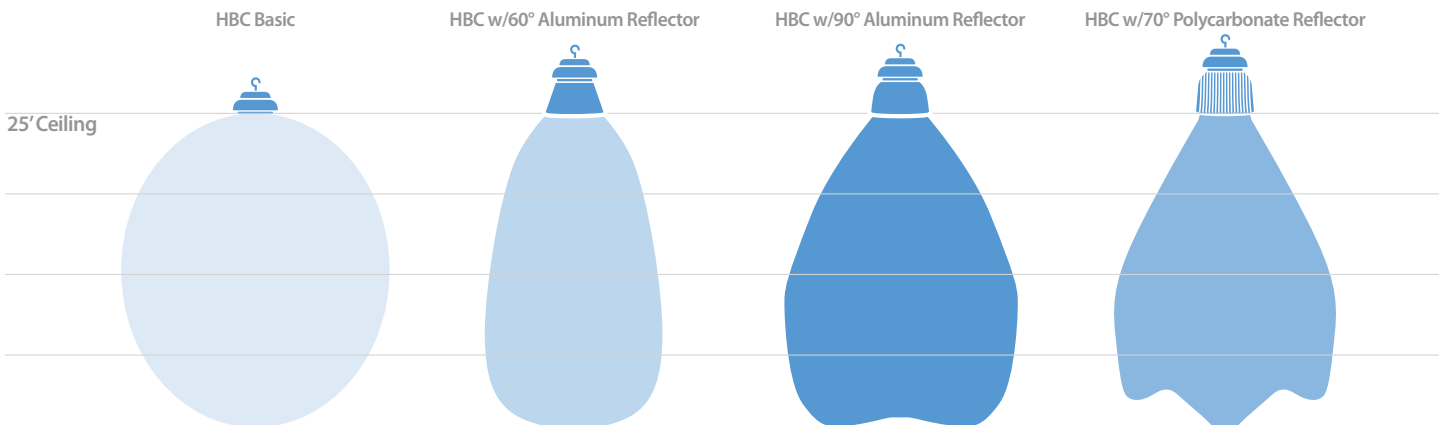


HBC w/70° Polycarbonate Reflector

HBC Module Comparison



HBC Reflector Comparison



Optional optics

- HBC Basic 120°
- HBC w/AL60 60°
- HBC w/PC70 70°
- HBC w/AL90 90°

Illuminated area @ 25' ceiling

- HBC Basic 1022 ft²
- HBC w/AL60 103 ft²
- HBC w/PC70 324 ft²
- HBC w/AL90 135 ft²

Additional Accessories



Reflector Options

The HBC reflector options allow the end-user to customize the light distribution.



Glare Shields

Improves overall visibility and the ability to see details while eliminating shadows and hot spots



Motion Sensor

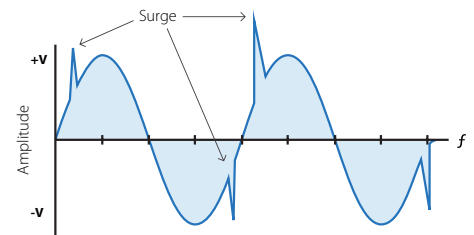
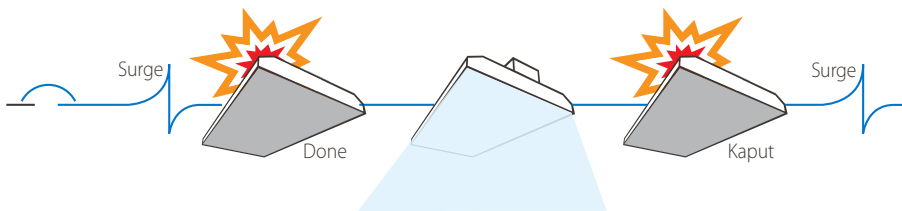
Offering stand-by dimming during vacancy at 50, 30, 20 or 10 percent light output, this sensor facilitates greater energy savings.

Built to Withstand Industrial Environments

AN IMPORTANT NOTE ON SURGE PROTECTION

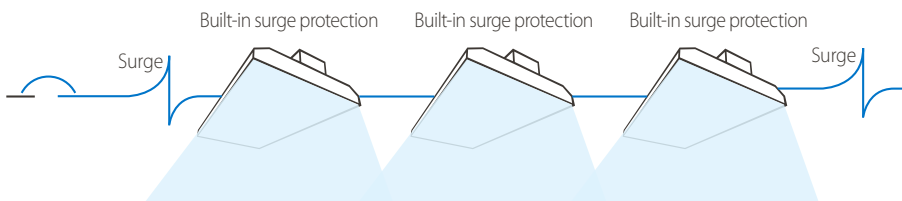
Unprotected High Bay Fixtures

Many other fixtures may have inferior surge protection



NICOR® HBL & HB1

10kA surge protection is a standard feature



Some Causes of Electric Surge

- Start / stop of heavy loads
- Motor operation
- Use of high-power tools
- Refrigeration
- Elevator operation
- Arc furnaces
- Badly regulated transformers
- Lightning strikes
- Poor grounding in facility
- "Dirty" power

10kA surge protection included.
Protect your fixtures.
Protect your budget.



HB1

Modular LED High Bay

The **HB1 Modular High Bay** delivers a flexible solution for any commercial or industrial application, with its customizable LED light bar system and various precision lens optics packages. The modular advantage of this high performing fixture is the design flexibility of directing light exactly where you need it. The HB1 Modular LED High Bay handles mounting heights up to 80 feet and easily operates in a variety of applications, such as warehouses, manufacturing facilities, gymnasiums, arenas, sports complexes, showrooms, garages, hangars, and storage areas, making it an ideal choice.



Mounting Options

The HB1 comes with a Gripple® cable hanger kit or an optional pendant mounting kit.

LED Light Bar

Customizable lumen package to fit any design space (2, 3, 4 or 6 bar configurations)

Customizable Optics

Multiple beam angles allow for tight or extra wide beam spread (31°, 52°, 72° or 121°)

Surge Protection

Built-in 10kA surge protection standard





Flexible Modular LED Design System

As much light as you need, where you need it

- Customizable to fit any design space
- Fits a variety of applications within one design environment
- Can be used with multiple size configurations throughout the building, while keeping the same design aesthetic

Multiple Precision Lens Optic Choices

Direct light exactly where you need it

- Narrow to wide light distribution
- 32°, 54°, 62°, and 121° (FWHM) beam spreads
- Optimizes illumination for open floor or racked/aisle environment
- Allows for increased illumination at floor level for higher ceilings



High Performance NICOR LED Design

Increases performance and energy savings

- Advanced High-powered LED technology
- High efficiency with over 100 lumens per watt
- Projected L70 LED lifetime >100,000 hours
- Operating temperature range of -16°F to 122°F (-27°C to 50°C)
- Mounting heights of up to 80 feet
- 4000K/5000K creates a whiter more vibrant environment
- UL listed; rated for damp locations
- No restrike delay with LEDs

Four Light Bar Configurations

Fits any design application while maintaining a consistent design aesthetic

- 2 Bar (14,780 lumens)
- 3 Bar (22,090 lumens)
- 4 Bar (29,400 lumens)
- 6 Bar (43,620 lumens)

Increased ROI

Reduces processing errors, increases workspace safety, and reduces cost

- Significantly reduces operating and relamping costs
- DesignLights Consortium® qualified (DLC)
- Qualifies for many utility rebate programs



Light Distribution Options



Medium

32° FWHM ideal for racked or aisle way considerations above 40 foot mounting heights.



Wide

54° FWHM ideal for open floor plan or high bay applications above 30 foot mounting heights.



Wide Wide

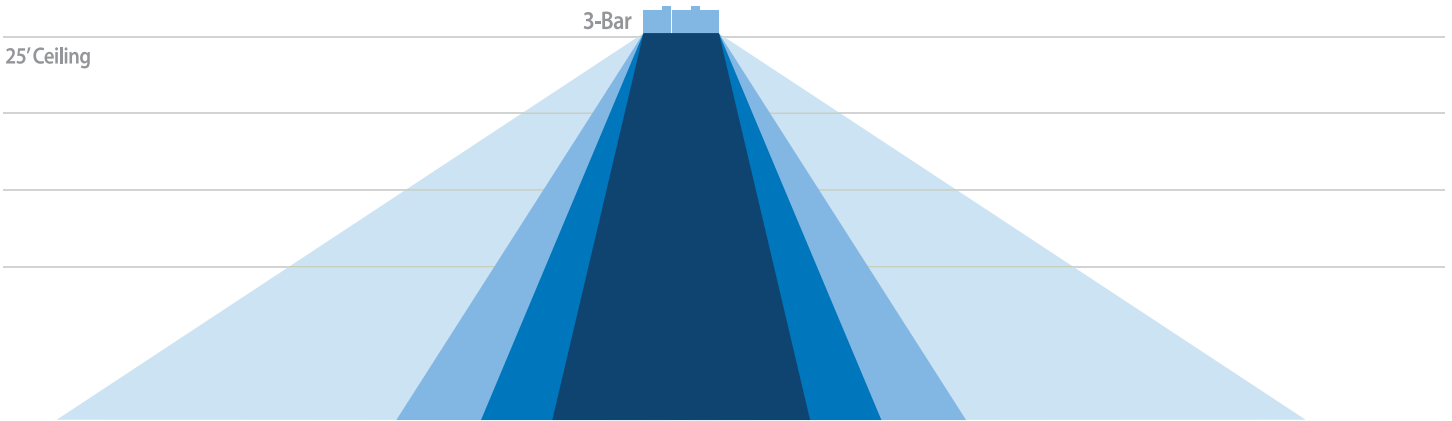
62° FWHM ideal for open floor plans at any mounting height.



Ultra Wide

121° FWHM ideal for wide open floor plans at low mounting heights.

HB1 Optics Comparison



Optional optics

- Ultra Wide 121°
- Wide Wide optics 62°
- Wide optics 54°
- Medium optics 32°

Centerbeam Cd @ 25'

- 8,500 Cd
- 20,000 Cd
- 23,850 Cd
- 61,600 Cd

Illuminated area @ 25'

- 5890 ft²
- 1040 ft²
- 470 ft²
- 150 ft²

HB1 Module Comparison

	NICOR LED	HID	Fluorescent
Warehouses, manufacturing facilities, airports, sports complex 50-80' Ceilings	6-Bar 43,620 LM 429W Actual	750W MH 859W	12 lamp T5 648W
Warehouses, gymnasiums, showrooms, garages, hangars 30-50' Ceilings	4-Bar 29,400 LM 284W Actual	400W PSMH 458W	8 lamp T5 432W
Warehouses, manufacturing facilities, garages, gymnasiums 20-30' Ceilings	3-Bar 22,090 LM 214W Actual	400W MH 458W	6 lamp T5 324W
Storage areas, garages, aisle lighting small warehouses 10-20' Ceilings	2-Bar 14,780 LM 141W Actual	250W MH 297W	4 lamp T5 216W

Light Bar Options

2 Bar Greater Than 14,000 Lumens

- Rack & Aisle
- Storage areas
- Warehouses
- Garages

3 Bar Greater Than 22,000 Lumens

- Manufacturing Facilities
- Gymnasiums
- Warehouses
- Garages

4 Bar Greater Than 29,000 Lumens

- Manufacturing Facilities
- Hangars
- Warehouses
- Showrooms

6 Bar Greater Than 43,000 Lumens

- Manufacturing Facilities
- Airports
- Arenas
- Warehouses



Additional Accessories



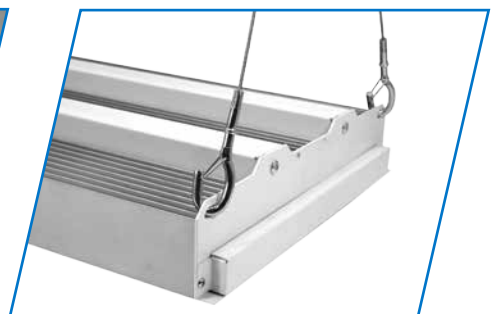
Snap-On Power Whip

Significantly and efficiently reduces labor and installation time to connect branch circuit power distribution and lighting systems.



Optional Motion Sensors

An inexpensive way to make a further reduction in energy costs by ensuring that lights are only on when they are really needed.



NICOR Easy Mount system

Quick installation with easily adjustable mounting height. Snap hook cable system and Grippler® cable hanger kit Included.



High Voltage Transformers

High voltage transformers allow the fixture to attain a higher power output.



Pendant Mount/Cord and Plug

Pendant mount kit available.
Cord and plug option available.



Emergency Battery Back-up

The emergency battery back-up provides 90 minutes of power to your fixture in the event of an emergency



At a glance High/Low Bay comparison

HBL | HBC | HB1



HBL Series



HBC Series



HB1 Series

Diffuser/Reflector Options

Clear | Frosted

Aluminum | Polycarbonate
optional glare shield

Customizable Optics

Battery Back-Up



Motion Sensor



Lumen Options

13,000Lm - 38,000Lm

13,000Lm - 32,000Lm

14,000Lm - 43,000Lm

CCT Options

40K 50K

40K 50K

40K 50K

Surge Protection Included



1.2kV / 10kA



4kV / 2kA



1.2kV / 10kA

Watts

100W - 324W

100W - 240W

141W - 429W

Lumens Per Watt

129 Lm/W

134 Lm/W

104 Lm/W

Mounting Height

15ft - 75ft

15ft - 45ft

10ft - 80ft

Projected Lifetime

>70,000 hrs

>111,000 hrs

>100,000 hrs

Dimming

0-10 VDC

0-10 VDC

0-10 VDC

Warranty

5 Years

5 Years

5 Years

Certifications



Full Product details can be found at: nicorlighting.com

HBL ORDERING INFORMATION

Example: HBL-10-150W-HV-50K-DMF

Series	Version	Power Category	Voltage	CCT's	Lens	Motion Sensor (Factory Install)	Emergency	Wiring Options	Plug Options ¹
HBL	10 (1.0)	100W	UNV (120-277V)	40K (4000K)	(Blank) Clear	(Blank) No Motion Sensor	(Blank) No Emergency Backup	(Blank) No Cord	(Blank) No Plug
		150W	HV (347-480V)	50K (5000K)	D Diffused	M PIR Sensor	E Emergency Backup	C ⁶ Cord	1 (515P) 15 amp 120V Straight Blade Plug
		200W				W Microwave Sensor		F Flexible Metal Conduit	2 (L515P) 15 amp 120V Twist Lock Plug
		320W							3 (L615P) 15 amp 240V Twist Lock Plug

Additional Accessories

Wireguard

HBL-10-100-WG	Wireguard for 100W HBL (23" x 12")
HBL-10-150-WG	Wireguard for 150W HBL (23" x 17")
HBL-10-200-WG	Wireguard for 200W HBL (46" x 12")
HBL-10-320-WG	Wireguard for 320W HBL (46" x 17")

Pendant Kit

HBL-10-PENDANT	Pendant kit for HBL
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Frosted Diffuser

HBL-10-100-FROS-DIFU	HBL 100W Frosted Diffuser
HBL-10-150-FROS-DIFU	HBL 150W Frosted Diffuser
HBL-10-200-FROS-DIFU	HBL 200W Frosted Diffuser
HBL-10-320-FROS-DIFU	HBL 320W Frosted Diffuser



4 (L720P) 20 amp 277V Twist Lock Plug
5 (L2420P) 20 amp 347V Twist Lock Plug
6 (L820P) 20 amp 480V Twist Lock Plug
7 (L715P) 15 amp 277V Twist Lock Plug

HBC ORDERING INFORMATION

Example: HBC-10-150W-UNV-50K-PC704

Series	Version	Power Category	Voltage	CCT's	Reflector	Plug Options
HBC	10 (1.0)	100W	UNV (120-277V)	40K (4000K)	Basic (No Reflector, Leave Blank)	(Blank) No Plug
		150W		50K (5000K)	PC70 (70° Polycarbonate Reflector)	1 (515P) 15 amp 120V Straight Blade Plug
		240W ²			AL90 (90° Aluminum Reflector)	2 (L515P) 15 amp 120V Twist Lock Plug
					AL60 (60° Aluminum Reflector)	3 (L615P) 15 amp 240V Twist Lock Plug

Additional Accessories

Motion Sensor

HBC-MWOS	Field install microwave motion sensor
HBC-MWOS-BASIC	Field install microwave motion sensor for use with HBC Basic only

Glare Shield

HBC-10-GS-PC	Glare Shield for Polycarbonate Reflector
HBC-10-GS-AL	Glare Shield for Aluminum Reflector

Reflectors

HBC-10-RFL-PC-70	70° Polycarbonate Reflector
HBC-10-RFL-AL-60	60° Aluminum Reflector
HBC-10-RFL-AL-90	90° Aluminum Reflector



4 (L720P) 20 amp 277V Twist Lock Plug
7 (L715P) 15 amp 277V Twist Lock Plug

HB1 ORDERING INFORMATION

Example: HB1-3B-UNV-50K-WW-DMPC

Series	# of Bars	Voltage	CCT's	Optics (° FWHM)	Dimming	Motion Sensor (Factory Install)	Pendant	Emergency	Cord	Plug Options ¹
HB1	2B (2-Bar)	UNV (120-277)	40K ⁴ (4000K)	M (32)	(Blank) No Dimming	(Blank) No Motion Sensor	(Blank) No Pendant Kit	(Blank) No Emergency Backup	(Blank) No Cord	(Blank) No Plug
	3B (3-Bar)	HV ³ (347-480)	50K ⁴ (5000K)	W (54)	D ⁵ Dimmable	M Motion Sensor	P Pendant Kit	E Emergency Backup	C ⁶ Cord	1 (515P) 15 amp 120V Straight Blade Plug
	4B (4-Bar)			WW (62)						2 (L515P) 15 amp 120V Twist Lock Plug
	6B (6-Bar)				UW (121)					3 (L615P) 15 amp 240V Twist Lock Plug

Questions? Contact NICOR for info & pricing

¹ Plug option requires cord wiring option

² Only available in 5000K

³ HV Available on 2B, 3B, & 4B only

⁴ 4000K/80+ CRI - 5000K/70+ CRI

⁵ If dimming enabled, plug option not available

⁶ 6ft standard length cord (custom lengths available)



4 (L720P) 20 amp 277V Twist Lock Plug
5 (L2420P) 20 amp 347V Twist Lock Plug
6 (L820P) 20 amp 480V Twist Lock Plug
7 (L715P) 15 amp 277V Twist Lock Plug

Warehouse Locations

Albuquerque NM
Atlanta GA
Detroit MI
Miami FL
San Antonio TX
Syracuse NY

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