

RGBW ECO Kit

RGBW ECO Tape Light Kits provide an easy, all-in-one solution for adding dynamic color and functional white illumination to indoor applications. Each kit includes a 16.4 ft. spool of RGBW ECO Tape Light, a 96W plug-in power supply and an inline controller, with an optional handheld remote for added control and convenience.

FEATURES

- Color-changing RGB illumination
- Dedicated white light output
- 16.4 ft. RGBW tape light spool
- Simple plug-in installation
- Inline or handheld control options

ORDERING CODES

	Kit	Voltage	Model	Color	Power Supply	Control	Accessory
DI							
	KIT (Kit)	24V (24V Volt)	ECO	RGBW (RGBW)	PG96 (Plug-In 96 Watt)	INL (Inline)	*blank* (None) REM (Remote)

Date _____

Project Notes _____



TAPE LIGHT SPECIFICATIONS

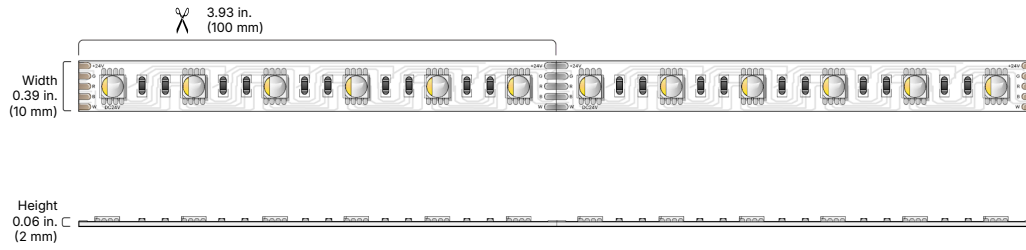
Voltage	24VDC
Wattage	4W/ft.
Wattage	All: 234 Lm/ft. Red: 35 Lm/ft. Green: 77 Lm/ft. Blue: 18 Lm/ft. 3000K: 106 Lm/ft.
Cut Points	3.93 in.
CRI	80
Max Run (ft.)	16.4 ft.
TM-21 (LM-80)	>50,000 hours
Environment	Indoor / Damp Location (IP20)
Lead Wire A	36 in. White Bare Lead 20/5 AWG UL 2464 Wire with Strain Relief
LED Chips	18/ft.
Chip Type	5050
Certification	UL Listed 2108
Limited Warranty	3 Year

POWER SUPPLY SPECIFICATIONS

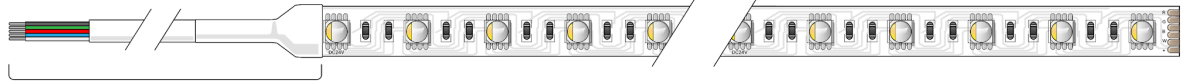
Input Voltage / Frequency	100-240V, 50-60 Hz
Efficiency	93% / PF>0.9
Ambient Temperature	-22 - 158°F (-30 - +70°C)
Operating Temperature	-4 - 122°F (-20 - +50°C)
Minimum Load	No Minimum Load
Dimmable	PWM
Input Connection Type	Wire
Lead Wire A	60 in. AC Cable with 1-15P Plug
Output Connection Type	Wire
Lead Wire B	60 in. Male DC Barrel Connector, 2.1 x 5.5mm
Internal Protection	Auto Reset Hiccup
Environment	Indoor / Damp Location (IP20)
Working Humidity	20 ~ 90% RH non-condensing
Certification	No
Limited Warranty	3 Year

MECHANICAL DIAGRAMS

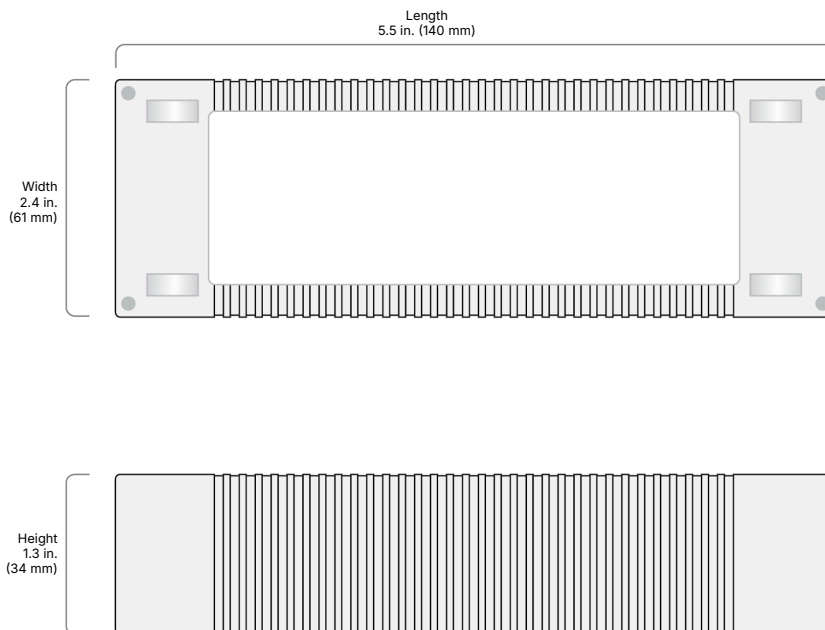
RGBW ECO



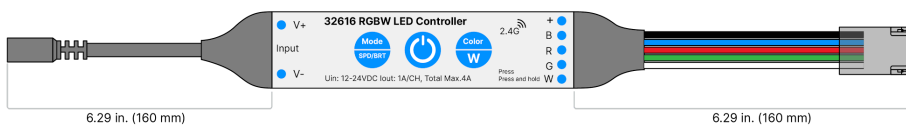
CONNECTIONS



POWER SUPPLY



Controller



CERTIFICATIONS

Safety

- UL Listed 2108 Low Voltage Lighting System / Low Voltage Luminaire. UL 1598 / CSA 250.0-08, UL 8750. UL 879 / CAN/CSA-C22.2 no. 207-M89. Certified for United States and Canada. File # E469769.
- UL Listed Field Cuttable.
- Approved for storage areas of clothes closets per NEC 410.16.A.3 and 410.16.C.5

Environment

- Ambient Temperature: -4 ~ 122°F (-20 ~ 50°C)
- Operating Temperature: -4 ~ 176°F (-20 ~ 80°C)

Performance

- LED chip data measured in accordance to IES LM-80-08.
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Elemental LED's Innovation Lab.

Safety / Warnings / Disclosures

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
4. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
5. Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Tape light and attached wire leads are field-cuttable.
6. Ensure applicable wire is installed between driver, fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
7. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
8. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
9. Do not install indoor LED tape light products in outdoor / wet location environments. Only wet location tape light models are rated for outdoor / wet locations.
10. Do not modify product beyond instructions or warranty will be void.
11. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
12. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
13. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

LIMITED WARRANTY

- 3 Year Limited Warranty

This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.diodeled.com/limited-warranty/ within the Policies section. For warranty related questions please contact product support.

Consumer's Acknowledgment

Elemental LED, Inc. stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and infield adjustments can have a significant impact on an entire system. Choosing the correct components is essential. Elemental LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Elemental LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Elemental LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgment that the products purchased are designed and configured correctly. The purchase agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Elemental LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Elemental LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Elemental LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.

- Lumen value measured in accordance to IES LM-79-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length. Max run may exceed Class 2 limit. Actual wattage may differ from calculated wattage due to voltage drop across run.
- Do not install product in an environment outside the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, lumen output, and/or adversely impact color consistency.
- Actual efficacy value is dependent to specified LED driver (power supply). An estimated efficacy value can be calculated as follows: Lumen value divided by average power consumption per foot.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment.