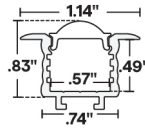
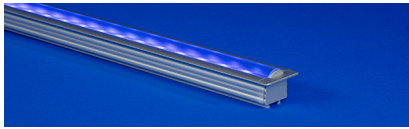




# ESSENTIALS EMBD-OPTICS (02)

## RGBW

### 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
- Red, Green, and Blue LED paired with a specifiable white LED allow for color changing applications

#### INFORMATION REQUIRED FOR LIGHTING SCHEDULE

1	2	3	4	5	6
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS
EB2RGBW	6.0			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: **EB2RGBW-6.0-30-DRY-STD-20-P1-BW-BW-BK-CL2-SP-ST-48"-E**

<b>1 PRODUCT</b> EB2RGBW See following pages for compatible power supplies.	<b>2 WATTS/FT</b> 6.0 6.0W/ft	<b>3 CCT</b> 27 RGBW-2700K 30 RGBW-3000K	<b>4 RATED</b> DRY IP20 DMP IP54	<b>5 EFFICIENCY</b> STD Standard	<b>6 LENS</b> 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
<b>7 WIRE INPUT/OUTPUT</b> <b>SINGLE (Input only)</b> S1 End Feed S2 Bottom Feed  <b>PASS THROUGH (Input/output)</b> P1 End Feed P2 Bottom Feed	<b>8 CONNECTOR/WIRE IN</b> BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24"  BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24"		<b>9 CONNECTOR/WIRE OUT</b> CLS Closed End (No feed)  BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24"	<b>10 WIRE COLOR</b> WH White BK Black	
<b>11 WIRE TYPE</b> CL2 Class 2 CL2P Plenum Rated  CL2P only available with bare wire leads (BW)	<b>12 MOUNTING</b> SP Spring Clip MG Magnet	<b>13 FINISH</b> ST Satin CU Custom  Custom finishes require a longer lead time, consult factory	<b>14 LENGTH (IN)</b> Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".	<b>15 EXACT/OPTIMAL</b> 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)

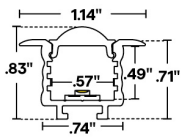
BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)



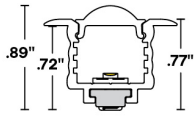
# ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed

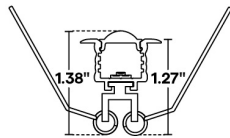
## 1 PRODUCT - DIMENSIONS



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 = 70000 hrs]  
Tested with EB2RGBW-\*\*-30-DRY-STD

	6.0 W/FT							
	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
12	32	631	86	513	26	464	110	93
14	36	631	97	513	29	464	123	93
20	38	631	101	513	30	464	129	93
30	39	631	105	513	31	464	134	93
45	43	631	115	513	34	464	146	93
60	43	631	114	513	34	464	146	93

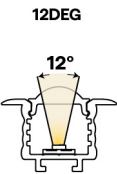
## 6 DIODE VISIBILITY



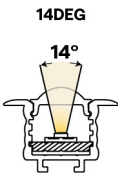
Optical lens

## PHOTOMETRIC PERFORMANCE

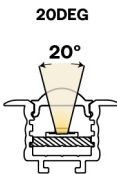
Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.



Optical 12°



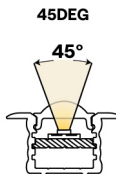
Optical 14°



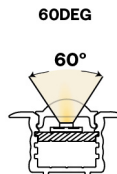
Optical 20°



Optical 30°  
DRY and DMP  
LEDs only



Optical 45°  
DRY and DMP  
LEDs only



Optical 60°  
DRY and DMP  
LEDs only

## TEMPERATURE RATINGS

		6.0 W/FT		4.0 HE W/FT	
		Min	Max	Min	Max
DRY	Ambient Operating Temp - Recessed	-4°F	110°F	-4°F	115°F
DMP	Ambient Operating Temp - Recessed	-4°F	105°F	-4°F	110°F
WET	Ambient Operating Temp - Recessed	**	**	-4°F	110°F

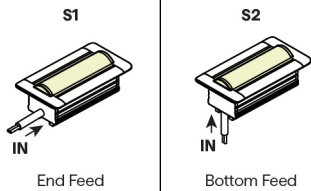


# ESSENTIALS EMBD-OPTICS (02) RGBW

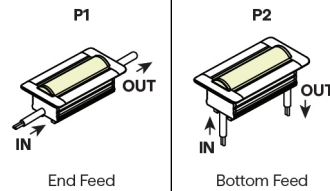
24VDC Linear Fixtures - Recessed

## 7 WIRE INPUT/OUTPUT

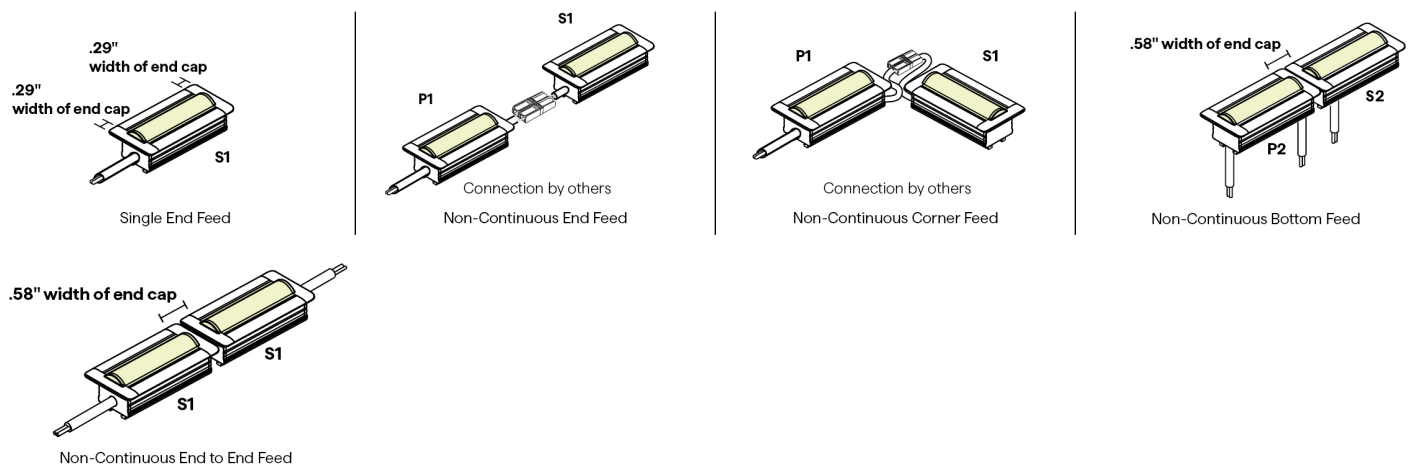
SINGLE (Input only)



PASS THROUGH (Input/Output)

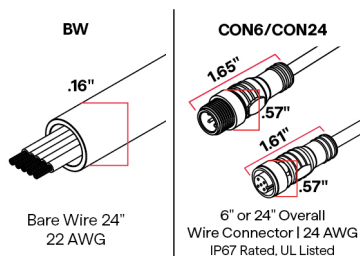


## CONFIGURATION OPTIONS



## 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) RGBW

## 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

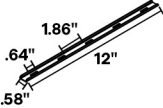
**MG**



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.

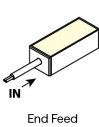
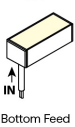
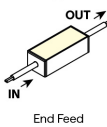
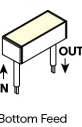


### RGBW DRY DMP LENGTHS BY INCH

#### EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture  End Feed
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

Requested Nominal Length	S1 & S2		P1 & P2	
	 End Feed	 Bottom Feed	 End Feed	 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"	



# ESSENTIALS EMBD-OPTICS (02) RGBW

## 24VDC Linear Fixtures - Recessed

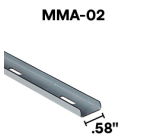
### COMPATIBLE POWER SUPPLIES

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+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX
1%	QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle

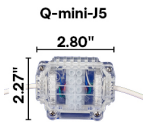
DIMMING PROTOCOL	INDOOR
	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle

### COMPATIBLE MOUNTING ACCESSORIES



Magnet Mount Accessory  
of MG-02

### COMPATIBLE WIRING ACCESSORIES



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



## ESSENTIALS EMBD-OPTICS (02) RGBW

24VDC Linear Fixtures - Recessed

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### COMPATIBLE APPS

#### NFC APP



Read and write  
DMX addresses and  
adjust voltage