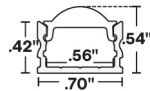
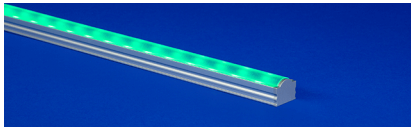




ESSENTIALS LALO-OPTICS (02)

RGB

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
- 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
- Optional plastic louver accessory available in white or black for added glare control

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

| 1 | 2 | 3 | 4 | 5 | 6 |
|---------|-----------|-----|-------|------------|-------|
| PRODUCT | WATTS/ FT | CCT | RATED | EFFICIENCY | LENS |
| LL2RGB | 6.0 | RGB | | STD | 17DEG |

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: LL2RGB-6.0-RGB-STD-17-P1-BW-BW-BK-CL2-SST-BK-48"-E

| | | | | | |
|--|--|--|---|---|--|
| 1 PRODUCT LL2RGB 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 17DEG Optical 17° For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages. For optional snap-on louver ordering, see External Louver Accessory section on following pages |
| 7 WIRE INPUT/OUTPUT SINGLE (Input only) S1 End Feed S2 Bottom Feed PASS THROUGH (Input/output) P1 End Feed P2 Bottom Feed | 8 CONNECTOR/WIRE IN BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" | 9 CONNECTOR/WIRE OUT CLS Closed End (No feed) BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" | 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 Custom finishes require a longer lead time, consult factory | 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. | |

For continuous mounting, consider bottom feed.

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

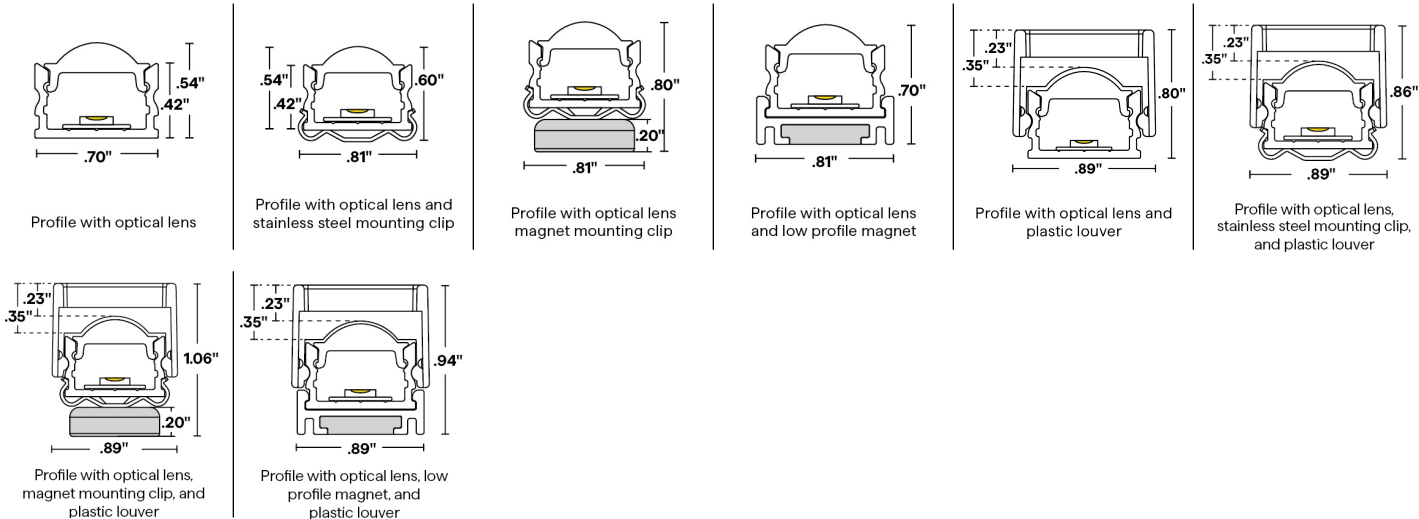
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)



ESSENTIALS LALO-OPTICS (02) RGB

24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS



2 DELIVERED LUMENS

[Calculated L70 = 55000 hrs]
Tested with LL2RGB-6.0-RGB-DRY-STD

| | Red | | Green | | Blue | | All |
|----|-------|------------|-------|------------|-------|------------|-----|
| | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | |
| 17 | 86 | 633 | 174 | 523 | 49 | 469 | 280 |

6 DIODE VISIBILITY

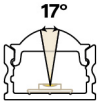


Optical lens

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 | |
|-----|----------------------------------|----------|--------|
| | | 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 |

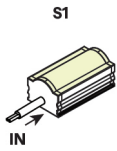


ESSENTIALS LALO-OPTICS (02) RGB

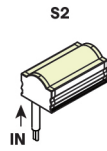
24VDC Linear Fixtures - Surface & Recessed

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

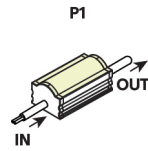


End Feed

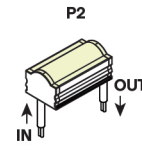


Bottom Feed

PASS THROUGH (Input/Output)

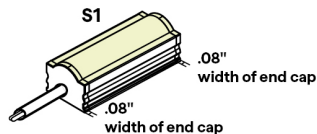


End Feed

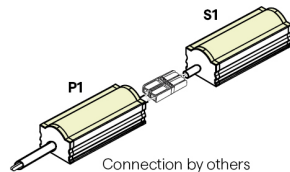


Bottom Feed

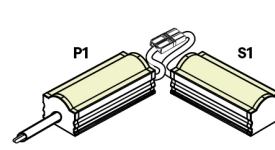
CONFIGURATION OPTIONS



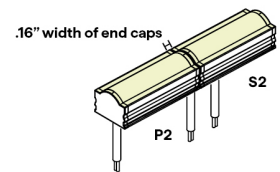
Single End Feed



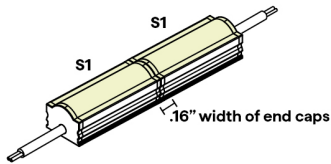
Connection by others
Non-Continuous End Feed



Connection by others
Non-Continuous Corner Feed



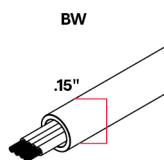
Continuous Bottom Feed



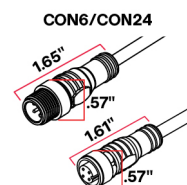
Continuous End to End Feed

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-OPTICS (02) RGB

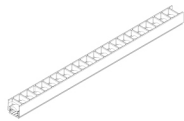
24VDC Linear Fixtures - Surface & Recessed

EXTERNAL LOUVER ACCESSORY

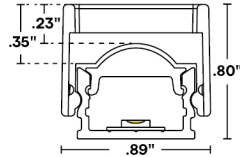
PLASTIC



L1-XX



Lumen Multiplier
WH BK

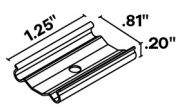


Profile with plastic louver

To order separately use
LALO-L1-OPTICS-KIT-WH or
LALO-L1-OPTICS-KIT-BK

12 MOUNTING

SST



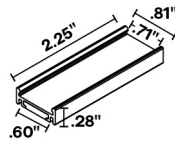
Stainless Steel Clip

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

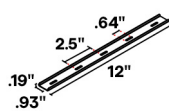


Low Profile Magnet

One M4 provided per foot.

To order separately use
MG-04

MMA-04



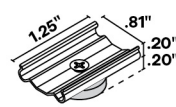
Magnet Mount
Accessory for M4

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

13 FINISH

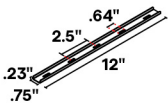


Satin

Black

Custom finishes require a longer lead time, consult factory

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



ESSENTIALS LALO-OPTICS (02) RGB

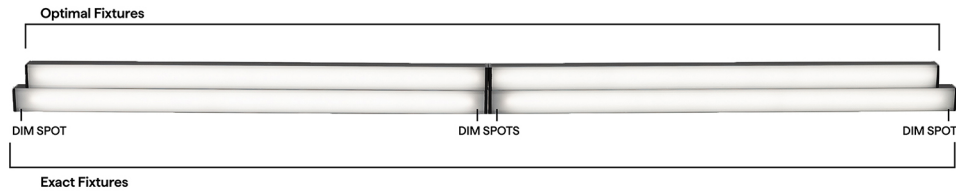
24VDC Linear Fixtures - Surface & Recessed

14 EXACT/OPTIMAL FIXTURE LENGTH

[E/O Length Calculator →](#)

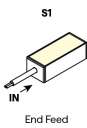
[E/O Explained →](#)

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.

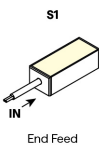
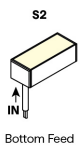
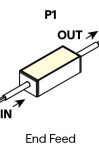
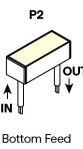


RGB DRY DMP LENGTHS BY INCH

EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 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

| Requested Nominal Length | S1 & S2 | | P1 & P2 | |
|--------------------------|---|---|---|--|
| | 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" | |




ESSENTIALS LALO-OPTICS (02) RGB





24VDC Linear Fixtures - Surface & Recessed

RGB WET LENGTHS BY INCH

EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture |
|------------------|---|
| | S1 |
| |  |
| 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

| Requested Nominal Length | S1 & S2 | | P1 & P2 | |
|--------------------------------|---|--|---|---|
| | <div>S1</div>  <div>End Feed</div> | <div>S2</div>  <div>Bottom Feed</div> | <div>P1</div>  <div>End Feed</div> | <div>P2</div>  <div>Bottom Feed</div> |
| 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" | |

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 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 QZ-DALI-DT8 |



ESSENTIALS LALO-OPTICS (02) RGB

24VDC Linear Fixtures - Surface & Recessed

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 | NI-GRAZER J Mounting Bracket | BL-GRAZER Backwards L Mounting Bracket | MMA-01 .23" .75" Magnet Mount Accessory of MG-01 |
| MMA-04 .19" .93" Magnet Mount Accessory of MG-04 | | | | | | | | | |

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80"
2.27"
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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 |
|--|--|--|