

DESCRIPTION

The NHBR2 is a premium round LED high bay luminaire designed for exceptional versatility and performance across commercial, industrial, and retail environments such as warehouses, manufacturing facilities, sporting venues, and big-box retailers. Lumen- and Kelvin-selectable in the field, it delivers 16,000 to 35,000 nominal lumens with two selectable CCT options - 4000K and 5000K. The fixture is screw-in sensor-ready for easy installation and features a durable die-cast aluminum housing with a clear polycarbonate lens for long-lasting performance. DLC Premium approved, IP65 rated, backed by a 5-year warranty, and includes standard 0–10V dimming drivers, universal 120–277V input (with optional 347–480V), and optional mounting kits and reflectors for maximum application flexibility.



Date: _____ Type: _____ Catalog Number: _____

Project Name: _____

ORDERING INFORMATION

LUMINAIRE

| MODEL | OUTPUT | CCT | CONTROL | INPUT VOLTAGE | FINISH |
|-------------------------|---|-------------------------------------|----------------------|-----------------|-------------|
| NHBR2 Round High Bay | SO Standard Output (up to 22,000 Lumens) | SK 4000K/5000K CCT Selectable | DIM 0-10v Dimming | UNV 120-277v | BL Black |
| | HO High Output (up to 35,000 Lumens) | | | | WH White |

Custom solutions are available; consult factory for availability. Factory assistance is available via phone at (864) 487-3535 ext. 258 or via email at DesignServices@EXP-Brands.com.
See Pages 4 for ordering information of available accessories.



SELECTABLE
POWER & CCT



| | | | |
|----------|--------------------|--|---------------|
| PHYSICAL | HOUSING | Die-Cast Aluminum with Black or White Premium Powder Coat Finish | |
| | LENS | Polycarbonate | |
| | MOUNTING | Suspension from included eyebolt is standard. Yoke Mounting Bracket with 180° adjustability for ceiling mounting is available separately. Luminaire may be mounted to electrical conduit via 1/2" NPS attached to optional Yoke Mounting Bracket, or via Pendant Snap Hook (for use with 3/4" NPS). See Page 4 for more information. | |
| | OVERALL DIMENSIONS | Standard Output | High Output |
| | | ø10.6" x 5.5" H | ø13" x 5.6" H |
| | WEIGHT | 3.7 Pounds | 6 Pounds |
| | SWITCH DEFAULTS | Default Switch Positions are Highest Power Level @ 4000K | |
| | SENSOR RECEPTACLE | Screw-In Sensor Ready; Sensors and Remote Control Sold Separately | |

| | | |
|------------|--------------------------------------|--|
| ELECTRICAL | POWER CONSUMPTION (field selectable) | From 95 to 236 Watts |
| | VOLTAGE | Universal 120-277 Voltage (50-60Hz). 347-480V may be achieved with optional step-down transformer. |
| | DRIVER | 0-10VDC Dimming Driver |
| | AMBIENT OPERATING TEMPERATURE | -40° F to 122° F |
| | TOTAL HARMONIC DISTORTION | < 20% |
| | POWER FACTOR | > 0.90 |
| | SURGE SUPPRESSION | 6kV Input Transient Surge Protection |
| | CORD LENGTHS | Incoming AC Power and Dimming Cord Length = 6' |
| | CONNECTORS | Watertight, Compression-Type Electrical Connectors |
| | | |

| | | | | | | | |
|-------------|------------------------|---|--|--|--|--|--|
| PHOTOMETRIC | CCT | Field-Selectable 4000K or 5000K | | | | | |
| | COLOR RENDERING INDEX | > 80 | | | | | |
| | DELIVERED LUMEN OUTPUT | From 15,522 to 35,716 Delivered Lumens | | | | | |
| | EFFICACY | From 145 to 168 Lumens per Watt | | | | | |
| | CHROMATICITY | LED color maintenance < 0.003 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation. | | | | | |
| | LUMEN MAINTENANCE* | L70 > 146,000 Hours L90 > 44,000 Hours | | | | | |

| LIGHT DISTRIBUTIONS | OUTPUT | MEASUREMENTS | LOW LUMENS | | MID LUMENS | | HIGH LUMENS | |
|---------------------|-----------------|--------------|------------|--------|------------|--------|-------------|--------|
| | | | 4000K | 5000K | 4000K | 5000K | 4000K | 5000K |
| | Standard Output | LUMENS | 15,891 | 15,522 | 18,790 | 18,218 | 22,935 | 21,802 |
| | | WATTS | 95 | 97 | 115 | 118 | 147 | 150 |
| | | EFFICACY | 168 | 161 | 163 | 155 | 156 | 145 |
| | High Output | LUMENS | 24,368 | 23,920 | 30,801 | 29,953 | 35,716 | 34,621 |
| | | WATTS | 146 | 148 | 192 | 196 | 229 | 236 |
| | | EFFICACY | 167 | 161 | 161 | 153 | 156 | 147 |

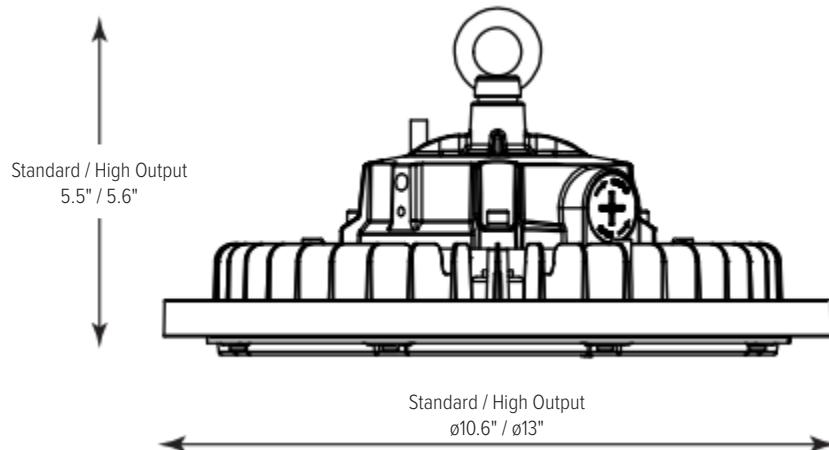
Values reflect delivered lumens at full output.

| | | | | |
|----------------|--------------------|------------------------------------|--|--|
| CERTIFICATIONS | SAFETY | cULus Listed for Wet Locations | | |
| | DLC | DLC Premium Listed | | |
| | INGRESS PROTECTION | IP65 | | |
| | IMPACT RESISTANCE | IK09 | | |
| | CODE COMPLIANCE | Complies with FCC Part 15, Class A | | |
| | WARRANTY | Five Year Limited Warranty | | |

*LED life may vary under actual field conditions due to external factors. Lifetime estimates are generated from actual testing in a controlled environment. Values are conservatively derived from those numbers.

DIMENSIONS

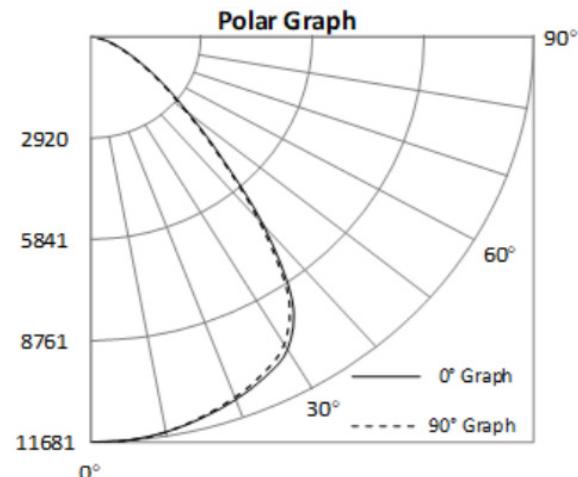
Dimensions are shown in inches.



PHOTOMETRICS

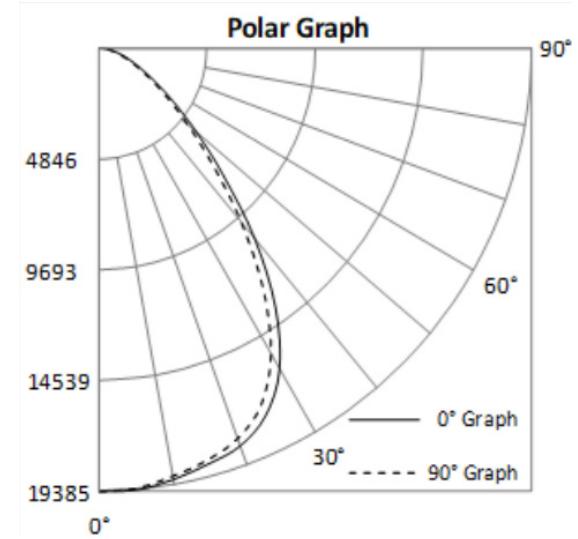
| Standard Output Luminaire Data (High Power @ 5000K) | |
|--|-------|
| Total Lumens | 21803 |
| Input Wattage | 150 |
| Effiacy (lm/W) | 145 |
| Spacing Criterion (0-180°) | 1.3 |
| Spacing Criterion (90-270°) | 1.28 |

| Standard Output Zonal Lumen Summary | | |
|--|--------|-------|
| Zone | Lumens | %Fixt |
| 0-20° | 4293 | 19.7% |
| 0-30° | 9222 | 42.3% |
| 0-40° | 14678 | 67.3% |
| 20-50° | 14029 | 64.3% |
| 40-70° | 6597 | 30.3% |
| 0-60° | 20287 | 93% |
| 0-80° | 21704 | 99.5% |
| 0-90° | 21803 | 100% |
| 90-180° | 0 | 0.0% |
| 0-180° | 21803 | 100% |



| High Output Luminaire Data (High Power @ 5000K) | |
|--|-------|
| Total Lumens | 34628 |
| Input Wattage | 236 |
| Effiacy (lm/W) | 147 |
| Spacing Criterion (0-180°) | 1.24 |
| Spacing Criterion (90-270°) | 1.2 |

| High Output Zonal Lumen Summary | | |
|------------------------------------|--------|-------|
| Zone | Lumens | %Fixt |
| 0-20° | 7096 | 20.5% |
| 0-30° | 14949 | 43.2% |
| 0-40° | 22917 | 66.2% |
| 20-50° | 21399 | 61.8% |
| 40-70° | 10642 | 30.7% |
| 0-60° | 31779 | 91.8% |
| 0-80° | 34413 | 99.4% |
| 0-90° | 34628 | 100% |
| 90-180° | 0 | 0.0% |
| 0-180° | 34628 | 100% |



ACCESSORIES

NOTE: When ordering a cord or plug, add the part number suffix to the end of the luminaire catalog number.

ACCESSORIES

| MODEL | DESCRIPTION |
|---------------------|---|
| HD07VR-PH-1 | Passive infrared sensor - maximum mounting height = 39 FT |
| HD07VR-MH-B-1 | Microwave step-dimming sensor - maximum mounting height = 49 FT |
| HD09VR-PH5-1 | Passive infrared sensor - maximum mounting height = 39 FT - 5-Dial Setting Capability |
| HD09VR-MH5-1 | Microwave step-dimming sensor - maximum mounting height = 49 FT - 5-Dial Setting Capability |
| HD05R | Remote control for HD07VR-PH-1 & HD07VR-MH-B-1 (required to change factory settings) |
| HBSD-325W-480-277 | 347-480v Step-Down Transformer |
| NHBR2-ALREF-S | 90° Aluminum Reflector - For Standard Output Models |
| NHBR2-PCREF-S | 90° Polycarbonate Reflector - For Standard Output Models |
| NHBR2-ALREF-L | 90° Aluminum Reflector - For High Output Models |
| NHBR2-PCREF-L | 90° Polycarbonate Reflector - For High Output Models |
| NHBR2-YOKE-WHT | White Yoke Mount |
| NHBR2-YOKE-BLK | Black Yoke Mount |
| LEDHBRSN-PSH-PRM-V2 | Pendant Snap Hook |
| BLEM-INDRV-HBR30W | 30-Watt Emergency Driver |
| BLEM-INDRV-HBR40W | 40-Watt Emergency Driver |
| BLEM-INDRV-HBR60W | 60-Watt Emergency Driver |

CORDS & PLUGS

| PART NUMBER SUFFIX | DESCRIPTION |
|--------------------|---------------------------------|
| P515 | NEMA Plug - 120V 15A |
| P615 | NEMA Plug - 240V 15A |
| P715 | NEMA Plug - 277V 15A |
| P520 | NEMA Plug - 120V 20A |
| P620 | NEMA Plug - 240V 20A |
| P515L | NEMA Twist-Lock Plug - 120V 15A |
| P615L | NEMA Twist-Lock Plug - 240V 15A |
| P715L | NEMA Twist-Lock Plug - 277V 15A |
| P520L | NEMA Twist-Lock Plug - 120V 20A |
| P620L | NEMA Twist-Lock Plug - 240V 20A |
| P720L | NEMA Twist-Lock Plug - 277V 20A |