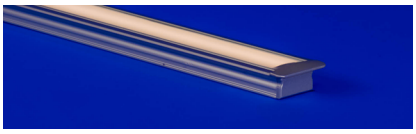
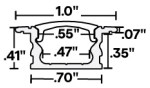
# ESSENTIALS LATO-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

410.2 & 410.16 Closet Rated in 1.5HE






- Shallow flanged recessed fixture
- Choose from diffused, polar, frosted, or clear lens options for varying diode visibility and beam angles
- Flanged design merges light source with surface
- 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

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

Sample Part Number: **LT1WD-6.0-19/30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

## 1 PRODUCT

**LT1WD**

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

**LT1DW**
**LT1DW-USA**

Select USA option for BAA and BABA projects. Only DRY ratings apply.

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 |
| **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** | Clear |

For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages

## 7 WIRE INPUT/OUTPUT

| | |
|---|---|
| **S1** | Single 1 (Input only) - End Feed |
| **S2** | Single 2 (Input only) - Bottom Feed |
| **P1** | Pass Through 1 (Input/output) - End Feed |
| **P2** | Pass Through 2 (Input/output) - Bottom Feed |

For continuous mounting, consider bottom 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 LT1WD
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 LT1WD
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 |

## 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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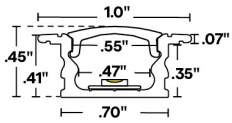
Specification subject to change. Rev-01-13-26

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

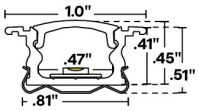
# ESSENTIALS LATO-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

## 1 PRODUCT - DIMENSIONS




Profile with flat lens




Profile with stainless steel mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with LT1WD-6.0-30-DRY-STD

| | 3000K | |
|---|---|---|
| | LM/FT | CRI |
| CL | 389 | 97 |
| FR | 377 | 97 |
| PR | 348 | 97 |
| DF | 306 | 97 |

[Calculated L70 = 70000 hrs]
Tested with LT1DW-**-30-DRY-STD

| | 1.5HE W/FT | | 2.5HE W/FT | | 4.0HE W/FT | |
|---|---|---|---|---|---|---|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| CL | 138 | 98 | 218 | 98 | 363 | 98 |
| FR | 137 | 98 | 217 | 98 | 363 | 98 |
| PR | 115 | 98 | 181 | 98 | 336 | 98 |
| DF | 109 | 98 | 172 | 98 | 288 | 98 |

[Calculated L70 = 70000 hrs]
Tested with LT1WD-6.0-30-DRY-WO

| | 3000K | |
|---|---|---|
| | LM/FT | CRI |
| CL | 439 | 97 |
| FR | 436 | 97 |
| PR | 404 | 97 |
| DF | 347 | 97 |

[Calculated L70 = 70000 hrs]
Tested with LT1DW-**-30-DRY-WO

| | 1.5HE W/FT | | 2.5HE W/FT | | 4.0HE W/FT | |
|---|---|---|---|---|---|---|
| | LM/FT | CRI | LM/FT | CRI | LM/FT | CRI |
| CL | 148 | 98 | 234 | 98 | 381 | 98 |
| FR | 147 | 98 | 232 | 98 | 381 | 98 |
| PR | 137 | 98 | 216 | 98 | 353 | 98 |
| DF | 117 | 98 | 185 | 98 | 303 | 98 |

## 6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

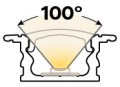
FR - Frosted lens

CL - Clear lens

## PHOTOMETRIC PERFORMANCE

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

**CL**




Clear 100°

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# ESSENTIALS LATO-FLAT (01) WARM DIM APPLICATIONS

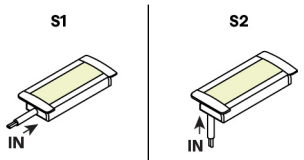
24VDC Linear Fixtures - Recessed

## TEMPERATURE RATINGS

| | | | | DW 1.5 HE W/FT | | DW 3.0 HE W/FT | | DW 2.5 HE W/FT | | DW 5.0 HE W/FT | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WD 6.0 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 | |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| DRY | Ambient Operating Temp - Recessed | -4°F | 110°F | -4°F | 140°F | -4°F | 125°F | -4°F | 130°F | -4°F | 110°F |
| | Ambient Operating Temp - Surface | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** |
| DMP | Ambient Operating Temp - Recessed | ** | ** | -4°F | 135°F | -4°F | 120°F | -4°F | 125°F | -4°F | 105°F |
| | Ambient Operating Temp - Surface | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** |

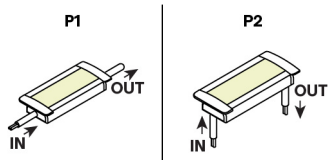
## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)



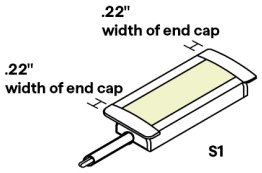

End Feed | Bottom Feed

PASS THROUGH (Input/Output)

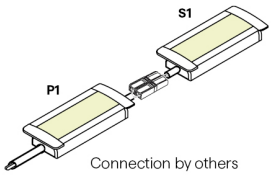



End Feed | Bottom Feed

## CONFIGURATION OPTIONS

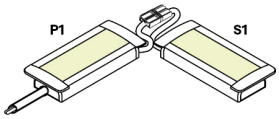



Single End Feed



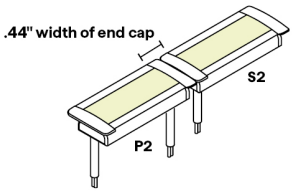

Connection by others

Non-Continuous End Feed

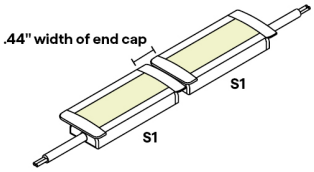



Connection by others

Non-Continuous Corner Feed




Non-Continuous Bottom Feed




Non-Continuous End to End Feed

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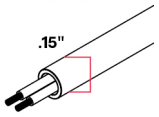
# ESSENTIALS LATO-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

## 8/9 CONNECTOR/WIRE – IN/OUT

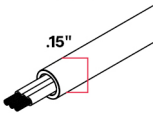
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

**BW**
For WD



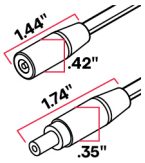

Bare Wire 24"
22 AWG

**BW**
For DW-HE



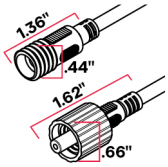

Bare Wire 24"
22 AWG

**BRL**



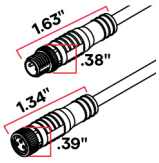

Barrel 6" - DRY/DMP | 22 AWG

**BRL**




Barrel 6"- WET | 22 AWG

**CON6/CON24**



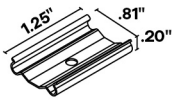

6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

## 10 WIRE COLOR

- White
- Black

## 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

## 13 FINISH

- Satin
- Black
- Bronze

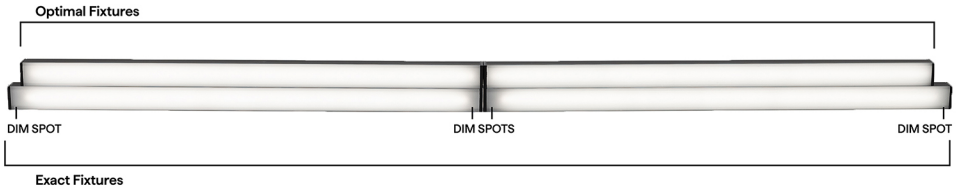
Custom finishes require a longer lead time, consult factory

Custom finishes require a longer lead time, consult factory

## 14 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →  E/O Explained →

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

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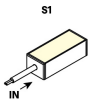
# ESSENTIALS LATO-FLAT (01) WARM DIM APPLICATIONS

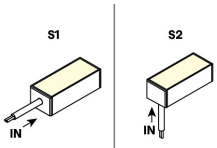
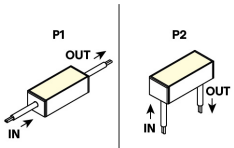
24VDC Linear Fixtures - Recessed

## WD DRY LENGTHS BY INCH

### EXACT LENGTH

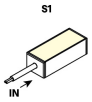
| Requested Length | Potential dim spot on either end of a S1 fixture   End Feed |
|---|---|
| 12" | 1" |
| 13" | 0.5" |
| 14" | 1" |
| 15" | 0.5" |
| 16" | 1" |
| 17" | 0.5" |
| 18" | 1" |
| 19" | 0.5" |
| 20" | 1" |
| 21" | 0.5" |
| 22" | 1" |
| 23" | 0.5" |
| 24" | 1" |
| 36" | 1" |
| 48" | 1" |
| 60" | 1" |
| 72" | 1" |
| 84" | 1" |
| 96" | 1" |

### OPTIMAL LENGTH

| Requested Nominal Length | S1 & S2   | | P1 & P2   | |
|---|---|---|---|---|
| | End Feed | Bottom Feed | End Feed | Bottom Feed |
| 12" | 10.41" | | 10.66" | |
| 13" | 12.41" | | 12.66" | |
| 14" | 12.41" | | 12.66" | |
| 15" | 14.41" | | 14.66" | |
| 16" | 14.41" | | 14.66" | |
| 17" | 16.41" | | 16.66" | |
| 18" | 16.41" | | 16.66" | |
| 19" | 18.41" | | 18.66" | |
| 20" | 18.41" | | 18.66" | |
| 21" | 20.41" | | 20.66" | |
| 22" | 20.41" | | 20.66" | |
| 23" | 22.41" | | 22.66" | |
| 24" | 22.41" | | 22.66" | |
| 36" | 34.41" | | 34.66" | |
| 48" | 46.41" | | 46.66" | |
| 60" | 58.41" | | 58.66" | |
| 72" | 70.41" | | 70.66" | |
| 84" | 82.41" | | 82.66" | |
| 96" | 94.41" | | 94.66" | |

## 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" |
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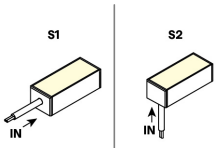
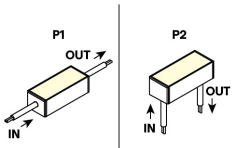
| 22" | 1" |
| 23" | 0.5" |
| 24" | 1" |
| 36" | 1" |
| 48" | 1" |
| 60" | 1" |
| 72" | 1" |
| 84" | 1" |
| 96" | 1" |

### OPTIMAL LENGTH

| Requested Nominal Length | S1 & S2   | | P1 & P2   | |
|---|---|---|---|---|
| | End Feed | Bottom Feed | End Feed | Bottom Feed |
| 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" | |

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# ESSENTIALS LATO-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

## COMPATIBLE POWER SUPPLIES

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

| DIM TO LEVEL | INDOOR | |
|---|---|---|
| | 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 |

| 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, 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 |

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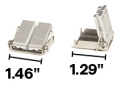
# ESSENTIALS LATO-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Recessed

## COMPATIBLE MOUNTING ACCESSORIES

| HINGE - HMB-M | HINGE - HMB-L | HINGE - HMB-XL | Q-PIVOT | Q-ANGLE | VHB |
|---|---|---|---|---|---|
| |   | | | | |
| Adjustable mounting bracket - Medium | Adjustable mounting bracket - Large | Adjustable mounting bracket - XLarge | Small mounting accessory | Adjustable mounting accessory | Double sided mounting tape |

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