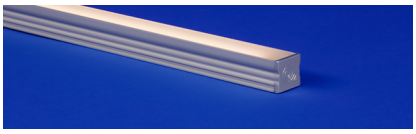
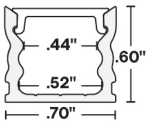
# WARM DIM SWITCH TEST

24VDC Linear Fixtures - Surface & Recessed

410.2 & 410.16 Closet Rated in 1.5HE






- Surface mount linear fixture
- Choose from diffused, polar, or frosted lens options for varying diode visibility and beam angles
- Features all wire feed options
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- 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
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled
- Optional plastic louver accessory available in white or black for added glare control

**INFORMATION REQUIRED FOR LIGHTING SCHEDULE**

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

**ADDITIONAL INFORMATION REQUIRED TO ORDER**

| 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: **TQ1WD-6.0-19/30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

## 1 PRODUCT

**TQ1DW**
**TQ1DW-USA**

Select USA option for BAA and BABA projects.

LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See following pages for compatible power supplies.

**TQ1WD**

LED engine is built with 2 wires suitable for phase dimming control.
See following pages for compatible power supplies.

## 2 WATTS/FT

| | |
|---|---|
| **1.5HE** | 1.5W/ft HE |
| **2.5HE** | 2.5W/ft HE |
| **4.0HE** | 4.0W/ft HE |

| | |
|---|---|
| **1.5HE** | 1.5W/ft HE |
| **2.5HE** | 2.5W/ft HE |

| | |
|---|---|
| **6.0** | 6.0W/ft |

## 3 CCT

| | |
|---|---|
| **18/30** | 1800K/3000K |
| **18/35** | 1800K/3500K |
| **20/27** | 2000K/2700K |
| **20/30** | 2000K/3000K |
| **24/40** | 2400K/4000K |
| **27/40** | 2700K/4000K |
| **27/55** | 2700K/5500K |

| | |
|---|---|
| **18/30** | 1800K/3000K |
| **18/35** | 1800K/3500K |
| **20/27** | 2000K/2700K |
| **20/30** | 2000K/3000K |
| **24/40** | 2400K/4000K |
| **27/40** | 2700K/4000K |
| **27/55** | 2700K/5500K |

| | |
|---|---|
| **19/27** | 1900K/2700K |
| **19/30** | 1900K/3000K |

## 4 RATED

| | |
|---|---|
| **DRY** | IP20 |

| | |
|---|---|
| **DMP** | IP54 |

| | |
|---|---|
| **DRY** | IP20 |
| **DMP** | IP54 |

## 5 EFFICIENCY

| | |
|---|---|
| **STD** | Standard |
| **WO** | White Optics |

WhiteOptics - Internal coating, greater lumen output

## 6 LENS

| | |
|---|---|
| **DF** | Diffused |
| **PR** | Polar |
| **FR** | Frosted |

For representation of LED visibility, see Diode Visibility section on following pages.
For beam angles, see Photometric Performance section on following pages
For optional snap-on louver ordering, see External Louver Accessory section on following pages

## 7 WIRE INPUT/OUTPUT

**SINGLE (Input only)**

| | |
|---|---|
| **S1** | End Feed |
| **S2** | Bottom Feed |
| **S3** | Left Side Feed |
| **S4** | Right Side Feed |

**PASS THROUGH (Input/output)**

| | |
|---|---|
| **P1** | End Feed |
| **P2** | Bottom Feed |
| **P3** | Left Side Feed |
| **P4** | Right Side Feed |

For continuous mounting, consider bottom or side feed

## 8 CONNECTOR/WIRE IN

| | |
|---|---|
| **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" |

BRL only available with TQ1WD
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") |
| **BRL** | Barrel |
| **CON6** | Connector 6" |
| **CON24** | Connector 24" |

BRL only available with TQ1WD
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 |
| **N/A** | For Barrel |

wet barrel only available in black

## 11 WIRE TYPE

| | |
|---|---|
| **CL2** | Class 2 |
| **CL2P** | Plenum Rated |
| **N/A** | For Barrel |

CL2P only available with bare wire leads (BW)

## 12 MOUNTING

| | |
|---|---|
| **SST** | Stainless Steel |
| **M4** | Low Profile Magnet |
| **MG** | Magnet |

## 13 FINISH

| | |
|---|---|
| **ST** | Satin |
| **BK** | Black |
| **BZ** | Bronze |
| **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.

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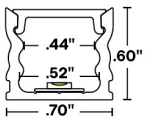
Specification subject to change. Rev-09-01-26

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

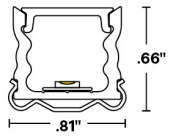
# WARM DIM SWITCH TEST

24VDC Linear Fixtures - Surface & Recessed

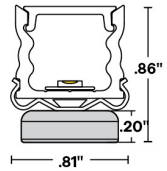
## 1 PRODUCT - DIMENSIONS



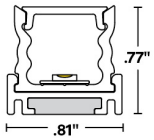

Profile



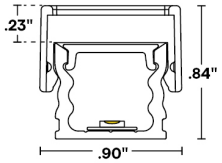

Profile with flat lens, stainless steel mounting clip, and mounting tray



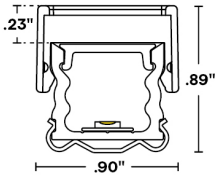

Profile with flat lens and magnet mounting clip



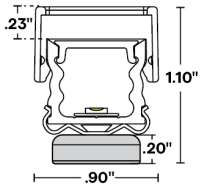

Profile with flat lens and low profile magnet



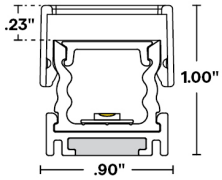

Profile with plastic louver




Profile with flat lens, stainless steel mounting clip, and plastic louver




Profile with flat lens, magnet mounting clip, and plastic louver




Profile with flat lens, low profile magnet, and plastic louver

## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with TQ1WD-6.0-30-DRY-STD

| | 3000K | |
|---|---|---|
| | LM/FT | CRI |
| FR | 376 | 97 |
| PR | 334 | 97 |
| DF | 281 | 97 |

[Calculated L70 = 70000 hrs]
Tested with TQ1DW-**-30-DRY-STD

| | 1.5HE W/FT | | 2.5HE W/FT | | 4.0HE W/FT | |
|---|---|---|---|---|---|---|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| FR | 123 | 98 | 194 | 98 | 302 | 98 |
| PR | 110 | 98 | 174 | 98 | 271 | 98 |
| DF | 100 | 98 | 157 | 98 | 245 | 98 |

[Calculated L70 = 70000 hrs]
Tested with TQ1WD-6.0-30-DRY-WO

| | 6.0 W/FT | |
|---|---|---|
| | LM/FT | CRI |
| FR | 399 | 97 |
| PR | 361 | 97 |
| DF | 320 | 97 |

[Calculated L70 = 70000 hrs]
Tested with TQ1DW-**-30-DRY-WO

| | 1.5HE W/FT | | 2.5HE W/FT | | 4.0HE W/FT | |
|---|---|---|---|---|---|---|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| FR | 135 | 98 | 213 | 98 | 331 | 98 |
| PR | 122 | 98 | 192 | 98 | 299 | 98 |
| DF | 108 | 98 | 171 | 98 | 266 | 98 |

## 6 DIODE VISIBILITY



DF - Diffused lens

PR - Polar lens

FR - Frosted lens

## PHOTOMETRIC PERFORMANCE

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




60°

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Specification subject to change. Rev-09-01-26

# WARM DIM SWITCH TEST

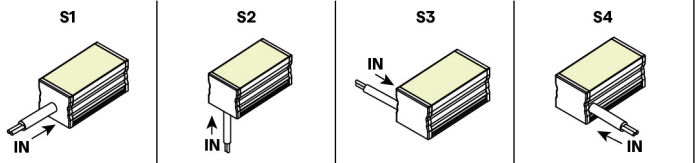
24VDC Linear Fixtures - Surface & Recessed

## TEMPERATURE RATINGS

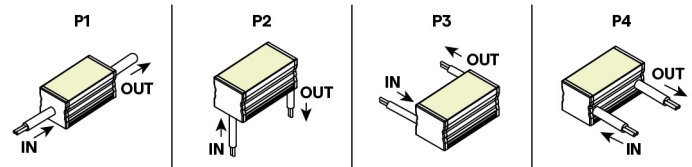
| | | WD 6.0 W/FT | | DW 1.5 HE W/FT | | DW 3.0 HE W/FT | | DW 2.5 HE W/FT | | DW 5.0 HE W/FT | | DW 4.0 HE W/FT | | DW 8.0 HE W/FT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| DRY | Ambient Operating Temp - Surface | -4°F | 120°F | -4°F | 145°F | -4°F | 135°F | -4°F | 140°F | -4°F | 120°F | -4°F | 130°F | -4°F | 110°F |
| DMP | Ambient Operating Temp - Surface | -4°F | 120°F | -4°F | 145°F | -4°F | 135°F | -4°F | 140°F | -4°F | 120°F | — | — | — | — |

## 7 WIRE INPUT/OUTPUT

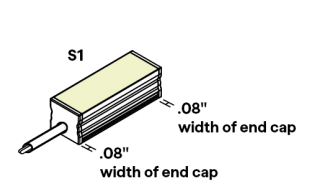
SINGLE (Input only)



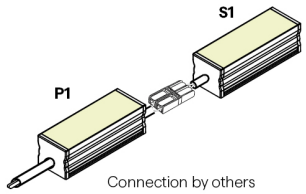

PASS THROUGH (Input/Output)



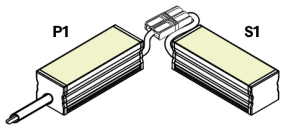

## CONFIGURATION OPTIONS



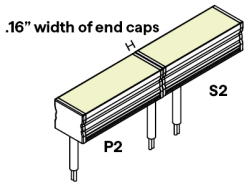

Single End Feed



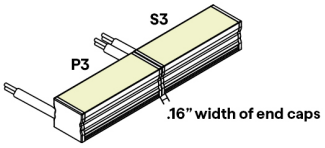

Non-Continuous End Feed



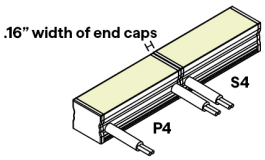

Non-Continuous Corner Feed



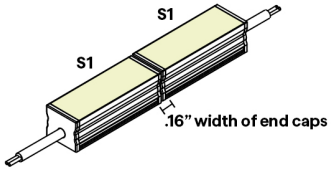

Continuous Bottom Feed




Continuous Side Feed - Left



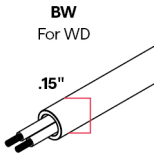

Continuous Side Feed - Right



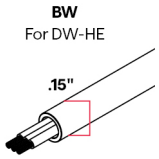

Continuous End to End Feed

## 8/9 CONNECTOR/WIRE – IN/OUT

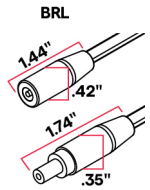
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



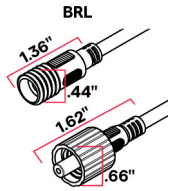

Bare Wire 24"
22 AWG



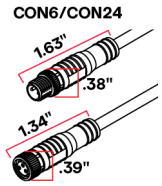

Bare Wire 24"
22 AWG




Barrel 6" - DRY/DMP | 22 AWG

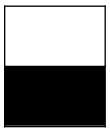



Barrel 6"- WET | 22 AWG




6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

## 10 WIRE COLOR



White

Black

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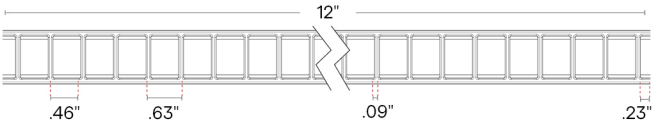
Specification subject to change. Rev-09-01-26

# WARM DIM SWITCH TEST

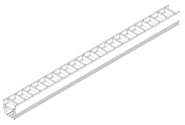
24VDC Linear Fixtures - Surface & Recessed

## EXTERNAL LOUVER ACCESSORY

**PLASTIC**

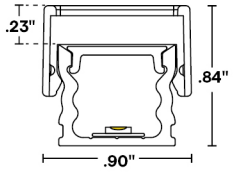



**L1-XX**



Lumen Multiplier

| WH | BK |
|---|---|
| 0.71 | 0.53 |

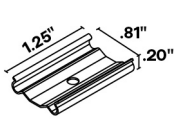



Profile with plastic louver

To order separately use TORQ-L1-FLAT-KIT-WH or TORQ-L1-FLAT-KIT-BK

## 12 MOUNTING

**SST**



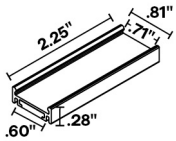

Stainless Steel Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use SST-01

Each clip comes with a #4 x 5/8" Flat Head SS

**M4**

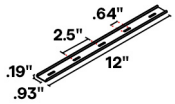



Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

**MMA-04**



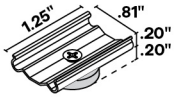

Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

Each bracket comes with 2 #6 x 5/8 Flat Head SS

Required when mounting to a non-magnetic surface

**MG**

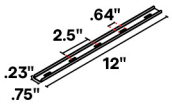



Magnet Clip

One MG provided per foot

To order separately use MG-01

**MMA-01**




Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

## 13 FINISH



Satin

Black

Bronze

Custom finishes require a longer lead time, consult factory

Custom finishes require a longer lead time, consult factory

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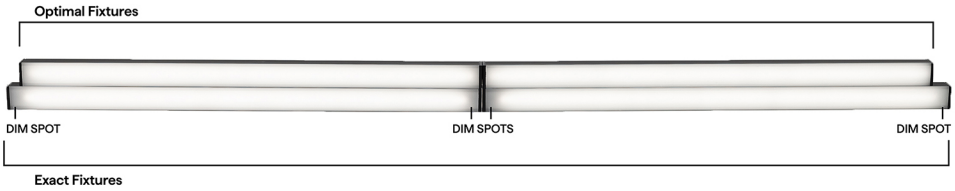
# WARM DIM SWITCH TEST

24VDC Linear Fixtures - Surface & Recessed

## 14 EXACT/OPTIMAL FIXTURE LENGTH

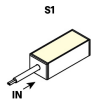
E/O Length Calculator → E/O Explained →

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.



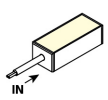
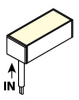
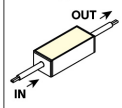
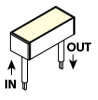
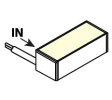
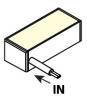
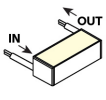
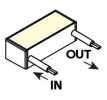

## WD DRY DMP LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture |
|---|---|
| |  |
| 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 | |
|---|---|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |  |
| | End Feed | Bottom Feed | End Feed | Bottom Feed | Side Feed - Left | Side Feed - Right | Side Feed - Left | Side Feed - Right |
| 12" | 10.41" | | 10.66" | | 10.26" | | 10.36" | |
| 13" | 12.41" | | 12.66" | | 12.26" | | 12.36" | |
| 14" | 12.41" | | 12.66" | | 12.26" | | 12.36" | |
| 15" | 14.41" | | 14.66" | | 14.26" | | 14.36" | |
| 16" | 14.41" | | 14.66" | | 14.26" | | 14.36" | |
| 17" | 16.41" | | 16.66" | | 16.26" | | 16.36" | |
| 18" | 16.41" | | 16.66" | | 16.26" | | 16.36" | |
| 19" | 18.41" | | 18.66" | | 18.26" | | 18.36" | |
| 20" | 18.41" | | 18.66" | | 18.26" | | 18.36" | |
| 21" | 20.41" | | 20.66" | | 20.26" | | 20.36" | |
| 22" | 20.41" | | 20.66" | | 20.26" | | 20.36" | |
| 23" | 22.41" | | 22.66" | | 22.26" | | 22.36" | |
| 24" | 22.41" | | 22.66" | | 22.26" | | 22.36" | |
| 36" | 34.41" | | 34.66" | | 34.26" | | 34.36" | |
| 48" | 46.41" | | 46.66" | | 46.26" | | 46.36" | |
| 60" | 58.41" | | 58.66" | | 58.26" | | 58.36" | |
| 72" | 70.41" | | 70.66" | | 70.26" | | 70.36" | |
| 84" | 82.41" | | 82.66" | | 82.26" | | 82.36" | |
| 96" | 94.41" | | 94.66" | | 94.26" | | 94.36" | |



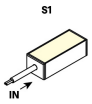
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# WARM DIM SWITCH TEST

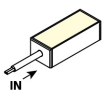
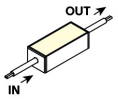
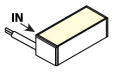
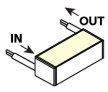
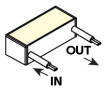
24VDC Linear Fixtures - Surface & Recessed

## DW-HE DRY DMP LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture |
|---|---|
| |   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 | |
|---|---|---|---|---|---|---|---|---|
| |   End Feed |   Bottom Feed |   End Feed |   Bottom Feed |   Side Feed - Left |   Side Feed - Right |   Side Feed - Left |   Side Feed - Right |
| 12" | 10.51" | | 10.86" | | 10.41" | | 10.51" | |
| 13" | 12.51" | | 12.86" | | 12.41" | | 12.51" | |
| 14" | 12.51" | | 12.86" | | 12.41" | | 12.51" | |
| 15" | 14.51" | | 14.86" | | 14.41" | | 14.51" | |
| 16" | 14.51" | | 14.86" | | 14.41" | | 14.51" | |
| 17" | 16.51" | | 16.86" | | 16.41" | | 16.51" | |
| 18" | 16.51" | | 16.86" | | 16.41" | | 16.51" | |
| 19" | 18.51" | | 18.86" | | 18.41" | | 18.51" | |
| 20" | 18.51" | | 18.86" | | 18.41" | | 18.51" | |
| 21" | 20.51" | | 20.86" | | 20.41" | | 20.51" | |
| 22" | 20.51" | | 20.86" | | 20.41" | | 20.51" | |
| 23" | 22.51" | | 22.86" | | 22.41" | | 22.51" | |
| 24" | 22.51" | | 22.86" | | 22.41" | | 22.51" | |
| 36" | 34.51" | | 34.86" | | 34.41" | | 34.51" | |
| 48" | 46.51" | | 46.86" | | 46.41" | | 46.51" | |
| 60" | 58.51" | | 58.86" | | 58.41" | | 58.51" | |
| 72" | 70.51" | | 70.86" | | 70.41" | | 70.51" | |
| 84" | 82.51" | | 82.86" | | 82.41" | | 82.51" | |
| 96" | 94.51" | | 94.86" | | 94.41" | | 94.51" | |

## 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<br>QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+WD<br>QT-CAB-eLED+WD-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+WD<br>QTM-eLED+WD-AWN<br>QZ-DW | QT-CAB-QZ-PH/0-10V<br>QT-CAB-eLED+0-10V<br>QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT6-AWN<br>QTM-eLED+0-10V<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6-AWN<br>QZ-BOWTIE+DIMMER<br>QZ-DMX<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V<br>QZLP |
| 1% | QZ-DALI-DT8 | QTM-eLED(E)<br>QZ-DALI-DT6 |
| 10% | Non-Dim Power Supply with WD App Dongle | Non-Dim Power Supply with SW App Dongle |

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# WARM DIM SWITCH TEST

24VDC Linear Fixtures - Surface & Recessed

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

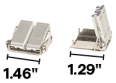
## COMPATIBLE MOUNTING ACCESSORIES

**HINGE - HMB-M**




Adjustable mounting bracket - Medium

**HINGE - HMB-L**




Adjustable mounting bracket - Large

**HINGE - HMB-XL**




Adjustable mounting bracket - XLarge

**Q-PIVOT**




Small mounting accessory

**Q-ANGLE**




Adjustable mounting accessory

**VHB**



Double sided mounting tape

**NJ-MEDIUM**



J Mounting Bracket

**NJ-LARGE**



J Mounting Bracket

**NU-LARGE**



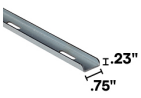
U Mounting Bracket

**SD-J-LARGE**



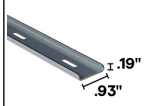
J Mounting Bracket

**MMA-01**




Magnet Mount Accessory of MG-01

**MMA-04**




Magnet Mount Accessory of MG-04

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