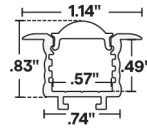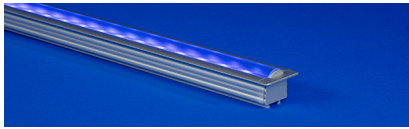# ESSENTIALS EMBD-OPTICS (02)
RGBW
24VDC Linear Fixtures - Recessed

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

Dimensions: 1.14", .83", .49", .57", .74"

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
EB2RGBW	6.0			STD										

Sample Part Number: **EB2RGBW-6.0-30-DRY-STD-20-P1-BW-BW-BK-CL2-SP-ST-48"-E**

① PRODUCT
EB2RGBW

See following pages for compatible power supplies.

② WATTS/FT
6.0   6.0W/ft

③ CCT
27   RGBW-2700K
30   RGBW-3000K

④ RATED
DRY   IP20
DMP   IP54

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")
CON6   Connector 6"
CON24   Connector 24"

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".
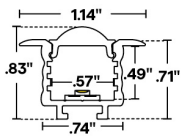Request custom length by writing in part number next to BW (example: BW48)

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.

Specification subject to change. Rev-01-13-26

5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies
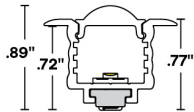
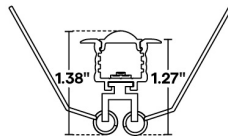# ESSENTIALS EMBD-OPTICS (02) RGBW
24VDC Linear Fixtures - Recessed

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

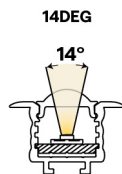| | 6.0 W/FT | | | | | | | |
| | Red | | Green | | Blue | | 3000K | |
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
12	32	631	86	513	26	464	110	93
14	36	631	97	513	29	464	123	93
20	38	631	101	513	30	464	129	93
30	39	631	105	513	31	464	134	93
45	43	631	115	513	34	464	146	93
60	43	631	114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

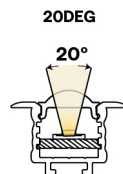## 6 DIODE VISIBILITY
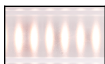
Optical lens

PHOTOMETRIC PERFORMANCE

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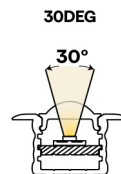

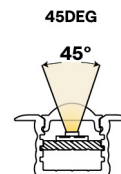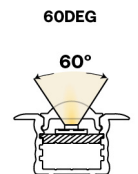| 12DEG | 14DEG | 20DEG | 30DEG | 45DEG | 60DEG |
| 12° | 14° | 20° | 30° | 45° | 60° |
| Optical 12° | Optical 14° | Optical 20° | Optical 30° DRY and DMP LEDs only | Optical 45° DRY and DMP LEDs only | Optical 60° DRY and DMP LEDs only |

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
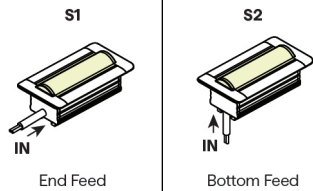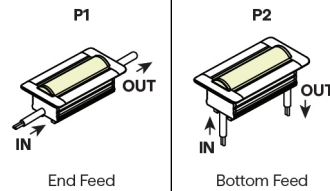
7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

IN

End Feed

S2

IN

Bottom Feed
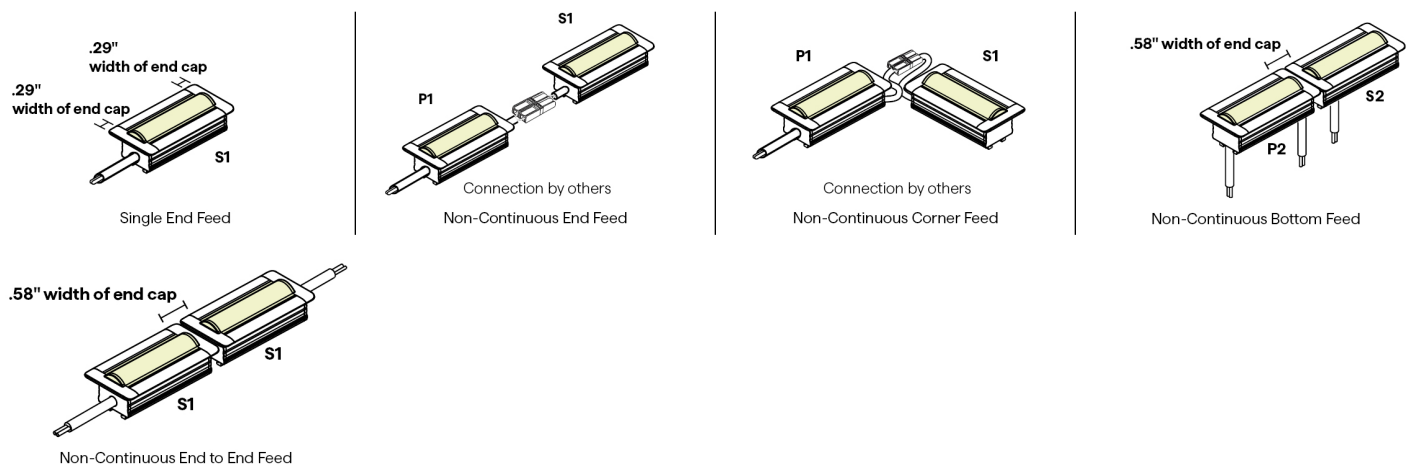
PASS THROUGH (Input/Output)

P1

OUT

IN

End Feed

P2

OUT

IN

Bottom Feed

CONFIGURATION OPTIONS

.29" width of end cap

.29" width of end cap

S1

Single End Feed

S1

P1

Connection by others

Non-Continuous End Feed

P1   **S1**

Connection by others

Non-Continuous Corner Feed

.58" width of end cap

S2

P2

Non-Continuous Bottom Feed

.58" width of end cap

S1

S1
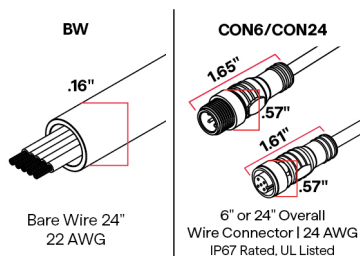
Non-Continuous End to End Feed

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

BW

.16"

Bare Wire 24"
22 AWG

CON6/CON24

1.65"

.57"

1.61"

.57"

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

10 WIRE COLOR

White

Black

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'.
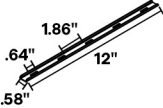
To order separately use SP-01

MG
.15"
3.13"
.35"

Magnet Clip

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

MMA-02
1.86"
.64"
12"
.58"

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.
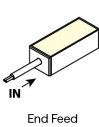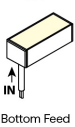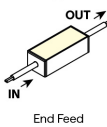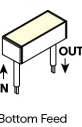
Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
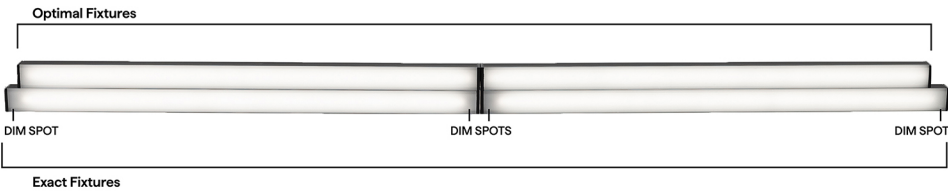
Exact Fixtures

RGBW DRY DMP LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture — S1 — 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	
	S1 — End Feed	S2 — Bottom Feed	P1 — End Feed	P2 — 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"	

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

MMA-02

.58"
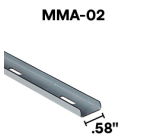
Magnet Mount Accessory
of MG-02

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80"

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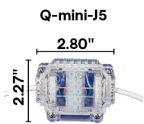
UL Listed, miniature
junction box, DRY/DMP
(WET rated with silicone)

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE | **iQ-DMX-STICK-GA2** | **iQ-DMX-STICK-DE3**

1.36"

2.58"

Wi-Fi or Bluetooth
Connectivity

DMX controller for
changing color &
dimming

DMX controller for
changing color &
dimming

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write
DMX addresses and
adjust voltage