

HBC3

LED Low Bay / High Bay

Product Description

The HBC3 LED Low Bay/High Bay is a high-performance fixture perfect for replacing 250W and 400W metal halide luminaires at an affordable price. This high bay fixture supplies an output greater than 150 lumens per watt and excellent color rendering at >80CRI. The die cast aluminum heatsink design allows for a lightweight unit. Improved reflector installation with only three keyholes. With consistent even light distribution this fixture is perfect for environments such as grocery stores, gymnasiums, hangars, industrial, retail, and warehouse spaces.

Construction

- Vented aluminum heatsink provides superior cooling while reducing fixture weight
- IP65 fully sealed construction and suitable for wet locations

Optical System

- High efficiency LEDs with tempered glass protective cover
- CCT of 4000K or 5000K with >80 CRI
- 120° No Reflector for overall general illumination
- 70° Polycarbonate Reflector
- 60° & 90° Aluminum Reflector
- 60° & 90° Flat Optic
- Polycarbonate glare shields to minimize glare

Electrical

- Integrated high-efficiency slimline driver
- RoHS Compliant
- 120-277VAC Standard
- Power factor: >0.9
- THD < 20%
- 4kV Surge Suppression
- Dimming: 0-10V standard
- 6ft power cord and 3ft control (dimming) cord standard
- TM-21 Reported L70(10k) hours >72,000

Finish

- Black powdercoated heatsink for optimal heat management

Mounting and Installation

- Included hook with locking bolt for simple, secure mounting
- Operating temperature range: -40° to 122°F (-40° to 50°C)
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

Warranty

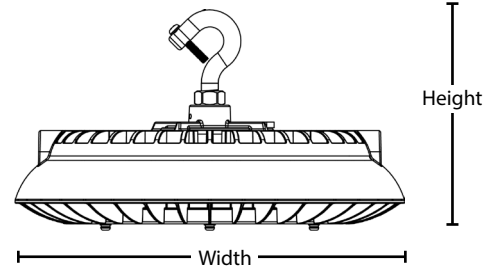
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panel

Project

Catalog

Type

Date



	HBC3100SUNV	HBC3150SUNV	HBC3200SUNV
Width:	8.9 in (226mm)	10.8 in (275mm)	
Height:	6.0 in (152mm)		



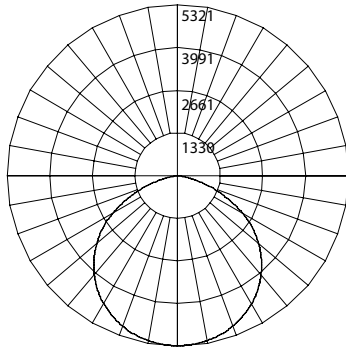
* 70CRI will not meet DLC standards

NICOR® LED

Photometric Data

HBC3 100W 5000K 80CRI

Input Voltage (VAC)	120-277
System Level Power (W)	99.5
Delivered Lumens (Lm)	14852
System Efficacy (Lm/W)	151.0
Correlated Color Temp (K)	5016
Color Rendering Index (CRI)	83
Beam Angle	114.3°
Spacing Criteria	1.30



Intensity Summary (Candle Power)

Angle	Mean CP
0	5321
5	5299
15	5161
25	4863
35	4387
45	3741
55	2856
65	1701
75	614
85	33
90	2

Data Multipliers

4000K CCT	0.950
90° Reflector	0.970
70° Reflector	0.891
60° Reflector	0.941

Cone of Light Tabulation

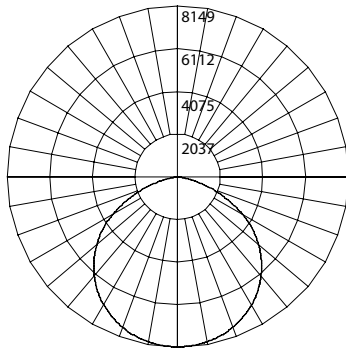
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	23.7	19.4
17	18.4	21.9
20	13.3	25.8
23	10.1	29.8
25	8.5	32.2
28	6.8	36.0
30	5.9	38.8

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	4216	28.4%
0-40	6964	46.9%
0-60	12383	83.4%
0-90	14770	99.4%
90-180	82	0.6%
0-180	14852	100.0%

HBC3 150W 5000K 80CRI

Input Voltage (VAC)	120-277
System Level Power (W)	155.4
Delivered Lumens (Lm)	23094
System Efficacy (Lm/W)	149.5
Correlated Color Temp (K)	5022
Color Rendering Index (CRI)	83
Beam Angle	114.0°
Spacing Criteria	1.30



Intensity Summary (Candle Power)

Angle	Mean CP
0	8149
5	8115
15	7903
25	7447
35	6718
45	5729
55	4374
65	2606
75	940
85	50
90	4

Data Multipliers

4000K CCT	0.950
90° Reflector	0.970
70° Reflector	0.891
60° Reflector	0.941

Cone of Light Tabulation

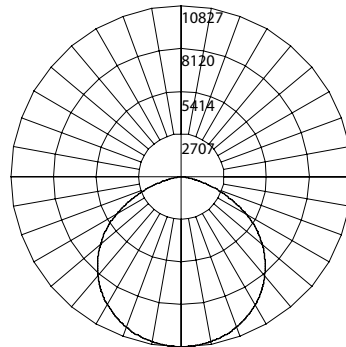
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	36.2	19.4
17	28.2	21.9
20	20.4	25.8
23	15.4	29.8
25	13.1	32.2
28	10.4	36.0
30	9.1	38.8

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	6520	28.2%
0-40	10781	46.7%
0-60	19192	83.1%
0-90	22910	99.2%
90-180	184	0.8%
0-180	23094	100.0%

HBC3 200W 5000K 80CRI

Input Voltage (VAC)	120-277
System Level Power (W)	201.5
Delivered Lumens (Lm)	30302
System Efficacy (Lm/W)	150
Correlated Color Temp (K)	5014
Color Rendering Index (CRI)	83
Beam Angle	113.4°
Spacing Criteria	1.30



Intensity Summary (Candle Power)

Angle	Mean CP
0	10793
5	10749
15	10468
25	9864
35	8898
45	7589
55	5793
65	3451
75	1245
85	67
90	5

Data Multipliers

4000K CCT	0.950
90° Reflector	0.970
70° Reflector	0.891
60° Reflector	0.941

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	48.0	19.4
17	37.4	21.9
20	27.0	25.8
23	20.4	29.8
25	17.3	32.2
28	13.8	36.0
30	12.0	38.8

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	8536	28.2%
0-40	14112	46.6%
0-60	25128	82.9%
0-90	30059	99.2%
90-180	242	0.8%
0-180	30302	100.0%

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

Performance Data			
Model Number	Lumens	Watts	Lumens/Watt
HBC3100SUNV40K8	14192	101	140.5
HBC3100SUNV50K8	14852	99	151.0
HBC3150SUNV40K8	21734	152	143.0
HBC3150SUNV50K8	23094	155	150.0
HBC3200SUNV40K8	28787	201	143.2
HBC3200SUNV50K8	30302	201	150.8

- Recommended Dimmers***
- Lutron NTSTV
 - Lutron DVSTV
 - Cooper SF10P
 - Legrand RH4FBL3PW

**Not a complete list. Check compatibility before installation.*

Ordering Information					Example: HBC3200SUNV50K8
Series	Version	Wattage	Voltage	CCT's	CRI
HBC	3	100S	UNV (120-277)	40K (4000 K)	8 (80+)
		150S		50K (5000 K)	
		200S			

*Specifications and dimensions subject to change without notice.
Consult factory for availability

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

