

### DESCRIPTION

Similar to our already popular FBT-RGB, the WAVE-RGB offers additional flexibility to your creative designs due to its back to front bending orientation. Corners and angles can now be installed seamlessly with the Wave-RGB. The Wave-RGB Series combines constant current, color blending technology with a flexible polyvinyl chloride housing to create a durable, extremely bright, uniform illumination with color versatility that makes it perfect for any custom design application.

The Wave-RGB has a low square profile that allows for a tighter, more precise viewing pattern while providing increased lumen output due to its internal optic.

### Features

- Energy efficient LEDs consume 3.66W/ft. or less, saving up to 70% or more over traditional neon
- Indoor and outdoor rated
- Flexible PVC housing can conform to almost any angle, virtually unbreakable
- Opaque jacket housing with color-changing LEDs every 0.04"
- Uniform lighting with no "hot-spots"

### LED Characteristics

- Nichia SMD tri-color LEDs
- L70 Lumen maintenance: 50,000 hours
- 33 LEDs per foot

### Electrical

- Voltage: 24VDC
- Constant current drivers available for 120-277VAC, 50/60Hz
- Operating product length: 65' when power is supplied to both ends

### Product Specifications

- Flexible, shatterproof, cool to touch, UV inhibited, PVC housing
- 4 Wire, RGB color, flexible border tubing
- Roll length: 65 feet (Maximum)
- Cutting increment: 3.28"
- Mounting: Mounting clips (WAVE-RGB-MC) or mounting channel available in standard (WAVE-RGB-LCH) or locking model (WAVE-RGB-LCH-L)
- Dimensions: 0.63" wide by 0.63" high
- Viewing angle: 160°

### Testing & Compliance

- UL2108/IP68/LM-79/LM-80/RoHS/CE/Exceeds ANSI C78.377A
- California Title 24 compliant
- Operating temperature: -30°C to 60°C (-22°F to 140°F)

### Warranty

Any component that fails due to a manufacturing defect is guaranteed for five years. The warranty does not cover physical damage, abuse or instances of uncontrollable natural forces. See the full specialtyLED warranty document for detailed information. (Terms and conditions apply)

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
Accessories: \_\_\_\_\_  
Job Name: \_\_\_\_\_ Type: \_\_\_\_\_



### APPLICATIONS

- Borders
- Cove lighting
- Bridges
- Gazebos
- Window Frames
- Roof lines
- Signage
- Accent lighting
- Display Cases

### Ordering Information (Example: WAVE-RGB-65-24V)

Series	Length	Voltage
WAVE-RGB	65 = 65 Feet	24V <sup>2</sup> = 24 Volt DC
	XX <sup>1</sup> = Custom Length	

### Notes

<sup>1</sup> Custom lengths ordered specific to product cutting increments

<sup>2</sup> Requires transformer, ordered separately

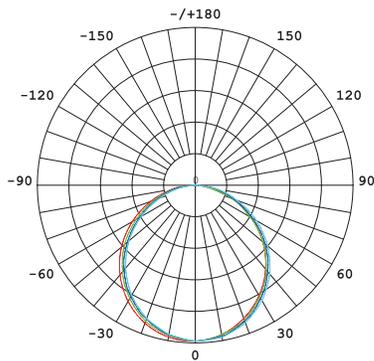
## TECHNICAL / ILLUMINATION INFORMATION

Color	Voltage	Rated Power W/ft	Cutting Increment	Max Run <sup>1</sup>
RGB Color Changing	24VDC	3.66	3.28"	65' (When unit has power supplied at both ends)

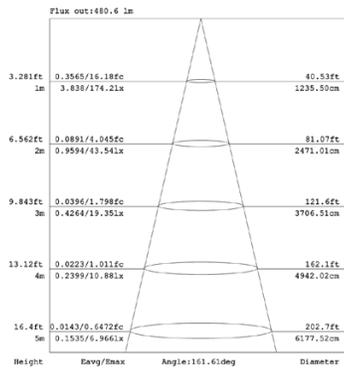
## RGB ILLUMINATION INFORMATION

Color	Wavelength nm	Lumens lm/ft
RED	620-630	24.38
GREEN	520-530	57.91
BLUE	465-475	10.06
WHITE (R+G+B)		96.93

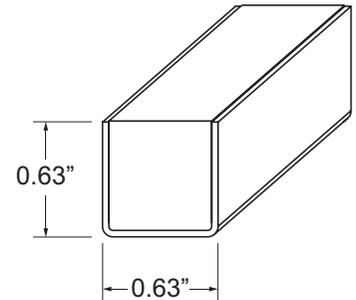
## CANDLE POWER DISTRIBUTION



## ILLUMINANCE CHARACTERISTICS



## DIMENSIONS



## 24VDC NON-DIMMING TRANSFORMER ORDERING INFORMATION (ORDER AS SEPARATE LINE ITEM)

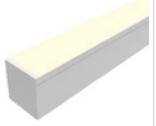
Example: XFMR-24-60

Part Number	Description	Dimensions (AxBxC)
XFMR-24-20	24 Volt, 20 Watt, Class 2 Power Supply	4.65" x 1.37" x 1.0"
XFMR-24-35	24 Volt, 35 Watt, Class 2 Power Supply	5.8" x 1.57" x 1.18"
XFMR-24-60	24 Volt, 60 Watt, Class 2 Power Supply	6.39" x 1.67" x 1.25"
XFMR-24-150	24 Volt, 150 Watt, Class 2 Power Supply	8.74" x 2.67" x 1.52"



Note: All transformers are to be installed per NEC requirements. Wire leads on the 24 volt product are 18 gauge. Transformer is to be mounted within 10 feet of product. If transformer is mounted more than 10 feet from product, voltage drop and maximum operating distances should be taken into account when making transformer selection.

**ACCESSORIES** (ORDER AS SEPARATE LINE ITEM)

Part Number	Image	Description
WAVE-RGB-LCR-24V-F1M		Seamless injection-molded line cord right feed, factory installed (IP68), 3.25" length F3M = 9.84" F5M = 16.40
WAVE-RGB-LCL-24V-F1M		Seamless injection-molded line cord left feed, factory installed (IP68), 3.25" length F3M = 9.84" F5M = 16.40
WAVE-RGB-EC-F		Seamless injection-molded end cap, factory installed
WAVE-RGB-SJ-F1M		Seamless injection-molded jumper, 3.28' length
WAVE-RGB-MC		Mounting Clip 0.75" x 0.6875" x 2"
RFX-DMX-CV-DECODER		Indoor 5050 RGB DMX decoder with RJ45 input, output 12-24V (needs DMX board, not included) INDOOR USE ONLY
NICOLAUDIE-POWER4M		6VDC, 0.65A power adapter for NICOLAUDIE-STICK-KE-1

Part Number	Image	Description
WAVE-RGB-LCLBE-24V-F1M		Seamless injection-molded line cord bottom feed, factory installed, 3.25" length F3M = 9.84" F5M = 16.40
WAVE-RGB-LCRBE-24V-F1M		Seamless injection-molded line cord bottom feed, factory installed, 3.25" length F3M = 9.84" F5M = 16.40
WAVE-RGB-LCLSE-24V-F1M		Seamless injection-molded line cord left side feed, factory installed, 3.25" length F3M = 9.84" F5M = 16.40
WAVE-RGB-LCRSE-24V-F1M		Seamless injection-molded line cord right side feed, factory installed, 3.25" length F3M = 9.84" F5M = 16.40
WAVE-RGB-LCH		Aluminum Linear Channel 0.75" x 0.6875" x 3.28"
WAVE-RGB-LCH-L		Locking linear channel
RFX-4B-3CHRGB		DMX controller for sample purposes INDOOR USE ONLY
NICOLAUDIE-STICK-KE-1		DMX controller, 1024 channels. INDOOR USE ONLY (requires the use of the NICOLAUDIE-POWER4M power adapter)

**CUSTOM ORDERING EXAMPLE (NON-DIMMING, 65' RUN)**

Qty 1 WAVE-RGB Flexible Border Tube (WAVE-RGB-65-24V)

Qty 10 Linear Channel (WAVE-RGB-LCH)

Qty 1 Line Cord connector assembly (WAVE-RGB-LCR-24V-F1M)

Qty 1 End cap connector assembly (WAVE-RGB-EC-F)

Qty 1 Transformer (XFMR-24-150)