

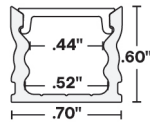
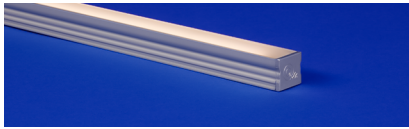


ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



410.2 & 410.16
Closet Rated
in 1.5HE



- Surface mount linear fixture
- Choose from diffused, polar, frosted, clear 60°, or clear 70° lens options for varying diode visibility and beam angles
- Offered with an optional mounting tray
- 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 | 2 | 3 | 4 | 5 | 6 |
|---------|-----------|-----|-------|------------|------|
| PRODUCT | WATTS/ FT | CCT | RATED | EFFICIENCY | LENS |
| | | | | | |

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

1

PRODUCT

TQ1WD

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

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.

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

1.5HE

1.5W/ft HE

2.5HE

2.5W/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

24/30

2400K/3000K

27/40

2700K/4000K

4

RATED

DRY

IP20

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

CL/60

Clear 60°

CL/70

Clear 70°

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)

S1End Feed

S2Bottom Feed

S3Left Side Feed

S4Right Side Feed

PASS THROUGH (Input/output)

P1End Feed

P2Bottom Feed

P3Left Side Feed

P4Right Side Feed

8

CONNECTOR/WIRE IN

BW

BRL

CON6

CON24

Bare Wire (Standard 24")

Barrel

Connector 6"

Connector 24"

BW

BRL

CON6

CON24

Bare Wire (Standard 24")

Barrel

Connector 6"

Connector 24"

9

CONNECTOR/WIRE OUT

CLS

Closed End (No feed)

BW

BRL

CON6

CON24

Bare Wire (Standard 24")

Barrel

Connector 6"

Connector 24"

10

WIRE COLOR

WH

BK

N/A

White

Black

For Barrel

wet barrel only available in black

For continuous mounting, consider bottom or side feed

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)

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)

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

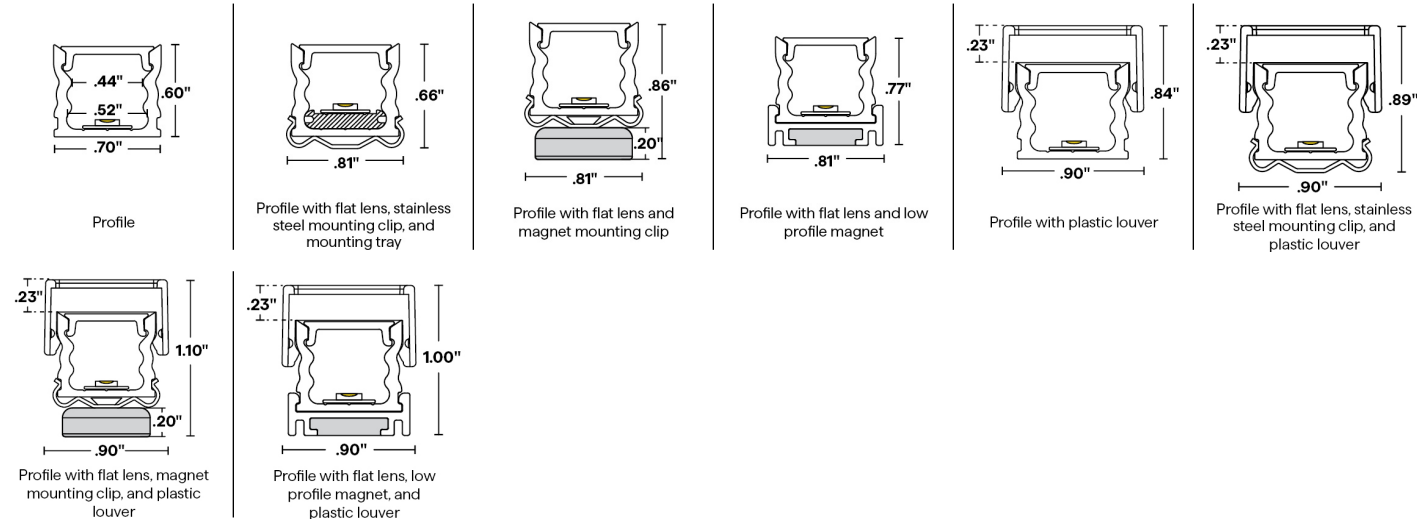
Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.



ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS



2 DELIVERED LUMENS

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

| | 3000K | |
|----|-------|-----|
| | LM/FT | CRI |
| 60 | 394 | 97 |
| 70 | 417 | 97 |
| 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 |
| 60 | 125 | 98 | 198 | 98 | 307 | 98 |
| 70 | 127 | 98 | 200 | 98 | 311 | 98 |
| FR | 123 | 98 | 194 | 98 | 302 | 98 |
| PR | 110 | 98 | 174 | 98 | 271 | 98 |
| DF | 100 | 98 | 157 | 98 | 245 | 98 |

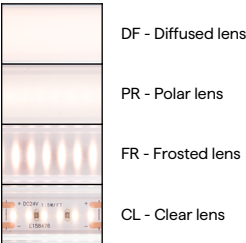
[Calculated L70 = 70000 hrs]
Tested with TQ1WD-6.0-30-DRY-WO

| | 6.0 W/FT | |
|----|----------|-----|
| | LM/FT | CRI |
| 60 | 407 | 97 |
| 70 | 424 | 97 |
| FR | 399 | 97 |
| PR | 361 | 97 |
| DF | 320 | 97 |

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

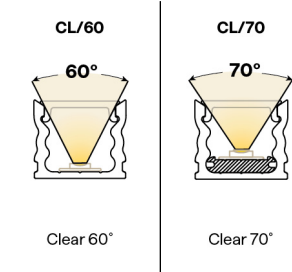
| | 1.5HE W/FT | | 2.5HE W/FT | | 4.0HE W/FT | |
|----|------------|-----|------------|-----|------------|-----|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| 60 | 137 | 98 | 217 | 98 | 338 | 98 |
| 70 | 143 | 98 | 226 | 98 | 352 | 98 |
| FR | 135 | 98 | 213 | 98 | 331 | 98 |
| PR | 122 | 98 | 192 | 98 | 299 | 98 |
| DF | 108 | 98 | 171 | 98 | 266 | 98 |

6 DIODE VISIBILITY



PHOTOMETRIC PERFORMANCE

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





ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

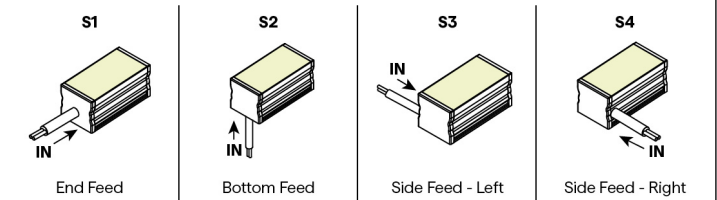
24VDC Linear Fixtures - Surface & Recessed

TEMPERATURE RATINGS

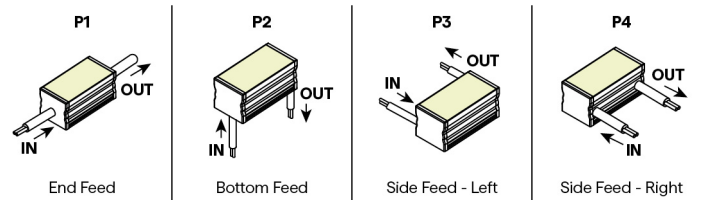
| | | WD 6.0 W/FT | | DW 1.5 HE W/FT | | DW 3.0 HE W/FT | | DW 2.5 HE W/FT | | DW 5.0 HE W/FT | | DW 4.0 HE W/FT | | DW 8.0 HE W/FT | |
|-----|----------------------------------|-------------|-------|---------------------------------------|-------|------------------------------------|-------|---------------------------------------|-------|------------------------------------|-------|---------------------------------------|-------|------------------------------------|-------|
| | | | | 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 | 140°F | -4°F | 130°F | -4°F | 135°F | -4°F | 115°F | ** | ** | ** | ** |

7 WIRE INPUT/OUTPUT

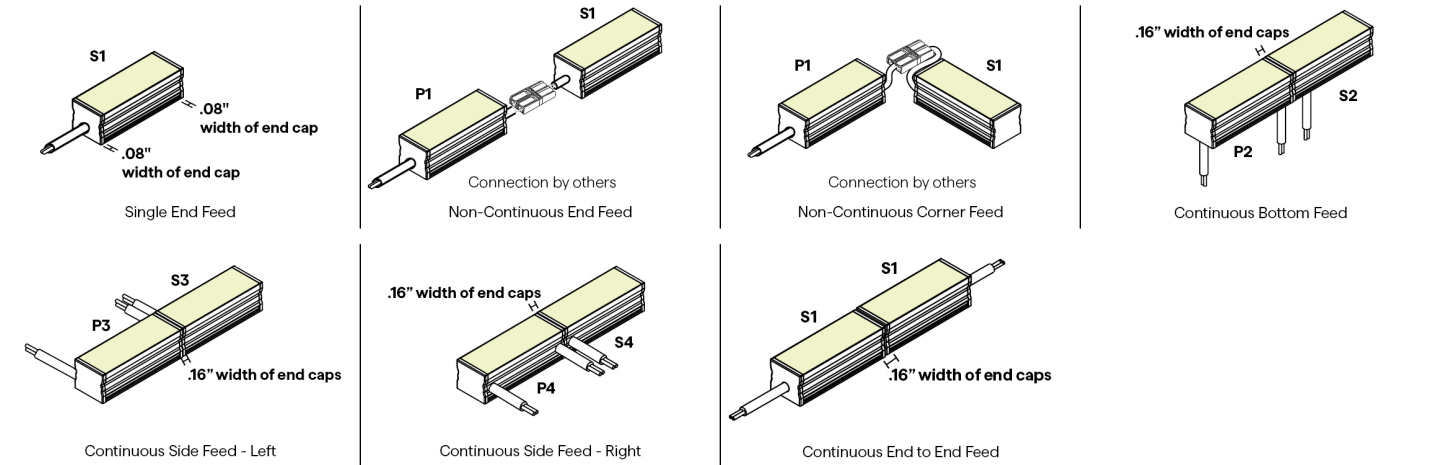
SINGLE (Input only)



PASS THROUGH (Input/Output)

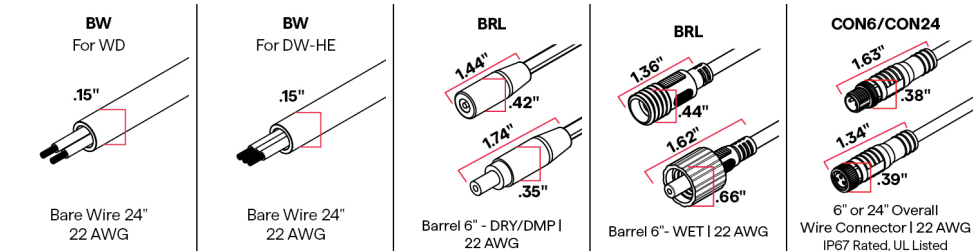


CONFIGURATION OPTIONS



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



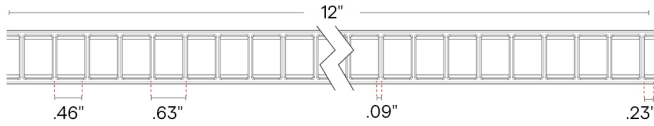


ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

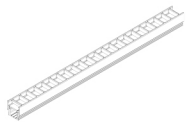
24VDC Linear Fixtures - Surface & Recessed

EXTERNAL LOUVER ACCESSORY

PLASTIC



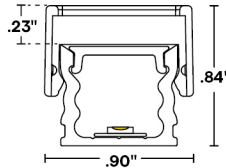
L1-XX



Lumen Multiplier

WH BK

0.71 0.53

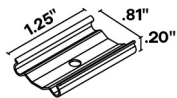


Profile with plastic louver

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

12 MOUNTING

SST



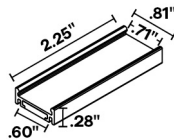
Stainless Steel Clip

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

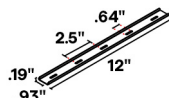


Low Profile Magnet

One M4 provided per foot.

To order separately use
MG-04

MMA-04



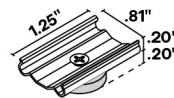
Magnet Mount
Accessory for M4

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

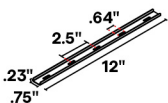


Magnet Clip

One MG provided per foot

To order separately use MG-01

MMA-01



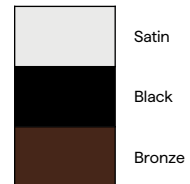
Magnet Mount
Accessory of MG-01

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



Custom finishes require a longer
lead time, consult factory

Custom finishes require a longer
lead time, consult factory



ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

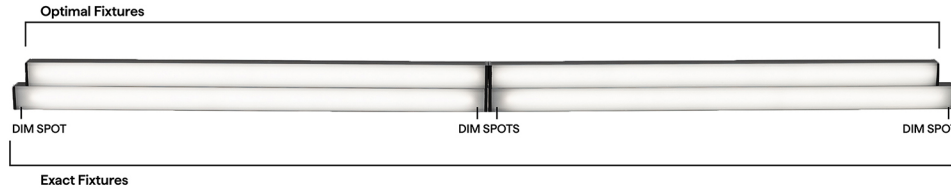
24VDC Linear Fixtures - Surface & Recessed

14 EXACT/OPTIMAL FIXTURE LENGTH

[E/O Length Calculator →](#)

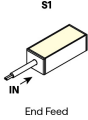
[E/O Explained →](#)

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.

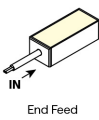
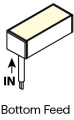
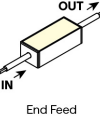
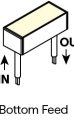
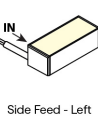
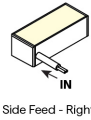
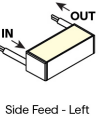
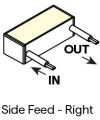


WD DRY LENGTHS BY INCH

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 | |
|--------------------------|--|---|--|--|--|---|--|---|
| |  S1 End Feed |  S2 Bottom Feed |  P1 End Feed |  P2 Bottom Feed |  S3 Side Feed - Left |  S4 Side Feed - Right |  P3 Side Feed - Left |  P4 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" | |



ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

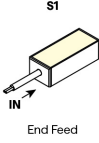
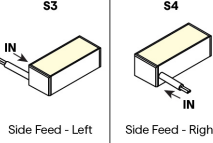
24VDC Linear Fixtures - Surface & Recessed

DW-HE DRY DMP LENGTHS BY INCH

EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture  |
|------------------|---|
| 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  |
|--------------------------|--|---|--|--|
| 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 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-DT6-AWN QTM-eLED+0-10V QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-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 |







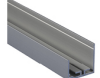



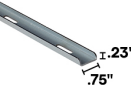
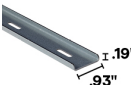


ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

| 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 |

COMPATIBLE MOUNTING ACCESSORIES

| | | | | | | | | | |
|--|---|---|--|--|---|--|--|--|--|
| HINGE - HMB-M  1.41" .71" Adjustable mounting bracket - Medium | HINGE - HMB-L  1.46" 1.29" Adjustable mounting bracket - Large | HINGE - HMB-XL  4" 1.46" Adjustable mounting bracket - XLarge | Q-PIVOT  .75" 1.03" Small mounting accessory | Q-ANGLE  2.23" 1.38" 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  .23" .75" Magnet Mount Accessory of MG-01 | MMA-04  .19" .93" Magnet Mount Accessory of MG-04 | | | | | | | | |