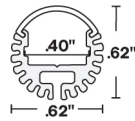
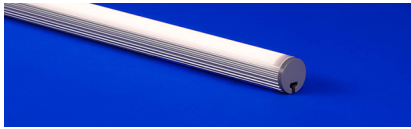




# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface



- Surface mount linear fixture
- Choose from diffused, frosted or clear lens options
- Unique round profile can be rotated up to 45° in field with included mounting clips
- Stainless steel 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
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled



## 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/<br>OUTPUT | CONNECTOR/<br>WIRE IN | CONNECTOR/<br>WIRE OUT | WIRE COLOR | WIRE TYPE | MOUNTING | FINISH | LENGTH (IN) | EXACT/<br>OPTIMAL |
|                       |                       |                        |            |           | SST      |        |             |                   |

Sample Part Number: **RD1WD-6.0-19/30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

|   |   |  |  |  |  |  |   |  |
|---|---|--|--|--|--|--|---|--|
| <div>1</div> <div>PRODUCT</div> <div><div>RD1WD</div><div>LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies.</div></div> <div><div>RD1DW</div><div>RD1DW-USA</div><div>Select USA option for BAA and BABA projects. Only DRY ratings apply.</div><div>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</div></div> | <div>2</div> <div>WATTS/FT</div> <div><div>6.0</div><div>6.0W/ft</div></div> <div><div>1.5HE</div><div>1.5W/ft HE</div></div> <div>2.5HE2.5W/ft HE</div> <div><div>1.5HE</div><div>1.5W/ft HE</div></div> <div>2.5HE2.5W/ft HE</div>  | <div>3</div> <div>CCT</div> <div><div>19/27</div><div>1900K/2700K</div></div> <div>19/301900K/3000K</div> <div><div>20/27</div><div>2000K/2700K</div></div> <div>20/302000K/3000K</div> <div>27/402700K/4000K</div> <div>27/552700K/5500K</div> <div><div>24/30</div><div>2400K/3000K</div></div> <div>27/402700K/4000K</div>  | <div>4</div> <div>RATED</div> <div><div>DRY</div><div>IP20</div></div> <div><div>DRY</div><div>IP20</div></div> <div><div>DMP</div><div>IP54</div></div> | <div>5</div> <div>EFFICIENCY</div> <div><div>STD</div><div>Standard</div></div>  | <div>6</div> <div>LENS</div> <div><div>DF</div><div>Diffused</div></div> <div>FRFrosted</div> <div>CLClear</div> <div>For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages</div> |  |   |  |
| <div>7</div> <div>WIRE INPUT/OUTPUT</div> <div><div>SINGLE (Input only)</div><div>S1End Feed</div></div> <div><div>PASS THROUGH (Input/output)</div><div>P1End Feed</div></div>   | <div>8</div> <div>CONNECTOR/WIRE IN</div> <div><div>BW</div><div>Bare Wire (Standard 24")</div></div> <div>BRLBarrel</div> <div>CON6Connector 6"</div> <div>CON24Connector 24"</div> <div>BRL only available with RD1WD<br/>BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div> <div><div>BW</div><div>Bare Wire (Standard 24")</div></div> <div>BRLBarrel</div> <div>CON6Connector 6"</div> <div>CON24Connector 24"</div> <div>BRL only available with RD1WD<br/>BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div> | <div>9</div> <div>CONNECTOR/WIRE OUT</div> <div><div>CLS</div><div>Closed End (No feed)</div></div> <div><div>BW</div><div>Bare Wire (Standard 24")</div></div> <div>BRLBarrel</div> <div>CON6Connector 6"</div> <div>CON24Connector 24"</div> <div>BRL only available with RD1WD<br/>BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div> | <div>10</div> <div>WIRE COLOR</div> <div><div>WH</div><div>White</div></div> <div>BKBlack</div> <div>N/AFor Barrel</div>                                 | <div>11</div> <div>WIRE TYPE</div> <div><div>CL2</div><div>Class 2</div></div> <div>CL2PPlenum Rated</div> <div>N/AFor Barrel</div> <div>CL2P only available with bare wire leads (BW)</div> | <div>12</div> <div>MOUNTING</div> <div><div>SST</div><div>Stainless Steel</div></div>  | <div>13</div> <div>FINISH</div> <div><div>ST</div><div>Satin</div></div> <div>BKBlack</div> <div>CUCustom</div> <div>Custom finishes require a longer lead time, consult factory</div> | <div>14</div> <div>LENGTH (IN)</div> <div><div>Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".</div></div> | <div>15</div> <div>EXACT/OPTIMAL</div> <div><div>O</div><div>Optimal Illumination</div></div> <div>EExact Specified Length</div> <div>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.</div> |

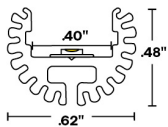
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



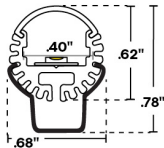
# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

## 1 PRODUCT - DIMENSIONS



Profile



Profile with stainless steel mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]  
Tested with RD1WD-6.0-30-DRY-STD

|    | 3000K |     |
|----|-------|-----|
|    | LM/FT | CRI |
| CL | 387   | 97  |
| FR | 377   | 97  |
| DF | 300   | 97  |

[Calculated L70 = 70000 hrs]  
Tested with RD1DW-\*\*-30-DRY-STD

|    | 1.5HE W/FT |     | 2.5HE W/FT |     |
|----|------------|-----|------------|-----|
|    | LM/FT      | CRI | LM/FT      | CRI |
| CL | 148        | 98  | 233        | 98  |
| FR | 144        | 98  | 228        | 98  |
| DF | 126        | 98  | 199        | 98  |

## 6 DIODE VISIBILITY



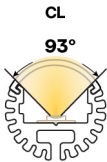
DF - Diffused lens

FR - Frosted lens

CL - Clear lens

## PHOTOMETRIC PERFORMANCE

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



Clear 93°

## 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                        |       |
|-----|----------------------------------|---------------------------------------|-------|-----------------------------------|-------|---------------------------------------|-------|-----------------------------------|-------|---------------------------------------|-------|
|     |                                  | 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 |       |
|     |                                  | Min                                   | Max   | Min                               | Max   | Min                                   | Max   | Min                               | Max   | Min                                   | Max   |
| DRY | Ambient Operating Temp - Surface | -13°F                                 | 110°F | -4°F                              | 140°F | -4°F                                  | 125°F | -4°F                              | 135°F | -4°F                                  | 110°F |
| DMP | Ambient Operating Temp - Surface | **                                    | **    | -4°F                              | 140°F | -4°F                                  | 120°F | -4°F                              | 130°F | -4°F                                  | 105°F |



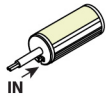
# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface

## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)

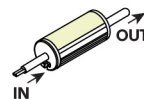
S1



End Feed

PASS THROUGH (Input/Output)

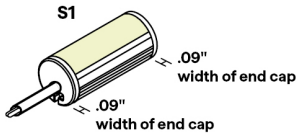
P1



End Feed

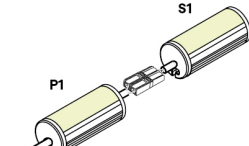
## CONFIGURATION OPTIONS

S1



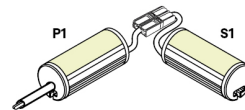
Single End Feed

P1



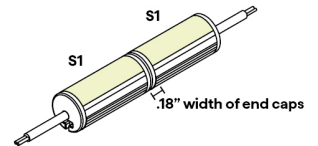
Connection by others  
Non-Continuous End Feed

P1



Connection by others  
Non-Continuous Corner Feed

S1



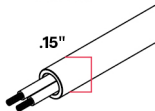
Continuous End to End Feed

## 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

BW

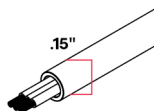
For WD



Bare Wire 24"  
22 AWG

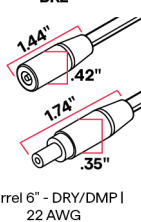
BW

For DW-HE



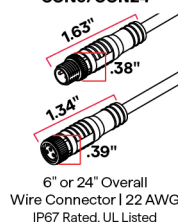
Bare Wire 24"  
22 AWG

BRL



Barrel 6" - DRY/DMP |  
22 AWG

CON6/CON24



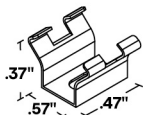
6" or 24" Overall  
Wire Connector | 22 AWG  
IP67 Rated, UL Listed

## 10 WIRE COLOR



## 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-07

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

## 13 FINISH



Custom finishes require a longer  
lead time, consult factory



# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

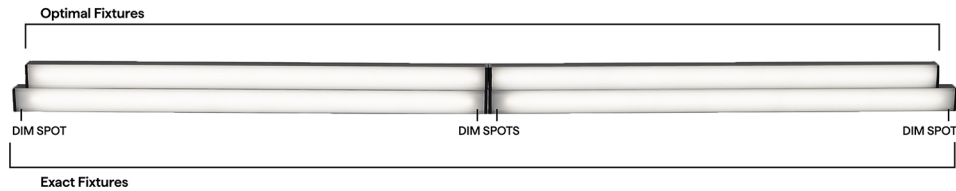
## 24VDC Linear Fixtures - Surface

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.



### WD DRY, DMP 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 +0 - 1/8". Consult factory for lengths under 12".

#### EXACT LENGTH

| Requested Length | Potential dim spot on either end of 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: highlighted rows are closest to requested nominal length

| Requested Nominal Length | S1 & S2              |                         | P1 & P2              |                         |
|--------------------------|----------------------|-------------------------|----------------------|-------------------------|
|                          | S1<br>End Feed<br>IN | S2<br>Bottom Feed<br>IN | P1<br>End Feed<br>IN | P2<br>Bottom Feed<br>IN |
| 12"                      |                      |                         |                      |                         |
| 13"                      |                      |                         |                      |                         |
| 14"                      |                      |                         |                      |                         |
| 15"                      |                      |                         |                      |                         |
| 16"                      |                      |                         |                      |                         |
| 17"                      |                      |                         |                      |                         |
| 18"                      |                      |                         |                      |                         |
| 19"                      |                      |                         |                      |                         |
| 20"                      |                      |                         |                      |                         |
| 21"                      |                      |                         |                      |                         |
| 22"                      |                      |                         |                      |                         |
| 23"                      |                      |                         |                      |                         |
| 24"                      |                      |                         |                      |                         |
| 36"                      |                      |                         |                      |                         |
| 48"                      |                      |                         |                      |                         |
| 60"                      |                      |                         |                      |                         |
| 72"                      |                      |                         |                      |                         |
| 84"                      |                      |                         |                      |                         |
| 96"                      |                      |                         |                      |                         |



# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

## 24VDC Linear Fixtures - Surface

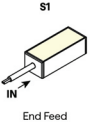
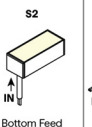
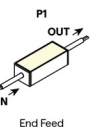
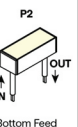
### DW-HE DRY, DMP LENGTHS BY INCH

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 +0 - 1/8". Consult factory for lengths under 12".

#### EXACT LENGTH

| Requested Length | Potential dim spot on either end of 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: highlighted rows are closest to requested nominal length

| Requested Nominal Length | S1 & S2   |   | P1 & P2   |  |
|--------------------------|---|---|---|--|
|                          |  |  |  |  |
| 12"                      |   | 10.51"  |   | 10.86"   |
| 13"                      |   | 12.51"  |   | 12.86"   |
| 14"                      |   | 12.51"  |   | 12.86"   |
| 15"                      |   | 14.51"  |   | 14.86"   |
| 16"                      |   | 14.51"  |   | 14.86"   |
| 17"                      |   | 16.51"  |   | 16.86"   |
| 18"                      |   | 16.51"  |   | 16.86"   |
| 19"                      |   | 18.51"  |   | 18.86"   |
| 20"                      |   | 18.51"  |   | 18.86"   |
| 21"                      |   | 20.51"  |   | 20.86"   |
| 22"                      |   | 20.51"  |   | 20.86"   |
| 23"                      |   | 22.51"  |   | 22.86"   |
| 24"                      |   | 22.51"  |   | 22.86"   |
| 36"                      |   | 34.51"  |   | 34.86"   |
| 48"                      |   | 46.51"  |   | 46.86"   |
| 60"                      |   | 58.51"  |   | 58.86"   |
| 72"                      |   | 70.51"  |   | 70.86"   |
| 84"                      |   | 82.51"  |   | 82.86"   |
| 96"                      |   | 94.51"  |   | 94.86"   |

### 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-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   |



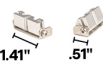
# ESSENTIALS ROND-FLAT (01) WARM DIM APPLICATIONS

## 24VDC Linear Fixtures - Surface

| 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-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-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,<br>wattage must be<br>doubled                           |   | QZ-DMX  |
| DALI-2: DT6<br>If using DW LED,<br>wattage must be<br>doubled except for<br>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,<br>wattage must be<br>doubled except for<br>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-S



1.41" .51"

Adjustable mounting bracket - Small

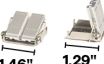
HINGE - HMB-M



1.41" .71"

Adjustable mounting bracket - Medium


HINGE - HMB-L



1.46" 1.29"

Adjustable mounting bracket - Large


HINGE - HMB-XL



1.46" 4"

Adjustable mounting bracket - XLarge


Q-PIVOT



.75" 1.03"

Small mounting accessory

Q-ANGLE



2.23" 1.38"

Adjustable mounting accessory