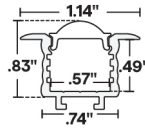
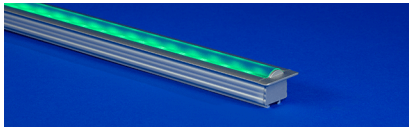




# ESSENTIALS EMBD-OPTICS (02)

## RGB

### 24VDC Linear Fixtures - Recessed



- Recessed fixture designed for drywall 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
- 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	2	3	4	5	6
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS
EB2RGB	6.0	RGB		STD	

#### 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: **EB2RGB-6.0-RGB-DRY-STD-20-P1-BW-BW-BK-CL2-SP-ST-48"-E**

<b>1</b> <b>PRODUCT</b> <b>EB2RGB</b> See following pages for compatible power supplies.	<b>2</b> <b>WATTS/FT</b> <b>6.0</b> 6.0W/ft	<b>3</b> <b>CCT</b> <b>RGB</b>	<b>4</b> <b>RATED</b> <b>DRY</b> IP20 <b>DMP</b> IP54 <b>WET</b> IP67 Can be suitable for exterior use, contact factory for more information	<b>5</b> <b>EFFICIENCY</b> <b>STD</b> Standard	<b>6</b> <b>LENS</b> <b>12</b> Optical 12° <b>14</b> Optical 14° <b>20</b> Optical 20° <b>30</b> Optical 30° DRY or DMP only <b>45</b> Optical 45° DRY or DMP only <b>60</b> 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
<b>7</b> <b>WIRE INPUT/OUTPUT</b> <b>SINGLE (Input only)</b> <b>S1</b> End Feed <b>S2</b> Bottom Feed  <b>PASS THROUGH (Input/output)</b> <b>P1</b> End Feed <b>P2</b> Bottom Feed	<b>8</b> <b>CONNECTOR/WIRE IN</b> <b>BW</b> Bare Wire (Standard 24") <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"  <b>BW</b> Bare Wire (Standard 24") <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"	<b>9</b> <b>CONNECTOR/WIRE OUT</b> <b>CLS</b> Closed End (No feed)  <b>BW</b> Bare Wire (Standard 24") <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"	<b>10</b> <b>WIRE COLOR</b> <b>WH</b> White <b>BK</b> Black		
<b>11</b> <b>WIRE TYPE</b> <b>CL2</b> Class 2 <b>CL2P</b> Plenum Rated CL2P only available with bare wire leads (BW)	<b>12</b> <b>MOUNTING</b> <b>SP</b> Spring Clip <b>MG</b> Magnet	<b>13</b> <b>FINISH</b> <b>ST</b> Satin <b>CU</b> Custom Custom finishes require a longer lead time, consult factory	<b>14</b> <b>LENGTH (IN)</b> Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".	<b>15</b> <b>EXACT/OPTIMAL</b> <b>O</b> Optimal Illumination <b>E</b> 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)

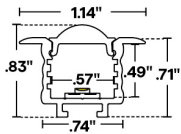
BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)



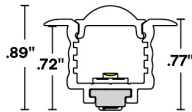
# ESSENTIALS EMBD-OPTICS (02) RGB

24VDC Linear Fixtures - Recessed

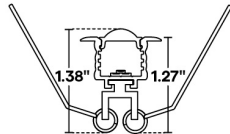
## 1 PRODUCT - DIMENSIONS



Profile with optical lens



Profile with optical lens and magnet mounting clip



Profile with optical lens and spring mounting clip



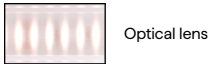
Spring mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 55000 hrs]  
Tested with EB2RGB-6.0-RGB-DRY-STD

	Red		Green		Blue		All
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	
12	69	633	146	523	40	469	234
14	78	633	163	523	45	469	262
20	81	633	171	523	47	469	275
30	84	633	177	523	48	469	284
45	92	633	194	523	53	469	312
60	92	633	193	523	53	469	310

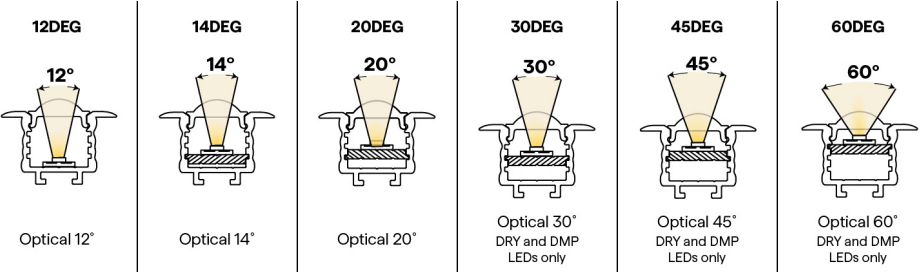
## 6 DIODE VISIBILITY



Optical lens

## PHOTOMETRIC PERFORMANCE

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



## TEMPERATURE RATINGS

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

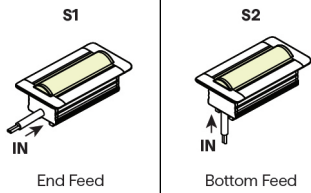


# ESSENTIALS EMBD-OPTICS (02) RGB

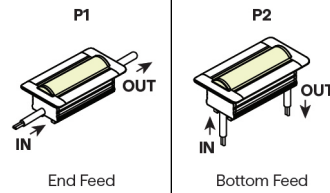
24VDC Linear Fixtures - Recessed

## 7 WIRE INPUT/OUTPUT

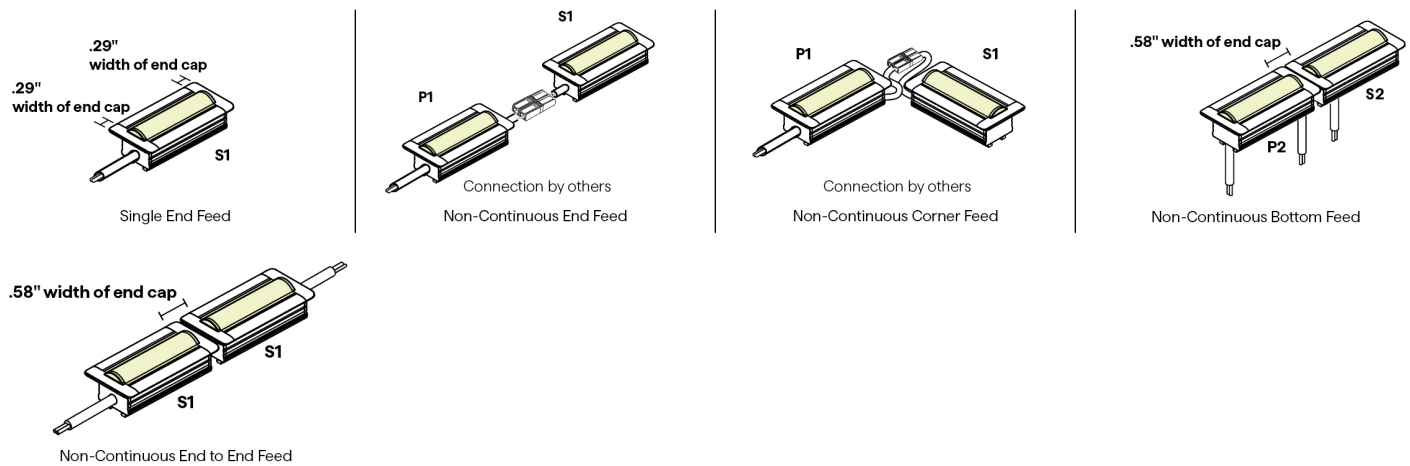
SINGLE (Input only)



PASS THROUGH (Input/Output)

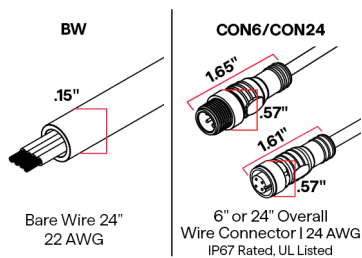


## CONFIGURATION OPTIONS



## 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



## 10 WIRE COLOR






# ESSENTIALS EMBD-OPTICS (02) 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

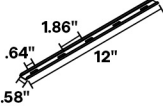
**MG**



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.

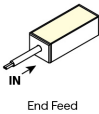
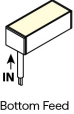
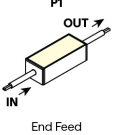
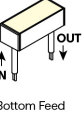


### RGB DRY DMP LENGTHS BY INCH

#### 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"	




# ESSENTIALS EMBD-OPTICS (02) RGB





24VDC Linear Fixtures - 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

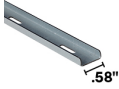


## ESSENTIALS EMBD-OPTICS (02) RGB

24VDC Linear Fixtures - Recessed

### COMPATIBLE MOUNTING ACCESSORIES

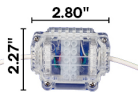
MMA-02



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



Read and write  
DMX addresses and  
adjust voltage