

NanoNeon Light Engine for Millwork Channels

Specification Submittal

NanoNeon delivers ultra-thin, seamless illumination, redefining modern lighting solutions. It can be installed directly into wood or particle board integrating effortlessly into cabinetry, shelving, and custom architectural details, offering a sophisticated blend of functionality and aesthetics.



Project Name:

Project Location:

Fixture Type:

SKUs:



Features & Benefits

- Flawless, continuous smooth glow of light with no inconsistencies
- Measuring only 0.16 inches wide for unobtrusive, minimalist integration
- Install directly into wood or particle with UV or wood glue to ensure a snug, long lasting fit
- Superior color rendering
- High R9 and R13 values for superb rendering of warm tones
- 2-step MacAdam ellipse for unparalleled quality and consistency
- UL Listed and Title 24
- Perfect for many applications, including cabinetry, shelving, and custom architectural details

Technical Information

Power Consumption per Foot	3.4 Watts
Stocked Color Temperature	2700K, 3000K, 3500K, 4000K
Input Voltage	24V DC
Dimensions	0.24 inches x 0.16 inches
Beam Radius	111°
Bend Radio	>2.36 inches
Router Bit Compatibility	Straight 4mm router bit
Field Cuttable (UL 2108)	Every 1.03 inch

Dimmable	Yes
Ambient Temperature	-4° F to 113° F
Environment	Indoor/Outdoor, Dry/Wet, (IP67)
Certifications	UL Listed, UL 2108, CE, RoHS, can be used to comply with Title 24 JAB - 2019
Warranty	6 Year Limited

System Builder Choose one option for each step.

Prefix	Location	Output	Voltage	CCT	Length	# of Leads	Lead Length 1	Lead Length 2
OP-01-N04MMSB	0	100	24V	White Light 2700K 3000K 3500K 4000K	XXX Length in 1 in. increments	1LEAD One lead 2LEAD Two leads (one at each end) <i>By default leads come out the end of the Light engine as shown in the image</i>	XXX 1-120 in.	XXX 1-120 in. Optional

Fixtures are supplied with Optique's remote Universal power supply supporting 0-10, 1-10V, MLV, ELV dimming and voltage input from 100V-277V.

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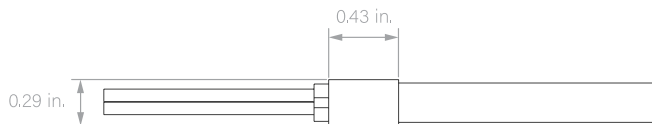
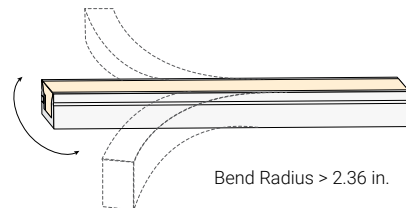
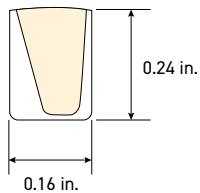
i Stock SKU's for Light Engine

SKU	Description
OP-01-N04MMSB-O-100LM-24V-2700K-25	25 in. NanoNeon - 100 Lumens per foot - 2700K - 24V
OP-01-N04MMSB-O-100LM-24V-3000K-25	25 in. NanoNeon - 100 Lumens per foot - 3000K - 24V
OP-01-N04MMSB-O-100LM-24V-3500K-25	25 in. NanoNeon - 100 Lumens per foot - 3500K - 24V
OP-01-N04MMSB-O-100LM-24V-4000K-25	25 in. NanoNeon - 100 Lumens per foot - 4000K - 24V
OP-01-N04MMSB-O-100LM-24V-2700K-37	37 in. NanoNeon - 100 Lumens per foot - 2700K - 24V
OP-01-N04MMSB-O-100LM-24V-3000K-37	37 in. NanoNeon - 100 Lumens per foot - 3000K - 24V
OP-01-N04MMSB-O-100LM-24V-3500K-37	37 in. NanoNeon - 100 Lumens per foot - 3500K - 24V
OP-01-N04MMSB-O-100LM-24V-4000K-37	37 in. NanoNeon - 100 Lumens per foot - 4000K - 24V
OP-01-N04MMSB-O-100LM-24V-2700K-48	48 in. NanoNeon - 100 Lumens per foot - 2700K - 24V
OP-01-N04MMSB-O-100LM-24V-3000K-48	48 in. NanoNeon - 100 Lumens per foot - 3000K - 24V
OP-01-N04MMSB-O-100LM-24V-3500K-48	48 in. NanoNeon - 100 Lumens per foot - 3500K - 24V
OP-01-N04MMSB-O-100LM-24V-4000K-48	48 in. NanoNeon - 100 Lumens per foot - 4000K - 24V
OP-01-N04MMSB-O-100LM-24V-2700K-97	97 in. NanoNeon - 100 Lumens per foot - 2700K - 24V
OP-01-N04MMSB-O-100LM-24V-3000K-97	97 in. NanoNeon - 100 Lumens per foot - 3000K - 24V
OP-01-N04MMSB-O-100LM-24V-3500K-97	97 in. NanoNeon - 100 Lumens per foot - 3500K - 24V
OP-01-N04MMSB-O-100LM-24V-4000K-97	97 in. NanoNeon - 100 Lumens per foot - 4000K - 24V
OP-01-N04MMSB-O-100LM-24V-2700K-125	125 in. NanoNeon - 100 Lumens per foot - 2700K - 24V
OP-01-N04MMSB-O-100LM-24V-3000K-125	125 in. NanoNeon - 100 Lumens per foot - 3000K - 24V
OP-01-N04MMSB-O-100LM-24V-3500K-125	125 in. NanoNeon - 100 Lumens per foot - 3500K - 24V
OP-01-N04MMSB-O-100LM-24V-4000K-125	125 in. NanoNeon - 100 Lumens per foot - 4000K - 24V
OP-01-N04MMSB-O-100LM-24V-2700K-196	1 spool of 16.4 ft. NanoNeon - 100 Lumens per foot - 2700K - 24V
OP-01-N04MMSB-O-100LM-24V-3000K-196	1 spool of 16.4 ft. NanoNeon - 100 Lumens per foot - 3000K - 24V
OP-01-N04MMSB-O-100LM-24V-3500K-196	1 spool of 16.4 ft. NanoNeon - 100 Lumens per foot - 3500K - 24V
OP-01-N04MMSB-O-100LM-24V-4000K-196	1 spool of 16.4 ft. NanoNeon - 100 Lumens per foot - 4000K - 24V

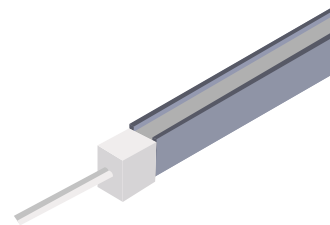
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Dimensions



Light Engine with Sleeve



Light Engine Sleeve stays outside the channel

Output

Output (lm/ft)		L1
Lumens (per ft)	2700K	122
	3000K	123
	3500K	133
	4000K	143
Wattage* (per ft.)		3.4
Max Run Length** (ft.)		21.25

*Power consumption based on average wattage per foot.

**Maximum run length per power feed.

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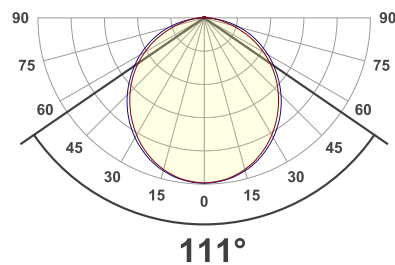
Photometry

1 ft., 3000K, NanoNeon Light Engine

LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 15°	8.94 lm	7.27%
0° - 30°	32.8 lm	26.66%
0° - 45°	64.2 lm	52.19%
0° - 60°	94.2 lm	76.58%
0° - 75°	115 lm	93.49%
0° - 90°	121 lm	98.37%

ANGULAR DISTRIBUTION 0 - 90°



COLOR VECTOR GRAPHIC

Hue Bin	R_t	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	0%
2	98	1%	-1%
3	96	1%	-1%
4	96	-1%	-2%
5	98	-1%	1%
6	97	2%	1%
7	96	1%	1%
8	95	3%	0%
9	96	2%	0%
10	96	2%	-1%
11	96	2%	0%
12	94	3%	-2%
13	95	1%	-4%
14	94	3%	-4%
15	95	1%	-2%
16	92	2%	-6%

