

DESCRIPTION

The SURF-RGB is an economical, commercial grade solution for your LED linear lighting needs. By providing optics within the Eco-friendly UV Resistant PVC housing, the SMD5050 LEDs far exceeds the normal ribbon flex lumen level. Extremely flexible, bends twists and coils depending on your needs.

Features

- Energy efficient LEDs consume 3.66W/ft or less, saving up to 70% or more over traditional neon
- Extremely flexible: bends, twists and coils depending on your needs
- Indoor and outdoor rated; IP65 and IP68 rated connections available
- Slim design allows installation in tight spaces without being visible
- Nichia tri-color RGB LEDs encased in a patented optical housing

LED Characteristics

- Nichia SMD 5050 tri-color LEDs – LM-80 tested
- Rated life: 50,000 hours
- 18 LEDs per foot

Electrical

- Voltage: 24VDC
- Constant current drivers available for 120-277VAC, 50/60Hz
- Operating distance: Up to a 65' run with two power supplies feeding from each end

Product Specifications

- Flexible, shatterproof, cool to touch, UV inhibited, PVC housing
- 4 Wire, RGB color, LED ribbon flex
- Roll length: 65'
- Cutting increment: 3.94"
- Mounting: Clips or linear channel
- Dimensions: 0.63" wide by 0.24" high
- Viewing angle: 150°

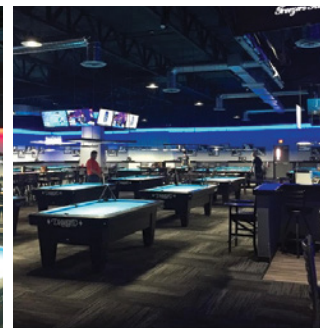
Testing & Compliance

- UL2108/IP68/LM-79/LM-80/RoHS/CE/ Exceeds ANSI C78.377A
- California Title 24 Compliant
- IP65 or IP68 rated based on connectors used
- Operating temperature: -25°C to 60°C (-13°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
- Soffits
- Ground Slots

Ordering Information (Example: SURF-RGB-65-24V)

Series	Length	Voltage
SURF-RGB	65 = 65 Feet	24V ² = 24 Volt DC
	XX ¹ = Custom Length	

Notes

¹ Custom lengths ordered specific to product cutting increments

² Requires transformer, ordered separately

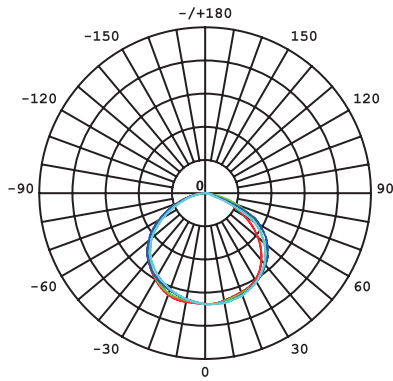
TECHNICAL / ILLUMINATION INFORMATION

Color	Voltage	Rated Power W/ft	Cutting Increment	Max Run ¹
RGB Color Changing	24VDC	3.66	3.94"	65' (When unit has power supplied at both ends)

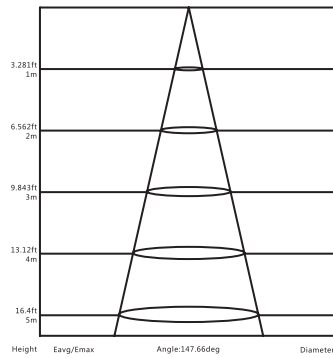
RGB ILLUMINATION INFORMATION

Color	Wavelength nm	Lumens lm/ft
RED	618-624 nm	22
GREEN	522-528 nm	70
BLUE	474-478 nm	12
WHITE (R+G+B)		108

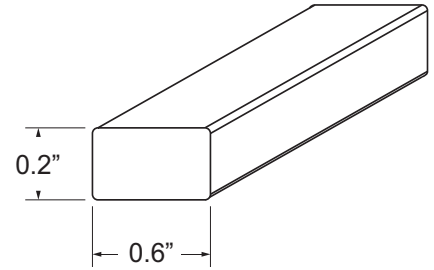
CANDLE POWER DISTRIBUTION



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
SURF-RGB-LCL-24V-SNAP		Line Cord connector assembly left power feed (IP65)
SURF-RGB-LCR-24V-SNAP		Line Cord connector assembly right power feed (IP65)
SURF-RGB-EC-SNAP		End Cap connector assembly (IP65)
SURF-RGB-LCH		Aluminum Linear Channel (3.28' L x 0.87"W x 0.54"H)
SURF-RGB-MC		Mounting Clip (1.38"L X 0.87"W X 0.54"H)
STICK-KE-2		DMX controller, 1024 channels. INDOOR USE ONLY (requires the use of the POWER4M power adapter)
POWER4M		6VDC, 0.65A power adapter for STICK-KE-2

Part Number	Image	Description
SURF-RGB-LCL-24V-F1M		Seamless injection-molded line cord end feed, factory installed (IP68) 3.28" Length F3M = 9.84' F5M = 16.40'
SURF-RGB-LCR-24V-F1M		Seamless injection-molded line cord end feed, factory installed (IP68) 3.28" Length F3M = 9.84' F5M = 16.40'
SURF-RGB-EC-F		Seamless injection-molded end cap, factory installed (IP68)
SURF-RGB-SJ-24V-F1M		12" Jumper cable from one end of the flex to another, factory molded
SURF-RGB-SJ-24V-SNAP		12" Jumper cable from one end of the flex to another, SNAP connector
RFX-DMX-CV-DECODER		Indoor 5050 RGB DMX decoder with RJ45 input, output 12-24V (needs DMX board, not included) INDOOR USE ONLY
RFX4B-3CH-RGB		DMX controller for sample purposes INDOOR USE ONLY

CUSTOM ORDERING EXAMPLE (NON-DIMMING, 32' RUN)

- Qty 1 SURF-RGB LED Ribbon Flex (SURF-RGB-32-24V)
- Qty 10 Linear Channel (SURF-RGB-LCH)
- Qty 1 Line Cord connector assembly (SURF-RGB-LCR-24V-F1M)
- Qty 1 End Cap (SURF-EC-F)
- Qty 1 RFX-DMX-CV-DECODER
- Qty 1 Driver (XFMR-24-150)
- Qty 1 DMX Controller (STICK KE-2) and Qty 1 POWER 4M poweradapter