



WHY JUST BE GREEN WHEN YOU CAN BE COLORFUL?

Model: _____ Date: _____
 Accessories: _____
 Job Name: _____ Type: _____

SURF-RGB

LED RIBBON FLEX

PRODUCT DESCRIPTION

The SURF 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 LED's far exceeds the normal ribbon flex lumen level. Extremely flexible, bends twists and coils depending on your needs.

APPLICATIONS

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

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°

LISTINGS

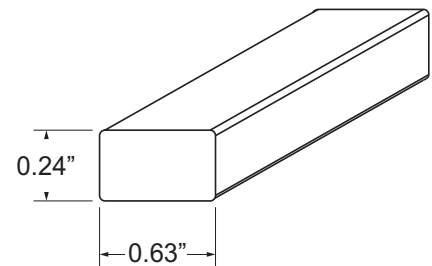
- UL2108/IP68/LM-79/LM-80/RoHS/CE/ Exceeds ANSI C78.377A
- California Title 24 Compliant
- IP65 or IP68 rated based on connectors used
- Operating temperature: -25°C to 60°C (-13°F to 140°F)

WARRANTY

- 3 Year and 5 Year Warranties available (Terms and conditions apply)



DIMENSIONS



For the complete line of specialtyLED® products, visit us online at barronitg.com.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

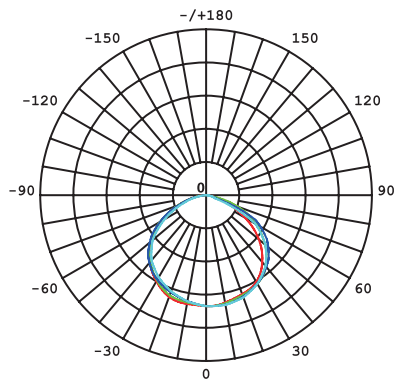
TECHNICAL / ILLUMINATION INFORMATION

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)

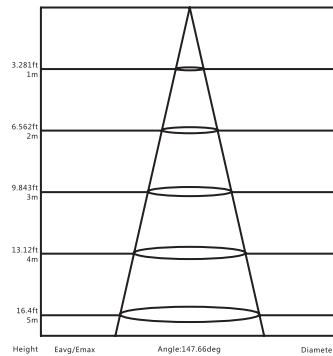
RGB ILLUMINATION INFORMATION

Color	Wavelength nm	Lumens lm/ft
RED	620-630	22.86
GREEN	520-530	56.39
BLUE	465-475	12.19
WHITE (R+G+B)		91.44

CANDLE POWER DISTRIBUTION



ILLUMINANCE CHARACTERISTICS



ORDERING INFORMATION

Example: SURF-RGB-65-24V

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

Notes

¹ Custom lengths ordered specific to product cutting increments

² Requires transformer, ordered separately

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

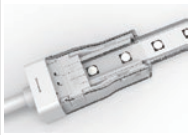
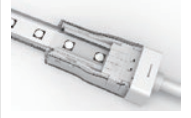



Example: XFMR-24-60

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	Part Number	Image	Description
SURF-LCL-LEFT-24V		Line Cord connector assembly left power feed (IP65)	SURF-RGB-LCL-FACTORY-24V		Seamless injection-molded line cord left end feed, factory installed (IP68)
SURF-RGB-LCR-RIGHT-24V		Line Cord connector assembly right power feed (IP65)	SURF-RGB-LCR-FACTORY-24V		Seamless injection-molded line cord right end feed, factory installed (IP68)
SURF-RGB-EC		End Cap connector assembly (IP65)	SURF-RGB-EC-FACTORY		Seamless injection-molded end cap, factory installed (IP68)
SURF-RGB-LCH		Aluminum Linear Channel (3.2' L x 0.6875" W x 0.5" H)	SURF-RGB-MLW		1.5' Jumper Cable from one end of the flex to another.
RFX-RGB-DMXCV-DECODER		Indoor 5050 RGB DMX decoder with RJ45 input, output 12-24V (needs DMX board, not included) INDOOR USE ONLY	SURF-RGB-T		T seamless connector.
NICOLAUDIE-POWER4M		6VDC, 0.65A power adapter for NICOLAUDIE-STICK-KE-1	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 SURF-RGB LED Ribbon Flex (SURF-RGB-32-24V)
- Qty 10 Linear Channel (SURF-RGB-LCH)
- Qty 1 Line Cord connector assembly (SURF-RGB-LC-RIGHT-24V)

- Qty 1 End cap connector assembly (SURF-RGB-EC)
- Qty 1 Transformer (XFMR-24-150)