specialtyLED
commercial & decorative lighting

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 and angle, virtually unbreakable
- Opaque jacket housing with color-changing LEDs every 0.55"
- Uniform lighting with no "hot-spots"

LED Characteristics

- Nichia SMD tri-color LEDs
- L70 Lumen maintenance: 90,000 hours @ 25%
- 22 LEDs per foot

Electrical

- Voltage: 24VDC
- Constant current drivers available for 120-277VAC, 50/60Hz
- Operating product length: 32' when power is supplied to a single end
  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
- 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 0.67" high
- Viewing angle: 160°
- Minimum bend diameter: 11.81"

Testing & Compliance

- UL2108/IP68/LM-79/LM-80/RoHS/CE/Exceeds ANSI C78.377A
- California Title 24 compliant
- Operating temperature: 0°C to 60°C (32°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: _____

UL · LM-80 · TITLE 24 COMPLIANT · 5 YEAR WARRANTY

APPLICATIONS

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

Ordering Information (Example: WAVE-RGB-32-24V)

Series	Length	Voltage
WAVE-RGB	XX[1] = Custom Length	24V[2] = 24 Volt DC

Notes	Accessories (Order as separate line item)
[1] Custom lengths ordered specific to product cutting increments	Non-Dimming Transformers
[2] Requires transformer, ordered separately	

10820073 Rev 4

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TECHNICAL / ILLUMINATION INFORMATION

| Color	Voltage	Rated Power W/ft	Cutting Increment	Max Run[1]
RGB Color Changing	24VDC	3.66	3.28"	32' (When unit has power supplied to a single end)
				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	9.14
WHITE (R+G+B)		91.44

CANDLE POWER DISTRIBUTION
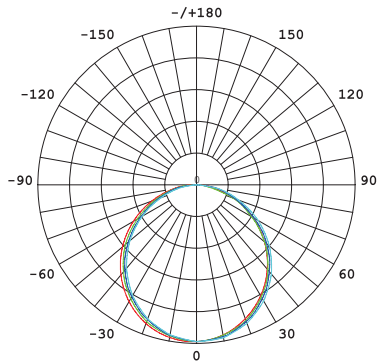
ILLUMINANCE CHARACTERISTICS

DIMENSIONS

0.67"

0.63"

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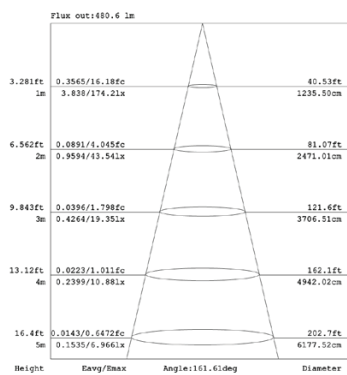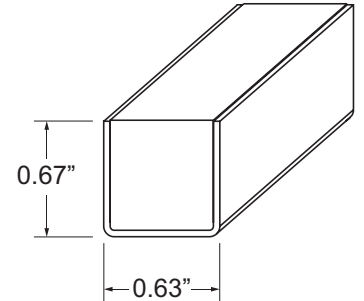
ACCESSORIES (ORDER AS SEPARATE LINE ITEM)

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, 32' RUN)

Qty 1 WAVE-RGB Flexible Border Tube (WAVE-RGB-32-24V)

Qty 10 Linear Channel (WAVE-RGB-LCH)

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

Qty 1 Factory molded assembly

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

Qty 1 Transformer (XFMR-24-150)

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