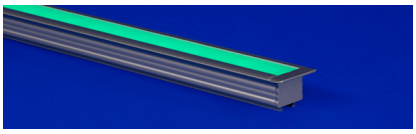
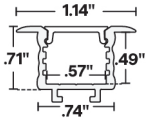
# ESSENTIALS EMBD-FLAT (01) RGB

24VDC Linear Fixtures - Recessed






- Recessed flanged fixture designed for dryall and millwork installations
- Choose from diffused, polar, or frosted lens options
- Mounting options include spring or magnet mounting clips
- 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 PRODUCT | 2 WATTS/ FT | 3 CCT | 4 RATED | 5 EFFICIENCY | 6 LENS |
|---|---|---|---|---|---|
| EB1RGB | 6.0 | RGB | | STD | |

**ADDITIONAL INFORMATION REQUIRED TO ORDER**

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

Sample Part Number: **EB1RGB-6.0-RGB-DRY-STD-DF-P1-BW-BW-BK-CL2-SP-ST-48"-E**

## 1 PRODUCT

**EB1RGB**

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

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

**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)

## 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

**SP** Spring Clip
**MG** Magnet

## 13 FINISH

**ST** Satin
**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.

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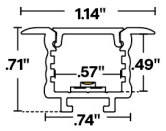
Specification subject to change. Rev-03-24-26

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

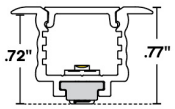
# ESSENTIALS EMBD-FLAT (01) RGB

24VDC Linear Fixtures - Recessed

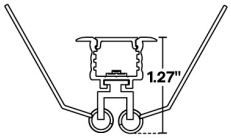
## 1 PRODUCT - DIMENSIONS



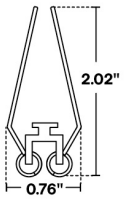

Profile with flat lens




Profile with flat lens and magnet mounting clip




Profile with flat lens and spring mounting clip




Spring mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 55000 hrs]
Tested with EB1RGB-6.0-RGB-DRY-STD

| | Red | | Green | | Blue | | All |
|---|---|---|---|---|---|---|---|
| | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT |
| FR | 71 | 633 | 148 | 523 | 41 | 469 | 238 |
| PR | 61 | 633 | 129 | 523 | 35 | 469 | 207 |
| DF | 52 | 633 | 109 | 523 | 30 | 469 | 175 |

## 6 DIODE VISIBILITY



DF - Diffused lens

PR - Polar lens

FR - Frosted lens

## TEMPERATURE RATINGS

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

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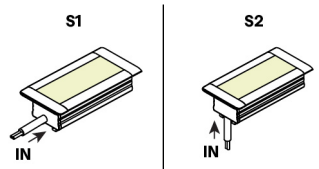
Specification subject to change. Rev-03-24-26

# ESSENTIALS EMBD-FLAT (01) RGB

24VDC Linear Fixtures - Recessed

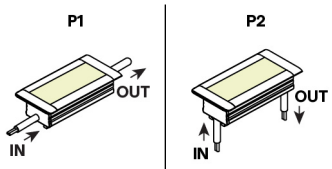
## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)



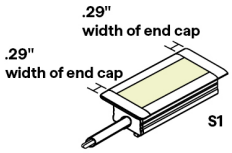

End Feed | Bottom Feed

PASS THROUGH (Input/Output)

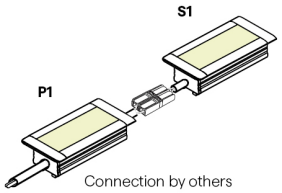



End Feed | Bottom Feed

## CONFIGURATION OPTIONS

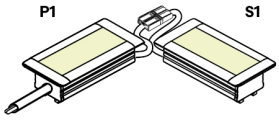



Single End Feed



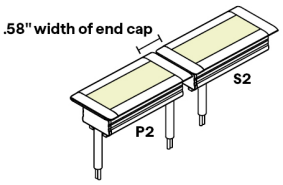

Connection by others

Non-Continuous End Feed

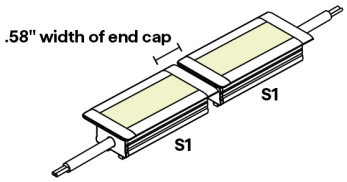



Connection by others

Non-Continuous Corner Feed



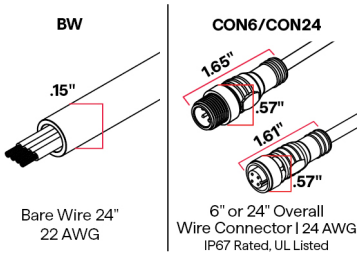

Non-Continuous Bottom Feed




Non-Continuous End to End Feed

## 8 / 9 CONNECTOR/WIRE – IN/OUT

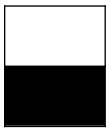
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out




Bare Wire 24"
22 AWG

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

## 10 WIRE COLOR



White

Black

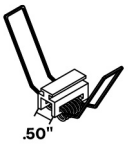
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# ESSENTIALS EMBD-FLAT (01) RGB

24VDC Linear Fixtures - Recessed

## 12 MOUNTING

**SP**




Spring Clip

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

To order separately use SP-01

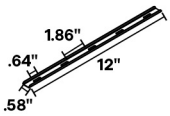
**MG**




Magnet Clip

One MG provided per foot
To order separately use MG-02

**MMA-02**




Magnet Mount
Accessory for MG-02

Sold separately, to order use MMA-02

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

Required when mounting to a non-magnetic surface

## 13 FINISH

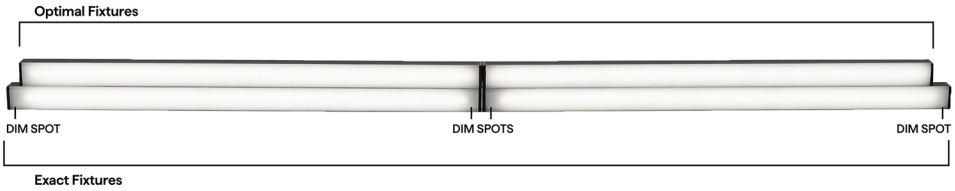
Satin

Custom finishes require a longer lead time, consult factory

## 14 EXACT/OPTIMAL FIXTURE LENGTH

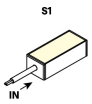
E/O Length Calculator →  E/O Explained →

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.

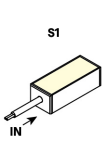
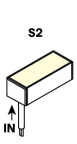
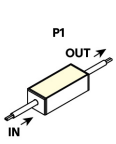
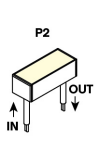



## RGB DRY DMP LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture |
|---|---|
| |  |
| | End Feed |
| 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 | |
|---|---|---|---|---|
| |  |  |  |  |
| | End Feed | Bottom Feed | End Feed | Bottom Feed |
| 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" | |

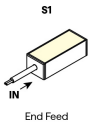
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# ESSENTIALS EMBD-FLAT (01) RGB

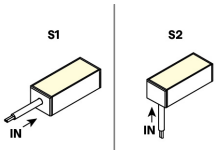
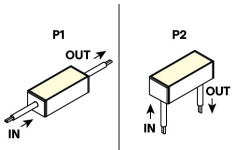
24VDC Linear Fixtures - Recessed

## RGB WET 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   |
|---|---|---|
| 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<br>QT-CAB-eLED+DMX<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DMX<br>QZ-DMX | Q-SET-QZ-DMX<br>QOM-eLED+DALI-DT8<br>QOM-eLED+DMX<br>QOM-eLED+PS-DALI-DT8<br>QZ-DMX |
| 1% | QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8 |
| 10% | Non-Dim Power Supply with RGB App Dongle | |

| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | RGB | RGB |
| DMX | QTM-eLED+DMX<br>QZ-DMX | Q-SET-QZ-DMX<br>QOM-eLED+DMX<br>QZ-DMX |
| DALI-2: DT8 | QT-CAB-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8<br>QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QOM-eLED+DALI-DT8<br>QZ-DALI-DT8 |

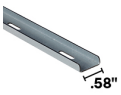
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# ESSENTIALS EMBD-FLAT (01) RGB

24VDC Linear Fixtures - Recessed

## COMPATIBLE MOUNTING ACCESSORIES

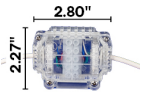
**MMA-02**




Magnet Mount Accessory of MG-02

## COMPATIBLE WIRING ACCESSORIES

**Q-mini-J5**




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**

Q-NFC

Read and write DMX addresses and adjust voltage

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