HBC

LED Low-Bay/High-Bay

Project

Catalog

Type

Date

Product Description

Utilizing the same great look you know, the HBC LED Low Bay/High Bay is an affordable one for one replacement for 250W and 400W metal halide luminaries. The forged aluminum heatsink design adds even greater value to this fixture making it one of the lightest and more efficient fixtures in the market. The use of high efficient LED technology provides consistent, even color and light distribution making it a perfect choice in environments where safety, task and productivity are needed. Typical applications include grocery stores, gymnasiums, hangers, industrial, and retail and warehouse spaces.

Construction
- Forged aluminum heatsink provides superior cooling while reducing fixture weight

Optical System
- High efficiency LEDs with tempered glass protective cover
- 120° No Reflector for overall general illumination
- 70° Polycarbonate Reflector
- 90° Aluminum Reflector
- 60° Aluminum Reflector
- Polycarbonate glare shield to minimize glare

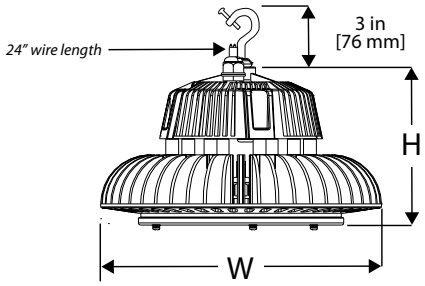
Electrical
- Industrial-grade high efficiency driver
- 120-277VAC Standard
- High power factor: >0.9
- Operating temperature range: - 40° to 122°F (-40° to 50°C)
- Dimming: 0-10V standard

Finish
- Black anodized heatsink for optimal heat management

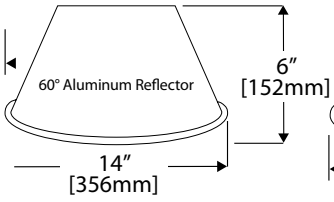
Installation
- Preinstalled hook with locking bolt allows for rapid installation
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

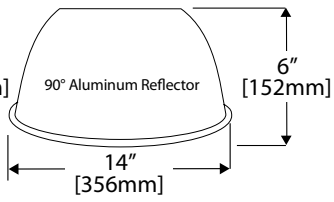
Warranty
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge).

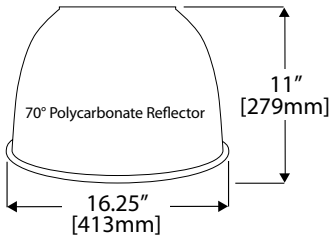
Shown with 70° Polycarbonate Reflector



	HBC-100W 50K	HBC-150W 50K	HBC-240W 50K
Width:	10.25 in. (260mm)	10.25 in. (260mm)	11.5 in. (292mm)
Height:	6 in. (152mm)	6 in. (152mm)	7.5 in. (191mm)



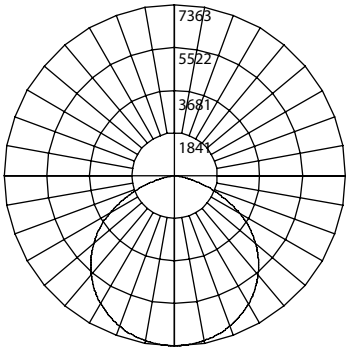




Photometric Data

HBC 150W 5000K Basic

Input Voltage (VAC)	120-277
System Level Power (W)	155.0
Delivered Lumens (Lm)	20441
System Efficacy (Lm/W)	131.9
Correlated Color Temp (K)	5096
Color Rendering Index (CRI)	82
Beam Angle	113.4°
Spacing Criteria	1.30
Spacing Criteria (90°)	1.22



Intensity Summary (Candle Power)

Angle	Mean CP
0	7362
5	7329
15	7124
25	6689
35	6039
45	5113
55	3943
65	2402
75	874
85	47
90	3

Data Multiplier

HBC-10-100W-UNV-40K	0.635
HBC-10-100W-UNV-50K	0.667
HBC-10-150W-UNV-40K	0.952
HBC-10-240W-UNV-50K	1.520

Cone of Light Tabulation

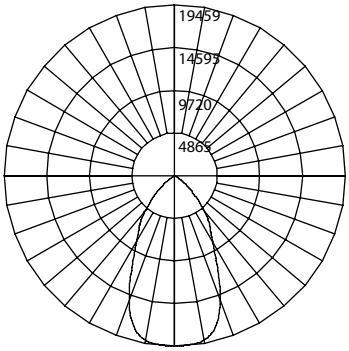
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	32.7	19.3
17	25.5	22.0
20	18.4	25.9
23	13.9	29.8
25	11.8	32.3
28	9.4	36.3
30	8.2	38.7

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	5793	28.3%
0-40	9568	46.8%
0-60	17017	83.2%
0-90	20441	100.0%
90-180	0	0.0%
0-180	20441	100.0%

HBC 150W 5000K AL60

Input Voltage (VAC)	120-277
System Level Power (W)	155.0
Delivered Lumens (Lm)	19625
System Efficacy (Lm/W)	126.6
Correlated Color Temp (K)	5096
Color Rendering Index (CRI)	82
Beam Angle	56°
Spacing Criteria	0.88
Spacing Criteria (90°)	1.22



Intensity Summary (Candle Power)

Angle	Mean CP
0	19460
5	19412
15	17942
25	11545
35	7014
45	3313
55	416
65	22
75	9
85	2
90	0

Data Multiplier

HBC-10-100W-UNV-40K	0.635
HBC-10-100W-UNV-50K	0.667
HBC-10-150W-UNV-40K	0.948
HBC-10-240W-UNV-50K	1.456

Cone of Light Tabulation

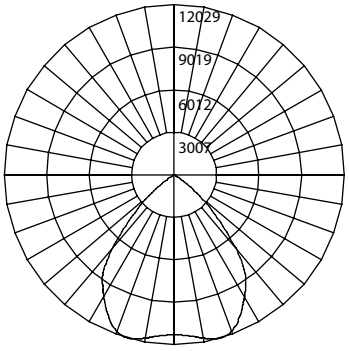
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	86.5	13.1
17	67.3	14.8
20	48.7	17.4
23	36.8	20.0
25	31.1	21.8
28	24.8	24.4
30	21.6	26.2

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	12113	61.7%
0-40	16446	83.8%
0-60	19589	99.8%
0-90	19625	100.0%
90-180	0	0.0%
0-180	19625	100.0%

HBC 150W 5000K AL90

Input Voltage (VAC)	120-277
System Level Power (W)	155.0
Delivered Lumens (Lm)	19171
System Efficacy (Lm/W)	123.7
Correlated Color Temp (K)	5096
Color Rendering Index (CRI)	82
Beam Angle	78.4°
Spacing Criteria	1.28
Spacing Criteria (90°)	1.22



Intensity Summary (Candle Power)

Angle	Mean CP
0	11344
5	11456
15	12012
25	11040
35	8843
45	4322
55	612
65	56
75	17
85	4
90	0

Data Multiplier

HBC-10-100W-UNV-40K	0.635
HBC-10-100W-UNV-50K	0.685
HBC-10-150W-UNV-40K	0.952
HBC-10-240W-UNV-50K	1.457

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	50.4	19.1
17	39.3	21.6
20	28.4	25.4
23	21.5	29.2
25	18.2	31.7
28	14.5	35.5
30	12.6	38.0

Zonal Lumen Summary

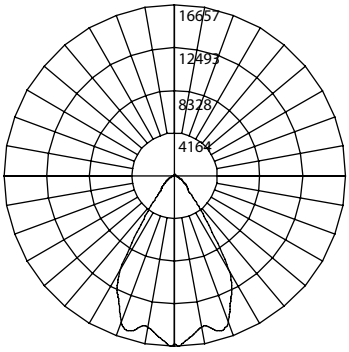
Zone	Lumens	% of Luminaire
0-30	9550	49.8%
0-40	14948	78.0%
0-60	19085	99.6%
0-90	19171	100.0%
90-180	0	0.0%
0-180	19171	100.0%

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

Photometric Data

HBC 150W 5000K PC70

Input Voltage (VAC)	120-277
System Level Power (W)	155.0
Delivered Lumens (Lm)	19431
System Efficacy (Lm/W)	125.4
Correlated Color Temp (K)	5096
Color Rendering Index (CRI)	82
Beam Angle	63.8°
Spacing Criteria	1.06
Spacing Criteria (90°)	1.22



Intensity Summary (Candle Power)

Angle	Mean CP
0	16427
5	15953
15	15693
25	13070
35	5513
45	1825
55	1054
65	503
75	239
85	211
90	184

Data Multiplier

HBC-10-100W-UNV-40K	0.633
HBC-10-100W-UNV-50K	0.664
HBC-10-150W-UNV-40K	0.949
HBC-10-240W-UNV-50K	1.515

Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
15	73.0	15.9
17	56.8	18.0
20	41.0	21.3
23	31.1	24.4
25	26.3	26.4
28	21.1	29.5
30	18.4	31.6

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	11865	61.1%
0-40	15534	79.9%
0-60	17946	92.4%
0-90	18965	97.6%
90-180	466	2.4%
0-180	19431	100.0%

Performance Data

Model Number	Lumens	Watts	Lumens/Watt
HBC-10-100W-UNV-40K	13360	102.7	130.1
HBC-10-100W-UNV-50K	13627	102.7	132.7
HBC-10-150W-UNV-40K	20040	154.2	130.0
HBC-10-150W-UNV-50K	20441	154.2	132.6
HBC-10-240W-UNV-50K	32194	240.6	133.8
HBC-10-100W-UNV-40K-AL60	12530	102.7	122.0
HBC-10-100W-UNV-50K-AL60	12908	102.7	125.7
HBC-10-150W-UNV-40K-AL60	19240	154.2	124.8
HBC-10-150W-UNV-50K-AL60	19625	154.2	127.3
HBC-10-240W-UNV-50K-AL60	30608	240.6	127.2
HBC-10-100W-UNV-40K-AL90	12780	102.7	124.4
HBC-10-100W-UNV-50K-AL90	13040	102.7	127.0
HBC-10-150W-UNV-40K-AL90	18795	154.2	121.9
HBC-10-150W-UNV-50K-AL90	19171	154.2	124.3
HBC-10-240W-UNV-50K-AL90	30194	240.6	125.5
HBC-10-100W-UNV-40K-PC70	12700	102.7	123.7
HBC-10-100W-UNV-50K-PC70	12954	102.7	126.1
HBC-10-150W-UNV-40K-PC70	19050	154.2	123.5
HBC-10-150W-UNV-50K-PC70	19431	154.2	126.0
HBC-10-240W-UNV-50K-PC70	30604	240.6	127.2

Recommended Dimmers*

Lutron NTSTV

Lutron DVSTV

Cooper SF10P

Legrand RH4FBL3PW

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

Ordering Information

Example: HBC-10-100W-UNV-50K

Series	Version	Wattage	Voltage	CCT's	Reflector	Field - Installed Plug Options***
HBC	**10**	☐ **100W**	☐ **UNV (120-277)**	☐ **40K** (4000 K)**	☐ **Blank** (Basic, No Reflector)	☐ **Blank** (No Plug)
		☐ **150W**	☐ **HV (347-480)***	☐ **50K** (5000 K)	☐ **PC70** (70° Polycarbonate Reflector)	☐ **1** (515P) 15 amp 120V Straight Blade Plug
		☐ **240W**			☐ **AL90** (90° Aluminum Reflector)	☐ **2** (L515P) 15 amp 120V Twist Lock Plug
					☐ **AL60** (60° Aluminum Reflector)	☐ **3** (L615P) 15 amp 240V Twist Lock Plug
						☐ **4** (L720P) 20 amp 277V Twist Lock Plug
						☐ **7** (L715P) 15 amp 277V Twist Lock Plug

Specifications and dimensions subject to change without notice.
** Consult factory for availability*
*** Not available for 240W*
**** Will be provided in box*

Accessories

Accessories sold separately

Microwave Motion Sensor Remote	HBC-MWOSR
Handheld Remote Control	MWOS-REMOTE
70° Polycarbonate Reflector	HBC-10-RFL-PC-70
60° Aluminum Reflector	HBC-10-RFL-AL-60
90° Aluminum Reflector	HBC-10-RFL-AL-90
Glare Shield for Polycarbonate Reflector	HBC-10-GS-PC
Glare Shield for Aluminum Reflector	HBC-10-GS-AL
Motion Sensor Bracket	HBC-10-MSBRACKET