OPTIQUE

Nano Linear Indoor COB RGBTW Light Engine

Specification Submittal

Combining dynamic color-changing (RGB) capabilities with tunable white light (2700K–6500K), all in a dot-free COB format, this tape light offers seamless illumination and 5-channel control for unlimited design flexibility for color-rich architectural accents, immersive environments, and high-end residential or commercial spaces.

Project Name:

Project Location:

Fixture Type:

SKUs:

0.47 in.

RGBTW27K-65K   5.5W/FT   24V+   24V+   RGBTW27K-65K

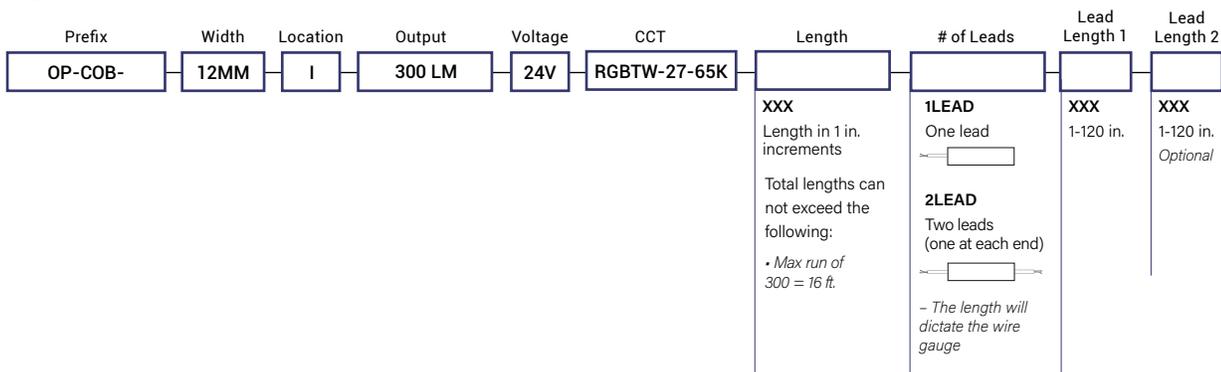Cut point every 1.64 in.

Features & Benefits

- Red, Green, Blue, and a Tunable white range from 2700K to 6500K
- 5-channel output for maximum versatility
- Smooth, Dot-free, uniform illumination without the need for additional covers
- 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 retail, high-end residential, and architectural feature lighting

Technical Information

Color	RGBTW
Power Consumption per Foot	5.8 Watts / 242 mA
Input Voltage	24V DC
Diodes per Foot	292
Diode Spacing	0.041 inches
Tape Height	0.07 inches
Beam Angle	140˚
Field Cuttable (UL 2108)	Every 1.64 inches
Dimmable	Yes (with color controller)

Diode Type	CSP
Mounting	3M™ Self-Adhesive Tape (Non-porous)
Operating Temperature	-13° F to 140° F
Ambient Temperature	-40° F to 176° F
Spool Length	14 ft.
Environment	Indoor, Dry location
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-COB-	12MM	I	300 LM	24V	RGBTW-27-65K				

XXX
Length in 1 in. increments

Total lengths can not exceed the following:

• Max run of 300 = 16 ft.

1LEAD
One lead

2LEAD
Two leads (one at each end)

– The length will dictate the wire gauge

XXX
1-120 in.

XXX
1-120 in.
Optional

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ℹ️ Stock SKU's for Light Engine

SKU	Description
OP-COB-12MM-D-300LM-24V-RGBTW-27-65K-168IN	168 in. Nano Linear indoor COB Light Engine - 300 Lumens per foot - RGBTW(2700K-6500K) - 24V

⏻ Power Supplies and DMX Decoders

Include Power Supplies and DMX Decoders In Quote?

Yes, Include Power Supplies and DMX Decoders:

Optique Lighting will provide a universal power supply supporting 0-10, 1-10V, MLV, ELV dimming and voltage input from 100V-277V. Includes integrated junction box.

No Power Supplies or DMX Decoders Required:

No power supplies or DMX decoders will be included.

*Note: If nothing is selected, we will assume power supplies and DMX decoders should be included.

☀️ Output

Output (lm/ft)		300
Lumens (per ft)	All LEDs on	360
	Cool White	100
	Warm White	99
Wattage* (per ft.)		5.8
Max Run Length** (ft.)		14

*Power consumption based on average wattage per foot.

**Maximum run length per power feed.

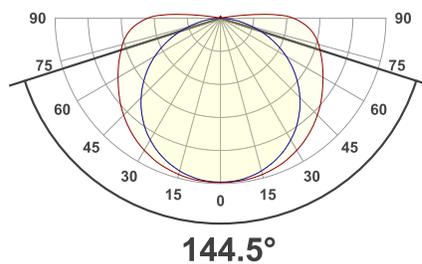# Nano Linear Indoor COB RGBTW Light Engine

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✦ Photometry

1 ft., 300 lm/ft, Nano Linear Indoor COB Light Engine

LUMEN SUMMARY

Zone	Lumens	% Fixture
0° – 15°	18.7 lm	5.19%
0° - 30°	70.7 lm	19.64%
0° - 45°	144 lm	40%
0° - 60°	223 lm	61.94%
0° - 75°	292 lm	81.11%
0° - 90°	344 lm	95.55%

ANGULAR DISTRIBUTION 0 – 90°

144.5°

FOOT CANDLES

Distance	Foot Candles
1'	89 fcd
1.5'	39 fcd
2'	22 fcd
2.5'	14 fcd
3'	10 fcd
4'	6 fcd
5'	4 fcd
6'	2 fcd
9'	1 fcd
12'	1 fcd

BEAM ANGLE

144.5 °
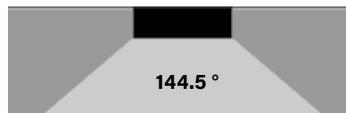
COLOR VECTOR GRAPHIC

Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	65	19%	4%
2	72	14%	-7%
3	70	7%	-18%
4	78	-1%	-13%
5	76	-14%	-7%
6	86	-2%	7%
7	78	-6%	9%
8	78	7%	12%
9	82	8%	10%
10	86	7%	7%
11	86	6%	2%
12	90	-2%	0%
13	83	0%	8%
14	70	-1%	18%
15	71	18%	18%
16	72	9%	11%

☐ Reference ■ Test