Nano Linear Sauna COB Light Engine

Specification Submittal

Nano Linear Sauna COB Light Engine is an IP67-rated tape light engineered to perform in environments where traditional LEDs can't. Fully encased in heat-resistant silicone and with premium gold contact points ensures long-term reliability and optimal performance. Its frosted surface enhances light diffusion and resists dust buildup, making it ideal for steam rooms, saunas, fireplaces.

OPTIQUE

Project Name:

Project Location:

Fixture Type:

SKUs:

Features & Benefits

- Gold contact points for superior conductivity and corrosion resistance
- Frosted silicone surface for even light distribution and dust resistance
- Smooth, dot-free, uniform illumination without the need for additional covers
- Withstands high-temperature environments with robust thermal resilience
- 2-step MacAdam ellipse for unparalleled quality and consistency
- UL Listed and Title 24
- Perfect for many applications, including steam rooms, saunas, fireplaces. hot yoga studios, and demanding commercial kitchen environments

Technical Information

Stocked Color Temperature	2700K, 3000K, 3500K, 4000K, 5000K
Power Consumption per Foot	3 Watts
Input Voltage	24V DC
Diodes per Foot	146
Diode Spacing	0.082 inches
Tape Height	0.216 inches
Beam Angle	110°
Field Cuttable (UL 2108)	Every 1.97 inches
Dimmable	Yes

Diode Type	COB
Mounting	3M™ Self-Adhesive Tape (Non-porous)
Operating Temperature	32° F to 248° F
Ambient Temperature	-40° F to 221° F
Spool Length	16.4 ft.
Environment	High-Heat, Saunas, Steam rooms
Certifications	UL 2108 Listed, RoHS
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-SCOB-	12MM	0	300 LM	24V					

CCT
- 2700K
- 3000K
- 3500K
- 4000K
- 5000K

Length
- XXX — Length in 1 in. increments

Total lengths can not exceed the following:

- *Max run of 300 = 16.4 ft.*

# of Leads
- 1LEAD — One lead
- 2LEAD — Two leads (one at each end)

– The length will dictate the wire gauge

Lead Length 1
- XXX — 1-120 in.

Lead Length 2
- 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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Stock SKU's for Light Engine

SKU	Description
OP-SCOB-12MM-O-300LM-24V-2700K-196IN	196 in. Nano Linear Sauna COB White Light Engine - 300 Lumens per foot - 2700K - 24V
OP-SCOB-12MM-O-300LM-24V-3000K-196IN	196 in. Nano Linear Sauna COB White Light Engine - 300 Lumens per foot - 3000K - 24V
OP-SCOB-12MM-O-300LM-24V-3500K-196IN	196 in. Nano Linear Sauna COB White Light Engine - 300 Lumens per foot - 3500K - 24V
OP-SCOB-12MM-O-300LM-24V-4000K-196IN	196 in.Nano Linear Sauna COB White Light Engine - 300 Lumens per foot - 4000K - 24V
OP-SCOB-12MM-O-300LM-24V-5000K-196IN	196 in. Nano Linear Sauna COB White Light Engine - 300 Lumens per foot - 5000K - 24V

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Output

Output (lm/ft)		**300**
Lumens (per ft)	**2700K**	343
	3000K	317
	3500K	370
	4000K	372
	5000K	396
Wattage* (per ft.)		3
Max Run Length** (ft.)		16.4

**Power consumption based on average wattage per foot.*

***Maximum run length per power feed.*

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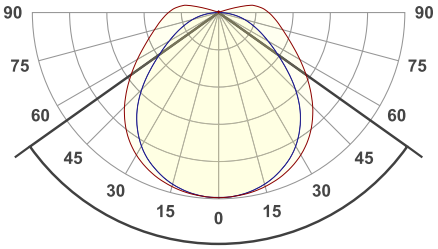
Photometry

1 ft., 300 lm/ft, 3000K, Nano Linear Sauna COB Light Engine

LUMEN SUMMARY

Zone	Lumens	% Fixture
0° – 15°	22.3 lm	6.50%
0° - 30°	83.2 lm	24.25%
0° - 45°	164 lm	47.81%
0° - 60°	236 lm	68.80%
0° - 75°	288 lm	83.96%
0° - 90°	321 lm	93.58%

ANGULAR DISTRIBUTION 0 – 90°

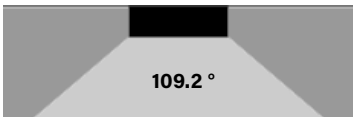


109.2°

FOOT CANDLES

Distance	Foot Candles
1’	106 fcd
1.5’	47 fcd
2’	26 fcd
2.5’	17 fcd
3’	12 fcd
4’	7 fcd
5’	4 fcd
6’	3 fcd
9’	1 fcd
12’	1 fcd

BEAM ANGLE



COLOR VECTOR GRAPHIC

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	87	-6%	2%
2	91	-3%	3%
3	93	-2%	3%
4	91	-5%	-2%
5	94	-5%	0%
6	95	-2%	0%
7	88	-7%	3%
8	94	-2%	4%
9	89	-1%	7%
10	86	2%	9%
11	89	5%	7%
12	89	6%	-3%
13	88	1%	-10%
14	84	1%	-13%
15	85	-4%	-7%
16	83	-5%	-11%