

The Nelson Series

BLHN - High Value High Bay

Project

Date

Part

Type



About The Nelson Series

This superior-grade LED high bay is designed for both surface and suspended mounting. It is ideal for indoor use, where energy-efficiency, performance and ease of maintenance is essential. With its rugged design and superior light paths the BLHN is an ideal fixture for high bay applications.

Specifications

Supported Voltage	120-277V, 347V, 120-347V, 480V
Available Sizes	2', 4'
Lifetime	L70 of 132,000+ hours, L90 of 42,000+ hours
Operating Temperature	-20°C/+25°C (-40°/+40°C upgrade)
Lumens	2' 10L (10000lm) to 4' 64L (64000lm)
CCT	2700K, 3000K, 3500K, 4000K, 5000K, 6500K
CRI	80+ standard, 90+ and 95+ available
Dimming	1-10V Standard
Mounting	Holes provided for V-hangers, S-hook chain-mounting, or aircraft cables; Optional pendant mount and surface mount brackets

Approvals

- ETL Listed
- DLC Listed
- Dry and Damp Environment Rated
- Designed and Manufactured in Canada

Warranty

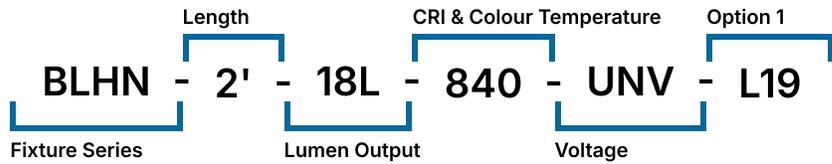
- 5 Year Comprehensive, 10 Year LED

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Ordering Information

Fill in the fields below with your product selections. If you need help with this section, [contact your local sales professional.](#)



1	2	3	4	5				
Series	Length & Lumen Output		CRI	CCT	Voltage			
BLHN	2'-14L	14,000lm	4'-32L	20,000lm	8 80	27 2700K	UNV	120-277V
	2'-16L	16,000lm	4'-36L	36,000lm	9 90+	30 3000K	347	347V
	2'-18L	18,000lm	4'-40L	40,000lm	1 95+	35 3500K	UN3	120-347V
	2'-20L	20,000lm	4'-44L	44,000lm		40 4000K	480	480V
	2'-24L	24,000lm	4'-48L	48,000lm		50 5000K		
						65 6500K		

Options

Lenses

BLANK	Frosted Acrylic
L0	No Lens

Cords

W3xx	White 16/3 (Specify Length)
W4xx	Black 16/3 (Specify Length)
W59xx	White 18/5 (Specify Length)
W***	Other Options Available*

Key	Cord Length	Key	Cord Length
6	6FT	15	15FT
10	10FT	20	20FT

Ex. W406 would be 16/3 Black, 6FT

Dimming

B11	0-10V Dimming Leads
B12	Line Voltage Dimming
B27	Dim-to-off Driver

Wire Guard

G1	Heavy Duty White
G5	Heavy Duty Black

Controls

WC10*	Encelium Wireless Controls
WC18*	NX Wireless Controls
WC19*	Avi-on Wireless Controls
WC22*	JDRF Wireless Controls
WC31*	Keilton Wireless Controls

Motion Sensors

W26	Photocell Motion Sensor
W57	Dimming Motion Sensor (dims to 50% when unoccupied)
W53*	On/Off
W8*	High/Low
WX16	Microwave Dimmable Sensor
WC31D	Keilton Wireless Controls
W**	Other Options Available*

Temperature Rating

BLANK	Standard
T0	-40C Cold Rated Components

Electrical

B24	UL924 20W Battery Back-up
F7	20kV Surge Suppressor
F8	UL924 Emergency Relay

Packaging

BLANK	Individually Boxed on Pallets
P0	Bulk Packaging

Mounting

M1	V-Hangers
M2xx	V-Hanger with Aircraft Loop Cables
M3xx	Y-Toggle Aircraft Cables
M24	Single Pendant Mount(3/4 Hub)
M25	Surface Mount
M**	Other Options Available*

Key	Aircraft Length	Key	Aircraft Length
5	5FT	15	15FT
10	10FT	20	20FT

Ex. M305 would be Y-Toggle, 5FT

Warranty

CL7	10-Year Comprehensive Warranty Upgrade
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Documentation and Resources

All files and resources are available on our website for download. Files and resources are also embedded as links in this document, listed below. Additional files may be available upon request.

Please contact your local sales agent [here](#) or contact sales@bjtake.com for more information.

[BLHN Installation Instructions](#)

Certifications and Listings

Certifications that apply to this fixture and its possible configurations are listed here. More information available upon request.

Icon	Description
	ETL Listed
	DLC Listed
	Wireless Controls Available
	90 and 95+ CRI Options Available
	120-347V(UN3) Available
	-40C Option Available

Usage Applications

This fixture can be used in a variety of applications, and is ideal for the following:

Usage Application
Cold Storage & Freezers
Distribution Facilities
Grocery Stores
Gymnasiums & Arenas
Logistics & Warehouses
Manufacturing Facilities
Professional Sports Facilities
Retail Stores
Schools
Storage Facilities

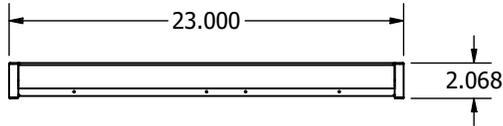
Warranty Statement

BJ Take products are tested and/or inspected prior to being packaged for shipment and are guaranteed from the day the product is shipped for a period of ten-year LED chip warranty and a five-year comprehensive component warranty. This can be upgraded to a ten-year comprehensive warranty on request.

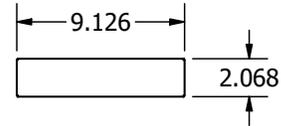
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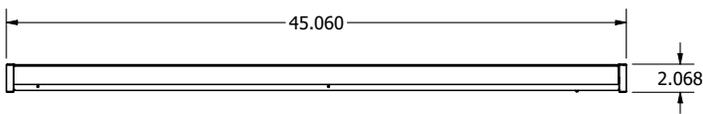
BLHN 2' Side



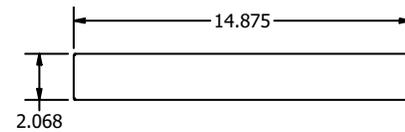
BLHN 2 Row End



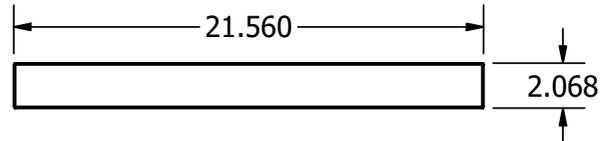
BLHN 4' Side



BLHN 4 Row End



BLHN 6 Row End



BLHN 2' Wattage

Length	Rows	Lumen Package	Lumen Output	Fixture Wattage	Lumens per Watt
2'	2 Rows	10L	9312	71.0	131.2
2'	2 Rows	12L	11184	82.9	134.9
2'	4 Rows	14L	13144	94.9	138.5
2'	4 Rows	16L	15191	106.8	142.2
2'	4 Rows	18L	17658	125.0	141.3
2'	4 Rows	20L	19129	135.5	141.1
2'	4 Rows	22L	20597	146.1	141.0
2'	4 Rows	24L	22062	156.6	140.9
2'	6 Rows	32L	32000	.	.

BLHN 4' Wattage

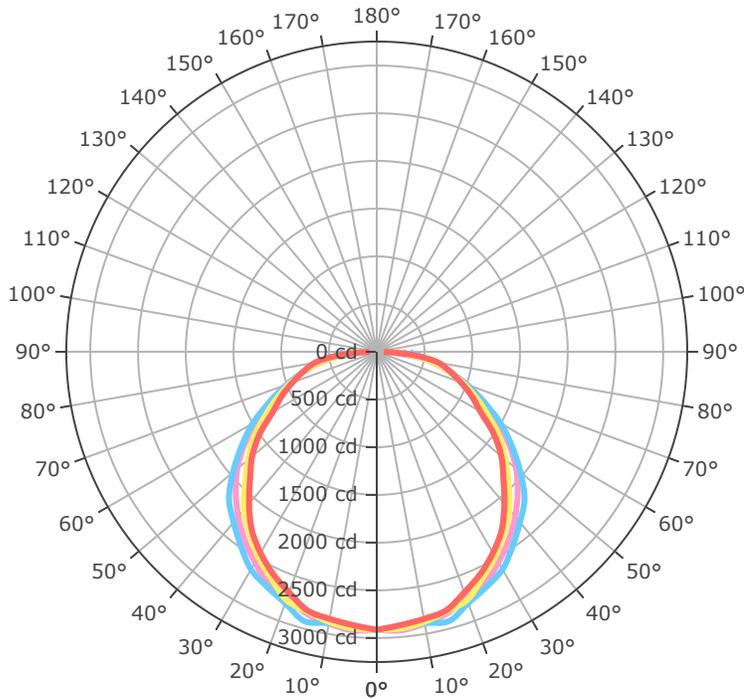
Length	Rows	Lumen Package	Lumen Output	Fixture Wattage	Lumens per Watt
4'	2 Rows	20L	18666	141.3	132.1
4'	2 Rows	24L	22418	165.1	135.8
4'	4 Rows	28L	26346	188.8	139.5
4'	4 Rows	32L	30448	212.6	143.2
4'	4 Rows	36L	34787	252.9	137.5
4'	4 Rows	40L	37683	274.2	137.4
4'	4 Rows	44L	40576	295.6	137.3
4'	4 Rows	48L	43462	316.9	137.2
4'	6 Rows	64L	64000	.	.

- * Drawings not to scale
- * Standard tolerances apply
- * Specifications may change without notice

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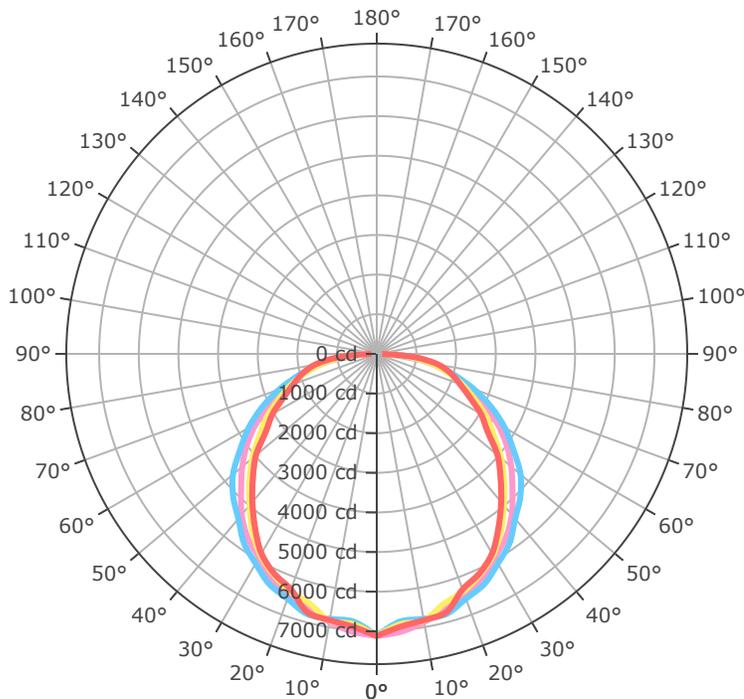
BLHN-2FT-10L-840-L19



- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	81.0 fc	17.7 ft
8.0 ft	45.5 fc	23.5 ft
10.0 ft	29.1 fc	29.4 ft
12.0 ft	20.2 fc	35.3 ft
14.0 ft	14.9 fc	41.2 ft
16.0 ft	11.4 fc	47.1 ft
24.0 ft	5.1 fc	70.6 ft
32.0 ft	2.8 fc	94.2 ft
40.0 ft	1.8 fc	117.7 ft
48.0 ft	1.3 fc	141.2 ft
56.0 ft	0.9 fc	164.8 ft
64.0 ft	0.7 fc	188.3 ft

BLHN-2FT-24L-840-L19



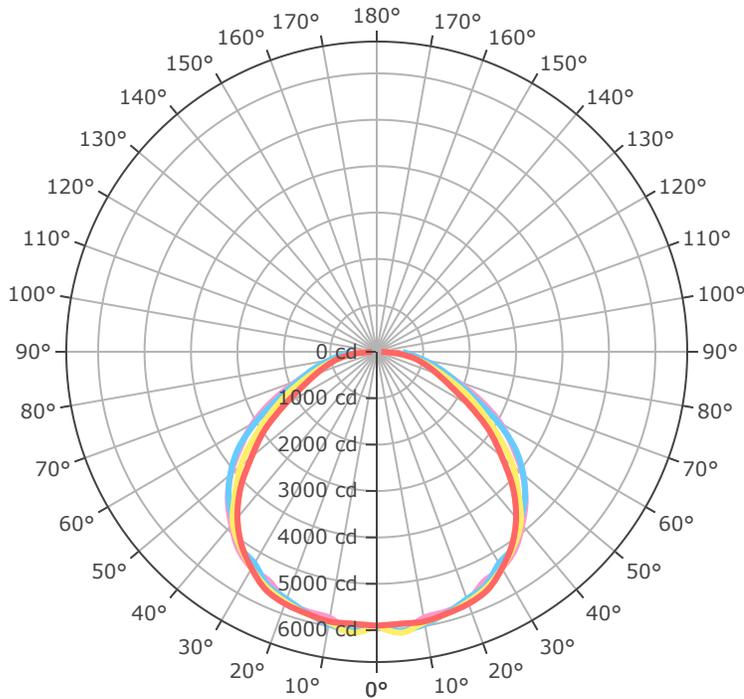
- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	197.7 fc	16.3 ft
8.0 ft	111.2 fc	21.8 ft
10.0 ft	71.2 fc	27.2 ft
12.0 ft	49.4 fc	32.7 ft
14.0 ft	36.3 fc	38.1 ft
16.0 ft	27.8 fc	43.6 ft
24.0 ft	12.4 fc	65.4 ft
32.0 ft	7.0 fc	87.2 ft
40.0 ft	4.4 fc	109.0 ft
48.0 ft	3.1 fc	130.8 ft
56.0 ft	2.3 fc	152.6 ft
64.0 ft	1.7 fc	174.3 ft

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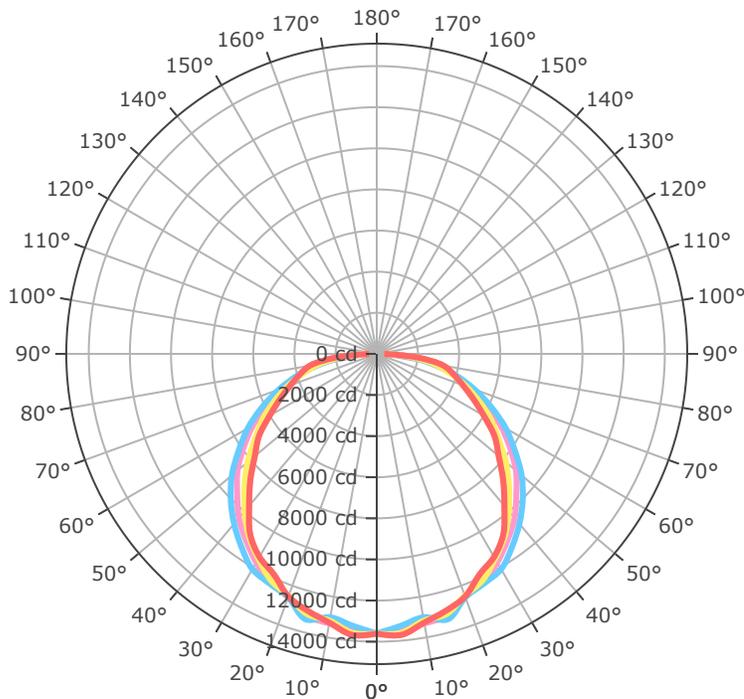
BLHN-4FT-20L-840-L19



- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	164.0 fc	17.2 ft
8.0 ft	92.3 fc	22.9 ft
10.0 ft	59.1 fc	28.6 ft
12.0 ft	41.0 fc	34.3 ft
14.0 ft	30.1 fc	40.0 ft
16.0 ft	23.1 fc	45.8 ft
24.0 ft	10.3 fc	68.6 ft
32.0 ft	5.8 fc	91.5 ft
40.0 ft	3.7 fc	114.4 ft
48.0 ft	2.6 fc	137.3 ft
56.0 ft	1.9 fc	160.1 ft
64.0 ft	1.4 fc	183.0 ft

BLHN-4FT-48L-840-L19



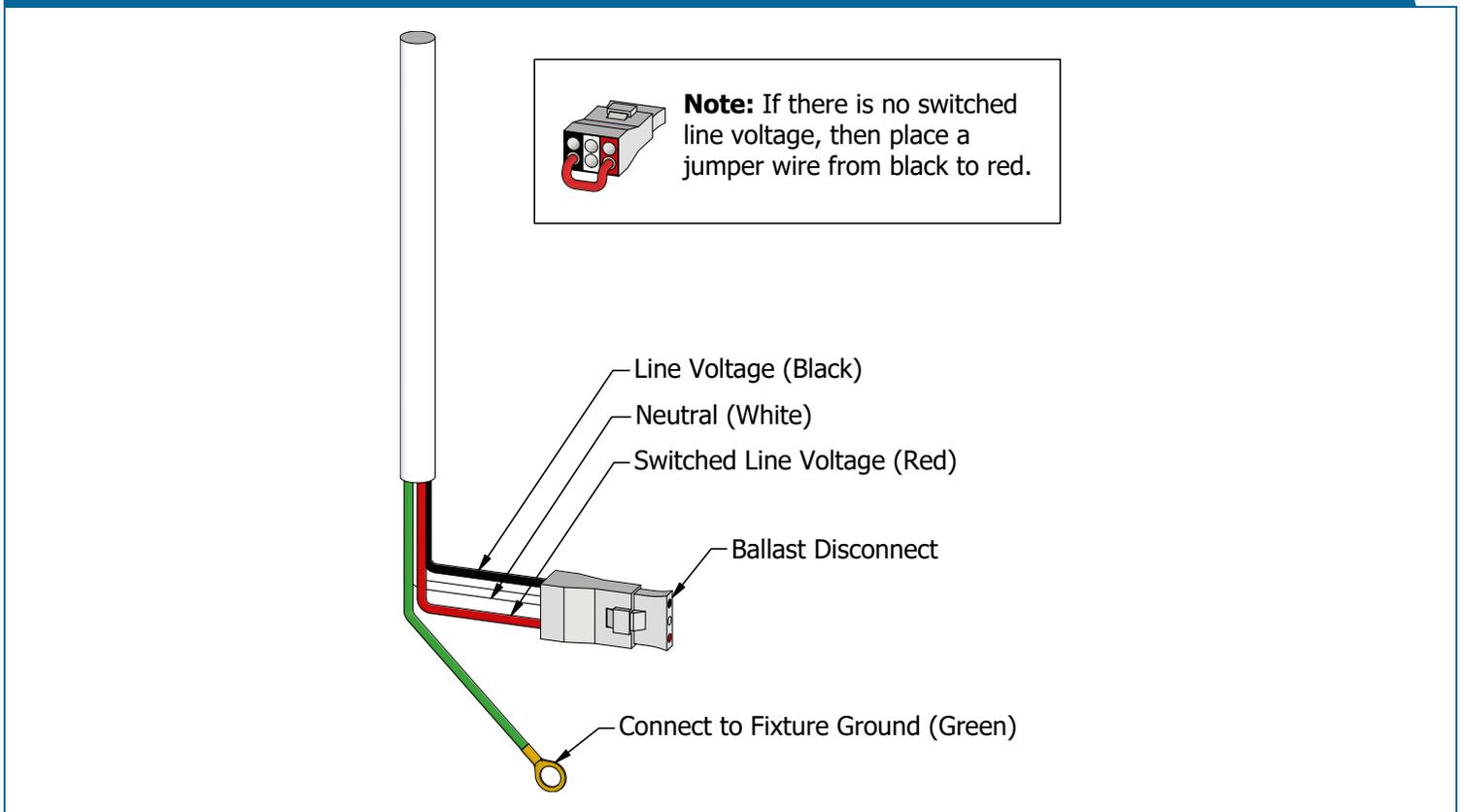
- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	378.0 fc	17.8 ft
8.0 ft	212.6 fc	23.7 ft
10.0 ft	136.1 fc	29.6 ft
12.0 ft	94.5 fc	35.6 ft
14.0 ft	69.4 fc	41.5 ft
16.0 ft	53.2 fc	47.4 ft
24.0 ft	23.6 fc	71.1 ft
32.0 ft	13.3 fc	94.8 ft
40.0 ft	8.5 fc	118.5 ft
48.0 ft	5.9 fc	142.2 ft
56.0 ft	4.3 fc	165.9 ft
64.0 ft	3.3 fc	189.7 ft

Emergency Battery Plan - 10W

Emergency Lighting	Solution System Components	System Operation
Option Code 'B17' - UL 924 listed components that are factory installed in the luminaire	UL 924 listed 10-watt battery integral to the luminaire	Loss of normal power is detected by the B17 emergency light solution and the power supply is switched automatically to the 10-watt integral battery pack which powers the emergency LED lighting driver.
	UL 924 listed LED emergency lighting driver integral to the luminaire	The battery pack and emergency LED driver are UL 924 certified to provide a minimum of 90-minutes of emergency lighting.
	Wiring options for both switched and unswitched emergency lighting	

Emergency Lighting Wiring



Important Information

More information on emergency lighting options and configurations available on request.

Gallery Information

Below you will find images of relevant products and configurations for the BLHN.



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High Bay Lighting by **B**BJTAKE
LIGHTING

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Below you will find images of relevant products and configurations for the BLHN.

