

# Nano Linear Indoor COB Light Engine

## Specification Submittal

Nano Linear Indoor COB Light Engine offers high-definition, seamless illumination with advanced COB LED technology. This versatile, dot-free lighting solution enhances any residential or commercial.

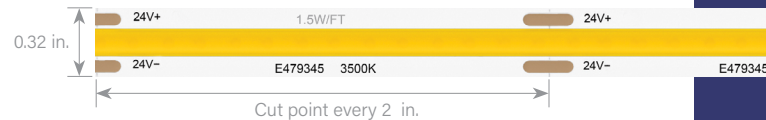


Project Name:

Project Location:

Fixture Type:

SKUs:



## Features & Benefits

- Output ranges from 150 lumens per foot to 400 lumens per foot
- Dot-free, uniform illumination without the need for additional covers
- Superior color rendering
- High R9 and R13 values for superb rendering of warm tones

- Continuous Roll-to-Roll lengths reduce failure points by eliminating the need for welding short segments together
- 2-step MacAdam ellipse for unparalleled quality and consistency
- UL Listed and Title 24
- Perfect for many applications, including accent lighting, task lighting, cove lighting, under-cabinet lighting, etc.

## Technical Information

Stocked Color Temperature	2700K, 3000K, 3500K, 4000K
Input Voltage	24V DC
Tape Height	0.09 inches
Beam Angle	140°
Field Cuttable (UL 2108)	Every 2 inches
Dimmable	Yes
Diode Type	COB HD

Mounting	3M™ Self-Adhesive Tape (Non-porous)
Operating Temperature	-4° F to 140° F
Ambient Temperature	-4° F to 158° F
Environment	Dry location
Certifications	UL 2108 Listed, RoHS, can be used to comply with Title 24 JA8 - 2019
Warranty	6 Year Limited

## System Builder Choose one option for each step.

Prefix	Width	Location	Output	Voltage	CCT	Length	# of Leads	Lead Length 1	Lead Length 2
OP-COB-	8MM	I	<b>150</b> 150 lm/ft. (1.5W) <b>250</b> 250 lm/ft. (3.2W) <b>400</b> 400 lm/ft. (4.4W)	24V	<b>2700K</b> <b>3000K</b> <b>3500K</b> <b>4000K</b>	<b>XXX</b> Length in 1 in. increments  Total lengths can not exceed the following: • Max run of 150 = 23 ft. • Max run of 250 = 16.4 ft. • Max run of 400 = 14 ft.	<b>1LEAD</b> One lead  <b>2LEAD</b> Two leads (one at each end)  - The length will dictate the wire gauge	<b>XXX</b> 1-120 in. <b>Optional</b>	

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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### Output

Output (lm/ft)		150	250	400
Lumens (per ft)	2700K	149.8	270.4	375.2
	3000K	161.1	260.8	418.2
	3500K	177.1	281.9	436.4
	4000K	164.8	314.3	471.8
Wattage* (per ft.)		1.5	3	4.4
Max Run Length** (ft.)		23	16.4	14

\*Power consumption based on average wattage per foot.

\*\*Maximum run length per power feed.

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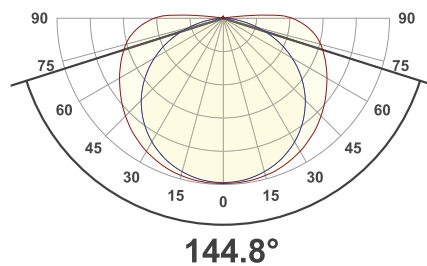
### Photometry

1 ft., 150 lm/ft, Nano Linear Indoor COB Light Engine

#### LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 15°	8.37 lm	7.04%
0° - 30°	31.7 lm	26.20%
0° - 45°	64.8 lm	52.16%
0° - 60°	101 lm	77.60%
0° - 75°	132 lm	94.93%
0° - 90°	155 lm	100%

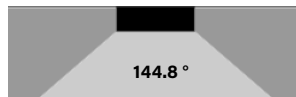
#### ANGULAR DISTRIBUTION 0 - 90°



#### FOOT CANDLES

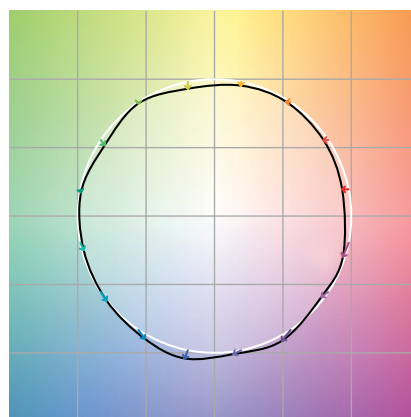
Distance	Foot Candles
1'	40 fcd
1.5'	18 fcd
2'	10 fcd
2.5'	6 fcd
3'	4 fcd
4'	2 fcd
5'	2 fcd
6'	1 fcd
9'	0 fcd
12'	0 fcd

#### BEAM ANGLE



#### COLOR VECTOR GRAPHIC

Hue Bin	$R_t$	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	2%
2	96	0%	1%
3	95	1%	0%
4	91	-4%	-4%
5	95	-3%	-1%
6	95	0%	2%
7	95	-2%	3%
8	95	2%	2%
9	92	2%	4%
10	94	3%	3%
11	91	6%	1%
12	89	4%	-5%
13	88	2%	-11%
14	87	1%	-9%
15	93	-3%	-1%
16	90	-1%	-7%



Reference Test