

NHBR2

CCT and Power Adjustable Round High Bay

NORDEON

LIGHTING SOLUTIONS

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.



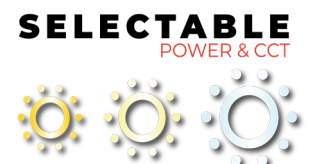
Date: _____ Type: _____ Catalog Number: _____

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.



EXPERIENCE
BRANDS

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In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials. Technical specification sheets that appear online are the most recent ones available. Consult the factory to verify current status of BAA/TAA/BABAA compliance.

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Rev 20260114

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 ½" NPS attached to optional Yoke Mounting Bracket, or via Pendant Snap Hook (for use with ¾" 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	
	Standard Output	CCT	4000K	5000K	4000K	5000K	4000K	5000K
		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.

NHBR2

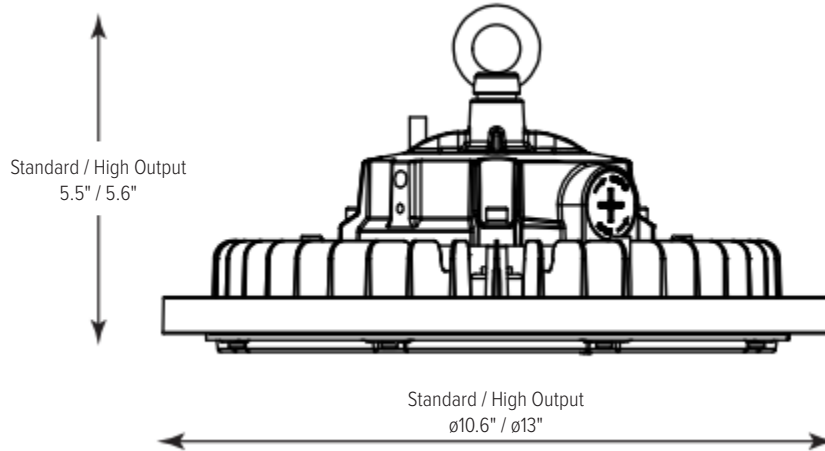
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DIMENSIONS

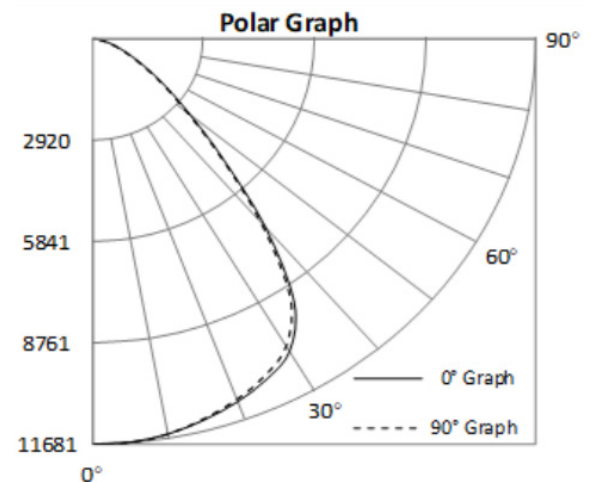
Dimensions are shown in inches.



PHOTOMETRICS

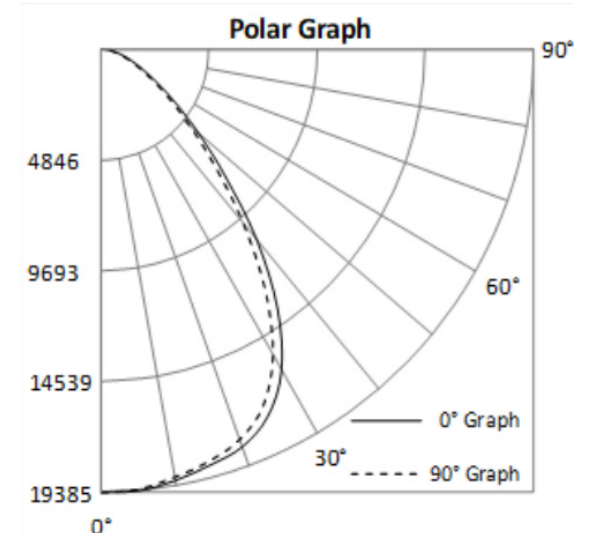
Standard Output Luminaire Data (High Power @ 5000K)	
Total Lumens	21803
Input Wattage	150
Efficacy (lm/W)	145
Spacing Criterion (0-180°)	1.3
Spacing Criterion (90-270°)	1.28

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
Efficacy (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
LEDHBRN-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