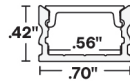
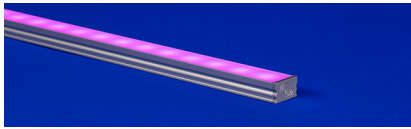




# ESSENTIALS LALO-FLAT (01)

## RGBW

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 paired with a specifiable white LED allow for color changing applications

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PRODUCT	WATTS/FT	CCT	RATED	EFFICIENCY	LENS	EXTERNAL LOUVER	WIRE INPUT/ OUTPUT	CONNECTOR / WIRE IN	CONNECTOR / WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL
				STD											

Sample Part Number: **LL1RGBW-6.0-30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

<div>1</div> <div>PRODUCT</div> <div>LL1RGBW</div> <div>See following pages for compatible power supplies.</div>	<div>2</div> <div>WATTS/FT</div> <div>6.06.0W/ft</div>	<div>3</div> <div>CCT</div> <div>27RGBW-2700K 30RGBW-3000K</div>	<div>4</div> <div>RATED</div> <div>DRYIP20 DMPIP54</div>	<div>5</div> <div>EFFICIENCY</div> <div>STDStandard</div>	<div>6</div> <div>LENS</div> <div>DFDiffused PRPolar FRFrosted CLClear</div> <div>For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages</div>	<div>7</div> <div>EXTERNAL LOUVER</div> <div>L1-WHWhite Plastic L1-BKBlack Plastic N/ANo Louver</div> <div>Louvers are shipped separately and require field assembly</div>
<div>LL1RGBW</div>	<div>4.0HE4.0W/ft HE</div>	<div>27RGBW-2700K 30RGBW-3000K 35RGBW-3500K 40RGBW-4000K</div>	<div>DRYIP20 DMPIP54 WETIP67</div> <div>Can be suitable for exterior use, contact factory for more information</div>			
<div>8</div> <div>WIRE INPUT/OUTPUT</div> <div>S1Single 1 (Input only) - End Feed S2Single 2 (Input only) - Bottom Feed</div> <div>For continuous mounting, consider bottom feed.</div>	<div>9</div> <div>CONNECTOR/WIRE IN</div> <div>BWBare Wire (Standard 24") CON6Connector 6" CON24Connector 24"</div> <div>Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div>	<div>10</div> <div>CONNECTOR/WIRE OUT</div> <div>CLSClosed End (No feed)</div>	<div>11</div> <div>WIRE COLOR</div> <div>WHWhite BKBlack</div>			
<div>P1Pass Through 1 (Input/output) - End Feed P2Pass Through 2 (Input/output) - Bottom Feed</div> <div>For continuous mounting, consider bottom feed.</div>	<div>BWBare Wire (Standard 24") CON6Connector 6" CON24Connector 24"</div> <div>Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div>	<div>BWBare Wire (Standard 24") CON6Connector 6" CON24Connector 24"</div> <div>Connector/Wire Out not needed to specify product. Typical selection is CLS or BW. BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div>				
<div>12</div> <div>WIRE TYPE</div> <div>CL2Class 2 CL2PPlenum Rated</div> <div>CL2P only available with bare wire leads (BW)</div>	<div>13</div> <div>MOUNTING</div> <div>SSTStainless Steel M4Low Profile Magnet MGMagnet</div>	<div>14</div> <div>FINISH</div> <div>STSatin BKBlack CUCustom</div>	<div>15</div> <div>LENGTH (IN)</div> <div>Fixture length min 12", max 98.43" not including end caps. Tolerance +0 – 1/8". Consult factory for lengths under 12".</div>	<div>16</div> <div>EXACT/OPTIMAL</div> <div>OOptimal Illumination EExact Specified Length</div> <div>Exact fixtures are the exact length specified +0 – 1/8". Optimal fixtures' length is rounded down with illumination end to end. See Exact/Optimal Fixture Length charts.</div>		

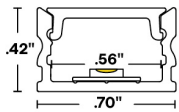
5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies



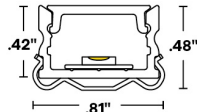
# ESSENTIALS LALO-FLAT (01) RGBW

24VDC Linear Fixtures - Surface & Recessed

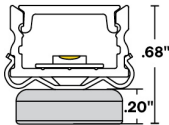
## 1 PRODUCT - DIMENSIONS



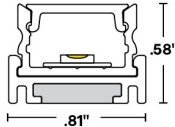
Profile with flat lens



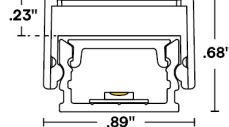
Profile with flat lens and stainless steel mounting clip



Profile with flat lens and magnet mounting clip



Profile with flat lens and low profile magnet



Profile with flat lens and plastic louver

## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]  
Tested with LL1RGBW-\*\*-30-DRY-STD

	6.0 W/FT								4.0HE W/FT							
	Red		Green		Blue		3000K		Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
CL	36	631	97	513	29	464	124	93	32	629	121	516	26	465	74	97
FR	36	631	97	513	29	464	123	93	31	629	120	516	26	465	74	97
PR	33	631	87	513	26	464	111	93	28	629	108	516	23	465	67	97
DF	29	631	78	513	24	464	100	93	25	629	97	516	21	465	60	97

## 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.



Clear 78°

## TEMPERATURE RATINGS

		6.0 W/FT		4.0 HE W/FT	
		Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	115°F	-4°F	125°F
DMP	Ambient Operating Temp - Surface	-4°F	110°F	-4°F	120°F
WET	Ambient Operating Temp - Surface	**	**	-4°F	120°F

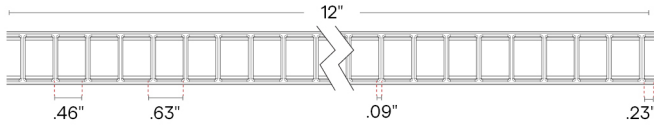


# ESSENTIALS LALO-FLAT (01) RGBW

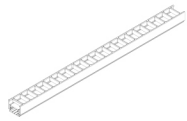
24VDC Linear Fixtures - Surface & Recessed

## 7 EXTERNAL LOUVER

PLASTIC



L1-XX



Lumen Multiplier

WH

BK

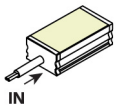
0.72

0.53

## 8 WIRE INPUT/OUTPUT

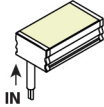
SINGLE (Input only)

S1



End Feed

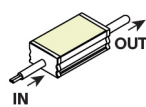
S2



Bottom Feed

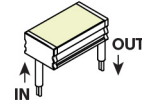
PASS THROUGH (Input/Output)

P1



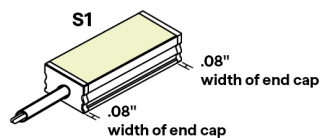
End Feed

P2

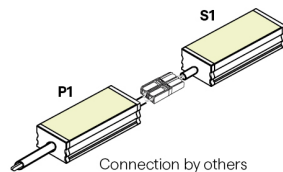


Bottom Feed

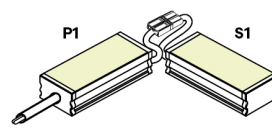
## CONFIGURATION OPTIONS



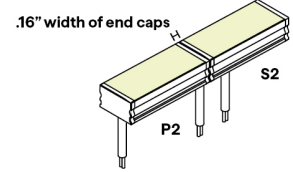
Single End Feed



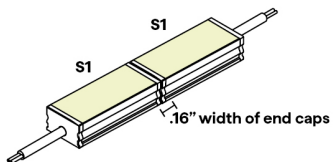
Connection by others  
Non-Continuous End Feed



Connection by others  
Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

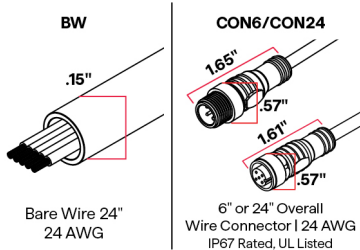


# ESSENTIALS LALO-FLAT (01) RGBW

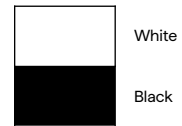
24VDC Linear Fixtures - Surface & Recessed

## 9 / 10 CONNECTOR/WIRE - IN/OUT

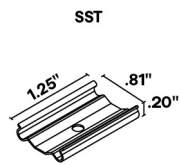
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



## 11 WIRE COLOR



## 13 MOUNTING

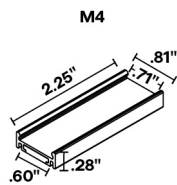


Stainless Steel Clip

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

To order separately use SST-01

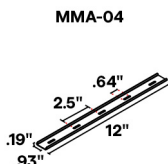
Each clip comes with a #4 x 5/8" Flat Head SS



Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

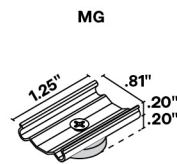


Magnet Mount  
Accessory for M4

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



Magnet Clip

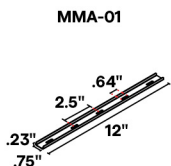
One MG provided per foot

To order separately use MG-01

## 14 FINISH



Custom color available



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



# ESSENTIALS LALO-FLAT (01) RGBW

24VDC Linear Fixtures - Surface & Recessed

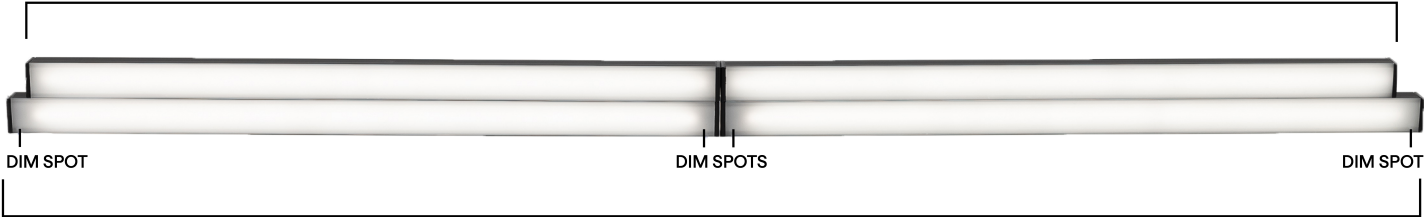
## 16 EXACT/OPTIMAL FIXTURE LENGTH

[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

## RGBW 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"	2"
13"	0.5"
14"	1"
15"	1.5"
16"	2"
17"	0.5"
18"	1"
19"	1.5"
20"	2"
21"	0.5"
22"	1"
23"	1.5"
24"	2"
36"	2"
48"	2"
60"	2"
72"	2"
84"	2"
96"	2"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2		P1 & P2	
	S1 End Feed	S2 Bottom Feed	P1 End Feed	P2 Bottom Feed
12"		8.51"		8.86"
13"		12.51"		12.86"
14"		12.51"		12.86"
15"		12.51"		12.86"
16"		12.51"		12.86"
17"		16.51"		16.86"
18"		16.51"		16.86"
19"		16.51"		16.86"
20"		16.51"		16.86"
21"		20.51"		20.86"
22"		20.51"		20.86"
23"		20.51"		20.86"
24"		20.51"		20.86"
36"		32.51"		32.86"
48"		44.51"		44.86"
60"		56.51"		56.86"
72"		68.51"		68.86"
84"		80.51"		80.86"
96"		92.51"		92.86"



# ESSENTIALS LALO-FLAT (01) RGBW

24VDC Linear Fixtures - Surface & Recessed

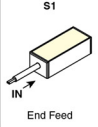
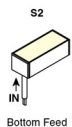
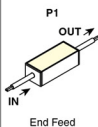
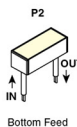
## RGBW-HE DRY, DMP LENGTHS BY INCH

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"		10.41"		10.66"
13"		12.41"		12.66"
14"		12.41"		12.66"
15"		14.41"		14.66"
16"		14.41"		14.66"
17"		16.41"		16.66"
18"		16.41"		16.66"
19"		18.41"		18.66"
20"		18.41"		18.66"
21"		20.41"		20.66"
22"		20.41"		20.66"
23"		22.41"		22.66"
24"		22.41"		22.66"
36"		34.41"		34.66"
48"		46.41"		46.66"
60"		58.41"		58.66"
72"		70.41"		70.66"
84"		82.41"		82.66"
96"		94.41"		94.66"

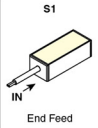
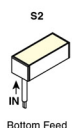
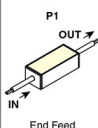
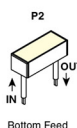
## RGBW-HE WET LENGTHS BY INCH

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"		10.61"		10.76"
13"		12.61"		12.76"
14"		12.61"		12.76"
15"		14.61"		14.76"
16"		14.61"		14.76"
17"		16.61"		16.76"
18"		16.61"		16.76"
19"		18.61"		18.76"
20"		18.61"		18.76"
21"		20.61"		20.76"
22"		20.61"		20.76"
23"		22.61"		22.76"
24"		22.61"		22.76"
36"		34.61"		34.76"
48"		46.61"		46.76"
60"		58.61"		58.76"
72"		70.61"		70.76"
84"		82.61"		82.76"
96"		94.61"		94.76"



# ESSENTIALS LALO-FLAT (01) RGBW

24VDC Linear Fixtures - Surface & Recessed


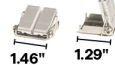





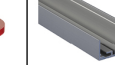
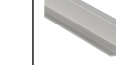
## COMPATIBLE POWER SUPPLIES

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

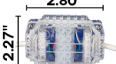

DIM TO LEVEL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
0.1%	QT-CAB-eLED+DMX QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
1%	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	

DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
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 RGBW App Dongle	




## COMPATIBLE MOUNTING ACCESSORIES

<b>HINGE - HMB-M</b>  1.41" .71" Adjustable mounting bracket - Medium	<b>HINGE - HMB-L</b>  1.46" 1.29" Adjustable mounting bracket - Large	<b>HINGE - HMB-XL</b>  1.46" 4" Adjustable mounting bracket - XLarge	<b>Q-PIVOT</b>  .75" 1.03" Small mounting accessory	<b>Q-ANGLE</b>  2.23" 1.38" Adjustable mounting accessory	<b>QUOVA-STANDARD</b>  QUOVA Knife Edge	<b>VHB</b>  Double sided mounting tape	<b>NJ-MEDIUM</b>  J Mounting Bracket	<b>SD-L-MEDIUM</b>  L Mounting Bracket
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## COMPATIBLE WIRING ACCESSORIES

<b>Q-mini-J5</b>  2.80" 2.27" UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	<b>CON120-EXT</b>  10ft Con cable extender DRY/DMP/WET
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## COMPATIBLE CONTROL ACCESSORIES

<b>SCENE APP DONGLE</b>  1.36" 2.58" Wi-Fi or Bluetooth Connectivity	<b>IQ-DMX-STICK-GA2</b>  DMX controller for changing color & dimming	<b>IQ-DMX-STICK-DE3</b>  DMX controller for changing color & dimming
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