

DESCRIPTION

Nordeon's round high bay fixture is a perfect fit for numerous applications including manufacturing plants, industrial facilities, warehouses, and retail spaces. With a broad range of input voltages, lumen packages, color temperatures, and mounting accessories, the round high bay is both a functional and versatile light source. Numerous occupancy sensor options and lensing allows you to configure the light perfectly for your application. With significant energy savings over HID, this LED high bay is a clear choice for performance and cost savings.



Date:	_ Type:	_ Catalog Number:
Project Name:		

ORDERING INFORMATION

LUMINAIRE									
MODEL	OUTPUT	ССТ	VOLTAGE	ELECTRICAL OPTIONS		MOUNTING	PHYSICAL OPTIONS	FINISH	CORD
NHBR1 Round High Bay	12L 12,000 Nominal Lumens	30K 3000K	UNV 120-277V Dimming	None* ² * ² Leave Blank	OC3 Smart Occupancy Sensor for 20' Height/ ø40'	NPT12 1⁄2" Female Pendant Mount Threads (STANDARD)	OPN Open Lens	BL Black	BC6 Black SO Cord, 6' Length
	18L 18,000 Nominal Lumens	35K 3500K	347V*1 347-480V Dimming	OC1 Occupancy Sensor for ø20-60'	OC3R Smart Occupancy Sensor With Refractor for 20' Height/ø40'	NPT34 ½" to ¾" Pendant Adapter	WG Wire Guard	WH White	BC10 Black SO Cord, 10' Length
	24L 24,000 Nominal Lumens	40K 4000K		OC1R Occupancy Sensor for ø20-60' With Refractor	OC3W Smart Occupancy Sensor With Widebay for 20' Height/ø40'	HK Hook	JBOX Junction Box		
	30L 30,000 Nominal Lumens	50K 5000K		OC1W Occupancy Sensor for ø20-60' With Widebay	OC4 Smart Occupancy Sensor for 40' Height/ ø100'	TN Trunnion			
				OC2 Smart Occupancy Sensor for 8' Height/ ø48'	OC4R Smart Occupancy Sensor With Refractor for 40' Height/ø100'	ACH Adjustable Cable Hanger Plate (Cable Sold Separately)			
				OC2R Smart Occupancy Sensor With Refractor for 8' Height/ø48'	OC4W Smart Occupancy Sensor With Widebay for 40' Height/ø100'				
"Trunnion Mount Required with 347V or EM Option			OC2W Smart Occupancy Sensor With Widebay for 8' Height/ø48'	EM*1 Emergency Battery Backup					

See Page 2 for ordering information of available accessories.



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OPTICAL ACCESSORIES

NHBR1-PCR

Prismatic Clear Ribbed Refractor (Acrylic)

NHBR1-PFR Prismatic Frosted Refractor (Acrylic)

NHBR1-SAR

Satin Aluminum Reflector

NHBR1-FL

Flat Clear Lens (For use with NHBR1-PCR, NHBR1-PFR, or NHBR1-SAR)

NHBR1-CL

Conical Clear Ribbed Lens (For use with NHBR1-PCR, NHBR1-PFR, or NHBR1-SAR)

NHBR1-WPC

Widebay Polycarbonate Clear Lens (For use with NHBR1-PCR, NHBR1-PFR, or NHBR1-SAR)

MOUNTING CABLE ACCESSORIES (For use with ACH mounting option)

ACH05

5-foot Adjustable Cable

ACH10

10-foot Adjustable Cable

ACH15

15-foot Adjustable Cable

ACH20

20-foot Adjustable Cable

PENDANT QUICK-HANG KIT

QHP12

1/2" Pendant Quick Hang Kit QHP34

34" Pendant Quick Hang Kit



NHBR1-PCR Prismatic Clear Ribbed Refractor (Acrylic)



NHBR1-CL Conical Clear Ribbed Lens



NHBR1-PFR Prismatic Frosted Refractor (Acrylic)



NHBR1-WG Wire Guard (Cannot be used with refractor or lens accessories)



NHBR1-SAR Satin Aluminum Reflector (Anodized)



NHBR1-WPC Widebay Polycarbonate Clear Lens





NHBR1-FL Flat Clear Lens



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		12L		8L	24L	30L		
PHYSICAL	HOUSING	Die-Cast Aluminum						
	DIMENSIONS (Bottom Diameter x Top Diameter x Height)	ø13.5" x ø5.12" x 6.51" H	13" x 7.48" H					
	OPERATING TEMPERATURE	-40°F to 122°F (-40°C to 50°C)						
	MOUNTING OPTIONS	1/2" Female Threads for Pendant Mounting Standard 1/2" and 3/4" Pendant Quick Hang Kits, Hook Mount, Trunnion Mount, Cable Hanger Plate, 1/2" to 3/4" NPT Pendant Adapter						
		1						
ELECTRICAL	POWER (Maximum Watts)	90	1	126	184	237		
	AMPERAGE AT 120 VOLTS	0.75	1	.05	1.53	1.98		
	AMPERAGE AT 277 VOLTS	0.32	C).45	0.66	0.86		
	AMPERAGE AT 347 VOLTS	0.26	C).36	0.53	0.68		
Values based on full	AMPERAGE AT 480 VOLTS	0.19	C).26	0.38	0.49		
output at 5000K.	CONTROL	0-10V Dimming						
PHOTOMETRIC	LED	Static White 3000K, 3500K, 4000K, or 5000K						
	NUMBER OF DISTRIBUTIONS	One, With Optical Accessories Available						
	LUMEN MAINTENANCE	L90 > 100,000 Hours at 77°F*						
CERTIFICATIONS	SAFETY	ETL Certified for Damp Locations						
	INGRESS PROTECTION	IP65						
LUMEN MULTIPLIER		3000K			0.978			
VARIABLE CCT								
(Applies to Light Distribution Data on		3500K 0.983						
Page 4)		4000K 0.982						
		5000K		1.0				



LIGHT	LENS/OPTICS	EFFICACY (Im/w)	LUMEN OUTPUT					
DISTRIBUTIONS		12L						
	Open	127	11459					
	Prismatic Clear Ribbed Refractor	124	11127					
	Prismatic Frosted Refractor	123	11040					
	Satin Aluminum Reflector	116	11040					
	Prismatic Clear Ribbed Refractor with Conical Clear Ribbed Lens	117	10572					
	Prismatic Frosted Refractor with Conical Clear Ribbed Lens	117	10565					
	Prismatic Clear Ribbed Refractor with Flat Clear Lens	117	10541					
	Prismatic Frosted Refractor with Flat Clear Lens	120	10784					
	Widebay Polycarbonate Clear Lens	107	9619					
		18L						
	Open	140	17559					
	Prismatic Clear Ribbed Refractor	135	17051					
	Prismatic Frosted Refractor	134	16917					
	Satin Aluminum Reflector	127	16045					
	Prismatic Clear Ribbed Refractor with Conical Clear Ribbed Lens	128	16200					
	Prismatic Frosted Refractor with Conical Clear Ribbed Lens	129	16190					
	Prismatic Clear Ribbed Refractor with Flat Clear Lens	128	16153					
	Prismatic Frosted Refractor with Flat Clear Lens	131	16525					
	Widebay Polycarbonate Clear Lens	111	14012					
		24L						
	Open	132	24213					
	Prismatic Clear Ribbed Refractor	128	23512					
	Prismatic Frosted Refractor	127	23328					
	Satin Aluminum Reflector	120	22125					
	Prismatic Clear Ribbed Refractor with Conical Clear Ribbed Lens	121	22339					
	Prismatic Frosted Refractor with Conical Clear Ribbed Lens	121	22325					
	Prismatic Clear Ribbed Refractor with Flat Clear Lens	121	22274					
	Prismatic Frosted Refractor with Flat Clear Lens	124	22787					
	Widebay Polycarbonate Clear Lens	105	19370					
	30L							
	Open	124	29264					
	Prismatic Clear Ribbed Refractor	120	28417					
	Prismatic Frosted Refractor	119	28194					
	Satin Aluminum Reflector	113	26741					
	Prismatic Clear Ribbed Refractor with Conical Clear Ribbed Lens	114	26999					
	Prismatic Frosted Refractor with Conical Clear Ribbed Lens	114	26982					
	Prismatic Clear Ribbed Refractor with Flat Clear Lens	114	26921					
Values based on full	Prismatic Frosted Refractor with Flat Clear Lens	116	27541					
output at 5000K*.	Widebay Polycarbonate Clear Lens	99	23411					

*For other color temperatures, see Lumen Multiplier Table on Page 3.



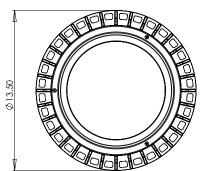
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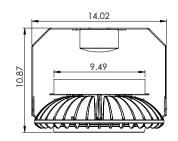
LIGHTING SOLUTIONS

DIMENSIONS



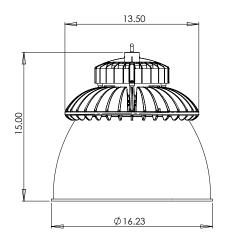
BOTTOM VIEW

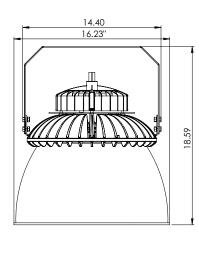
Shown With Reflector Accessory (Shown with 347-480V Dimming Driver)

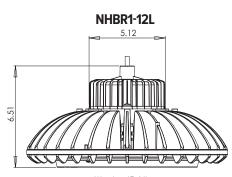


Shown With Reflector Accessory and

Trunnion Mount



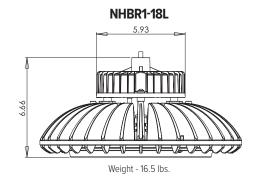




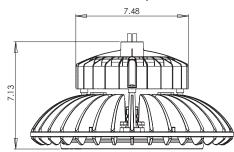
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LIGHTING SOLUTIONS

Weight - 15.4 lbs.



NHBR1-24L, 30L



Weight - 17.8 lbs.

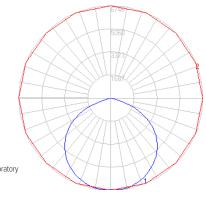
PHOTOMETRIC DATA

NHBR1-18L-50K

Catalog Number: NHBR1-18L-50K

Lens/Optics:	Clear Glass Lens
CCT	5000K
IESNA:	LM-63-2002
Total Input Watts:	130.1
Efficacy (Lm/W):	143.0
Total Lumens:	18609
Prepared by: American Tes	ting & Assessment Labo

NOTE: Data shown is absolute for product shown.



Model	CCT	Lumens	System Wattage	Lm/W
	3000K	11709	86.7	135.0
12L	3500K	11073	86.1	128.6
12L	4000K	12166	86.3	140.9
	5000K	12176	84.6	143.9
	3000K	15791	119.5	132.1
18L	3500K	15002	118.3	126.8
	4000K	18578	134.1	138.5
	5000K	18609	130.1	143.0
	3000K	23510	195.4	120.3
24L	3500K	22444	193.5	115.9
24L	4000K	25202	198.5	126.9
	5000K	25721	194.6	132.1
30L	5000K	29441	234.3	125.7



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LIGHTING CONTROLS Passive Infrared (PIR)



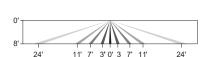
Adjustable Control Parameters [Defaults]

- HIGH Mode sensor detects motion, light output will RAMP UP to HIGH [DEFAULT = 10V].
- LOW Mode sensor stops detecting motion, TIME DELAY expires, light output will FADE DOWN to LOW [DEFAULT = 1V].
- TIME DELAY period that must elapse after sensor stops detecting motion, resuming LOW mode [DEFAULT = 5 MINUTES].
- CUT OFF period that must elapse after resuming LOW mode before luminaire is switched OFF [DEFAULT = 1 HOUR].
- SENSITIVITY response of the PIR to motion within the sensor coverage area [DEFAULT = MAXIMUM].
- SETPOINT when enabled, the selectable ambient light level that will hold the luminaire OFF or LOW when motion is detected [DEFAULT = DISABLED].
- PHOTOCELL when enabled, sensor will force the load OFF after the ambient light has exceeded the SETPOINT for at least one minute, or ON when the ambient light level goes below the SETPOINT [DEFAULT = DISABLED].
- RAMP UP TIME period for light output to change from LOW to HIGH [DEFAULT = DISABLED, instantly to HIGH].
- FADE DOWN TIME period for light output to change from HIGH to LOW [DEFAULT = DISABLED, instantly to LOW].
- LOCK SETTINGS time delayed IR communication lock initiated from a FSIR-100 handheld remote to prevent unauthorized changes to the parameters. [DEFAULT = DISABLED].



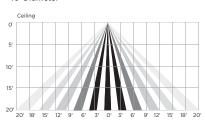
OPTION OC2

8' Mounting Height 40' Diameter



OPTION OC3

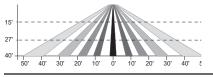
20' Mounting Height 40' Diameter

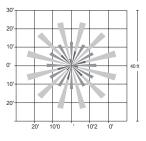


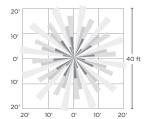
OPTION OC4 40' Mounting Height

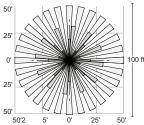
100' Diameter

EXPERI









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LIGHTING CONTROLS

Passive Infrared Surface Mount High Bay Occupancy Sensor



Adjustable Control Parameters [Defaults]

Fast, easy time delay setting: can be set at any time without requiring power to the sensor; time delay is variable from 30s-30m

Instantly verify fixture operation and wiring

connections: "instant ON" closing relay fires lamps in under 5 seconds

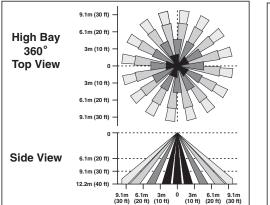
High Inrush Stability (H.I.S. Technology):

- Zero crossing circuitry optimizes relay operation for reliable, long-life operation
- Robust mechanical latching relay is durable for all load types

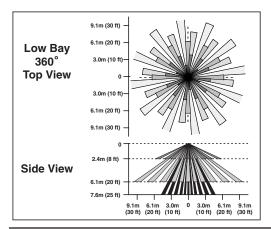
Auto temperature calibration: automatically adjusts the PIR sensitivity as ambient temperatures rises to increase detection of heat movement through the fieldof-view

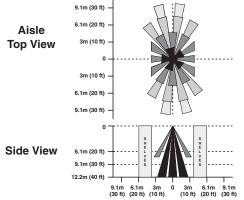
Return to last state: for safety and energy savings, the OSFHS contains a latching relay so that in the event power is lost to the device, the device will return to the last known state of the relay

False detection intelligence: for increased energy savings and to mitigate nuisance tripping, the super bright LED indicates advanced detection has been activated and the lights will only turn ON when true occupancy has been determined



SENSOR COVERAGE OPTIONS





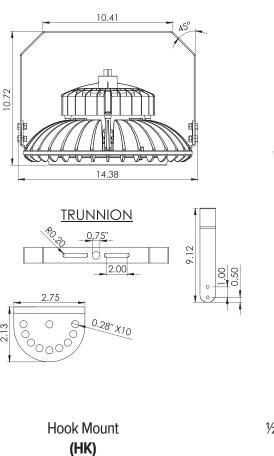
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Trunnion Mount (TN)

MOUNTING OPTIONS



Shown With Trunnion Mount



 $3\frac{1}{2}$ H x $1\frac{1}{2}$ W x 2" D

1/2" or 3/4" Quick-Hang Pendant (QHP12 or QHP34)

1.50

0

n - v

2.75

VA AX

9.29



11 Gauge, Black Powder Coat, Auto-Leveling

1/2" to 3/4" NPT Pendant Adapter (NPT34)

9 ½" H x 14 ¼" W x 1 ½" D



1½"Hx1½"D



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