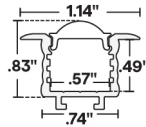
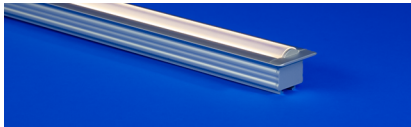




ESSENTIALS EMBD-OPTICS (02)

STATIC WHITE

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
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Can be suitable for exterior use when specified as wet, contact factory for more information



INFORMATION REQUIRED FOR LIGHTING SCHEDULE

| 1 | 2 | 3 | 4 | 5 | 6 |
|---------|-----------|-----|-------|------------|------|
| PRODUCT | WATTS/ FT | CCT | RATED | EFFICIENCY | LENS |
| | | | | 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: **EB2SW-5.0-30-DRY-STD-20-P1-BW-BK-CL2-SP-ST-48"-E**

| 1 | PRODUCT | 2 | WATTS/FT | 3 | CCT | 4 | RATED | 5 | EFFICIENCY | 6 | LENS |
|---|---|---|-------------|---|----------|---|--|--------------|------------|---|--------------------------------|
| | EB2SW EB2SW-USA Select USA option for BAA and BABA projects. Only DRY or WET ratings apply. See following pages for compatible power supplies. | ▶ | 1.5 1.5W/ft | ▶ | 20 2000K | ▶ | DRY IP20 | STD Standard | | 12 Optical 12° | |
| | | | 3.0 3.0W/ft | | 22 2200K | | WET IP67 | | | 14 Optical 14° | |
| | | ▶ | 4.0 4.0W/ft | ▶ | 24 2400K | ▶ | Can be suitable for exterior use, contact factory for more information | | | 20 Optical 20° | |
| | | | 5.0 5.0W/ft | | 27 2700K | | | | | DMP IP54 | 30 Optical 30° DRY or DMP only |
| | | ▶ | | ▶ | 30 3000K | ▶ | | | | 45 Optical 45° DRY or DMP only | |
| | | | | | 35 3500K | | | | | 60 Optical 60° DRY or DMP only | |
| | | | | | 40 4000K | | | | | 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 | 8 | CONNECTOR/WIRE IN | 9 | CONNECTOR/WIRE OUT | 10 | WIRE COLOR |
|---|-------------------|---|---|---|---|---|------------|
| SINGLE (Input only) S1 End Feed S2 Bottom Feed | | ▶ | BW Bare Wire (Standard 24") BRL Barrel CON6 Connector 6" CON24 Connector 24" | ▶ | CLS Closed End (No feed) | WH White BK Black N/A For Barrel wet barrel only available in black | |
| PASS THROUGH (Input/output) P1 End Feed P2 Bottom Feed | | ▶ | BW Bare Wire (Standard 24") BRL Barrel CON6 Connector 6" CON24 Connector 24" | ▶ | BW Bare Wire (Standard 24") BRL Barrel CON6 Connector 6" CON24 Connector 24" | | |

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)

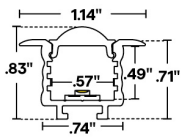
| 11 | WIRE TYPE | 12 | MOUNTING | 13 | FINISH | 14 | LENGTH (IN) | 15 | EXACT/OPTIMAL |
|----|--|----|---|----|--|----|--|----|--|
| | CL2 Class 2 CL2P Plenum Rated N/A For Barrel CL2P only available with bare wire leads (BW) | | SP Spring Clip MG Magnet | | ST Satin CU Custom Custom finishes require a longer lead time, consult factory | | Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12". | | 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. |



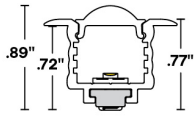
ESSENTIALS EMBD-OPTICS (02) STATIC WHITE

24VDC Linear Fixtures - Recessed

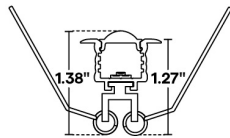
1 PRODUCT - DIMENSIONS



Profile with optical lens



Profile with optical lens and magnet mounting clip



Profile with optical lens and spring mounting clip



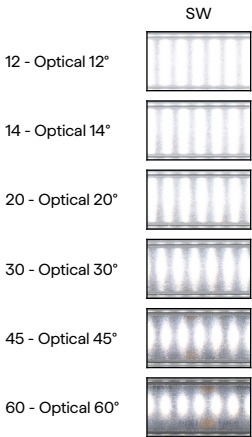
Spring mounting clip

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with EB2SW-**-30-DRY-STD

| | 1.5 W/FT | | 3.0 W/FT | | 4.0 W/FT | | 5.0 W/FT | |
|----|----------|-----|----------|-----|----------|-----|----------|-----|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| 12 | 121 | 98 | 211 | 98 | 262 | 98 | 319 | 98 |
| 14 | 138 | 98 | 240 | 98 | 299 | 98 | 363 | 98 |
| 20 | 141 | 98 | 247 | 98 | 307 | 98 | 373 | 98 |
| 30 | 156 | 98 | 272 | 98 | 339 | 98 | 412 | 98 |
| 45 | 160 | 98 | 280 | 98 | 348 | 98 | 423 | 98 |
| 60 | 160 | 98 | 278 | 98 | 346 | 98 | 421 | 98 |

6 DIODE VISIBILITY



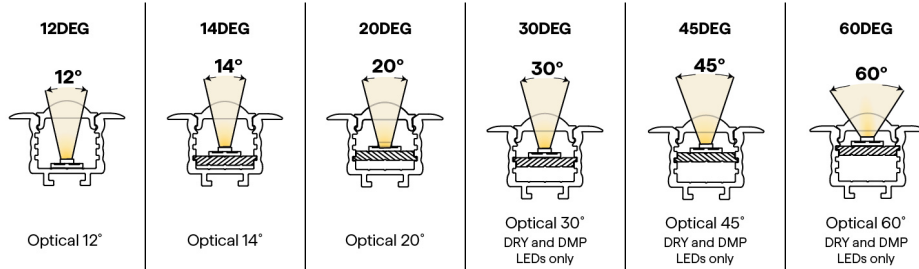


ESSENTIALS EMBD-OPTICS (02) STATIC WHITE

24VDC Linear Fixtures - Recessed

PHOTOMETRIC PERFORMANCE

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

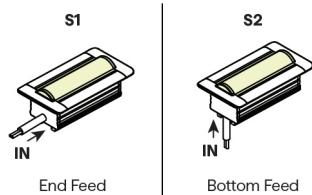


TEMPERATURE RATINGS

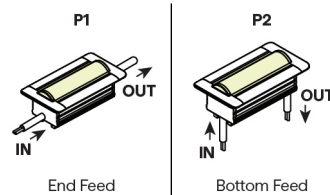
| | | 1.5 W/FT | | 3.0 W/FT | | 4.0 W/FT | | 5.0 W/FT | |
|-----|-----------------------------------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | Min | Max | Min | Max | Min | Max | Min | Max |
| DRY | Ambient Operating Temp - Recessed | -4°F | 135°F | -4°F | 130°F | -4°F | 120°F | -4°F | 110°F |
| DMP | Ambient Operating Temp - Recessed | -4°F | 130°F | -4°F | 125°F | -4°F | 115°F | -4°F | 105°F |
| WET | Ambient Operating Temp - Recessed | -4°F | 130°F | -4°F | 125°F | -4°F | 115°F | -4°F | 105°F |

7 WIRE INPUT/OUTPUT

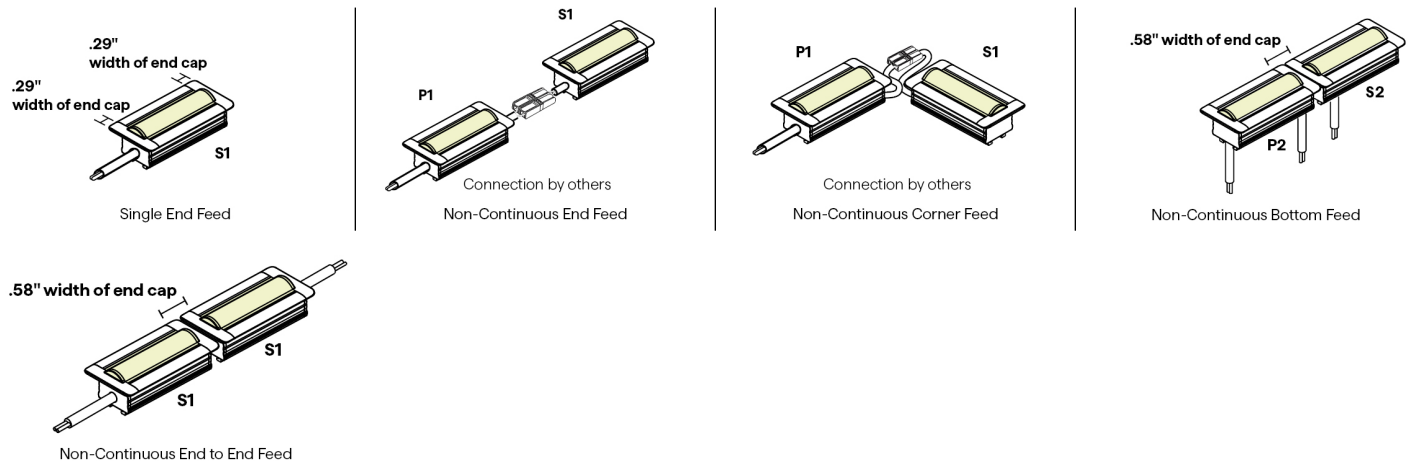
SINGLE (Input only)



PASS THROUGH (Input/Output)



CONFIGURATION OPTIONS



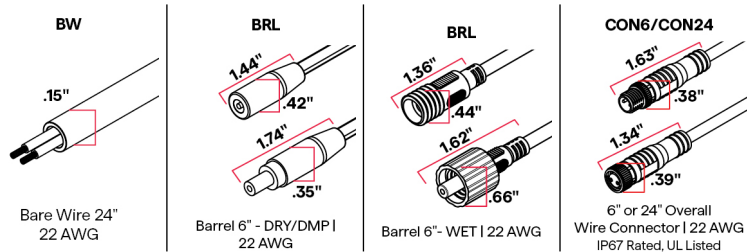


ESSENTIALS EMBD-OPTICS (02) STATIC WHITE

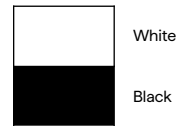
24VDC Linear Fixtures - Recessed

8 / 9 CONNECTOR/WIRE – IN/OUT

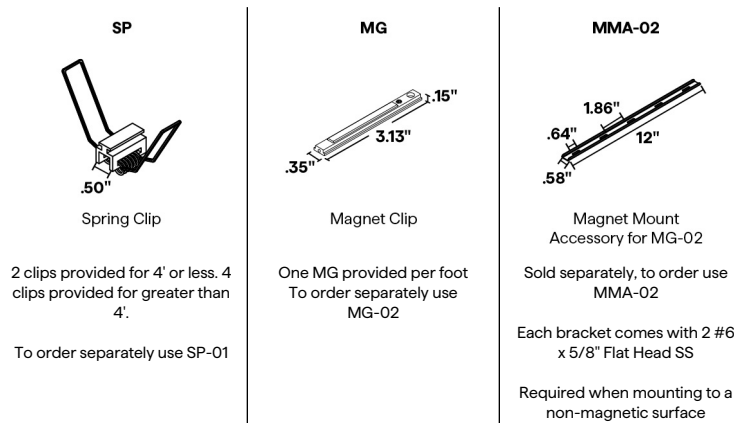
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



10 WIRE COLOR



12 MOUNTING



13 FINISH



Custom finishes require a longer lead time, consult factory

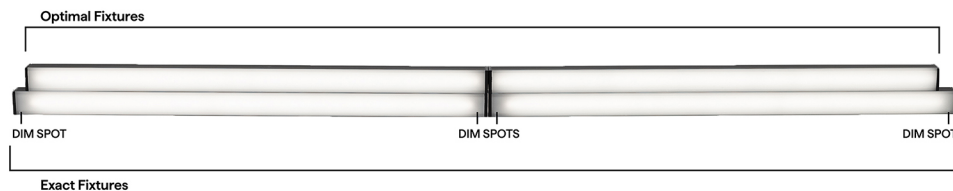
Custom finishes require a longer lead time, consult factory

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.





ESSENTIALS EMBD-OPTICS (02) STATIC WHITE

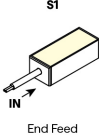
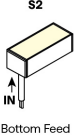
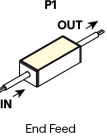
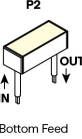
24VDC Linear Fixtures - Recessed

SW DRY DMP LENGTHS BY INCH

EXACT LENGTH

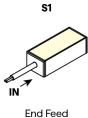
| Requested Length | Potential dim spot on either end of a S1 fixture |
|------------------|---|
| |  |
| 12" | 0.5" |
| 13" | 0.5" |
| 14" | 0.5" |
| 15" | 0.5" |
| 16" | 0.5" |
| 17" | 0.5" |
| 18" | 0.5" |
| 19" | 0.5" |
| 20" | 0.5" |
| 21" | 0.5" |
| 22" | 0.5" |
| 23" | 0.5" |
| 24" | 0.5" |
| 36" | 0.5" |
| 48" | 0.5" |
| 60" | 0.5" |
| 72" | 0.5" |
| 84" | 0.5" |
| 96" | 0.5" |

OPTIMAL LENGTH

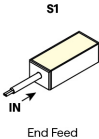
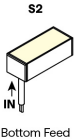
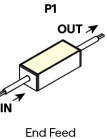
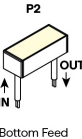
| Requested Nominal Length | S1 & S2 | | P1 & P2 | |
|--------------------------|---|---|---|--|
| |  |  |  |  |
| 12" | 11.41" | | 11.66" | |
| 13" | 12.41" | | 12.66" | |
| 14" | 13.41" | | 13.66" | |
| 15" | 14.41" | | 14.66" | |
| 16" | 15.41" | | 15.66" | |
| 17" | 16.41" | | 16.66" | |
| 18" | 17.41" | | 17.66" | |
| 19" | 18.41" | | 18.66" | |
| 20" | 19.41" | | 19.66" | |
| 21" | 20.41" | | 20.66" | |
| 22" | 21.41" | | 21.66" | |
| 23" | 22.41" | | 22.66" | |
| 24" | 23.41" | | 23.66" | |
| 36" | 35.41" | | 35.66" | |
| 48" | 47.41" | | 47.66" | |
| 60" | 59.41" | | 59.66" | |
| 72" | 71.41" | | 71.66" | |
| 84" | 83.41" | | 83.66" | |
| 96" | 95.41" | | 95.66" | |

SW WET LENGTHS BY INCH

EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture |
|------------------|---|
| |  |
| 12" | 0.5" |
| 13" | 0.5" |
| 14" | 0.5" |
| 15" | 0.5" |
| 16" | 0.5" |
| 17" | 0.5" |
| 18" | 0.5" |
| 19" | 0.5" |
| 20" | 0.5" |
| 21" | 0.5" |
| 22" | 0.5" |
| 23" | 0.5" |
| 24" | 0.5" |
| 36" | 0.5" |
| 48" | 0.5" |
| 60" | 0.5" |
| 72" | 0.5" |
| 84" | 0.5" |
| 96" | 0.5" |

OPTIMAL LENGTH

| Requested Nominal Length | S1 & S2 | | P1 & P2 | |
|--------------------------|---|---|---|--|
| |  |  |  |  |
| 12" | 11.56" | | 11.71" | |
| 13" | 12.56" | | 12.71" | |
| 14" | 13.56" | | 13.71" | |
| 15" | 14.56" | | 14.71" | |
| 16" | 15.56" | | 15.71" | |
| 17" | 16.56" | | 16.71" | |
| 18" | 17.56" | | 17.71" | |
| 19" | 18.56" | | 18.71" | |
| 20" | 19.56" | | 19.71" | |
| 21" | 20.56" | | 20.71" | |
| 22" | 21.56" | | 21.71" | |
| 23" | 22.56" | | 22.71" | |
| 24" | 23.56" | | 23.71" | |
| 36" | 35.56" | | 35.71" | |
| 48" | 47.56" | | 47.71" | |
| 60" | 59.56" | | 59.71" | |
| 72" | 71.56" | | 71.71" | |
| 84" | 83.56" | | 83.71" | |
| 96" | 95.56" | | 95.71" | |



ESSENTIALS EMBD-OPTICS (02) STATIC WHITE

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 | | OUTDOOR | |
|--------------|--|--|---|---|
| | SW24/1.5-4.0 | SW24/5.0, SW-HE, SW-HE+ | SW24/1.5-4.0 | SW24/5.0, SW-HE, SW-HE+ |
| Dim to Black | Q6M-DC+CAP QTM-DC+CAP iQ-PH+QD1 | Q6M-DC+CAP QTM-DC+CAP iQ-PH+QD1 | QOM-DC+CAP QOM-PH | QOM-DC+CAP QOM-PH |
| 0.1% | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP | Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V | Q-SET-QZ-DMX Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V |
| 1% | QTM-eLED(E) QZ-DALI-DT6 | QTM-eLED(E) QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6 QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6 QZ-DALI-DT6 |
| 10% | Non-Dim Power Supply with SW App Dongle | Non-Dim Power Supply with SW App Dongle | Q-HEX-mini-DC Q-SET-mLED | |



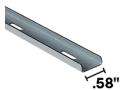
ESSENTIALS EMBD-OPTICS (02) STATIC WHITE

24VDC Linear Fixtures - Recessed

| DIMMING PROTOCOL | INDOOR | | OUTDOOR | |
|------------------|--|--|---|--|
| | SW24/1.5-4.0 | SW24/5.0, SW-HE, SW-HE+ | SW24/1.5-4.0 | SW24/5.0, SW-HE, SW-HE+ |
| Non-Dim | QT-CAB-eLED-ND QTM-eLED-ND QZ-ND | QT-CAB-eLED-ND QTM-eLED-ND QZ-ND | Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND | Q-SET-QZ-ND Q-SET-eLED-ND QOM-eLED-ND QZ-ND |
| Phase | Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH+QD1 | Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH+QD1 | Q-HEX-mini-DC Q-SET-QZ-PH/0-10V Q-SET-mLED QOM-DC+CAP QOM-PH QZ-PH/0-10V | Q-SET-QZ-PH/0-10V QOM-DC+CAP QOM-PH QZ-PH/0-10V |
| 0-10V | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP | Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V | Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V |
| Lutron Athena | QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN | QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN | | |
| ECO System | QTM-eLED(E) | QTM-eLED(E) | | |
| DMX | QZ-DMX | QZ-DMX | Q-SET-QZ-DMX QZ-DMX | Q-SET-QZ-DMX QZ-DMX |
| DALI-2: DT6 | QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6 | QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6 | Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6 |
| SCENE App Dimmed | Non-Dim Power Supply with SW App Dongle | Non-Dim Power Supply with SW App Dongle | | |

COMPATIBLE MOUNTING ACCESSORIES

MMA-02



Magnet Mount Accessory
of MG-02