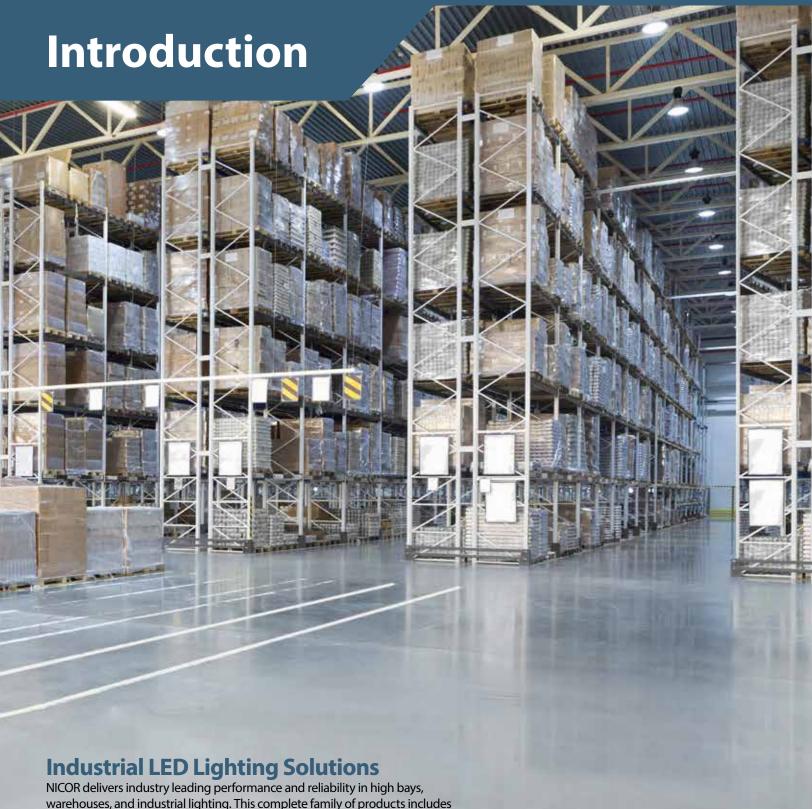


Warehouse Lighting

High/Low Bay & Site Completion Guide





NICOR delivers industry leading performance and reliability in high bays, warehouses, and industrial lighting. This complete family of products includes state of the art high bays that are enhanced by control systems that meet and exceed local and national codes. Industrial and commercial properties include an extensive variety of spaces including warehouses with racking, office space, restrooms, parking lots, and paths of egress. NICOR has the solutions for all your needs.

Total Cost of Ownership

On-Going Benefits

- Increase profits by reducing picking and scanning errors
- Increase productivity with fewer maintenance shutdowns
- Support a safe and productive work environment

Calculating Cost

Total cost of ownership is a financial estimate that helps owners and managers determine the direct and indirect costs of a lighting system. Going beyond energy consumptions and wattage comparisons, calculations should include all the less apparent costs related to the installation and should consider the full cost of an asset over its useful life. This includes ongoing maintenance, affects on cooling systems, sensors and code requirements, and lumen maintenance calculations. When the full cost is examined it makes it easy to see how high-efficient LEDs reduce energy costs and increase the lifetime of the luminaires.

Cost of Lighting

Initial Cost 30%

The Hidden Costs

70%

Cost Breakdown

Purchase Price
Installation

Cooling

LM Losses

Maintenance

Control System

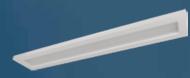
End of Life Replacement

Save 24 Hours a Day

Warehouses and distribution centers are more active than ever. Open during the day and more frequently into the night, so saving energy plays a key role in selecting a lighting package. Combining high efficiency LED luminaires with control systems that include daylight harvesting and fully dimmable solutions provide up to 65% energy savings compared to legacy technology. More light with fewer fixtures; use up to 75% less energy – saving money and the environment.



NICORWarehouse Overview



Architectural Interiors

For a clean, professional office aesthetic our architectural linear fixtures provide the perfect lighting solution.



Troffers

Office lighting is key to productivity. Our troffers provide economical illumination for interior spaces.



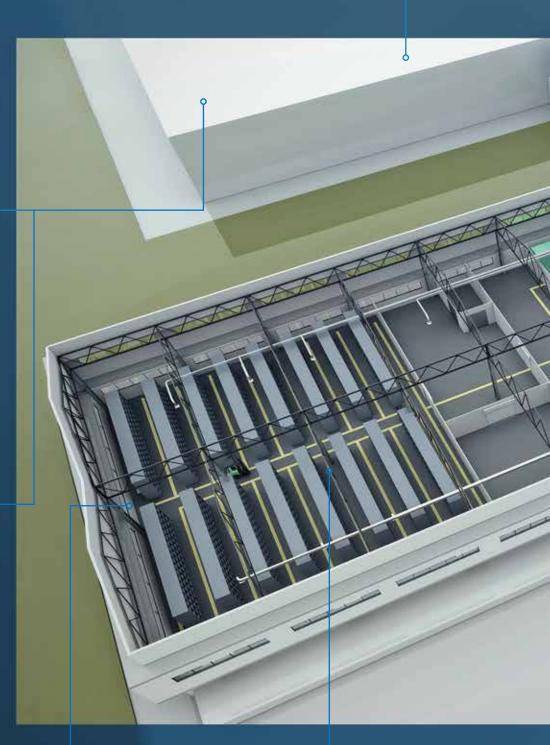
Commercial Downlights

See our full line of downlights to complete any office, warehouse, and even exterior patio locations. The Paragon line offers 1200 to 9000 lumens, for any ceiling height.



Emergency

Meet egress requirements and provide safety for employees with our wide variety of emergency lighting fixtures.



High Bays

High/Low bays are designed for warehouse environments. Utilize the HML for aisle lighting and reduce fixture count.

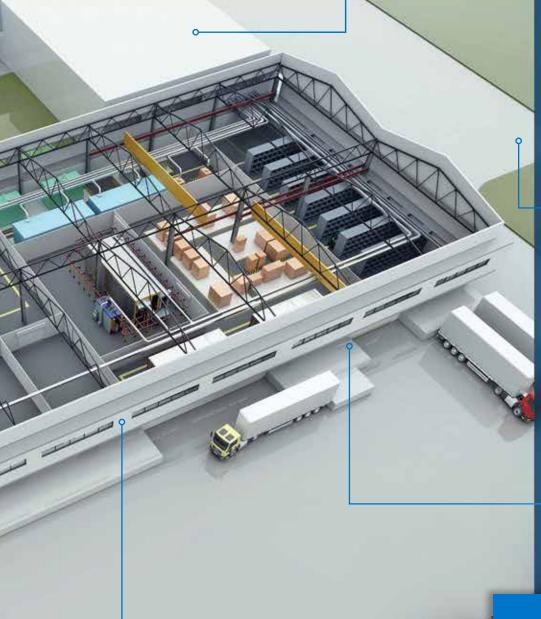


Shop Lighting

Durable general ambient lighting, perfect for work stations and utility spaces.

Enclosed Vaportites

Dust, water, and vapor are no match for the VT3. Light your woodworking area, machine shop, shower room, and more with our vapor tight products.





Parking

Choose our OAL2 Site Lighting family of products for parking lots. We also carry a variety of luminaires for covered parking areas.



Dock Light

Add light right where you need it for loading and unloading shipments.

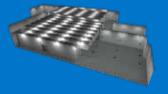


Outdoor

Illuminate walkways with OWF or add lighting to the surrounding landscape with our large selection of outdoor lights.

Warehouse Site Lighting

See how NICOR can assist with completing your warehouse layout. From interiors to exteriors and landscape lighting, we offer and exceed the standards you need. To help finalize the best light and quantities for your project give us a **call at 505-343-5390** and we can run a layout to determine the number of lights you need.



For more information see page 23

Warehouse Starter Kit



Complete Your Project With NICOR

NICOR's wide variety of lighting solutions makes it easy to complete your project from top to bottom. From high-performance industrial high bays to rugged and durable outdoor fixtures, NICOR carries everything you need to outfit your project. When you choose NICOR, you choose a single source to solve all your lighting needs.



Benefits



99% of Orders Ship within 24 Hours



Let us do the heavy lifting. If your project involves a complex floor plan NICOR's engineers can create a detailed model of your space.



Warehouse locations nationwide. Our experienced team of engineers and sales representatives deliver the highest level of customer support.

Customize Your Kit

Exits & Emergency







EXL4

ECL2



Exterior & Landscape











Site/Parking







Interior Office



Interior Shop



Enclosed Vaportites





Adjusts to your life

Make lighting easy with the flip of a switch. Simplify your installations using fixtures that can be adjusted on the fly. Depending on the product, NICOR select fixtures, indicated by an icon, are available with CCT or wattage options.

HML

Cast Aluminum Housing

Allows operation up to 55°C with integrated cooling features

Lens Options

Diffused lens reduces glare. Wide and Aisle option designed to reduce fixture count.

HML LED HIGH-PERFORMANCE HIGH BAY

NICOR introduces the newest high bay product line: the patent pending, ultra-efficient, high-performance HML high bay. With only a 10x14" footprint (on lower wattages), its compact design offers an impressive light output with simple, single-person installation. The DLC 5.1 Premium certified fixture offers a variety of wattage, sensor, and aisle distribution options. It's durable single-piece cast aluminum design is perfect for rugged applications like warehouses, gymnasiums, and other industrial or commercial spaces.

10x14" Footprint

Compact design offers an impressive light output with simple, single-person installation.

Integrated Sensor Socket

Optional socket allows use of low voltage sensors.



Hassle-Free Mounting

Easy mounting with chain and hook or optional surface and pendant mount kits.

Performance Data Standard + Wide

Model #	Lumens	Watts	LPW
HML1100U40A	14200	101	141
HML1100U50A	14284	101	141
HML1130U40A	18138	129	141
HML1130U50A	18228	129	141
HML1150U40A	20574	147	140
HML1150U50A	20675	147	141
HML1210U40A	29258	209	140
HML1210U50A	29412	209	141
HML1300U40A	42055	305	137
HML1300U50A	42266	303	138
HML1450U40A	66516	459	144
HML1450U50A	66850	439	145

Performance Data Aisle

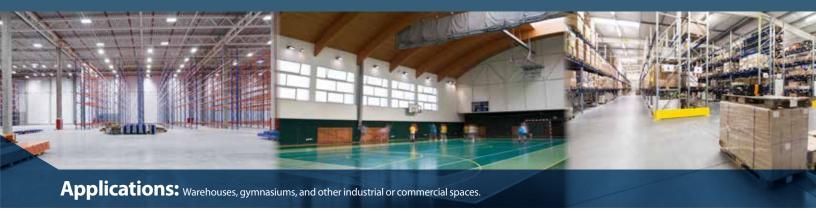
Model #	Lumens	Watts	LPW
HML1150U40C	19134	147	130
HML1150U50C	19228	147	131
HML1210U40C	27204	209	130
HML1210U50C	27338	209	131
HML1300U40C	39251	305	131
HML1300U50C	39307	303	131
HML1450U40C	61860	459	134
HML1450U50C	62171	439	135











Photometric Data

100W 5000K

Input Voltage (VAC)	120-277 277-48	
System Level Power (W)	101	98
Delivered Lumens (Lm)	14284	13858
System Efficacy (Lm/W)	141	141
Correlated Color Temp (K)	5000	
Color Rendering Index (CRI)	85	
Beam Angle (0)	88	3.7
Beam Angle (90)	90).5
Spacing Criteria (0)	1.	28
Spacing Criteria (90)	1.	26

130W 3500K

Input Voltage (VAC)	120-277	277-480
System Level Power (W)	129	125
Delivered Lumens (Lm)	18228	17573
System Efficacy (Lm/W)	141.3	140.6
Correlated Color Temp (K)	35	60
Color Rendering Index (CRI)	8	6
Beam Angle (0)	8	9
Beam Angle (90)	90).6
Spacing Criteria (0)	1.	26
Spacing Criteria (90)	1	26

150W 3500K

Input Voltage (VAC)	120-277	277-480
System Level Power (W)	147	147
Delivered Lumens (Lm)	20675	20664
System Efficacy (Lm/W)	140.6	140.6
Correlated Color Temp (K)	35	32
Color Rendering Index (CRI)	8	6
Beam Angle (0)	88	3.9
Beam Angle (90)	90).6
Spacing Criteria (0)	1.	26
Spacing Criteria (90)	1.	26

210W 5000K

Input Voltage (VAC)	120-277 277-48	
System Level Power (W)	Level Power (W) 209	
Delivered Lumens (Lm)	29412	29396
System Efficacy (Lm/W)	139	139
Correlated Color Temp (K)	5000	
Color Rendering Index (CRI)	86	
Beam Angle (0)	88	3.9
Beam Angle (90)	90).6
Spacing Criteria (0)	1.	28
Spacing Criteria (90)	1.	26

300W 5000K

Input Voltage (VAC)	120-277 277-4		
System Level Power (W)	305		
Delivered Lumens (Lm)	42266	42243	
System Efficacy (Lm/W)	139	139	
Correlated Color Temp (K)	5000		
Color Rendering Index (CRI)	86		
Beam Angle (0)	88	3.9	
Beam Angle (90)	90	0.6	
Spacing Criteria (0)	1.	28	
Spacing Criteria (90)	1	26	

450W 5000K

Input Voltage (VAC) 120-277 27			
System Level Power (W)	459		
Delivered Lumens (Lm)	66850	66783	
System Efficacy (Lm/W)	145	145	
Correlated Color Temp (K)	50	00	
Color Rendering Index (CRI)	8	6	
Beam Angle (0)	88	3.9	
Beam Angle (90)	90).6	
Spacing Criteria (0)	1.3	28	
Spacing Criteria (90)	1.3	26	

Ordering Information Example: HML1100U40.						Example: HML1100U40AS		
Series	Version	Wattage	Input Voltage	ССТ	Distribution	Sensor Socket	Emergency	Wiring Options
HML	1	100 (14000 lm)	U (120-277V)	40 (4000K)	A (90°x90°)	Blank (No)	Blank (No)	Blank (No)
		130 (18000 lm)	H (277-480V) ¹	50 (5000K)	B (110°x110°)	S (Socket)	E08 (8W)	C (Cord-3-wire, 6ft) ³
		150 (20000 lm)			C (45°×110°) ²		E18 (18W)	C4 (Cord-4-wire, 6ft) ^{3,4}
		210 (29000 lm)					E25 (25W)	F (Flex Conduit - 6ft)
		300 (42000 lm)					E40 (40W)	
		450 (66000 lm)						

Specifications and dimensions subject to change without notice. 1) HV available on 150W, 300W, 450W at 5000K only. Consult manufacture for other models. 2) aisle distribution is only available for 150W and up. 3) C3 Cord is 18/3 wire, 6' long, black. Other lengths available upon request. 3) C4 cord is 18/4 wire, 6' long, black, for use with Emergency enabled fixtures. 4) Flexible metal conduit is 6' long, 18/3 wire configuration. Other lengths available upon request



HBC

Flat Optic Lens

Standard 90° optic to reduce glare

Cast Aluminum Housing

Meets NSF rating and allows operation up to 50°C. Vented aluminum heatsink provides superior cooling while reducing fixture weight

Hassle-Free Mounting

Mounting hook with locking bolt included for rapid installation

Driver & LEDs

Providing long-lasting, efficient performance with uniform color and smooth distribution

Reflectors

Shown with a frosted reflector that reduces glare and creates a 90° beam angle.

Beautifully Redesigned with Improved Efficiency

The HBC LED Circular Low Bay/High Bay is a high-performance fixture that produces an output greater than 135 lumens per watt, includes an integrated socket for a field install motion sensor, 90-degree optic, and excellent color rendering at >80CRl. The die cast aluminum heatsink design allows for a lightweight unit and with the multiple mounting options and accessories, the fixture can address a variety of applications. With consistent light distribution, this fixture is perfect for environments such as grocery stores, gymnasiums, big box retail, and warehouse spaces.

Performance Data				
Model #	Lumens	Watts	LPW	
HBC4100U408	14945	102	147	
HBC4100U508	15157	102	149	
HBC4150U408	21549	152	142	
HBC4150U508	21851	132	144	
HBC4200U408	27998	199.9	140	
HBC4200U508	28396	199.9	142	
HBC4240U408	34446	241	143	
HBC4240U508	34935	241	145	
HBC4300U408	40557	297	137	
HBC4300U508	41133	297	139	
HBC4400U408	53747	392	137	
HBC4400U508	54510	392	139	

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













Photometric Data

100W 5000K

Input Voltage (VAC)	120-277
System Level Power (W)	102
Delivered Lumens (Lm)	15157
System Efficacy (Lm/W)	148.6
Correlated Color Temp (K)	5072
Color Rendering Index (CRI)	82
Beam Angle	88.8
Spacing Criteria	1.34

150W 5000K

Input Voltage (VAC)	120-277
System Level Power (W)	151.7
Delivered Lumens (Lm)	21851
System Efficacy (Lm/W)	144
Correlated Color Temp (K)	5078
Color Rendering Index (CRI)	84
Beam Angle	88.3
Spacing Criteria	1.39

200W 5000K

Input Voltage (VAC)	120-277
System Level Power (W)	199.9
Delivered Lumens (Lm)	28396
System Efficacy (Lm/W)	142.1
Correlated Color Temp (K)	4995
Color Rendering Index (CRI)	84
Beam Angle	88.8
Spacing Criteria	1.28

240W 5000K

Input Voltage (VAC)	120-277
System Level Power (W)	241.4
Delivered Lumens (Lm)	34935
System Efficacy (Lm/W)	144.7
Correlated Color Temp (K)	5091
Color Rendering Index (CRI)	84
Beam Angle	87.5
Spacing Criteria	1.28

300W 5000K

Input Voltage (VAC)	120-277
System Level Power (W)	296.7
Delivered Lumens (Lm)	41133
System Efficacy (Lm/W)	138.6
Correlated Color Temp (K)	5026
Color Rendering Index (CRI)	84
Beam Angle	85.3
Spacing Criteria	1.41

400W 5000K

Input Voltage (VAC)	120-27
System Level Power (W)	392.3
Delivered Lumens (Lm)	54510
System Efficacy (Lm/W)	138.9
Correlated Color Temp (K)	5104
Color Rendering Index (CRI)	82
Beam Angle	81.1
Spacing Criteria	1.38

Ordering	Ordering Information Example: HBC4240U408BK						
Series	Version	Wattage	Voltage	CCT's	CRI	Finish	
НВС	4	100 (102W - 15000 lm)	U (120-277VAC)	40 (4000K)	8 (80+)	BK (Black)	
		150 (150W - 21500 lm)	H (347-480VAC) ¹	50 (5000K)		WH (White)	
		200 (200W - 28000 lm)					
		240 (241W - 34500 lm)					
		300 (297W - 40500 lm)					
		400 (392W - 53700 lm)					

Specifications and dimensions subject to change without notice. 1) Consult manufacture for availability

Accessories



Wire Guard



90° Aluminum Reflector



90° Polycarbonate



Glare Shield



Pendant Mount Adapter



EMB400



HBC4REMOTE



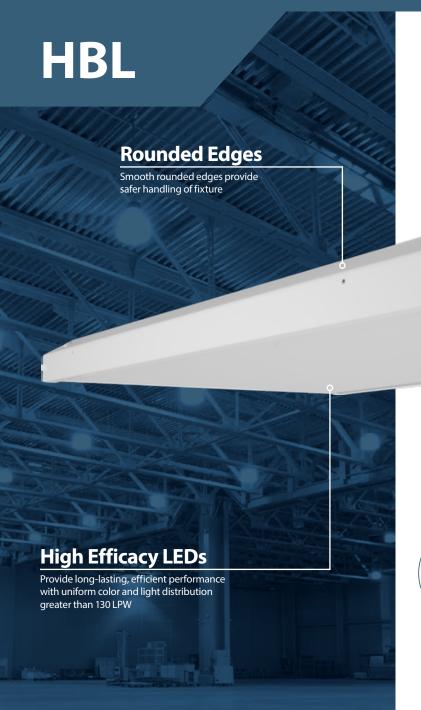
U-Bracket



PIR Sensor



Microwave Motion Sensor



Wireway Compartment

Easy access to wiring makes installation hassle-free

Surge Protection

Built-in 10kA surge protection standard, 20kA for High Voltage

Lens Options

Standard diffused lens to control glare



Hassle-Free Mounting

Easy mounting with chain and hook or optional pendant kit

HBL the NICOR Workhorse

The HBL is the lighting solution for a wide variety of applications and mounting heights. The energy-efficient luminaire offers a long life, even uniformity, and a variety of accessories and options. The economical solution for industrial, commercial, and other high bay applications.

Perfo	rmance	25W Emergency		
Model #	Lumens	Watts	LPW	Lumens
HBL4105UNV40K	14780	106.0	139.4	3486
HBL4105UNV50K	14914		140.7	3517
HBL4155UNV40K	21460	154.9	138.5	3463
HBL4155UNV50K	21546	134.9	139.1	3477
HBL4210UNV40K	27302	205.2	133.1	3326
HBL4210UNV50K	27550	205.2	134.3	3356
HBL4300UNV40K	41178	304.8	135.1	3377
HBL4300UNV50K	41933		137.6	3439











Photometric Data

105W 5000K	
Input Voltage (VAC)	120-277
System Level Power (W)	106.0
Delivered Lumens (Lm)	14914
System Efficacy (Lm/W)	140.7
Correlated Color Temp (K)	5000
Color Rendering Index (CRI)	80
Beam Angle (0)	104.0
Beam Angle (90)	104.9
Spacing Criteria (0)	1.26

Spacing Criteria (90)

155W 5000K Input Voltage (VAC) 120-277 System Level Power (W) 154.9

bystem Level Correl (11)	134.2
Delivered Lumens (Lm)	21546
System Efficacy (Lm/W)	139.1
Correlated Color Temp (K)	5000
Color Rendering Index (CRI)	80
Beam Angle (0)	103.4
Beam Angle (90)	104.5
Spacing Criteria (0)	1.26
Spacing Criteria (90)	1.26

210W 5000K

tage (VAC) 120-277	
evel Power (W) 205.2	
Lumens (Lm) 27550	
fficacy (Lm/W) 134.3	
ColorTemp (K) 5000	
dering Index (CRI) 80	
le (0) 102.4	
gle (90) 102.9	
riteria (0) 1.24	
riteria (90) 1.24	
	24

300W 5000K

120-277
304.8
41933
137.6
5000
80
102.3
102.3
1.26
1.24



1.26





15,000Lm 42,000Lm 27,500Lm

Orderi	Ordering Information					Example: HBL4105UV4KEC	
Series	eries Version Wattage Input Voltage 12V Output CCT's					Emergency	Wiring Option
HBL	4	105 (14700 lm)	U (120-277V)	V (12VDC Output)	4K (4000K)	(None)	(None)
		155 (21500 lm)	H (347-480V)		5K (5000K)	E (EMB250)	C (3-Wire Cord) ¹
		210 (27300 lm)					C4 (4-Wire Cord) ¹
		300 (41000 lm)					F (Flexible Metal Conduit) ²

Specifications and dimensions subject to change without notice. 1. Cord is 18/3 wire, 6' long, black. Other lengths available upon request 2. Flexible metal conduit is 6' long, 18/3 wire configuration. Other lengths available upon request



HBG

Aisle Optics

The rectangular illumination pattern focuses light for aisles perfectly, reducing the overall number of fixtures required.

Wireway Compartment

Easy access cable connected wireway cover makes installation hassle-free.

Surge Protection

Industry leading built-in 10kA surge protection standard.

Lens Options

Diffuse lens option provides smooth, even illumination. The No Lens option offers the highest lumen output.

High Efficacy LEDs

Provides long-lasting, efficient performance; L88 at 60,000 hours, L70>160,000 hours.

180

mm mm

Fewer Fixtures

With up to 180LPW fewer fixtures are needed.

HBG Spec-Grade High Bay

The HBG provides spec-grade optimization with precisionengineered optics, multiple distributions, and a choice of lumen outputs. Up to 180 LPW and aisle distribution to reduce the number of fixtures required; saving labor and cost of luminaires.

Perfo	rmance	70 (CRI		
Model #	Lumens	Watts	LPW	Lumens	LPW
HBG116U40#A	16325		160.7	16771	165.1
HBG116U40#D	15684		154.4	16090	158.4
HBG116U40#N	17378	101.6	171.0	17954	176.7
HBG116U50#A	16371	101.0	161.1	16818	165.5
HBG116U50#D	15794		155.5	16203	159.5
HBG116U50#N	17515		172.4	18095	178.1
HBG123U40#A	23266		160.1	23918	164.6
HBG123U40#D	22499		154.8	23315	160.5
HBG123U40#N	24654	- 145.3 -	169.7	25797	177.5
HBG123U50#A	23326		160.4	24073	165.7
HBG123U50#D	22663		156.0	23485	161.6
HBG123U50#N	24813		170.8	25963	178.7
HBG133U40#A	32854		160.7	33727	165.0
HBG133U40#D	32231		157.7	32731	160.1
HBG133U40#N	35268	- 204.4 -	172.5	35970	176.0
HBG133U50#A	33219		162.5	34102	166.8
HBG133U50#D	32396		158.5	32899	161.0
HBG133U50#N	35446		173.4	36152	176.9







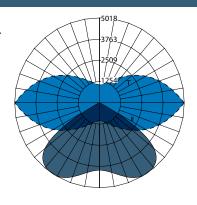




Photometric Data

HBG123U508A

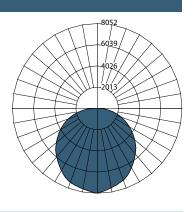
Input Voltage (VAC)	120-277
System Level Power (W)	145
Delivered Lumens (Lm)	23417
System Efficacy (Lm/W)	161.2
Correlated Color Temp (K)	5000
Color Rendering Index (CRI)	80
Total Harmonic Distortion	<20%
Power Factor	>0.9
Beam Angle (II)	116°
Beam Angle (T)	49°
Spacing Criteria (II)	0.62
Spacing Criteria (T)	1.88





HBG123U508D

Input Voltage (VAC)	120-277
System Level Power (W)	145
Delivered Lumens (Lm)	22663
System Efficacy (Lm/W)	156
Correlated Color Temp (K)	5000
Color Rendering Index (CRI)	80
Total Harmonic Distortion	<20%
Power Factor	>0.9
Beam Angle (II)	102°
Beam Angle (T)	117°
Spacing Criteria (II)	1.20
Spacing Criteria (T)	1.26



with diffuser lens









16,000Lm with Wireguard and PIR Sensor

Ordering Information								Example: HBG116U407APE27	
Series	Lumens	Voltage	CCT's	CRI	Lens	Sensor	Emergency	Wiring Options	Field Installed Plug Options ⁷
HBG1	16 (16,000 lm, 102W)	U (120-277V)	40 (4000K)	7 (70+) ¹	A (Aisle)	(No Sensor)	(No EM)	(No Cord)	(No Plug)
	23 (23,000 lm, 145W)	H (347-480V)	50 (5000K)	8 (80+)	D (Diffuse) ²	P (HB011-PDX)	E3 (EMB250) ⁴	C6 (6 ft cord) ⁵	1 (515P) 15A 120V Straight Blade
	33 (33,000 lm, 204W)				N (No Lens)	R (MWOS360R2)		C10 (10 ft cord) ⁵	2 (L515P) 15A 120V Twist Lock
								F6 (6 ft FMC) ⁶	3 (L615P) 15A 250V Twist Lock
									4 (L715P) 15A 277V Twist Lock
									5 (L720P) 20A 277V Twist Lock
									6 (L2320P) 20A 347V Twist Lock
									7 (L820P) 20A 480V Twist Lock

Specifications and dimensions subject to change without notice. 1. Consult factory, May have extended lead times or MOQ. 2. If field modification is required, diffuse lens will snap over 'A' aisle lens or 'N' no lens options. 3. 'N' (No lens) option is not DLC5.1 Qualified.

4. The EMB400 is only available as an accessory providing up to 40W of illumination. The EMB400 hangs above the luminatie and has an integral junction box for wiring. Only available with 120-277V. See EMB400 spec sheet for complete information. 5. Cord is 18/5 wire, 6' or 10' long, black. Other lengths available upon request. 7. Field installed plugs are placed inside the carton for field attachment only. Plug not available with emergency enabled fixtures.

Accessories



Wireguard



Pendant Mount Kit





Microwave Motion Sensor





MWOS-REMOTE

EMB250

Choose your Ideal High/Low Bay

HML

This DLC 5.1 Premium certified LED high-performance high bay offers a variety of wattage, sensor, and aisle distribution options. It's durable single-piece cast aluminum design is perfect for rugged applications like warehouses, gymnasiums, and other industrial or commercial spaces.

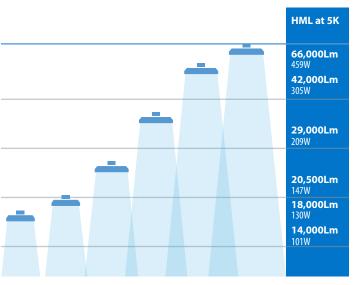
HBC

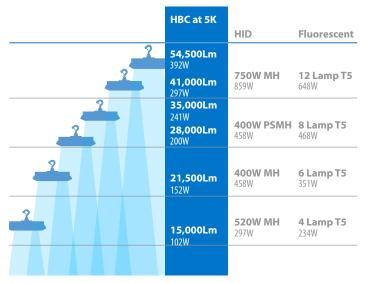
The HBC4 LED Circular Low Bay/High Bay is a high-performance fixture with consistent light distribution, this fixture is perfect for environments such as grocery stores, gymnasiums, big box retail, and warehouse spaces.





	Lumens	14,000	18,000	20,500	30,000	42,000	66,000	14,900	23,100	28,000	30,300	43,000	53,700	
ب	Efficiency	141-147						141-151						
a	CRI		86						83					
등	ССТ		4000K & 5000K						4000K & 5000K					
_	Optics		Aisle, Diffuse, or Wide						90° optic					
SO	Sensor Options	H12VSENSORPIR, H12VSENSORMW				HBC4SENSORPIR, HBC4SENSORMW								
Ţ.	Ambient Range	-4°F to 131° (-20°C to 55°C)				-40°F to 122°F (-40°C to 50°C)								
pa	Emergency		HML1EM Series					EMB400						
Com	Ratings	CERTIFIED DAMPIDCATION SYPAR WARRANTY				CERTIFIED CERTIFIED WET LOCATION IP65:			NSF.					
	DLC	5.1 Premium					5.1 Premium							





HBL

The perfect mid-range option offering an economical choice packaged with high performance. Designed with energy efficiency in mind it meets DLC premium standards while providing excellent color rendering, and even uniformity. Excellent for retrofits when replacing one-for-one older technology luminaires.

HBG

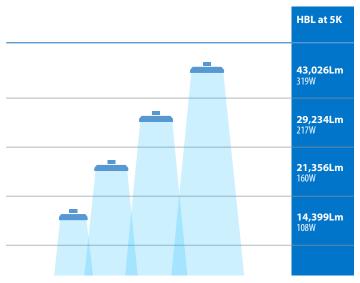
The HBG provides spec grade optimization paired with maximum efficiency. An excellent choice for new construction installations. Utilize the aisle optic in racking areas for optimal performance in warehouses. Its precision designed optics and variety of distributions and lumen outputs make it easy to fit in any application.





14.400	21.400	20,200	42.000				
14,400	21,400	29,200	43,000				
	133-135						
	8	4					
	4000K & 5000K						
	Diffuse						
	H12VSENSORPIR, H12VSENSORMW						
-40°F to 113°F (-40°C to 45°C)							
EMB250							
CERTIFIED CLISTED CAREED STEAS WARRANTY							
	5.1 Premium						

18,100	26,000	36,200						
	155-180							
	70 or 80							
	4000K & 5000K							
P	Aisle, Diffuse, or No Lens							
HB011-PDX, MWOS360R2								
-4°F to 122°F (-20°C to 50°C)								
EMB250								
CERTIFIED CLISTED CLASS CONTRACTOR SYEAR WARRANTY								
5.0 Premium								





Lighting Controls

Lighting controls can be overwhelming and expensive, but NICOR Network Lighting Controls (NLC) bring a range of affordable and flexible, wireless controls to a single room or an entire building. Simply choose your favorite NICOR controls compatible luminaire and controls package.



3 Levels of Lighting Control







Why choose NICOR NLC?

Simple

Easy installation – Many NICOR luminaires are controls ready out of the box

Easy on the budget – value added and scalable solutions Easy startup using the NLC App (iOS & Android)

Versatile

Lighting control solutions from stand-alone to full network capabilities

Scale from room control to whole building Wide selection of control ready luminaires

Future Ready

Expandable and reconfigurable Version and firmware updates will be backwards compatible

NICOR NLC Features:

- DLC NLC5 Listed
- Meets or exceeds energy codes for lighting controls
- Flexible grouping/zoning
- Occupancy/vacancy control
- Scheduling
- Daylight responsive control
- Task tunning/high-end trim
- Full dimming
- Energy monitoring
- Networked Bluetooth Low-Energy Mesh (BLE)
- Building management system integration
- Meets DLC NLC5 Encrypted Security
- Wireless battery wall stations

Emergency Backups

Power failures happen, and you need to be prepared. Our line of emergency drivers provides constant power with a consistent lumen output for 90 minutes. Not sure which driver is right for your project? Reach out to our application engineers to help determine the best solution for your emergency lighting needs.

HML1EM Emergency Battery

- HML1EM08WRVWH 8W Battery Pack (120-347V)
- HML1EM18WRVWH 18W Battery Pack (120-347V)
- **HML1EM25WRVWH** 25W Battery Pack (120-347V)
- HML1EM40WRVWH 40W Battery Pack (120-347V)



EMB400

40W max output on any fixture up to 300W. Easily test your emergency lighting monthly and yearly to meet NFPA 101® without the need of a ladder, using the optional remote control for an unbeatable convenience!



EMB250 Outputs 25W (max)



EMB80

Outputs 8.5W (constant)





California's Appliance Efficiency Regulations require all state-regulated small battery charger systems to meet the energy efficiency requirements of Title 20 and be marked with a "BC" inside a circle. All NICOR battery packs meet or exceed the requirements, ensuring the best possible energy efficiency and performance.

Codes, Compliance, & Controls

Modular Power Supply

NICOR's modular power supply system for lighting control and power distribution provides advantages for contractors and facility managers. The flexible system not only reduces installation time but saves time for maintenance and future renovations for any space. The plug-n-play system quickly snaps together and offers a selection of drop boxes, fixture drops and cables. Contact NICOR today for more information.



Easily Connect

The modular system makes it each to connect fixtures to one another and to the power supply.



ASHRAE 90.1 and IECC Codes

In the United States, energy codes are typically based on either ASHRAE 90.1 and the Illuminating Engineering Society (IES) or The International Energy Conservation Code (IECC). These are typically minimum requirements for energy-efficient design of most buildings. Warehouses were added to these requirements in 2015. The goal of reduced energy consumption of 3.5-quadrillion BTU per year and reduced CO2 emissions of 3% by 2030. The code states that at least 50% of all fixtures must be automatically shut-off when unoccupied.

What's Required?

ASHRAE/IES 90.1 2016 requires that warehouse storage lighting be automatically reduced when it is not in use. Specifically, lighting power must be reduced by at least 50% within 20 minutes of vacancy. IECC 2018 requires that occupancy sensors be used within warehouses to conserve energy in open areas and aisles. If the warehouse has windowed areas or skylights the controls must also include daylighting requirements.

NSF Splash Zone

NSF Zone 2, or Splash Zone, rating evaluates lighting for areas where direct contact with food products during normal operations would not be expected. However, equipment in this area may be situated in such a way that during processing or cleaning (or both), liquids may splash, spill or otherwise soil the surfaces of the fixture. Areas include wet or damp process areas; high pressure purging and/or decontamination used in the process; and areas using hose washdown.

TITLE 24

NICOR luminaires meet and exceed Title 24, California's non-residential lighting control requirements, when used with additional controls. The controls include occupancy sensing, daylighting, luminaire dimming, and lighting power density.

The Solution

Optimized to meet energy codes for occupancy sensing and daylight harvesting, NICOR has several sensor controls to meet your needs and save energy.

The NICOR passive infrared dimming sensor is easy to set with a remote control for your convenience.



Wireless Options

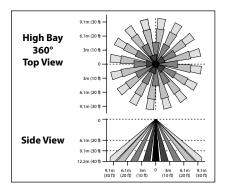
NICOR's Bluetooth Low Energy (BLE) wireless node is available on a variety of luminaires. The technology provides a mesh network where the intelligence of NICOR NETWORK LIGHTING CONTROLS (NLC) is replicated in each node. From small to large networks this option is controlled by a simple app. Contact factory for further information and check compatibility with your desired fixture.

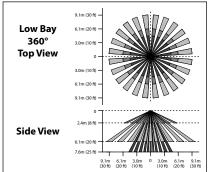
Microwave Motion Sensor

See the individual spec sheet for further information

- Field installed 12VDC sensor
- · Microwave motion detector with built in daylight sensor
- Remote control programmable
- Highly configurable:
 - · Detection area
 - Hold time
 - Dimming level
 - · Stand-by period
 - · Stand-by dimming
 - · Daylight harvesting threshold
- Max mounting height: 50ft (15m)







Passive Infrared (PIR) Motion Sensor

See the individual spec sheet for further information

- Field installed 12VDC sensor
- Microwave motion detector with built in daylight sensor
- · Remote control programmable
- Highly configurable:
 - · Detection area
 - Hold time
 - Dimming level
 - Stand-by period
 - · Stand-by dimming
 - · Daylight harvesting threshold
- Max mounting height: 40ft (12m)







Take Control of Your Lighting with NICOR's All-In-One System.

NICOR's IMS Lighting Control System introduces simplicity in installation with an easy-to-use UI (User Interface) that anyone can use. The DALI enabled system provides control on all levels from individual fixture control to multisite empowerment with our Master Control Unit, or MCU for short. Developed with energy management in mind this system is perfect for industrial facilities, data centers, and large commercial buildings. With millions of square feet being installed, you can breath easy knowing the NICOR IMS is a tried and tested solution for your lighting needs.

- IMS/MCU networking capability
- · Full IMS networking structure
- Low voltage IMS enabled luminaires
- · Interactive floor plans
- Automated Demand Response (ADR) capable
- · Remote access controllability
- Energy consumption and usage
- · Fixture health reporting

Site Design Guides

Helpful Hints

- A high bay luminaire is typically mounted at 20' or higher, low bay is 20' or lower
- Most warehouse layouts average about 35 footcandles at the work plane level
- Arrange your layout to overlap the end of an aisle to avoid shadows
- Most new construction buildings have 25'–40' ceilings
- Recommended reflectance levels are 80/50/20
- When warehouses include racking system, it is best to specify the HML or HBG high bay with the aisle optics option for these applications.



Warehouse Footcandle Minimums

Task	Horizontal Target (E _h)	Vertical Target (E _v)	Uniformity Target		
Loading	10-20	3-6	3:1		
Picking/ Classifying	10-20	5-10	3:1		
Receiving/ Staging	30-60	10-20	2:1		
Packing/ Labeling	30-60	15-30	3:1		
Inactive Storage	5-10	2-4	5:1		
Inspection	100-200	100-200	3:1		
Active Storage (large labels/items)	10-20	5-10	5:1		
Active Storage (small labels/items)	30-60	15-30	3:1		

Above are the lighting recommendations from the Illuminating Engineering Society. These are minimum levels for each type of task completed in manufacturing facilities. Good lighting is more important than ever.

The effects of great lighting increase workplace productivity

Eye strain, headaches, reduced productivity and poor concentration are contributed from poor lighting conditions, which can decrease accuracy. Additionally the proper color temperature and CRI can increase productivity. An increase as little as 1% in productivity beats any kind of energy savings from antiquated lighting.

1 Improve Productivity



Application Engineering

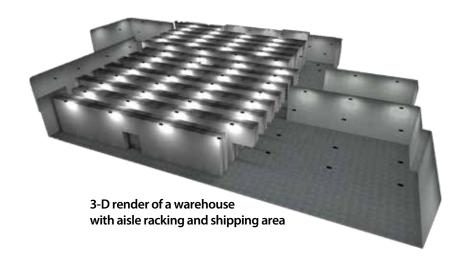
Complex Floor Plan?

If your project involves a complex floor plan or requires a more detailed layout analysis, our team of application engineers can create a detailed 3-D model of your space.

The Making of a Layout

Our application engineers will help you satisfy your customer's requirements; from specific footcandle levels, working space requirements and more. Our customized report provides an in-depth look at how NICOR's lighting solutions are the perfect fit for any project.

- Exporting RCP as CAD files for 3-D modeling
- · Revealing hard to detect effects of lighting
- Showing uniformity ratios & illuminance levels in specific areas
- Turnaround in 1-2 days



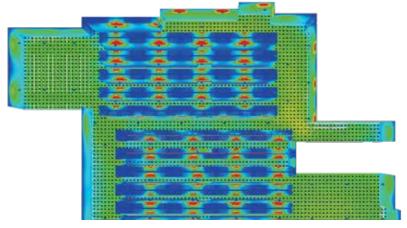


Email or Call Today

layouts@nicorlighting.com 505-343-5390

Simple Layout?

Visit our website: https://nicorlighting.com/lighting-layouts/



Heat Map



Warehouse Locations

Albuquerque, NM Atlanta, GA Buford, GA Detroit, MI Folcroft, PA Houston, TX Lombard, IL Syracuse, NY Van Nuys, CA T 800.821.6283

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