

LINEARlight FLEX® Top Colormix

Flexible Colormixing LED Module



The new improved LINEARlight FLEX Top Colormix module is now available in low brightness (ECO®) and high brightness (Architectural) versions in 13.1-ft and 19.7-ft reels respectively. The Architectural version is 33% higher brightness than the original product; the ECO version provides similar brightness to its predecessor. Its narrower board width of 8mm (previously 11.25mm) and the flexibility to cut every 5 LEDs at designated cut points allows for flexibility in luminaire design. The major benefit is the ability to supply uninterrupted power from a single feed point through the entire 13.1-ft or 19.7-ft module. These products are optimally paired for operation on OPTOTRONIC® 24Vdc power supplies and controls and are covered by a 5-year system warranty.

Key Features & Benefits

- Flexible circuit board with self-adhesive backing allows for easy installation in complex contours
- Low profile module enables mounting in compact spaces
- Each Multi LED contains an individually powered red, green and blue chip; this unique method of colormixing achieves excellent color consistency and uniformity
- Modules can be field cut every 5 LEDs to achieve a customized fit
- LEDs are closely spaced to minimize hot spots in shallow installations
- Dimmable by pulse width modulation, a method that maintains consistent lumen output and color
- Two versions are available:
 - Architectural: Higher lumens
 - ECO: lower wattage, longer runs

Product Offering

Ordering Abbreviation	Wattage
L72LFE/24V/RGB3/A/13FT	72
L39LFE/24V/RGB1/E/20FT	39

Application Information

Applications

- Accent lighting
- Colormixing
- Controlled color sequencing
- Cove lighting
- Custom color applications
- Edge lighting

Specifications and Certifications



This light source meets restrictions on hazardous substances.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	Date

Ordering Information

Item Number	Ordering Abbreviation	Module Length	No. of LEDs	Power* (W)	Voltage (Vdc)	Current (Amps)	Wavelength	Initial Lumens	Watts/ft.
70096	L72LFE/24V/RGB3/A/13FT	13.1 ft.	200						
	Red Channel			26.7	24	1.1	625nm	447	2.0
	Green Channel			37.9	24	1.6	525nm	1170	2.9
	Blue Channel			7.5	24	0.3	465nm	90	0.6
70097	L39LFE/24V/RGB1/E/20FT	19.7 ft.	200						
	Red Channel			16.1	24	0.7	617nm	298	0.8
	Green Channel			18.6	24	0.8	525nm	724	1.0
	Blue Channel			4.4	24	0.2	465nm	57	0.2

*All data is related to entire module measured at Tc point of 25°C. Data reflects statistical mean values. Actual data may differ depending on variances in the manufacturing process. End users need to take into account the lumen depreciation as the temperature rises with various thermal management solutions installed.

Ordering Guide

L	72	L	F	E	/	24V	/	RGB3	/	A	/	13FT
LED	Wattage	Linear	Flexible	Engine		Voltage		Colormix Red, Green, Blue		Style A=Architectural E=ECO		Length

Power Supply Information

	70096				70097			
	Max. feet	# of parallel branches required	Max. feet per branch	Max. SEU's per branch	Max. feet	# of parallel branches required	Max. feet per branch	Max. SEU's per branch
OT 20W (51512)	3.6	1	3.6	11	9.6	1	9.6	20
OT 50W (51598)	9.1	1	9.1	28	25.2	2	19.7;5.5	40;11
OT 75W (51514)	13.1	1	13.1	40	37.9	2	19.7;18.2	40;37
OT 96W (51510, 51626)	17.5	2	13.1;4.4	40;13	48.5	3	19.7;19.7;9.1	40;40;18
OT 240W (51627)*	14.4 (x3)	2 (x3)	13.1;1.3 (x3)	40;4	38.4 (x3)	2 (x3)	19.7;19.7 (x3)	40;40 (x3)

*The OT240 has 3 output channels. Data is given for loading one 80W channel only.

Minimum and Maximum Ratings

Parameter	Values
Operating Temperature at Tc point	-30 to +75°C (-22 to +162°F)
Storage Temperature Range	-40 to +85°C (-40 to +185°F)
Voltage Range	23 – 25Vdc
Reverse Voltage	25Vdc

Notes:

- Exceeding maximum ratings may damage the LED module and pose potential safety hazards.
- Elevated operating temperatures can be expected to negatively impact the service life in terms of lumen output.
- Incorrect wiring may damage the LED module.
- Not intended for use with constant current power supplies.

Accessories

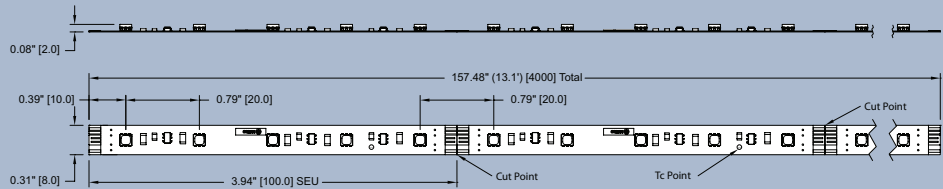


Item Number	Ordering Abbreviation	Description	Length (in.)	AWG	Order Qty.
70309	LAC-C/FT2/IC/4P/20IN	Input Connector	19.7	24	10
71429	LAC-C/TP/BB/2P/10mm	Board to Board Connector	0.39	30	10
71237	LAC-T/LNRLT/P/5FT	Prismatic Mounting Track	56	-	6
71239	LAC-T/LNRLT/D/5FT	Diffused Mounting Track	56	-	6

Assembly Diagram

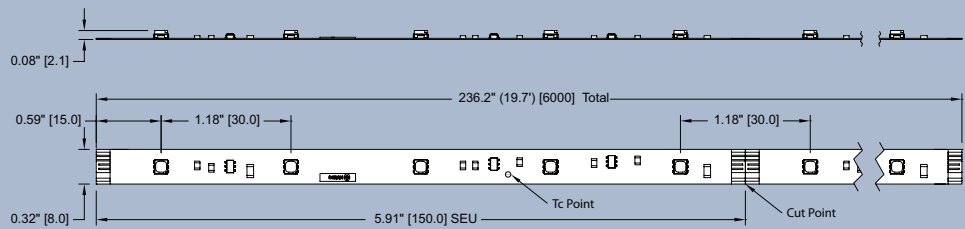
1. Architectural Version

Size of entire module (L x W x H)
157" x 0.31" x 0.12"

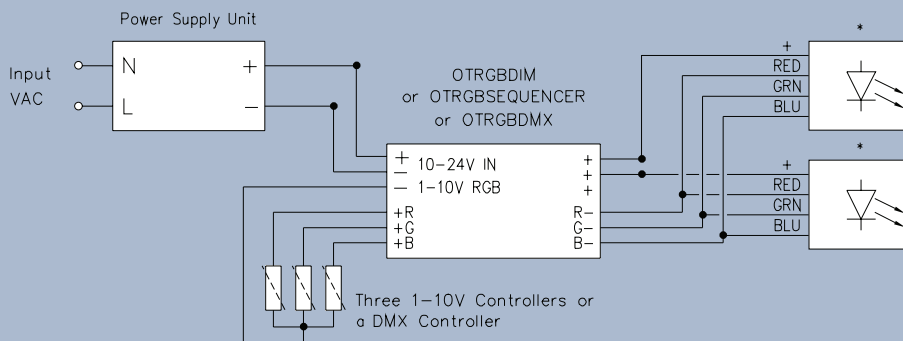


2. ECO Version

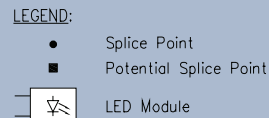
Size of entire module (L x W x H)
236" x 0.31" x 0.12"



Wiring Diagram



All input Connections to be made in parallel
 * Denotes maximum length of LED run per branch as indicated in "Power Supply Information" section:
 • Architectural version- Maximum 13.1 ft (1 full reel) per power branch
 • ECO version - Maximum 19.7 ft (1 full reel) per power branch



Safety Information

WARNING: ONLY QUALIFIED PERSONNEL SHOULD PERFORM INSTALLATION.

TO AVOID ELECTRICAL SHOCK OR COMPONENT DAMAGE, DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OF THE POWER SUPPLIES AND/OR MODULES.

Failure to install the power supplies and/or LED modules in accordance with the National Electric Code (NEC), all applicable Federal, State and local electric codes as well as the specific Underwriters Laboratories (UL) safety standards for the installation, location and application may cause serious personal injury, death, property damage and/or product malfunction.

1. The LED module itself and all its components shall not be subjected to mechanical stress and assembly must not damage or destroy conducting paths on the circuit board.
2. Installation of LED modules shall be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
3. Observe correct electrical polarity, incorrect polarity may destroy the module. (For more information, reference document # LED093 ESD Protection for LED Systems.)
4. Electrostatic Discharge (ESD) precautions shall be incorporated when handling or installing the module.
5. Modules may be hot to the touch. Use caution when handling.

Assembly Information

1. Installation of the LINEARlight FLEX® Top Colormix module must provide for thermal management to avoid premature failure of the product and to obtain expected service life. Service life (i.e. lumen depreciation) is primarily a function of LED temperature which is to be monitored on the circuit board at the designated Tc point temperature of 40°C which should be sufficient to enable a service life of 50,000 hours.
2. In general, the LINEARlight FLEX Top Colormix module should be adhered to a flat, metal surface which has enough surface area to transfer the heat from the LED to the surrounding air. The metal surface can be part of the mass of the fixture itself.
3. The module should be attached securely to the intended substrate. To aid in installation, the module incorporates an adhesive backing, but screws or rivets are recommended to ensure a permanent fix. Do not over-tighten. Heavy vibration should be avoided.
4. The minimum bending radius is 2cm. The module may be bent over a smaller radius but only in regions of the circuit board containing no electronic components. Such bends should be made only once and fixed in position to avoid cyclic fatigue.

WARNING: The low voltage secondary circuit shall not be grounded.

This information shall not supersede the requirement to follow all other safety, assembly and any other instructions listed in this document.

Installation of LED modules shall be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.

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Specifications subject to change without notice.

Warranty

SYLVANIA LED products are covered by our LED Module, OPTOTRONIC® Power Supply or Control Warranty.

The LINEARlight FLEX Colormix module is covered under warranty as long as the temperature at the Tc point does not exceed 40°C; exceeding this temperature will void all warranties.

For additional information or to download the warranty registration form, refer to the latest version of the warranty available in the Literature section of www.sylvania.com/LED

Module Warranty: 3 years
System Warranty: 5 years

German Part Numbers

70096 = LF05CA = RGB3

70097 = LF05CE = RGB1

70309 = LF-4PIN Flex

71429 = LF-CONN-10 Flex

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