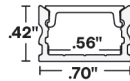
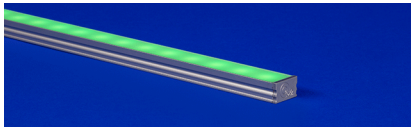




ESSENTIALS LALO-FLAT (01) RGB

24VDC Linear Fixtures - Surface & Recessed



- Shallow, low-profile fixture for surface or recessed installations
- Choose from diffused, polar, frosted, or clear lens options for varying diode visibility and beam angles
- Three mounting options
- Features painted end caps to match extrusion finish
- Can be suitable for exterior use when specified as wet, contact factory for more information
- Red, Green, and Blue LED allows for color changing applications
- Features 7 diodes per 2" cut point

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1	2	3	4	5	6
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS
LL1RGB	6.0	RGB		STD	

ADDITIONAL INFORMATION REQUIRED TO ORDER

7	8	9	10	11	12	13	14	15
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL

Sample Part Number: LL1RGB-6.0-RGB-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E

1 PRODUCT LL1RGB See following pages for compatible power supplies.	2 WATTS/FT 6.0 6.0W/ft	3 CCT RGB	4 RATED DRY IP20 DMP IP54 WET IP67 Can be suitable for exterior use, contact factory for more information	5 EFFICIENCY STD Standard	6 LENS DF Diffused PR Polar FR Frosted CL Clear For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages			
7 WIRE INPUT/OUTPUT SINGLE (Input only) S1 End Feed S2 Bottom Feed For continuous mounting, consider bottom feed. PASS THROUGH (Input/output) P1 End Feed P2 Bottom Feed For continuous mounting, consider bottom feed.	8 CONNECTOR/WIRE IN BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48) BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)	9 CONNECTOR/WIRE OUT CLS Closed End (No feed) BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)	10 WIRE COLOR WH White BK Black	11 WIRE TYPE CL2 Class 2 CL2P Plenum Rated CL2P only available with bare wire leads (BW)	12 MOUNTING SST Stainless Steel M4 Low Profile Magnet MG Magnet	13 FINISH ST Satin BK Black CU Custom	14 LENGTH (IN) Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".	15 EXACT/OPTIMAL O Optimal Illumination E Exact Specified Length Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.

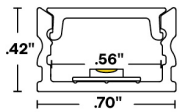
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



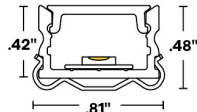
ESSENTIALS LALO-FLAT (01) RGB

24VDC Linear Fixtures - Surface & Recessed

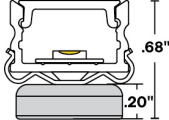
1 PRODUCT - DIMENSIONS



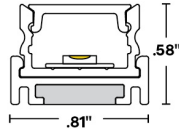
Profile with flat lens



Profile with flat lens and stainless steel mounting clip



Profile with flat lens and magnet mounting clip



Profile with flat lens and low profile magnet

2 DELIVERED LUMENS

[Calculated L70 = 55000 hrs]
Tested with LL1RGB-6.0-RGB-DRY-STD

	Red		Green		Blue		All
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	
CL	79	633	159	523	45	469	256
FR	79	633	159	523	45	469	255
PR	71	633	143	523	40	469	230
DF	64	633	128	523	36	469	206

6 DIODE VISIBILITY

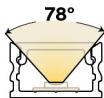


- DF - Diffused lens
- PR - Polar lens
- FR - Frosted lens
- CL - Clear lens

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

CL



Clear 78°

TEMPERATURE RATINGS

		6.0 W/FT	
		Min	Max
DRY	Ambient Operating Temp - Surface	-13°F	105°F
DMP	Ambient Operating Temp - Surface	-13°F	-100°F
WET	Ambient Operating Temp - Surface	-13°F	-100°F

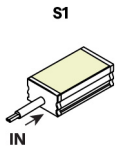


ESSENTIALS LALO-FLAT (01) RGB

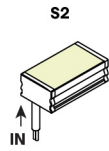
24VDC Linear Fixtures - Surface & Recessed

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

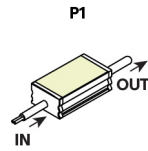


End Feed

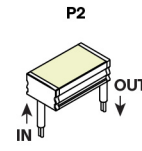


Bottom Feed

PASS THROUGH (Input/Output)

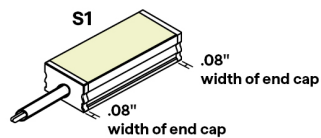


End Feed

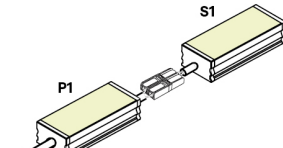


Bottom Feed

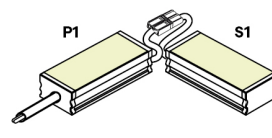
CONFIGURATION OPTIONS



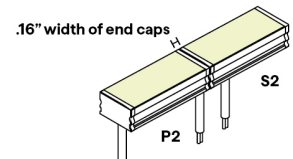
Single End Feed



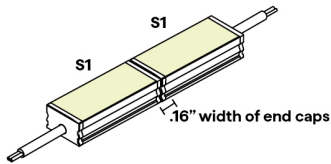
Connection by others
Non-Continuous End Feed



Connection by others
Non-Continuous Corner Feed



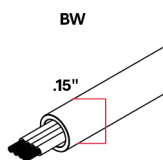
Continuous Bottom Feed



Continuous End to End Feed

8 / 9 CONNECTOR/WIRE - IN/OUT

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



Bare Wire 24"
22 AWG



6" or 24" Overall
Wire Connector | 24 AWG
IP67 Rated, UL Listed

10 WIRE COLOR



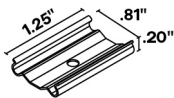


ESSENTIALS LALO-FLAT (01) RGB

24VDC Linear Fixtures - Surface & Recessed

12 MOUNTING

SST



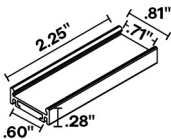
Stainless Steel Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use SST-01

Each clip comes with a #4 x 5/8" Flat Head SS

M4

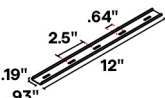


Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04



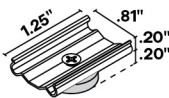
Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

MG

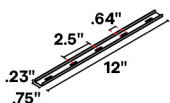


Magnet Clip

One MG provided per foot

To order separately use MG-01

MMA-01



Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

13 FINISH



Satin

Black

Custom finishes require a longer lead time, consult factory

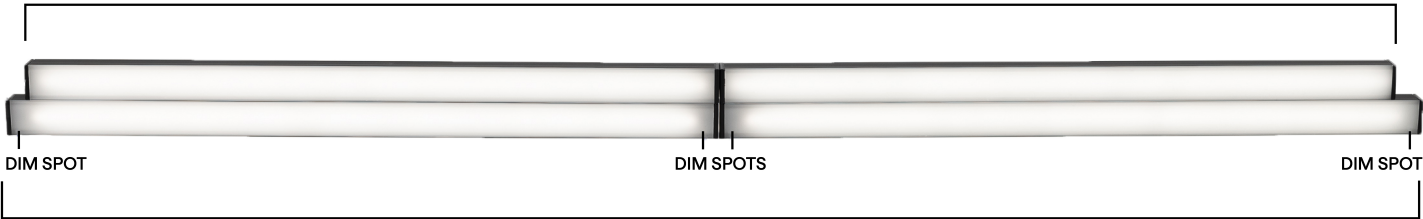
15 EXACT/OPTIMAL FIXTURE LENGTH

[E/O Length Calculator →](#)

[E/O Explained →](#)

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

Optimal Fixtures



Exact Fixtures



ESSENTIALS LALO-FLAT (01) RGB

24VDC Linear Fixtures - Surface & Recessed

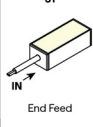
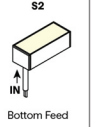
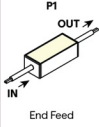
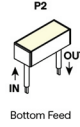
RGB DRY, DMP LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 - 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2		P1 & P2	
				
12"		10.51"		10.86"
13"		12.51"		12.86"
14"		12.51"		12.86"
15"		14.51"		14.86"
16"		14.51"		14.86"
17"		16.51"		16.86"
18"		16.51"		16.86"
19"		18.51"		18.86"
20"		18.51"		18.86"
21"		20.51"		20.86"
22"		20.51"		20.86"
23"		22.51"		22.86"
24"		22.51"		22.86"
36"		34.51"		34.86"
48"		46.51"		46.86"
60"		58.51"		58.86"
72"		70.51"		70.86"
84"		82.51"		82.86"
96"		94.51"		94.86"

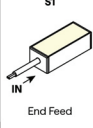
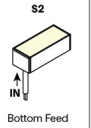
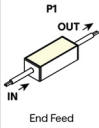
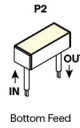
RGB WET LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 - 1/8". Consult factory for lengths under 12".

EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2		P1 & P2	
				
12"		10.66"		11.06"
13"		12.66"		11.06"
14"		12.66"		13.06"
15"		14.66"		13.06"
16"		14.66"		15.06"
17"		16.66"		15.06"
18"		16.66"		17.06"
19"		18.66"		17.06"
20"		18.66"		19.06"
21"		20.66"		19.06"
22"		20.66"		21.06"
23"		22.66"		21.06"
24"		22.66"		23.06"
36"		34.66"		35.06"
48"		46.66"		47.06"
60"		58.66"		59.06"
72"		70.66"		71.06"
84"		82.66"		83.06"
96"		94.66"		95.06"



ESSENTIALS LALO-FLAT (01) RGB

24VDC Linear Fixtures - Surface & Recessed



COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR	OUTDOOR
	RGB	RGB
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT8 QOM-eLED+DMX QOM-eLED+PS-DALI-DT8 QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8
10%	Non-Dim Power Supply with RGB App Dongle	

DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGB	RGB
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGB App Dongle	

COMPATIBLE MOUNTING ACCESSORIES

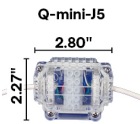
HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M
 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium
HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M
 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium
HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M	HINGE - HMB-M
 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"	 1.41" .71"
Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium	Adjustable mounting bracket - Medium



ESSENTIALS LALO-FLAT (01) RGB

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE WIRING ACCESSORIES



UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity

IQ-DMX-STICK-GA2



DMX controller for changing color & dimming

IQ-DMX-STICK-DE3



DMX controller for changing color & dimming

COMPATIBLE APPS

NFC APP



Read and write DMX addresses and adjust voltage