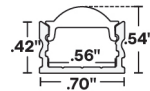
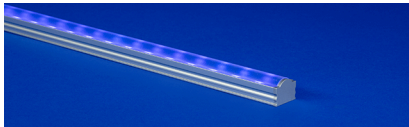




ESSENTIALS LALO-OPTICS (02)

RGBW

24VDC Linear Fixtures - Surface & Recessed



- Shallow, low-profile linear fixture for surface or recessed installations
- Produces a 17° beam angle
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- Features painted end caps to match extrusion finish
- 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
LL2RGBW	6.0			STD	17DEG										

Sample Part Number: **LL2RGBW-6.0-30-DRY-STD-17-P1-BW-BW-BK-CL2-SST-BK-48"-E**

<div><div>1</div><div>PRODUCT</div></div> <div>LL2RGBW</div> <div>See following pages for compatible power supplies.</div>	<div><div>2</div><div>WATTS/FT</div></div> <div>6.06.0W/ft</div>	<div><div>3</div><div>CCT</div></div> <div>27RGBW-2700K 30RGBW-3000K</div>	<div><div>4</div><div>RATED</div></div> <div>DRYIP20 DMPIP54</div>	<div><div>5</div><div>EFFICIENCY</div></div> <div>STDStandard</div>	<div><div>6</div><div>LENS</div></div> <div>17DEGOptical 17°</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><div>7</div><div>EXTERNAL LOUVER</div></div> <div>L1-WHWhite Plastic L1-BKBlack Plastic N/ANo Louver</div> <div>Louvers are shipped separately and require field assembly</div>
<div><div>8</div><div>WIRE INPUT/OUTPUT</div></div> <div>S1Single 1 (Input only) - End Feed S2Single 2 (Input only) - Bottom Feed</div> <div>For continuous mounting, consider bottom feed.</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><div>9</div><div>CONNECTOR/WIRE IN</div></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 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><div>10</div><div>CONNECTOR/WIRE OUT</div></div> <div>CLSClosed End (No feed)</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><div>11</div><div>WIRE COLOR</div></div> <div>WHWhite BKBlack</div>			
<div><div>12</div><div>WIRE TYPE</div></div> <div>CL2Class 2 CL2PPlenum Rated</div> <div>CL2P only available with bare wire leads (BW)</div>	<div><div>13</div><div>MOUNTING</div></div> <div>SSTStainless Steel M4Low Profile Magnet MGMagnet</div>	<div><div>14</div><div>FINISH</div></div> <div>STSatin BKBlack CUCustom</div>	<div><div>15</div><div>LENGTH (IN)</div></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><div>16</div><div>EXACT/OPTIMAL</div></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>		

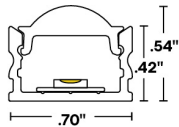
5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies



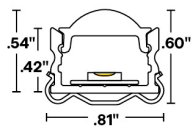
ESSENTIALS LALO-OPTICS (02) RGBW

24VDC Linear Fixtures - Surface & Recessed

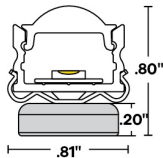
1 PRODUCT - DIMENSIONS



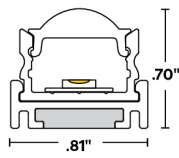
Profile with optical lens



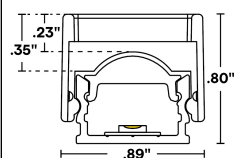
Profile with optical lens and stainless steel mounting clip



Profile with optical lens magnet mounting clip



Profile with optical lens and low profile magnet



Profile with optical lens and plastic louver

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with LL2RGBW-**-30-DRY-STD

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
17	40	631	106	513	32	464	135	93

6 DIODE VISIBILITY

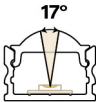


Optical lens

PHOTOMETRIC PERFORMANCE

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

17DEG



Optical 17°

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

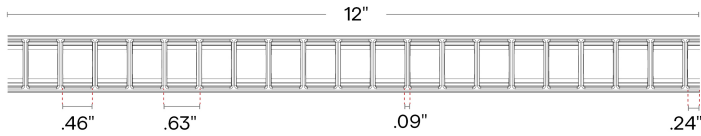


ESSENTIALS LALO-OPTICS (02) RGBW

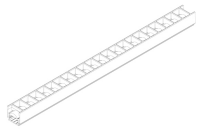
24VDC Linear Fixtures - Surface & Recessed

7 EXTERNAL LOUVER

PLASTIC



L1-XX



Lumen Multiplier

WH

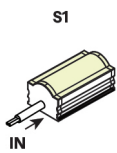
BK

0.72

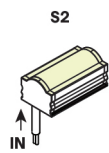
0.53

8 WIRE INPUT/OUTPUT

SINGLE (Input only)

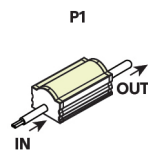


End Feed

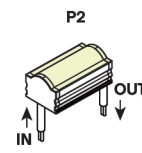


Bottom Feed

PASS THROUGH (Input/Output)

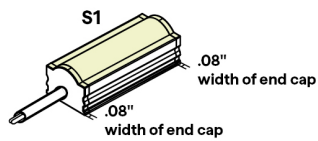


End Feed

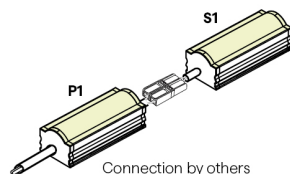


Bottom Feed

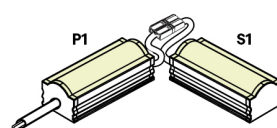
CONFIGURATION OPTIONS



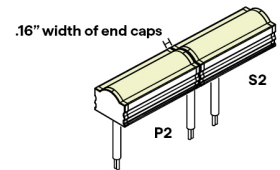
Single End Feed



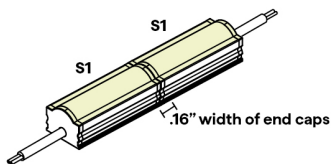
Connection by others
Non-Continuous End Feed



Connection by others
Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

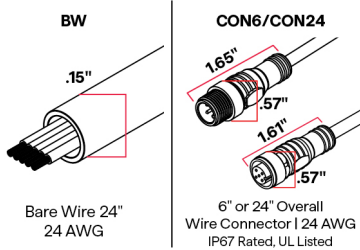


ESSENTIALS LALO-OPTICS (02) RGBW

24VDC Linear Fixtures - Surface & Recessed

9 / 10 CONNECTOR/WIRE - IN/OUT

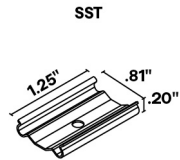
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



11 WIRE COLOR



13 MOUNTING

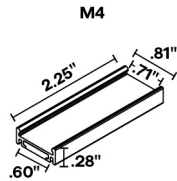


Stainless Steel Clip

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

To order separately use SST-01

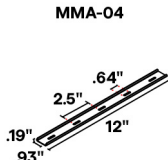
Each clip comes with a #4 x 5/8" Flat Head SS



Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

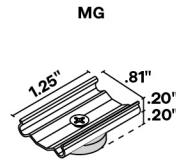


Magnet Mount
Accessory for M4

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

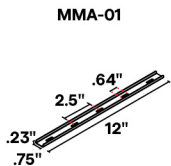
One MG provided per foot

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-OPTICS (02) RGBW

24VDC Linear Fixtures - Surface & Recessed

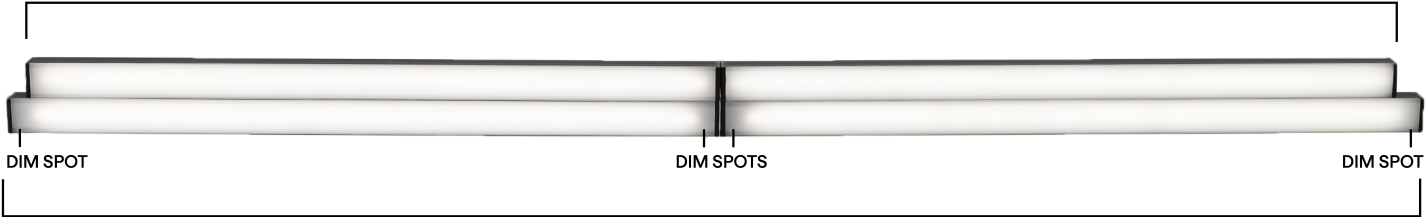
16 EXACT/OPTIMAL FIXTURE LENGTH

[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 IN End Feed	S2 IN Bottom Feed	P1 IN End Feed	P2 IN 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"

COMPATIBLE POWER SUPPLIES

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

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



ESSENTIALS LALO-OPTICS (02) RGBW

24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR
	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M

1.41" .71"

Adjustable mounting bracket - Medium

HINGE - HMB-L

1.46" 1.29"

Adjustable mounting bracket - Large

HINGE - HMB-XL

4" 1.46"

Adjustable mounting bracket - XLarge

Q-PIVOT

.75" 1.03"

Small mounting accessory

Q-ANGLE

2.23" 1.38"

Adjustable mounting accessory

VHB

Double sided mounting tape

NU-GRAZER

U Mounting Bracket

NJ-GRAZER

J Mounting Bracket

BL-GRAZER

Backwards L Mounting Bracket

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80" 2.27"

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

CON120-EXT

10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36" 2.58"

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