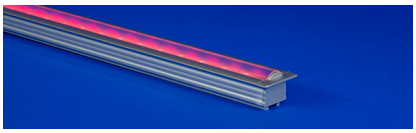
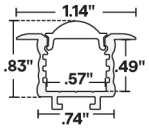
# ESSENTIALS EMBD-OPTICS (02) STATIC COLOR

24VDC Linear Fixtures - Recessed






- Recessed fixture designed for dryall and millwork installations
- Choose from 12°, 14°, 20°, 30°, 45° or 60° beam angles
- Mounting options include spring or magnet mounting clips
- Features painted end caps to match extrusion finish
- Red, Green, Blue or Amber LEDs available
- Can be suitable for exterior use when specified as wet, contact factory for more information

| 1 PRODUCT | 2 WATTS/ FT | 3 CCT | 4 RATED | 5 EFFICIENCY | 6 LENS | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB2SC | 5.0 | | | STD | | | | | | | | | | |

Sample Part Number: **EB2SC-5.0-GR-DRY-STD-20-P1-BW-BW-BK-CL2-SP-ST-48"-E**

### 1 PRODUCT

**EB2SC**

See following pages for compatible power supplies.

### 2 WATTS/FT

| | |
|---|---|
| **5.0** | 5.0W/ft |

### 3 CCT

| | |
|---|---|
| **A** | Amber |
| **B** | Blue |
| **G** | Green |
| **R** | Red |

### 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

| | |
|---|---|
| **12** | Optical 12° |
| **14** | Optical 14° |
| **20** | Optical 20° |
| **30** | Optical 30° DRY or DMP only |
| **45** | Optical 45° DRY or DMP only |
| **60** | Optical 60° DRY or DMP only |

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

| | |
|---|---|
| **S1** | Single 1 (Input only) - End Feed |
| **S2** | Single 2 (Input only) - Bottom Feed |
| **P1** | Pass Through 1 (Input/output) - End Feed |
| **P2** | Pass Through 2 (Input/output) - Bottom Feed |

For continuous mounting, consider bottom feed.

### 8 CONNECTOR/WIRE IN

| | |
|---|---|
| **BW** | Bare Wire (Standard 24") |
| **BRL** | Barrel |
| **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") |
| **BRL** | Barrel |
| **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 |
| **N/A** | For Barrel |

wet barrel only available in black

### 11 WIRE TYPE

| | |
|---|---|
| **CL2** | Class 2 |
| **CL2P** | Plenum Rated |
| **N/A** | For Barrel |

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 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.

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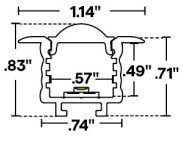
Specification subject to change. Rev-11-11-26

5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | FWC rated Strips: DRY and WET rated, Red and Amber

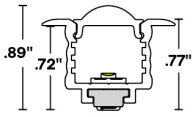
# ESSENTIALS EMBD-OPTICS (02) STATIC COLOR

24VDC Linear Fixtures - Recessed

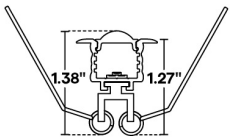
## 1 PRODUCT - DIMENSIONS



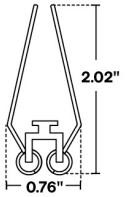

Profile with optical lens




Profile with optical lens and magnet mounting clip




Profile with optical lens and spring mounting clip



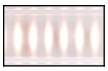

Spring mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 30000 hrs]
Tested with EB2SC-5.0-**-DRY-STD

| | Red | | Green | | Blue | | Amber | |
|---|---|---|---|---|---|---|---|---|
| | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH |
| 12 | 92 | 633 | 361 | 517 | 90 | 466 | 56 | 597 |
| 14 | 101 | 633 | 398 | 517 | 99 | 466 | 61 | 597 |
| 20 | 106 | 633 | 416 | 517 | 104 | 466 | 64 | 597 |
| 30 | 110 | 633 | 431 | 517 | 107 | 466 | 66 | 597 |
| 45 | 120 | 633 | 472 | 517 | 117 | 466 | 73 | 597 |
| 60 | 120 | 633 | 469 | 517 | 117 | 466 | 72 | 597 |

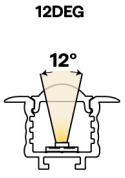
## 6 DIODE VISIBILITY



Optical lens

## PHOTOMETRIC PERFORMANCE

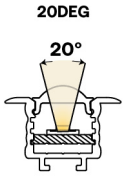
Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.



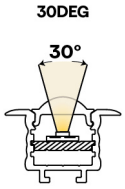

Optical 12°



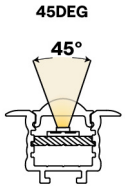

Optical 14°



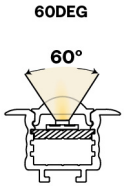

Optical 20°




Optical 30°
DRY and DMP LEDs only




Optical 45°
DRY and DMP LEDs only




Optical 60°
DRY and DMP LEDs only

## TEMPERATURE RATINGS

| | | 5.0 W/FT | |
|---|---|---|---|
| | | Min | Max |
| DRY | Ambient Operating Temp - Recessed | -4°F | 115°F |
| DMP | Ambient Operating Temp - Recessed | -4°F | 115°F |
| WET | Ambient Operating Temp - Recessed | -4°F | 110°F |

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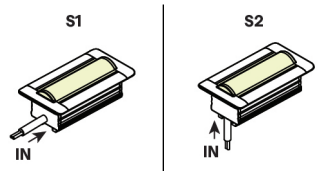
Specification subject to change. Rev-11-11-26

# ESSENTIALS EMBD-OPTICS (02) STATIC COLOR

24VDC Linear Fixtures - Recessed

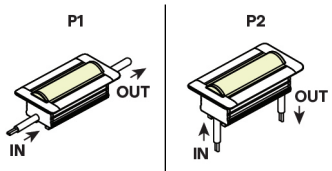
## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)



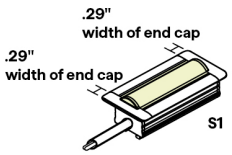

End Feed | Bottom Feed

PASS THROUGH (Input/Output)

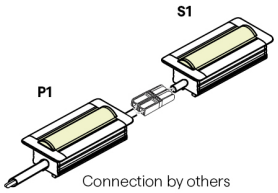



End Feed | Bottom Feed

## CONFIGURATION OPTIONS

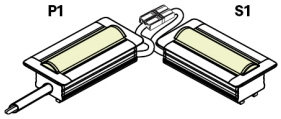



Single End Feed



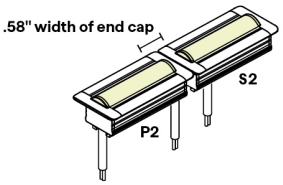

Connection by others

Non-Continuous End Feed

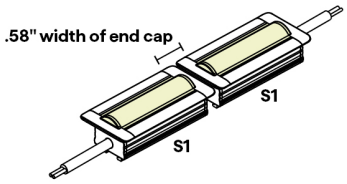



Connection by others

Non-Continuous Corner Feed



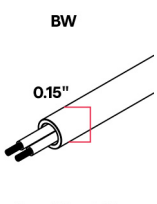

Non-Continuous Bottom Feed



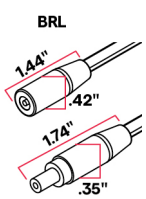

Non-Continuous End to End Feed

## 8 / 9 CONNECTOR/WIRE – IN/OUT

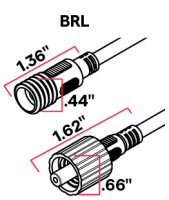
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



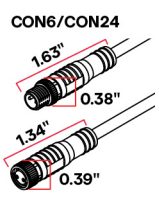

Bare Wire 24"
22 AWG




Barrel 6" - DRY/DMP |
22 AWG

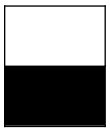



Barrel 6"- WET | 22 AWG




6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

## 10 WIRE COLOR



White

Black

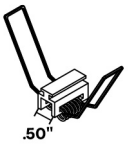
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# ESSENTIALS EMBD-OPTICS (02) STATIC COLOR

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

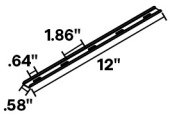
**MG**




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

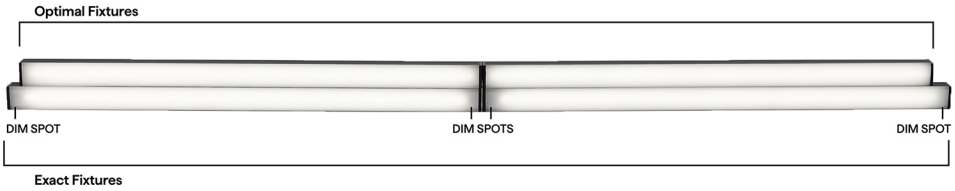
Satin

Custom finishes require a longer lead time, consult factory

## 14 EXACT/OPTIMAL FIXTURE LENGTH

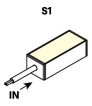
E/O Length Calculator →  E/O Explained →

Exact fixtures are the exact length specified +0 -1/8". 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.

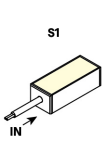
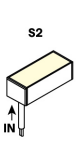
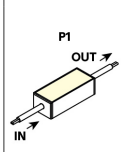
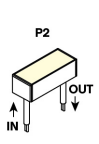



## SC DRY DMP LENGTHS BY INCH

### 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 | |
|---|---|---|---|---|
| |  |  |  |  |
| |  |  |  |  |
| 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" | |

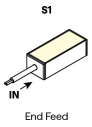
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# ESSENTIALS EMBD-OPTICS (02) STATIC COLOR

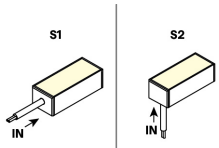
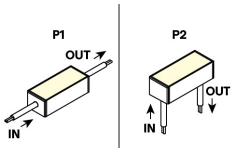
24VDC Linear Fixtures - Recessed

## SC 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   End Feed / Bottom Feed | P1 & P2   End Feed / Bottom Feed |
|---|---|---|
| 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" |

## 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 |
|---|---|---|
| | SC | SC |
| Dim to Black | Q6M-DC+CAP<br>QTM-DC+CAP<br>iQ-PH+QD1 | QOM-DC+CAP<br>QOM-PH |
| 0.1% | QT-CAB-QZ-PH/0-10V<br>QT-CAB-eLED+0-10V<br>QT-CAB-eLED+0-10V-AWN<br>QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT6-AWN<br>QTM-eLED+0-10V<br>QTM-eLED+0-10V-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6-AWN<br>QZ-BOWTIE+DIMMER<br>QZ-DMX<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V<br>QZLP | Q-SET-QZ-DMX<br>Q-SET-QZ-PH/0-10V<br>Q-SET-eLED+0-10V<br>QOM-eLED+0-10V<br>QOM-eLED+DALI-DT6<br>QOM-eLED+DALI-DT6-PS<br>QZ-DMX<br>QZ-PRO-PH/0-10V |
| 1% | Q-DIM<br>QTM-eLED(E)<br>QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6<br>QZ-DALI-DT6 |
| 10% | Non-Dim Power Supply with SW App Dongle | |

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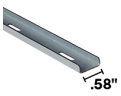
# ESSENTIALS EMBD-OPTICS (02) STATIC COLOR

24VDC Linear Fixtures - Recessed

| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | SC | SC |
| Non-Dim | QT-CAB-eLED-ND<br>QTM-eLED-ND<br>QZ-ND | Q-SET-QZ-ND<br>Q-SET-eLED-ND<br>QOM-eLED-ND<br>QZ-ND |
| Phase | Q6M-DC+CAP<br>QT-CAB-QZ-PH/0-10V<br>QTM-DC+CAP<br>QTM-eLED(E)<br>QZ-BOWTIE+DIMMER<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V<br>QZLP<br>iQ-PH+QD1 | Q-SET-QZ-PH/0-10V<br>QOM-DC+CAP<br>QOM-PH<br>QZ-PRO-PH/0-10V |
| 0-10V | QT-CAB-QZ-PH/0-10V<br>QT-CAB-eLED+0-10V<br>QT-CAB-eLED+0-10V-AWN<br>QTM-eLED+0-10V<br>QTM-eLED+0-10V-AWN<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V<br>QZLP | Q-SET-QZ-PH/0-10V<br>Q-SET-eLED+0-10V<br>QOM-eLED+0-10V<br>QZ-PRO-PH/0-10V |
| Lutron Athena | QT-CAB-eLED+0-10V-AWN<br>QT-CAB-eLED+DALI-DT6-AWN<br>QTM-eLED+0-10V-AWN<br>QTM-eLED+DALI-DT6-AWN | |
| ECO System | QTM-eLED(E) | |
| DMX | QZ-DMX | Q-SET-QZ-DMX<br>QZ-DMX |
| DALI-2: DT6 | QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT6-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6-AWN<br>QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6<br>QOM-eLED+DALI-DT6<br>QZ-DALI-DT6 |
| SCENE App Dimmed | Non-Dim Power Supply with SW App Dongle | |

## COMPATIBLE MOUNTING ACCESSORIES

**MMA-02**




Magnet Mount Accessory
of MG-02

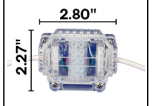
## COMPATIBLE WIRING ACCESSORIES

**Q-mini-J**




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

**Q-mini-J5**




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

**BARREL-EXT**



8ft barrel cable extender
DRY ONLY

**BARREL FOUR-FER**



Splits lead from one to four LED Barrel connector fixtures, DRY/DMP

**CON120-EXT**



10ft Con cable extender
DRY/DMP/WET

**CON FOUR-FER**



Splits lead from one to four LED Con connectors
DRY/DMP/WET

**CON M - BARREL F**



Male con to barrel cable adaptor
DRY/DMP

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Specification subject to change. Rev-11-11-26

# ESSENTIALS EMBD-OPTICS (02) STATIC COLOR

24VDC Linear Fixtures - Recessed

## COMPATIBLE APPS

**NFC APP**




Read and write DMX addresses and adjust voltage

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