

## Nano Linear RGBW+ Light Engines

### Specification Submittal

Nano Linear RGBW+ Light Engines are designed and engineered to allow you to choose a static white light at a uniquely high output while having the flexibility of the RGBW technology. Our RGBW+ light engines allow for great versatility in your commercial lighting and home lighting design.

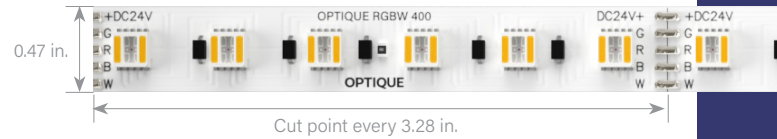


Project Name:

Project Location:

Fixture Type:

SKUs:



### Features & Benefits

- Sophisticated RGBW technology that seamlessly allows endless color opportunities
- Unique high white light output and performance comparable to standard white light engines
- 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
- Perfect for many applications, including retail, bars, restaurants, home theaters, etc.

### Technical Information

Power Consumption per Foot	5.0W, 7.7W, 10.2W
Input Voltage	24V DC
Diodes per Foot	22
Diode Spacing	0.54 inches
Tape Height	0.085 inches
Beam Angle	120°
Field Cuttable (UL 2108)	Every 3.28 inches
Dimmable	Yes (with color controller)

Diode Type	SMD5050
Color Temperature of White LEDs	3000K
Mounting	3M™ Self-Adhesive Tape (Non-porous)
Operating Temperature	-25° C to 60° C
Ambient Temperature	-40° C to 80° C
Environment	Dry location
Certifications	UL
Warranty	6 Year Limited

### System Builder Choose one option for each step.

Company	Series	Width	Location	1 Output	Voltage	CCT	2 Length	3A Lead A	3B Lead B	3C Lead C
OP	02	12MM	I		24V	RGBW				

1 Output	2 Length	3 Lead
<p><b>300</b> 272 lm/ft</p> <p><b>400</b> 394 lm/ft</p> <p><b>500</b> 507 lm/ft</p>	<p><b>XYZ</b> 1 in. increments</p> <p>Total lengths can not exceed the following:</p> <ul style="list-style-type: none"> <li>Max run of 300 = 19 ft.</li> <li>Max run of 400 = 12 ft.</li> <li>Max run of 500 = 9 ft.</li> </ul>	<p><b>3A</b> Number of Leads</p> <p><b>1LEAD</b> One lead</p> <p><b>2LEAD</b> Two leads (one at each end)</p> <p><b>3B</b> Length at End (in inches) <b>1-120</b></p> <p><b>3C</b> Length at Beginning (in inches) <b>1-120 - Optional</b></p> <p>- The length will dictate the wire gauge</p>

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### 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	400	500
Lumens (per ft)	All LEDs on	272	394	507
	White Only	140	208	279
Wattage* (per ft.)		5.0	7.7	10.2
Max Run Length** (ft.)		19	12	9

\*Power consumption based on average wattage per foot.

\*\*Maximum run length per power feed.

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### Photometry

1 ft., 400 lm/ft Nano Linear RGBW Light Engine

#### LUMEN SUMMARY

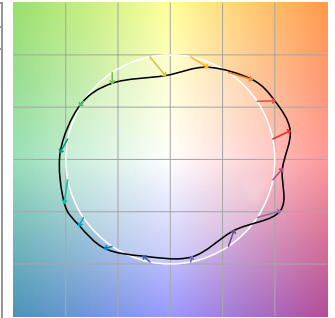
Zone	Lumens	% Fixture
0° - 15°	20.2 lm	5.13%
0° - 30°	76.2 lm	19.34%
0° - 45°	153 lm	38.83%
0° - 60°	232 lm	58.88%
0° - 75°	294 lm	74.62%
0° - 90°	327 lm	82.99%

#### FOOT CANDLES

Distance	Foot Candles
1'	96 fcd
1.5'	43 fcd
2'	24 fcd
2.5'	15 fcd
3'	11 fcd
4'	6 fcd
5'	4 fcd
6'	3 fcd
9'	1 fcd
12'	1 fcd

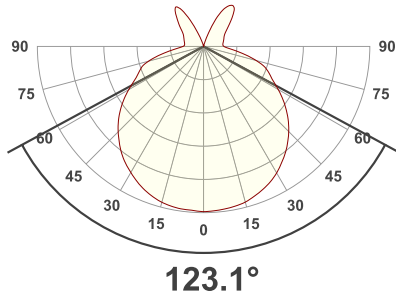
#### COLOR VECTOR GRAPHIC

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	66	18%	5%
2	70	14%	-9%
3	65	7%	-22%
4	69	-7%	-18%
5	65	-20%	-11%
6	84	-9%	6%
7	90	1%	5%
8	75	5%	14%
9	77	8%	21%
10	85	8%	4%
11	81	5%	-5%
12	84	-4%	-7%
13	83	-5%	2%
14	73	-10%	13%
15	74	15%	17%
16	75	7%	12%



Reference Test

#### ANGULAR DISTRIBUTION 0 - 90°



#### BEAM ANGLE

