

The Nicolet Series

BLVN - Vapour Proof

Project

Date

Part

Type



About The Nicolet Series

The BLVN is a series of LED linear vapour proof fixtures designed for surface and suspended mounting. It is well suited for indoor or outdoor use where there is a high probability of moisture and exposure to dust. Its unique, IP67 certified body makes it ideal in environments where vapour proof efficiency and performance are a factor. The fixture is rated for standard operation at temperatures as low as -30°C. For environments requiring even more extreme conditions, an optional upgrade rated for -40°C is available.

Specifications

Supported Voltage	120-277V, 120-347V, 347V, 480V
Available Sizes	4'
Lumen Output	2.5L (2500lm) to 11.5L (11500lm)
Lifetime	L70 of 98,000+ hours, L90 of 30,000+ hours
CCT	2700K, 3000K, 3500K, 4000K, 5000K, 6500K
CRI	80+ standard, 90+ and 95+ available
Dimming	0-10V Standard
Mounting	Brackets provided for surface and suspension mounting; Pendant-mounting available

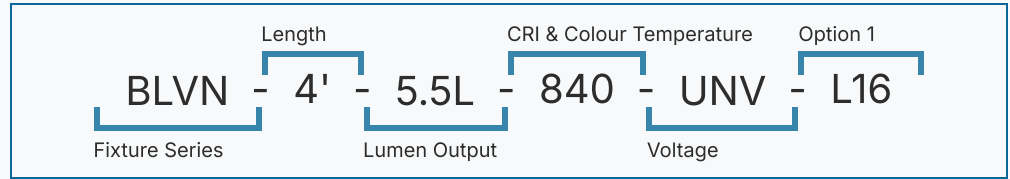
Approvals

- NSF Rated
- IP67 Rated
- NEMA4X Rated
- ETL Listed
- DLC Listed
- Designed and Manufactured in Canada

The Nicolet Series

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Please use the diagram to the right as an example of a completed order code. If you need any assistance contact your local sales representative.



1	2	3	4	5	6
BLVN					

Series	Length	Lumen Output		CRI		CCT		Voltage			
BLVN	4'	2.5L	2500 lm	7.5L	7250 lm	8	80	27	2700K	UNV	120-277V
		3.5L	3500 lm	8.5L	8500 lm	9	90+	30	3000K	347	347V
		4.5L	4500 lm	9.5L	9500 lm	1	95+	35	3500K	UN3	120-347V
		5.5L	5500 lm	10.5L	10500 lm			40	4000K		
		6.5L	6500 lm	11.5L	11500 lm			50	5000K		
								65	6500K		

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Options

Lenses

L16	Ribbed Frosted Acrylic
L17	Ribbed Clear Acrylic
L61	Smooth Clear Acrylic
L63	Smooth Frosted Acrylic
L64	Ribbed Frosted Polycarbonate
L71	Smooth Frosted Polycarbonate

Cords

W1xx	White 16/4 (Specify Length)
W2xx	Black 16/4 (Specify Length)
W3xx	White 16/3 (Specify Length)
W4xx	Black 16/3 (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

Wireless Controls

WCAWN	Lutron Athena (Node)
WCAWNS	Lutron Athena (Sensor)
WC10	Encelium
WC18	NX Wireless
WC19	Avi-on
WC22	JDRF Autonomy
WC31	Keilton
WCxx	Other Options Available*

Motion Sensors

W30XXX	IP-Rated Motion Sensor (SBOR)
WX16	Internal Dimming Low Voltage Microwave Sensor
W**	Other Options Available*

Dimming

B11	0-10V Dimming Leads
B12	Line Voltage Dimming
B27	Dim-to-off Driver
B**	Other Options Available*

Emergency Driver

B17	UL924 10W Battery Back-up
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Temperature Rating

BLANK	Standard
T0	-40C Cold Rated Components

Packaging

BLANK	Individually Boxed on Pallets
P0	Bulk Packaging

Fasteners

BLANK	Standard White Nylon Latches
H4	Stainless Steel Latches
H9	Tamper Resistant Screws (Requires H4 Stainless Steel Latches)

Mounting

M2xx	V-Hanger with Aircraft Loop Cables
M3xx	Y-Toggle Aircraft Cables
M24	Single Pendant Mount(3/4 Hub)
M33	Dual-Pendant Mounting Bracket
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.

 [BLVN - Installation Instructions](#)

 [BLVN - Photometry.zip](#)

Certifications and Listings

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

Icon	Description
	Wireless Controls Available
	DLC Listed
	ETL Listed
	NEMA4X Rated
	IP67 Rated
	NSF Rated
	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
Agricultural Barns
Cold Storage & Freezers
Distribution Facilities
Food Processing Plants
Grocery Stores
Logistics & Warehousing
Manufacturing Facilities
Outdoor Parking Structures
Processing Plants
Storage Facilities
Wash Bays & Wet Environments
Suspended
Surface Mount

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.

The Nicolet Series

BLVN - Vapour Proof

Wattage Information

Below are the wattage tables for all available sizes of the BLVN.

BLVN 4' L16 Wattage

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Lumens per Watt
4'	2.5L	2363	17.7	133.5
4'	3.5L	3337	25.1	133.1
4'	4.5L	4305	32.5	132.6
4'	5.5L	5266	39.8	132.2
4'	6.5L	6221	47.2	131.7
4'	7.5L	7169	54.6	131.3
4'	8.5L	8110	62.0	130.8
4'	9.5L	9045	69.4	130.4
4'	10.5L	9973	76.7	130.0
4'	11.5L	10894	84.1	129.5

BLVN 4' L63 Wattage

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Lumens per Watt
4'	2.5L	2319	17.7	131.0
4'	3.5L	3272	25.1	130.6
4'	4.5L	4219	32.4	130.1
4'	5.5L	5159	39.8	129.7
4'	6.5L	6093	47.1	129.3
4'	7.5L	7021	54.5	128.8
4'	8.5L	7942	61.9	128.4
4'	9.5L	8857	69.2	128.0
4'	10.5L	9765	76.6	127.5
4'	11.5L	10659	83.9	127.0

BLVN Light Loss Factor (LLF)

CCT	Scaling Factor
3500	97.19
4000	100.00
5000	100.00
90CRI	85.90

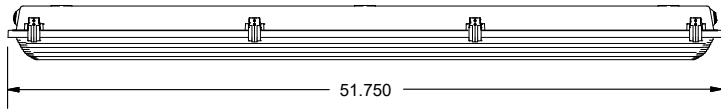
* Actual lumen output may vary

The Nicolet Series

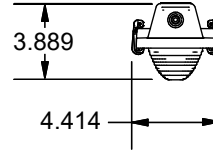
BLVN - Vapour Proof

Vapour-Proof Lighting by **BJTAKE**
LIGHTING

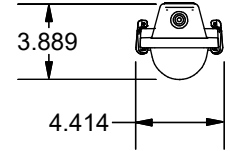
BLVN 4' Side



4' L16/L17 Lens



4' L61/L63 Lens



* Drawings not to scale

* Standard tolerances apply

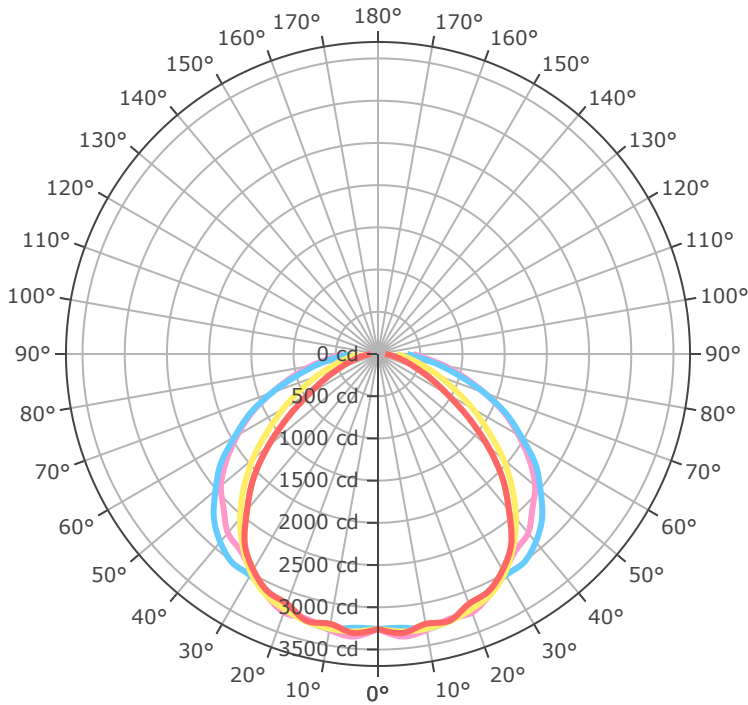
* Specifications may change without notice

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Vapour-Proof Lighting by **BJTAKE** LIGHTING

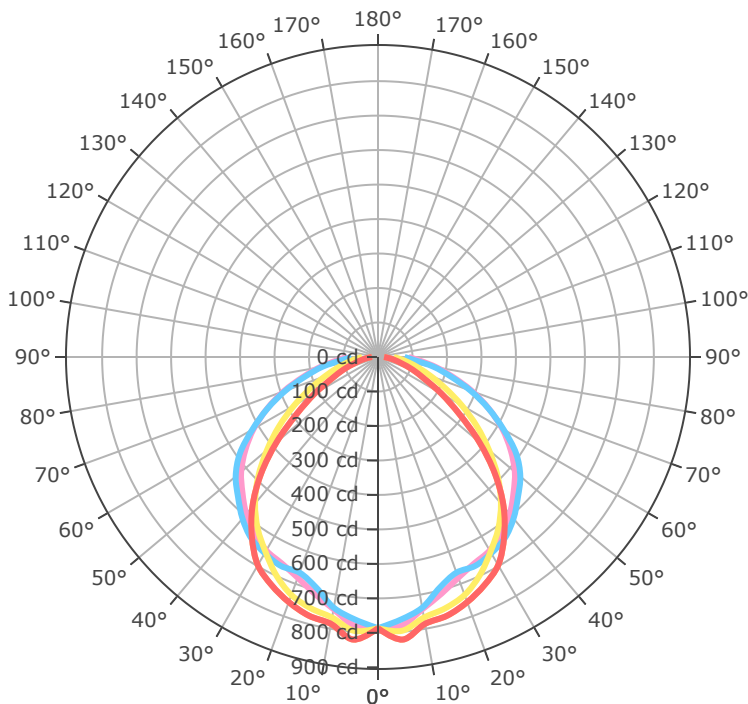
BLVN-4FT-11.5L-840-L16



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

Mtg Height	Light Level	Beam Diameter
6.0 ft	90.5 fc	14.8 ft
8.0 ft	50.9 fc	19.7 ft
10.0 ft	32.6 fc	24.6 ft
12.0 ft	22.6 fc	29.5 ft
14.0 ft	16.6 fc	34.4 ft
16.0 ft	12.7 fc	39.4 ft
24.0 ft	5.7 fc	59.0 ft
32.0 ft	3.2 fc	78.7 ft
40.0 ft	2.0 fc	98.4 ft
48.0 ft	1.4 fc	118.1 ft
56.0 ft	1.0 fc	137.8 ft
64.0 ft	0.8 fc	157.4 ft

BLVN-4FT-2.5L-840-L16



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

Mtg Height	Light Level	Beam Diameter
6.0 ft	21.8 fc	14.1 ft
8.0 ft	12.3 fc	18.7 ft
10.0 ft	7.9 fc	23.4 ft
12.0 ft	5.5 fc	28.1 ft
14.0 ft	4.0 fc	32.8 ft
16.0 ft	3.1 fc	37.5 ft
24.0 ft	1.4 fc	56.2 ft
32.0 ft	0.8 fc	75.0 ft
40.0 ft	0.5 fc	93.7 ft
48.0 ft	0.3 fc	112.4 ft
56.0 ft	0.3 fc	131.2 ft
64.0 ft	0.2 fc	149.9 ft

The Nicolet Series

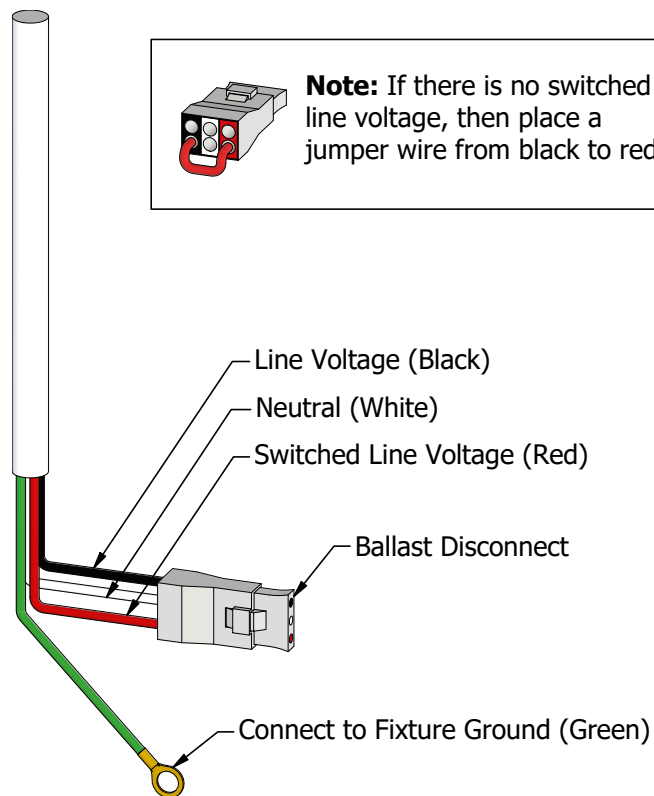
BLVN - Vapour Proof

Vapour-Proof Lighting by **BJTAKE**
LIGHTING

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.

Important Information

The relevant protection category that specifies an enclosure's resistance to impacts and shocks is the IK code. The IK code classification is established using a standardized testing method in line with IEC 62262.

IK Ratings

IK Code	Impact Energy	Weight/Height
1	0.150 joules / 1.33 Inch #	.150kg : 100mm -- 3 15/16 Inch
2	0.200 joules / 1.77 Inch #	.150kg : 133mm -- 5 15/16 Inch
3	0.350 joules / 3.01 Inch #	.150kg : 250mm -- 9 27/32 Inch
4	0.500 joules / 4.43 Inch #	.150kg : 333mm -- 13 7/64 Inch
5	0.700 joules / 6.20 Inch #	.150kg : 500mm -- 19 11/16 Inch
6	1.00 joules / 8.85 Inch #	.500kg : 200mm -- 7 7/8 Inch
7	2.00 joules / 17.70 Inch #	.500kg : 400mm -- 15 3/4 Inch
8	5.00 joules / 44.25 Inch #	1.7kg : 300mm -- 11 13/16 Inch
9	10.00 joules / 88.51 Inch #	5kg : 200mm -- 7 7/8 Inch
10	20.00 joules / 177.01 Inch #	5kg : 400mm -- 15 3/4 Inch

IK Ratings

Criteria	SLP Lens	IK Rating Area 1	IK Rating Area 2	IK Rating Area 3
L17 - 4' Ribbed Clear Acrylic Lens	CT2-DIRA-1L4	9	10	9
L16 - 4' Ribbed Frosted Acrylic Lens	CT2-DIRA-1L4-FR50	9	9	9
L26 - 4' Ribbed Clear Polycarbonate Lens	CT2-DP-1L4	10	10	10
L61 - 4' Smooth Clear Acrylic Lens	CT2-CIRA-1L4	10	10	10
L63 - 4' Smooth Frosted Acrylic Lens	CT2-CIRA-1L4-FR50	10	10	10
L65 - 4' Smooth Clear Polycarbonate Lens	CT2-CP-1L4	10	10	10
L71 - 4' Narrow Smooth Polycarbonate Frosted Lens	CT2-CP-1L4-FR50	10	10	10\

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LIGHTING

Gallery Information

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

