

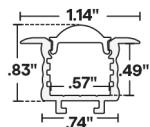
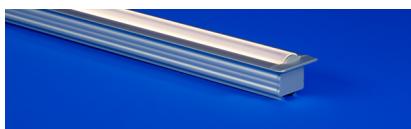


ESSENTIALS EMBD-OPTICS (02) SW-IA

24VDC Linear Fixtures - Recessed



Declare.



- 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
- Utilize DMX and SPI protocols to control nominal 1" segments of specifiable white LEDs

| 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 |
|--------------|----------------|----------|------------|-----------------|-----------|-------------------------|-------------------------|--------------------------|------------------|-----------------|----------------|--------------|-------------------|----------------------|
| EB2IA | 5.0 | | DRY | STD | | | | | | | | | | |

Sample Part Number: EB2IA-5.0-30-DRY-STD-20-P1-BW-BW-BK-CL2-SP-ST-48"-E

| | | | | | |
|---|---|--|---|---|---|
| 1 PRODUCT EB2IA See following pages for compatible power supplies. | 2 WATTS/FT 5.0 5.0W/ft | 3 CCT 27 2700K 30 3000K 35 3500K 40 4000K | 4 RATED DRY IP20 | 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 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) | 10 WIRE COLOR WH White BK Black | | |
| P1 Pass Through 1 (Input/output) - End Feed P2 Pass Through 2 (Input/output) - Bottom Feed For continuous mounting, consider bottom 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) | BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24" | | | |
| 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. | |

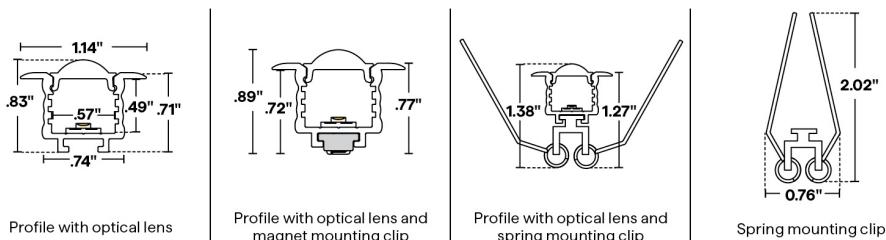
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



ESSENTIALS EMBD-OPTICS (02) SW-IA

24VDC Linear Fixtures - Recessed

1 PRODUCT - DIMENSIONS



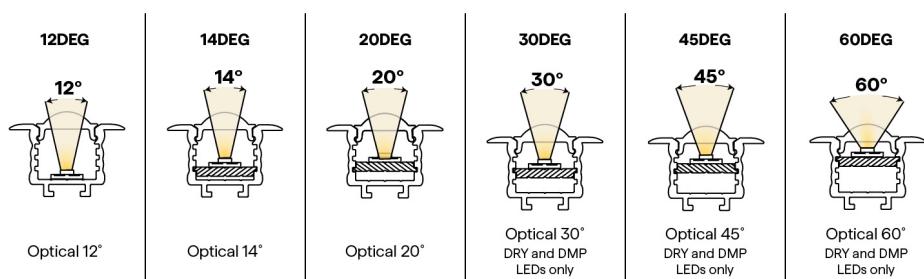
6 DIODE VISIBILITY



Optical lens

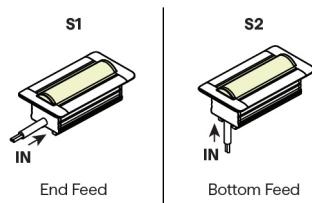
PHOTOMETRIC PERFORMANCE

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

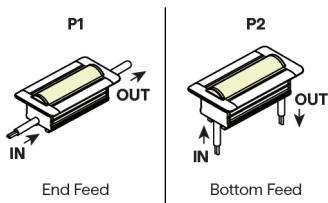


7 WIRE INPUT/OUTPUT

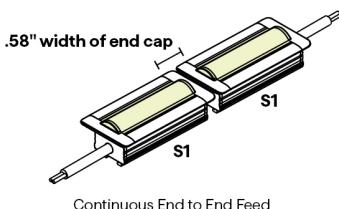
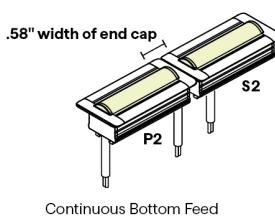
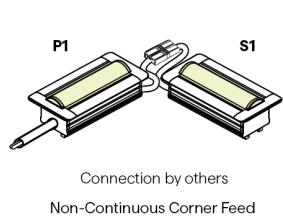
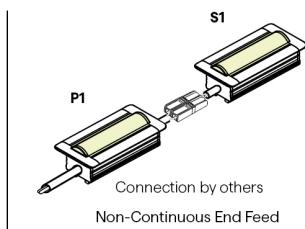
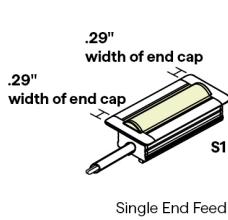
SINGLE (Input only)



PASS THROUGH (Input/Output)



CONFIGURATION OPTIONS



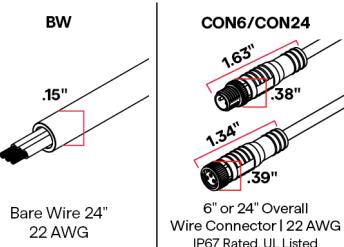


ESSENTIALS EMBD-OPTICS (02) SW-IA

24VDC Linear Fixtures - Recessed

8 / 9 CONNECTOR/WIRE – IN/OUT

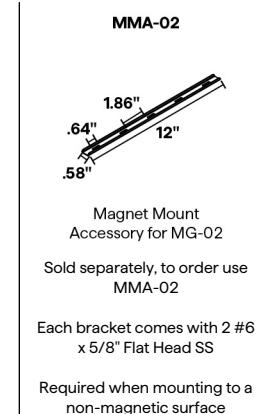
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



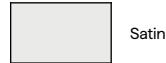
10 WIRE COLOR



12 MOUNTING



13 FINISH



Custom finishes require a longer lead time, consult factory

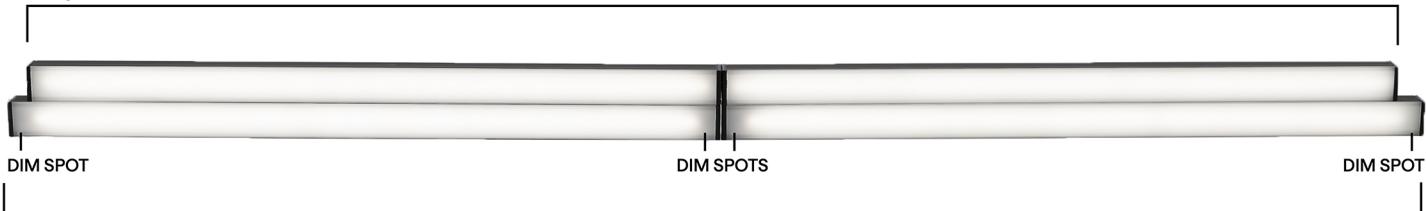
15 EXACT/OPTIMAL FIXTURE LENGTH

[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



Exact Fixtures



ESSENTIALS EMBD-OPTICS (02) SW-IA

24VDC Linear Fixtures - Recessed

SW-IA DRY LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is $\pm 0 - 1/8"$. Consult factory for lengths under 12".

EXACT LENGTH

| Requested Length | Potential dim spot on either end of fixture |
|------------------|---|
| 12" | .975" |
| 13" | 1.475" |
| 14" | .3"-1.975" |
| 15" | .8" |
| 16" | 1.3" |
| 17" | 1.8" |
| 18" | .625" |
| 19" | 1.125" |
| 20" | 1.625" |
| 21" | .45" |
| 22" | .95" |
| 23" | 1.45" |
| 24" | 1.95" |
| 36" | 1.25" |
| 48" | 0.55" |
| 60" | 1.525" |
| 72" | 0.825" |
| 84" | 1.8" |
| 96" | 1.1" |

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

| Requested Nominal Length | S1 & S2 | | P1 & P2 | |
|--------------------------|----------------|-------------------|----------------|-------------------|
| | S1 End Feed | S2 Bottom Feed | P1 End Feed | P2 Bottom Feed |
| 12" | 10.46" | 10.71" | | |
| 13" | 10.46" | 10.71" | | |
| 14" | 13.81" | 10.71" | | |
| 15" | 13.81" | 14.06" | | |
| 16" | 13.81" | 14.06" | | |
| 17" | 13.81" | 14.06" | | |
| 18" | 17.16" | 17.41" | | |
| 19" | 17.16" | 17.41" | | |
| 20" | 17.16" | 17.41" | | |
| 21" | 20.51" | 20.76" | | |
| 22" | 20.51" | 20.76" | | |
| 23" | 20.51" | 20.76" | | |
| 24" | 23.86" | 20.76" | | |
| 36" | 33.91" | 34.16" | | |
| 48" | 47.31" | 47.56" | | |
| 60" | 57.36" | 57.61" | | |
| 72" | 70.76" | 71.01" | | |
| 84" | 80.81" | 81.06" | | |
| 96" | 94.21" | 94.46" | | |

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has $\pm 5\%$ tolerance.

| DIM TO LEVEL | INDOOR |
|--------------|-------------------------------|
| | SW-IA |
| 1% | QT-CAB-eLED+IA QTM-eLED+IA |

| DIMMING PROTOCOL | INDOOR |
|------------------|-------------------------------|
| | SW-IA |
| DMX | QT-CAB-eLED+IA QTM-eLED+IA |

COMPATIBLE MOUNTING ACCESSORIES

MMA-02



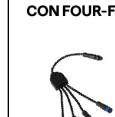
Magnet Mount Accessory
of MG-02



ESSENTIALS EMBD-OPTICS (02) SW-IA

24VDC Linear Fixtures - Recessed

COMPATIBLE WIRING ACCESSORIES

| | | | | | | |
|---|---|---|--|--|--|--|
|  Q-mini-J 2" 1.25" |  Q-mini-J5 2.80" 2.27" |  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 |
|---|---|---|--|--|--|--|