



VERS-OPTICS (05) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



Declare



- Optically enhanced VERSatile fixture provides precision beam control for when precision lighting is needed
- The high-quality lens features a proprietary diffusing agent for superior beam control and clean edges
- Features integrated metal endcaps
- Mounting options include a concealed or magnetic clip
- With an internal White Optics coating, the fixture achieves greater lumen output
- Durable anodized aluminum housings
- Consult factory for field assembly options
- Optional external louver accessory available in white or black for added glare control

| 1 PRODUCT | 2 WATTS/FT | 3 CCT | 4 RATED | 5 LENS | 6 EXTERNAL LOUVER | 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 |
|--------------|---------------|----------|------------|-----------|----------------------|------------------------|------------------------|-------------------------|------------------|-----------------|----------------|--------------|-------------------|---------------------|
| | | | | | | | | | | | | | | |

Sample Part Number: VERS-05-WD-6.0-19/30-DRY-40D-L1-BK-P1-BW-BW-BK-CL2-CC-BK-48"-E

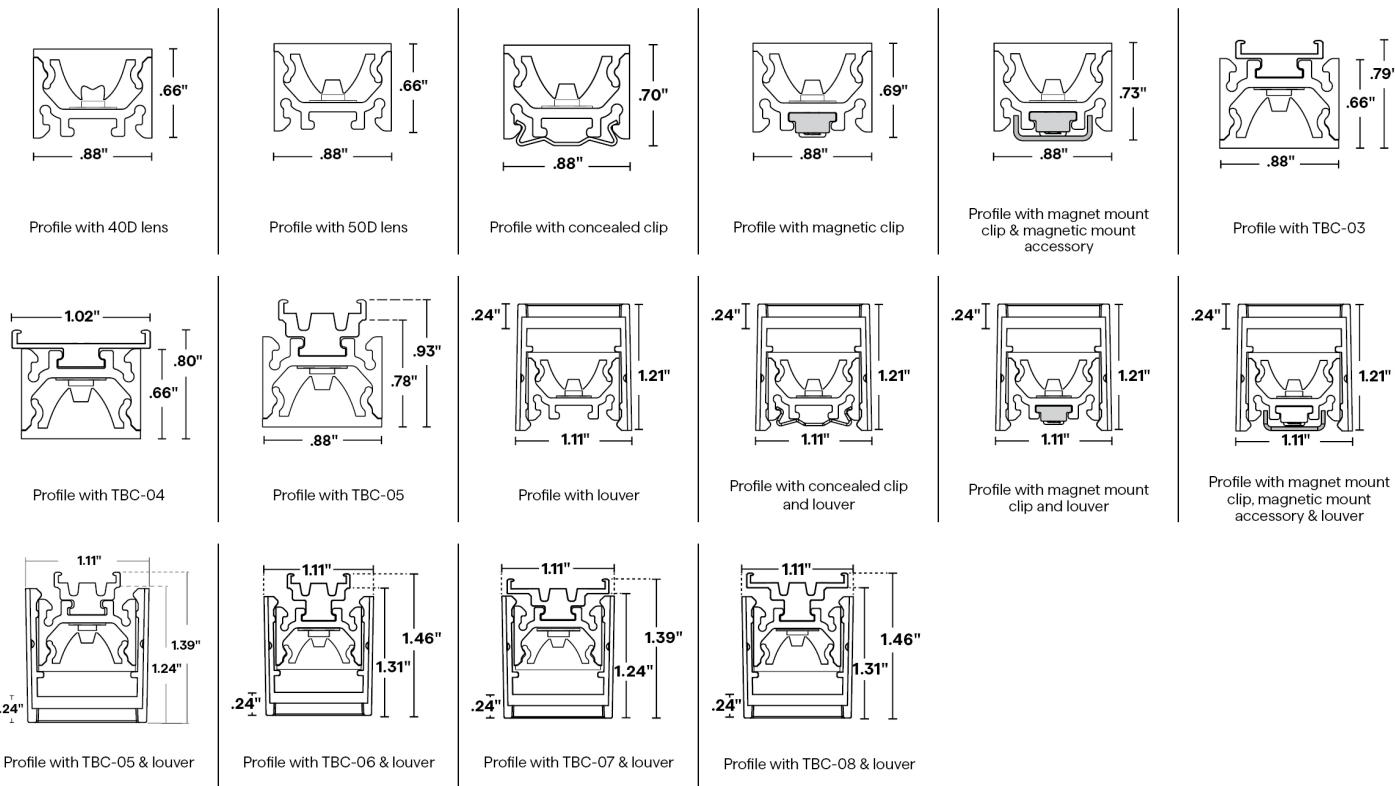
| | | | | | |
|--|---|---|---|---|--|
| 1 PRODUCT VERS-05-WD LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies. | 2 WATTS/FT 6.0 6.0W/ft 1.5HE 1.5W/ft HE 2.5HE 2.5W/ft HE 4.0HE 4.0W/ft HE | 3 CCT 19/27 1900K/2700K 19/30 1900K/3000K 20/27 2000K/2700K 20/30 2000K/3000K 27/40 2700K/4000K 27/55 2700K/5500K | 4 RATED DRY IP20 DRY IP20 | 5 LENS 40D Optical 40° 50D Optical 50° For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages. | 6 EXTERNAL LOUVER L1-WH White Plastic L1-BK Black Plastic L2-ST Satin Anodized Aluminum L2-BK Black Anodized Aluminum L2-WH White Powder Coated Aluminum N/A No Louver Plastic Louvers come in 12" lengths, multiple pieces will be used to match fixture length. Aluminum louvers come in maximum 98" lengths and will be cut to match fixture length. White and custom painted finishes are not compatible with L2 external louvers. |
| 7 WIRE INPUT/OUTPUT S1 Single 1 (Input only) - End Feed S2 Single 2 (Input only) - Bottom Feed S3 Single 3 (Input only) - Left Side Feed S4 Single 4 (Input only) - Right Side Feed P1 Pass Through 1 (Input/output) - End Feed P2 Pass Through 2 (Input/output) - Bottom Feed P3 Pass Through 3 (Input/output) - Left Side Feed P4 Pass Through 4 (Input/output) - Right Side Feed | 8 CONNECTOR/WIRE IN BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" | 9 CONNECTOR/WIRE OUT CLS Closed End (No feed) BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" | 10 WIRE COLOR WH White BK Black | | |
| | | | | | |
| When using TBC Mounting, a bare wire S2 wire feed is recommended. See install instructions for details. | | BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | | BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48) | |
| 11 WIRE TYPE CL2 Class 2 CL2P Plenum Rated CL2P only available with bare wire leads (BW) | 12 MOUNTING CC Concealed Clip MG Magnet TBC-03 9/16" Flat TB-Grid TBC-04 15/16" Flat or Tegular TB-Grid TBC-05 9/16" Tegular TB-Grid or 9/16" Flat TB-Grid, with External Louver TBC-06 9/16" Tegular TB-Grid, with External Louver TBC-07 15/16" Flat TB-Grid, with External Louver TBC-08 15/16" Tegular TB-Grid, with External Louver | 13 FINISH ST Satin BK Black BZ Bronze WH White CU Custom White and custom finishes are incompatible with external louvers; custom finishes have longer lead times. Non-RAL 9003 whites are custom. | 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. | |
| | | | | | |



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1 PRODUCT - DIMENSIONS



2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with VERS-05-WD-**-30-DRY

[Calculated L70 = 70000 hrs]
Tested with VERS-05-DW-**-30-DRY

| | 6.0 W/FT | |
|-------|----------|----|
| LM/FT | CRI | |
| 40D | 472 | 97 |
| 50D | 494 | 97 |

| | 1.5HE W/FT | | 2.5HE W/FT | | 4.0HE W/FT | |
|-----|------------|-----|------------|-----|------------|-----|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| 40D | 159 | 98 | 247 | 98 | 384 | 98 |
| 50D | 163 | 98 | 258 | 98 | 398 | 98 |

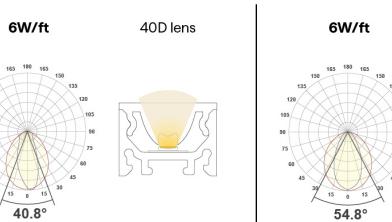
5 DIODE VISIBILITY



Optical lens

PHOTOMETRIC PERFORMANCE

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





VERS-OPTICS (05) FOR WARM DIM APPLICATIONS

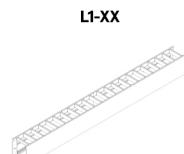
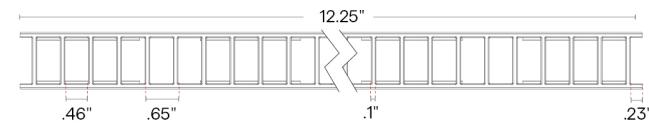
24VDC Linear Fixtures - Surface & Recessed

TEMPERATURE RATINGS

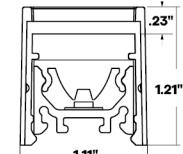
| | | WD 6.0 W/FT | | DW 1.5 HE W/FT | | DW 3.0 HE W/FT | | DW 2.5 HE W/FT | | DW 5.0 HE W/FT | | DW 4.0 HE W/FT | | DW 8.0 HE W/FT | |
|-----|----------------------------------|-------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| DRY | Ambient Operating Temp - Surface | -4°F | 115°F | -4°F | 145°F | -4°F | 135°F | -4°F | 135°F | -4°F | 120°F | -4°F | 125°F | -4°F | 110°F |

6 EXTERNAL LOUVER

PLASTIC

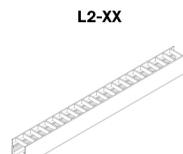
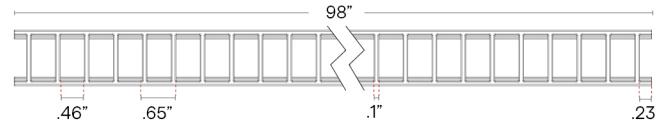


Lumen Multiplier
WH
BK
0.71 0.48

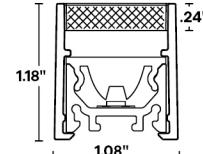


Profile with plastic louver

METAL



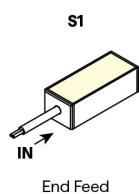
Lumen Multiplier
WH BK ST
0.72 0.53 0.68



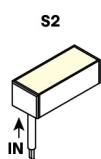
Profile with metal louver

7 WIRE INPUT/OUTPUT

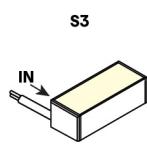
SINGLE (Input only)



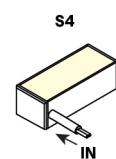
End Feed



Bottom Feed

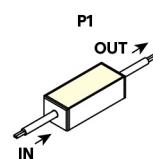


Side Feed - Left

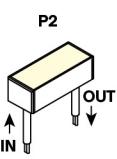


Side Feed - Right

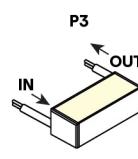
PASS THROUGH (Input/Output)



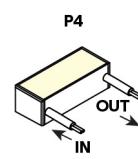
End Feed



Bottom Feed



Side Feed - Left



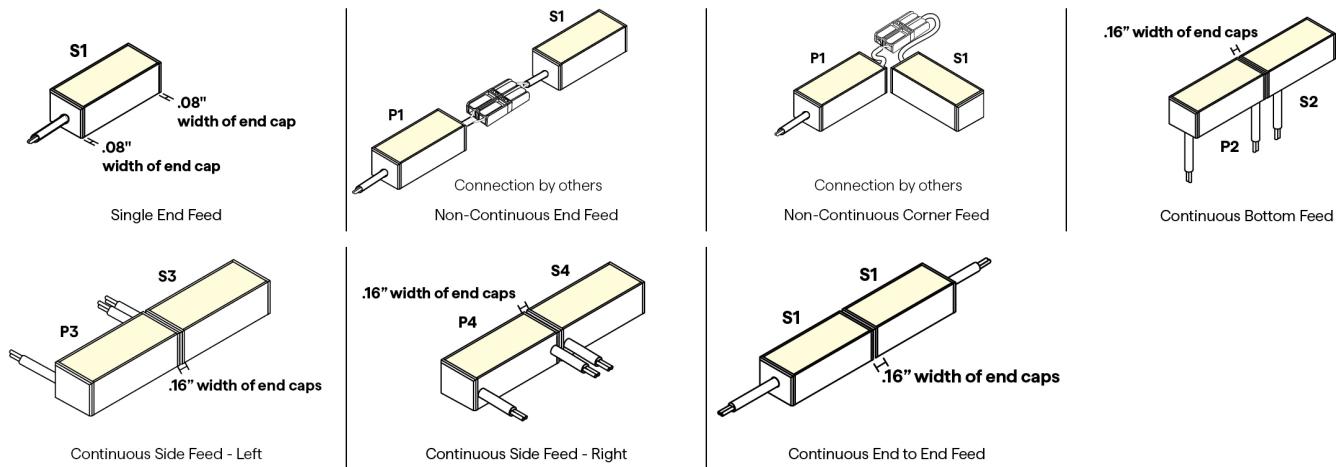
Side Feed - Right



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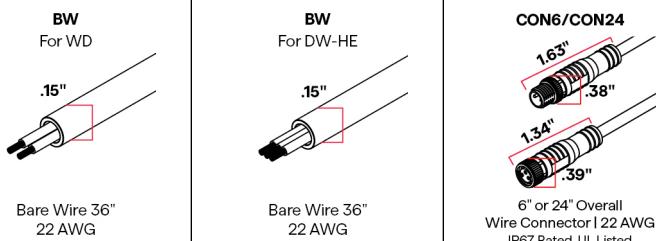
24VDC Linear Fixtures - Surface & Recessed

CONFIGURATION OPTIONS



8 / 9 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product.



10 WIRE COLOR



12 MOUNTING

| CC (CC-01) | CC (CC-02) | MG | MMA-02 | TBC-03 |
|---|---|---|--|--|
| | | | | |
| Concealed Clip | Louver Concealed Clip Required if L1 or L2 Louver is selected | Magnet Clip | Magnet Mount Accessory for MG-02 | Plastic T-Bar Clip |
| 2 pieces of hardware provided for 4' or less; 4 pieces of hardware provided for greater than 4' | 2 pieces of hardware provided for 4' or less; 4 pieces of hardware provided for greater than 4' | One MG provided per foot To order separately use MG-02 | Sold separately, to order use MMA-02 Each clip comes with a #6 Flat Screw Required when mounting to a non-magnetic surface | Use on 9/16" Flat Drop Ceiling 2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1 T-Bar Mounting Jig included with each fixture. |
| To order separately use CC-01 (sold in pairs) | To order separately use CC-02 (sold in pairs) | | | To order separately use TBC-03 Each pair of clips comes with M2.5 x 4mm set screw and Allen key |
| Each clips comes with a #4 x 5/8" Flat Head screw. | Each clips comes with a #4 x 5/8" Flat Head screw. | | | |



VERS-OPTICS (05) FOR WARM DIM APPLICATIONS

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MOUNTING CONTINUED

| TBC-04 | TBC-05 | TBC-06 | TBC-07 | TBC-08 |
|---|---|---|---|---|
| | | | | |
| Plastic T-Bar Clip |
| Use on 15/16" Flat or Tegular Drop Ceiling | Use on 9/16" Tegular Drop Ceiling | Use with Louver on 9/16" Tegular Drop Ceiling | Use with Louver on 15/16" Flat Drop Ceiling | Use with Louver on 15/16" Tegular Drop Ceiling |
| 2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1T-Bar Mounting Jig included with each fixture. | 2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1T-Bar Mounting Jig included with each fixture. | 2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1T-Bar Mounting Jig included with each fixture. | 2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1T-Bar Mounting Jig included with each fixture. | 2 clips provided for first 12"; 1 clip provided for each additional 12" or less length. 1T-Bar Mounting Jig included with each fixture. |
| To order separately use TBC-04 | To order separately use TBC-05 | To order separately use TBC-06 | To order separately use TBC-07 | To order separately use TBC-08 |
| Each pair of clips comes with M2.5 x 4mm set screw and Allen key | Each pair of clips comes with M2.5 x 4mm set screw and Allen key | Each pair of clips comes with M2.5 x 4mm set screw and Allen key | Each pair of clips comes with M2.5 x 4mm set screw and Allen key | Each pair of clips comes with M2.5 x 4mm set screw and Allen key |

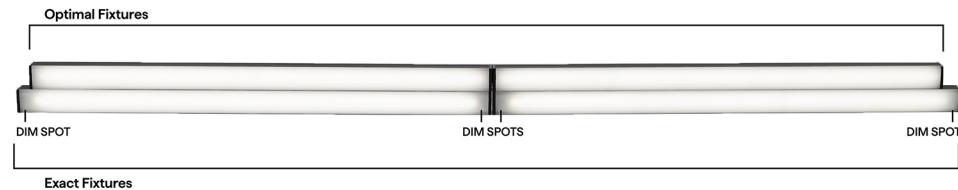
13 FINISH



Custom finishes require a longer lead time, consult factory

15 EXACT/OPTIMAL FIXTURE LENGTH

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.





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24VDC Linear Fixtures - Surface & Recessed

WD DRY LENGTHS BY INCH

EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture | |
|------------------|--|----------|
| | S1 | 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 | | S3 & S4 | | P3 & P4 | |
|--------------------------|---------|----|---------|----|---------|----|---------|----|
| | S1 | S2 | P1 | P2 | S3 | S4 | P3 | P4 |
| 12" | 10.49" | | 10.74" | | 10.34" | | 10.44" | |
| 13" | 12.49" | | 12.74" | | 12.34" | | 12.44" | |
| 14" | 12.49" | | 12.74" | | 12.34" | | 12.44" | |
| 15" | 14.49" | | 14.74" | | 14.34" | | 14.44" | |
| 16" | 14.49" | | 14.74" | | 14.34" | | 14.44" | |
| 17" | 16.49" | | 16.74" | | 16.34" | | 16.44" | |
| 18" | 16.49" | | 16.74" | | 16.34" | | 16.44" | |
| 19" | 18.49" | | 18.74" | | 18.34" | | 18.44" | |
| 20" | 18.49" | | 18.74" | | 18.34" | | 18.44" | |
| 21" | 20.49" | | 20.74" | | 20.34" | | 20.44" | |
| 22" | 20.49" | | 20.74" | | 20.34" | | 20.44" | |
| 23" | 22.49" | | 22.74" | | 22.34" | | 22.44" | |
| 24" | 22.49" | | 22.74" | | 22.34" | | 22.44" | |
| 36" | 34.49" | | 34.74" | | 34.34" | | 34.44" | |
| 48" | 46.49" | | 46.74" | | 46.34" | | 46.44" | |
| 60" | 58.49" | | 58.74" | | 58.34" | | 58.44" | |
| 72" | 70.49" | | 70.74" | | 70.34" | | 70.44" | |
| 84" | 82.49" | | 82.74" | | 82.34" | | 82.44" | |
| 96" | 94.49" | | 94.74" | | 94.34" | | 94.44" | |

DW-HE DRY LENGTHS BY INCH

EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture | |
|------------------|--|----------|
| | S1 | 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 | | S3 & S4 | | P3 & P4 | |
|--------------------------|---------|----|---------|----|---------|----|---------|----|
| | S1 | S2 | P1 | P2 | S3 | S4 | P3 | P4 |
| 12" | 10.59" | | 10.94" | | 10.49" | | 10.59" | |
| 13" | 12.59" | | 12.94" | | 12.49" | | 12.59" | |
| 14" | 12.59" | | 12.94" | | 12.49" | | 12.59" | |
| 15" | 14.59" | | 14.94" | | 14.49" | | 14.59" | |
| 16" | 14.59" | | 14.94" | | 14.49" | | 14.59" | |
| 17" | 16.59" | | 16.94" | | 16.49" | | 16.59" | |
| 18" | 16.59" | | 16.94" | | 16.49" | | 16.59" | |
| 19" | 18.59" | | 18.94" | | 18.49" | | 18.59" | |
| 20" | 18.59" | | 18.94" | | 18.49" | | 18.59" | |
| 21" | 20.59" | | 20.94" | | 20.49" | | 20.59" | |
| 22" | 20.59" | | 20.94" | | 20.49" | | 20.59" | |
| 23" | 22.59" | | 22.94" | | 22.49" | | 22.59" | |
| 24" | 22.59" | | 22.94" | | 22.49" | | 22.59" | |
| 36" | 34.59" | | 34.94" | | 34.49" | | 34.59" | |
| 48" | 46.59" | | 46.94" | | 46.49" | | 46.59" | |
| 60" | 58.59" | | 58.94" | | 58.49" | | 58.59" | |
| 72" | 70.59" | | 70.94" | | 70.49" | | 70.59" | |
| 84" | 82.59" | | 82.94" | | 82.49" | | 82.59" | |
| 96" | 94.59" | | 94.94" | | 94.49" | | 94.59" | |



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COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

| DIM TO LEVEL | INDOOR | |
|--------------|--|---|
| | DW-HE Warm Dim Applications | WD |
| 0.1% | QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+0-10V QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP |
| 1% | QZ-DALI-DT8 | QTM-eLED(E) QZ-DALI-DT6 |
| 10% | Non-Dim Power Supply with WD App Dongle | Non-Dim Power Supply with SW App Dongle |

| DIMMING PROTOCOL | INDOOR | |
|--|---|---|
| | DW-HE Warm Dim Applications | WD |
| Phase | QZ-DW | QT-CAB-QZ-PH/0-10V QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP |
| 0-10V | QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW | QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP |
| Lutron Athena | QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN | QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN |
| ECO System | | QTM-eLED(E) |
| DMX If using DW LED, wattage must be doubled | | QZ-DMX |
| DALI-2: DT6 If using DW LED, wattage must be doubled except for AWN | QT-CAB-eLED+DALI-DT6 QTM-eLED+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 |
| DALI-2: DT8 If using DW LED, wattage must be doubled except for AWN | QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8 | |
| SCENE App Dimmed | Non-Dim Power Supply with WD App Dongle | Non-Dim Power Supply with SW App Dongle |



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COMPATIBLE MOUNTING ACCESSORIES

| | | | | | | | | | |
|---|--|--------------------------------------|-----------------------------|-------------------------------|---------------------|---------------------|-----------------------|---|---------------------------------------|
| HINGE - HMB-M 1.41" 1.71" | HINGE - HMB-L 1.46" 1.29" 1.46" | HINGE - HMB-XL 4" 1.46" | Q-PIVOT 75" 1.03" | Q-ANGLE 1.38" 2.23" | NJ-LARGE | NU-LARGE | SD-J-LARGE | BL-LARGE Backwards L Mounting Bracket | NL-LARGE L Mounting Bracket |
| Adjustable mounting bracket - Medium | Adjustable mounting bracket - Large | Adjustable mounting bracket - XLarge | Small mounting accessory | Adjustable mounting accessory | J Mounting Bracket | U Mounting Bracket | J Mounting Bracket | | |
| SD-L-LARGE L Mounting Bracket | MMA-02 Magnet Mount Accessory for MG-02 1.86" .64" 12" .58" | | | | | | | | |

COMPATIBLE WIRING ACCESSORIES

| | |
|--|--|
| Q-mini-J 2" 1.25" | Q-mini-J5 2.80" 2.27" |
| UL Listed, miniature junction box, DRY/DMP (WET rated with silicone) | UL Listed, miniature junction box, DRY/DMP (WET rated with silicone) |

COMPATIBLE CONTROL ACCESSORIES

| |
|--|
| SCENE APP DONGLE 1.36" 2.58" |
| Wi-Fi or Bluetooth Connectivity |

COMPATIBLE APPS



Read and write DMX addresses and adjust voltage