NHBR1
Round LED High Bay

NORDEON LIGHTING SOLUTIONS

DESCRIPTION

The Nordeon Round High Bay luminaire is suitable for numerous applications including manufacturing plants, industrial facilities, warehouses, and retail spaces. The luminaire offers four lumen packages from 12,000 to 30,000 lumens in a selection of color temperatures and is suitable for mounting heights from 12' to 40'. Versatility is afforded by a selection of mounting options, optical accessories, and occupancy sensors to allow for configurations suited to the intended application.

WARRANTY 10 YEARS WARRANTY

BAA COMPLIANT

Date: _____ Type: _____ Catalog Number: _____

Project Name: _____

ORDERING INFORMATION

LUMINAIRE

MODEL	LUMEN OUTPUT	CCT	DRIVER	MOUNTING	FINISH	OPTIONS
NHBR1 Round High Bay	**12L**	**30K** 3000K	**UNV** 120-277V Dimming	**SM** Standard Mounting to existing pendant with 1/2" NPT threads	**BLK** Black (Standard)	**BCX** Black SO Cord, Specify X in feet
	18L	**35K** 3500K	**347V** 347-480V Dimming	**HK** Hook	**WHT** White	**OC1** Occupancy Sensor 25-40' H X 20-60' Dia.
	24L	**40K** 4000K		**TN** Trunnion		**OC1R** Occupancy Sensor 25-40' H X 20-60' Dia. For use with reflector or refractor
	30L	**50K** 5000K		**NPT** 3/4" NPT Pendant Adapter		**OC2** Occupancy Sensor 8' H X 40' Dia.
				ACH Adjustable Cable Hanger Plate Order cable separately		**OC2R** Occupancy Sensor 8' H X 40' Dia. For use with reflector or refractor
						OC3 Occupancy Sensor 20' H X 40' Dia.
						OC3R Occupancy Sensor 20' H X 40' Dia. For use with reflector or refractor
						OC4 Occupancy Sensor 40' H X 100' Dia.
						OC4R Occupancy Sensor 40' H X 100' Dia. For use with reflector or refractor

ACCESSORIES

NHBR1 - PCR Prismatic Clear Ribbed Refractor (Acrylic)	**NHBR1 - CL** Conical Clear Ribbed Lens for use with reflector or refractor	**NHBR1-YCM05** 5' hanger cable with Y-toggle
NHBR1 - PFR Prismatic Frosted Refractor (Acrylic)	**NHBR1 - FL** Flat Clear Lens for use with reflector or refractor	**NHBR1-YCM10** 10' hanger cable with Y-toggle
NHBR1 - SAR Satin Aluminum Reflector (Anodized)	**NHBR1 - WPC** Widebay Polycarbonate Clear	**NHBR1-YCM15** 15' hanger cable with Y-toggle
		NHBR1-YCM20 20' hanger cable with Y-toggle

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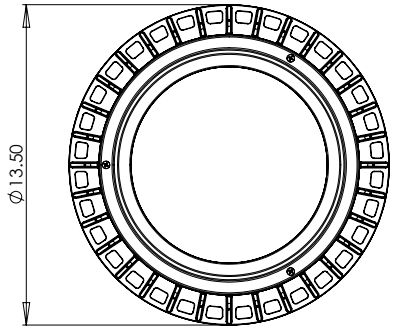
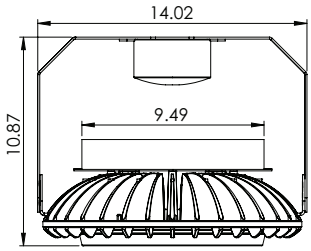
DIMENSIONS

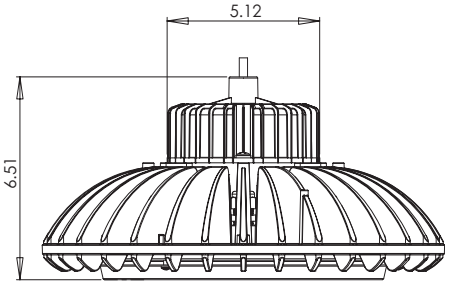


BOTTOM VIEW

(Shown with 347-480V Dimming Driver)

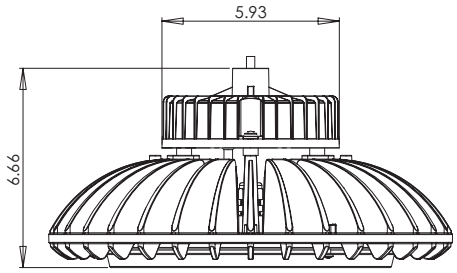


NHBR1-12L



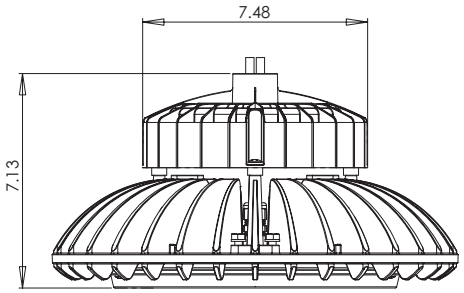
Weight - 15.4 lbs.

NHBR1-18L



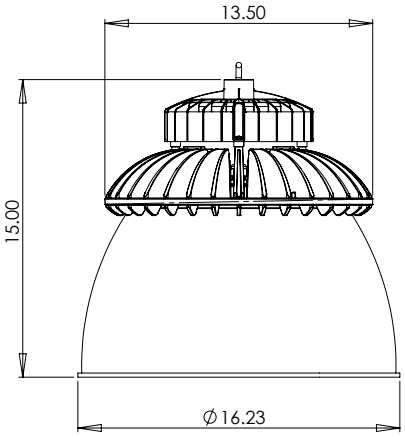
Weight - 16.5 lbs.

NHBR1-24L

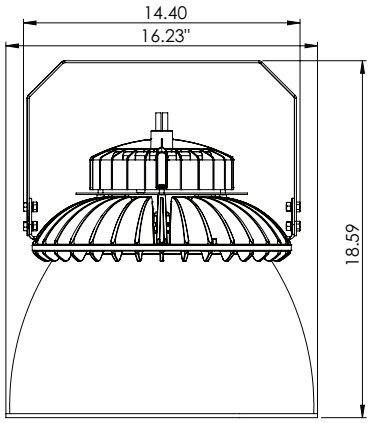


Weight - 17.8 lbs.

Shown With
Reflector Accessory



Shown With Reflector Accessory and
Trunnion Mount



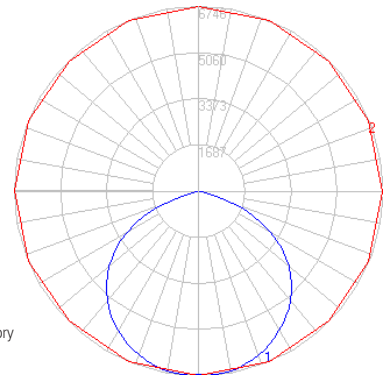
PHOTOMETRIC DATA

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 Testing & Assessment Laboratory
NOTE: Data shown is absolute for product shown.



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

PRODUCT SPECIFICATIONS

LUMEN OUTPUT	Up to 29441 @ 5000K (See photometric data chart for details)
EFFICACY	Up to 143.9 Lm/W (See photometric data chart for details)
LUMEN MAINTENANCE	>100,000 hours at 92% initial lumens
COLOR TEMPERATURES	3000K, 3500K, 4000K, 5000K
OPTICS	Clear tempered glass lens (standard). Optional prismatic clear ribbed or frosted acrylic refractors, or satin aluminum anodized reflector. Optional bottom lenses for refractors and reflectors may be clear flat or conical ribbed. Optional wide bay enclosed refractor in polycarbonate also available.
CRI	80 CRI
OPERATING TEMPERATURE	40°C to +50°C (-40°F to +122°F).
INPUT VOLTAGE	120-277V 50/60Hz driver; 347-480V 50/60Hz driver (Dimming standard for both voltages).
POWER CONSUMPTION	84.6W - 234.3W depending on model (See photometric data chart for details)
CONTROL	0-10V dimming standard.
INGRESS PROTECTION	IP65 Driver and IP66 Optical Enclosure, suitable for damp locations.
CERTIFICATION	
CONSTRUCTION	Housing is die-cast aluminum which provides excellent thermal management for rapid heat dissipation. Black powder coat finish standard. White finish option available. Clear tempered glass flat lens.
SENSORS	PIR for use with or without reflector or refractor accessories, motion (OOS) and photo/motion (FSP) sensor options available, factory installed.
MOUNTING OPTIONS	Housing with 1/2" NPT thread for mounting to existing pendant stem is standard, additional mounting options include factory installed hook, trunnion, 3/4" NPT adapter, or adjustable cable hanger plate for use with hanger cable (ordered separately)

MOUNTING OPTIONS

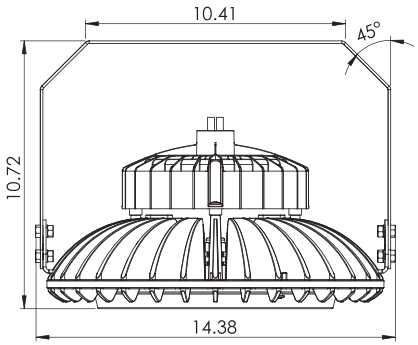
Trunnion Mount

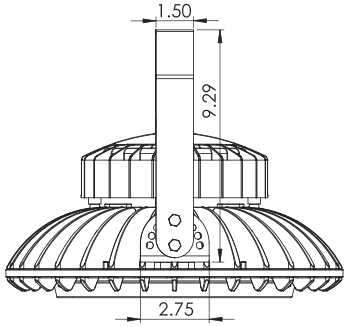
Hook Mount **(HK)**

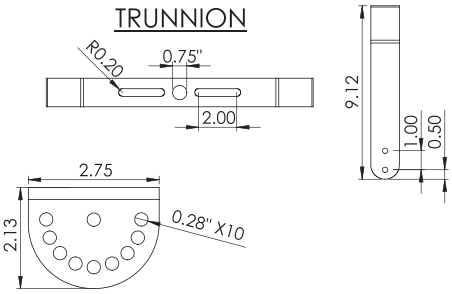
3 ¼" H x 1 ½" W x 2" D

3/4" NPT Pendant Adapter **(NPT)**

1 ½" H x 1 ½" D







ACCESSORIES (Ships separately as components for field assembly)

NHBR1-PCR
Prismatic Clear Ribbed Refractor (Acrylic)

NHBR1-PFR
Prismatic Frosted Refractor (Acrylic)

NHBR1-SAR
Satin Aluminum Reflector (Anodized)

NHBR1-FL
Flat Clear Lens
For use with: RHB-PCR, RHB-PFR or RHB-SAR

NHBR1-CL
Conical Clear Ribbed Lens
For use with: RHB-PCR, RHB-PFR or RHB-SAR

RHB-WPC
Widebay Polycarbonate Clear Lens

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].

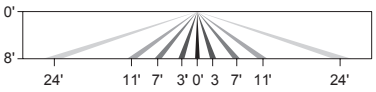
RAMP UP TIME - period for light output to change from LOW to HIGH [DEFAULT = DISABLED, instantly to HIGH].

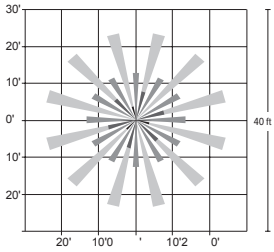
FADE DOWN TIME - period for light output to change from HIGH to LOW [DEFAULT = DISABLED, instantly to LOW].

LOCK SETTINGS - time delayed IR communication lock initiated from a FSIR-100 handheld remote to prevent unauthorized changes to the parameters. [DEFAULT = DISABLED].

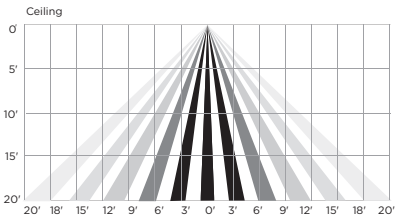
SENSOR COVERAGE OPTIONS

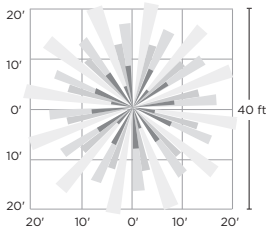
OPTION OC2
8' Mounting Height
40' Diameter



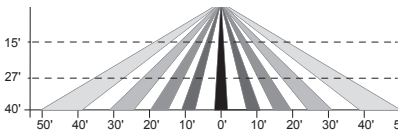


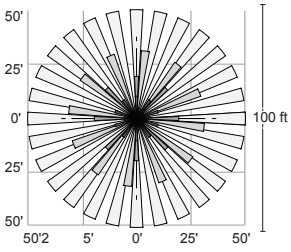
OPTION OC3
20' Mounting Height
40' Diameter





OPTION OC4
40' Mounting Height
100' Diameter





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

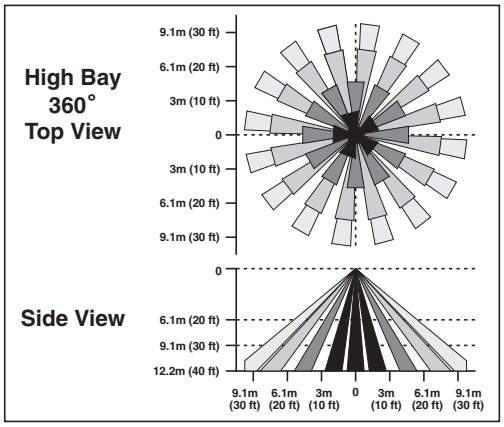
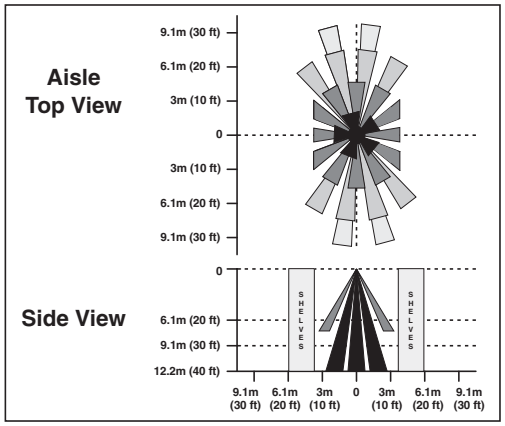
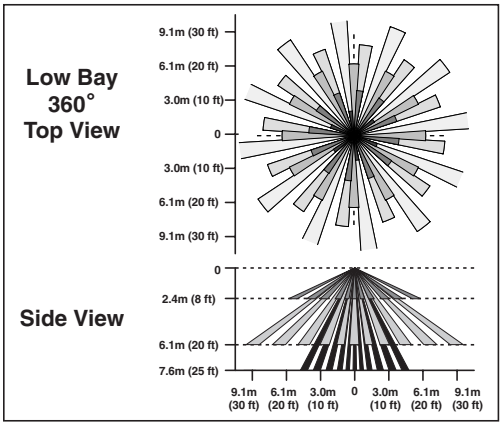
connections: "instant ON" closing relay fires lamps in under 5 seconds

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 field-of-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