



# ESSENTIALS LALO-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

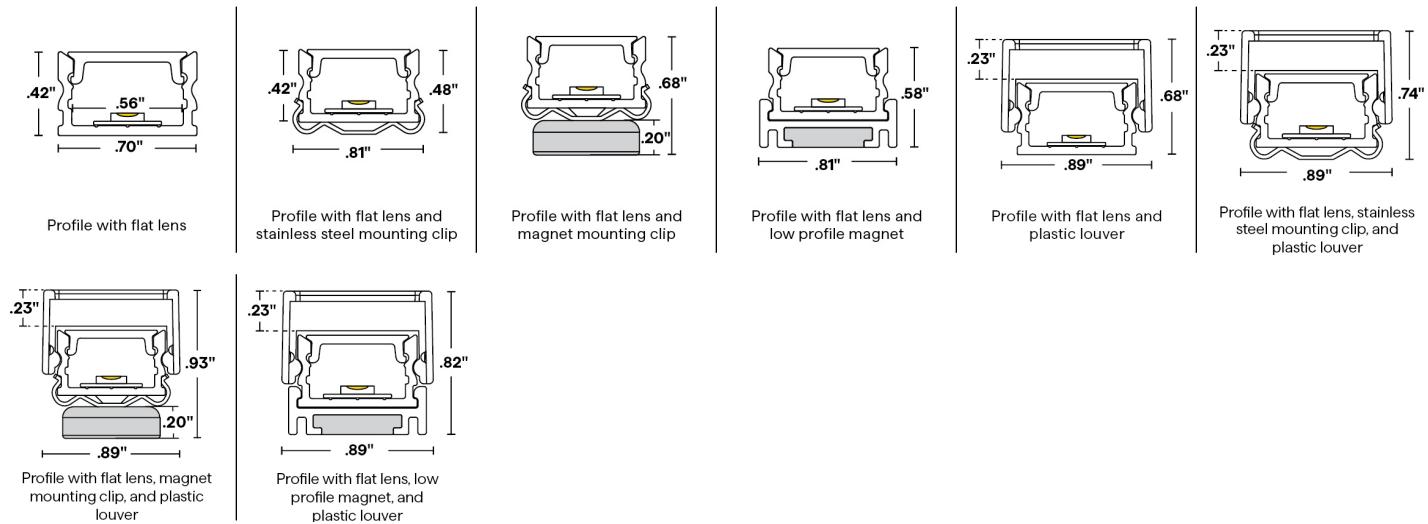




# ESSENTIALS LALO-FLAT (01) FOR TUNABLE APPLICATIONS

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## 1 PRODUCT - DIMENSIONS



## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]  
Tested with LL1DW-\*\*-30-DRY-STD

|    | 1.5HE W/FT | 2.5HE W/FT | LM/FT | CRI | LM/FT | CRI |
|----|------------|------------|-------|-----|-------|-----|
| CL | 140        | 98         | 222   | 98  |       |     |
| FR | 140        | 98         | 221   | 98  |       |     |
| PR | 126        | 98         | 199   | 98  |       |     |
| DF | 113        | 98         | 179   | 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.



Clear 78°



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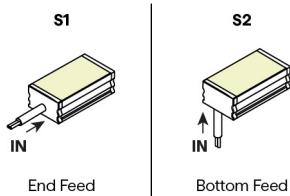
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## TEMPERATURE RATINGS

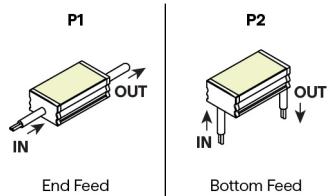
|     |                                  | DW 1.5 HE W/FT                        | DW 3.0 HE W/FT                     | DW 2.5 HE W/FT                        | DW 5.0 HE W/FT                     |      |       |      |       |
|-----|----------------------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|------|-------|------|-------|
|     |                                  | 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   |      |       |
| DRY | Ambient Operating Temp - Surface | -13°F                                 | 105°F                              | -4°F                                  | 120°F                              | -4°F | 135°F | -4°F | 120°F |
| DMP | Ambient Operating Temp - Surface | -4°F                                  | 140°F                              | -4°F                                  | 130°F                              | -4°F | 130°F | -4°F | 115°F |
| WET | Ambient Operating Temp - Surface | -4°F                                  | 140°F                              | -4°F                                  | 130°F                              | -4°F | 130°F | -4°F | 115°F |

## 7 WIRE INPUT/OUTPUT

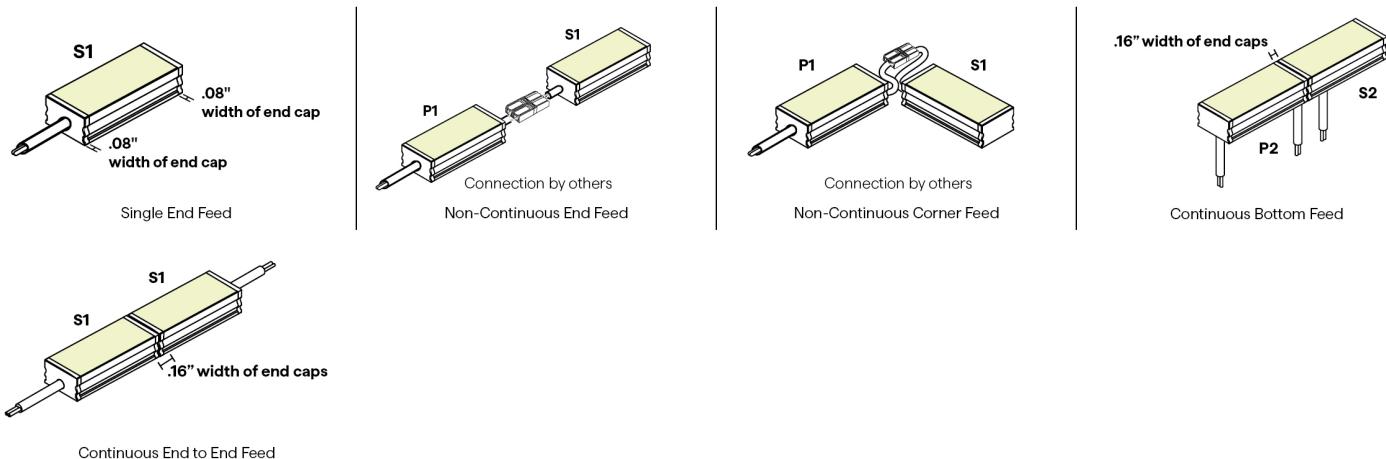
SINGLE (Input only)



PASS THROUGH (Input/Output)

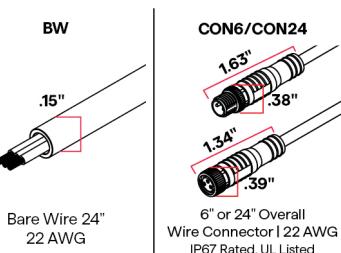


## CONFIGURATION OPTIONS

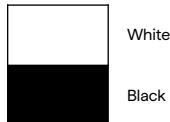


## 8 / 9 CONNECTOR/WIRE - IN/OUT

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

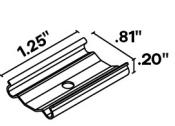
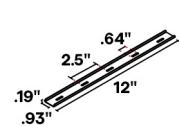
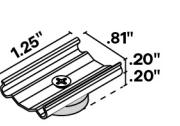




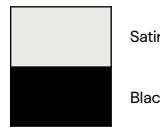
# ESSENTIALS LALO-FLAT (01) FOR TUNABLE APPLICATIONS

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## 12 MOUNTING

| SST  | M4  | MMA-04   | MG  |
|--|---|--|---|
| <br>Stainless Steel Clip  | <br>Low Profile Magnet | <br>Magnet Mount Accessory for M4                           | <br>Magnet Clip |
| 2 clips provided for 4' or less; 4 clips provided for greater than 4'<br>To order separately use SST-01<br>Each clip comes with a #4 x 5/8" Flat Head SS | One M4 provided per foot.<br>To order separately use MG-04  | Sold separately, to order use MMA-04<br>Each bracket comes with 2 #6 x 5/8" Flat Head SS<br>Required when mounting to a non-magnetic surface | One MG provided per foot<br>To order separately use MG-01   |
|  |   |  |   |

## 13 FINISH



Custom finishes require a longer lead time, consult factory

### MMA-01

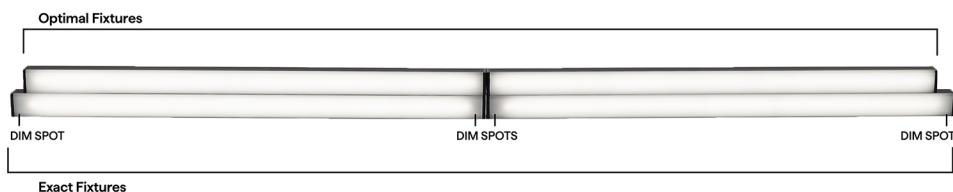
|   |
|---|
| <br>Magnet Mount Accessory of MG-01 |
| Sold separately, to order use MMA-01  |
| Each bracket comes with 2 #6 x 5/8" Flat Head SS  |
| Required when mounting to a non-magnetic surface  |

## 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.





# ESSENTIALS LALO-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

## 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        |                   |
|--------------------------|----------------|-------------------|----------------|-------------------|
|                          | S1<br>End Feed | S2<br>Bottom Feed | P1<br>End Feed | P2<br>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"         |                   |

## DW-HE WET 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 | S2<br>Bottom Feed | P1<br>End Feed | P2<br>Bottom Feed |
| 12"                      | 10.66"         |                   | 11.06"         |                   |
| 13"                      | 12.66"         |                   | 11.06"         |                   |
| 14"                      | 12.66"         |                   | 13.06"         |                   |
| 15"                      | 14.66"         |                   | 13.06"         |                   |
| 16"                      | 14.66"         |                   | 15.06"         |                   |
| 17"                      | 16.66"         |                   | 15.06"         |                   |
| 18"                      | 16.66"         |                   | 17.06"         |                   |
| 19"                      | 18.66"         |                   | 17.06"         |                   |
| 20"                      | 18.66"         |                   | 19.06"         |                   |
| 21"                      | 20.66"         |                   | 19.06"         |                   |
| 22"                      | 20.66"         |                   | 21.06"         |                   |
| 23"                      | 22.66"         |                   | 21.06"         |                   |
| 24"                      | 22.66"         |                   | 23.06"         |                   |
| 36"                      | 34.66"         |                   | 35.06"         |                   |
| 48"                      | 46.66"         |                   | 47.06"         |                   |
| 60"                      | 58.66"         |                   | 59.06"         |                   |
| 72"                      | 70.66"         |                   | 71.06"         |                   |
| 84"                      | 82.66"         |                   | 83.06"         |                   |
| 96"                      | 94.66"         |                   | 95.06"         |                   |



# ESSENTIALS LALO-FLAT (01) FOR TUNABLE APPLICATIONS

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## COMPATIBLE POWER SUPPLIES

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

| DIM TO LEVEL | INDOOR  | OUTDOOR   |
|--------------|---|---|
|              | DW-HE Tunable Applications  | DW-HE Tunable Applications  |
| 0.1%         | QT-CAB-eLED+DALI-DT6<br>QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+TW<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+DALI-DT6<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+TW<br>QTM-eLED+TW-AWN<br>QZ-DMX | Q-SET-QZ-DMX<br>QOM-eLED+DALI-DT6<br>QOM-eLED+DALI-DT8<br>QOM-eLED+PS-DALI-DT6<br>QOM-eLED+PS-DALI-DT8<br>QOM-eLED+TW<br>QZ-DMX |
| 1%           | QZ-DALI-DT8   | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8  |
| 10%          | Non-Dim Power Supply with TW App Dongle   |   |

| DIMMING PROTOCOL   | INDOOR  | OUTDOOR   |
|--|---|---|
|  | DW-HE Tunable Applications  | DW-HE Tunable Applications                            |
| 0-10V  | QT-CAB-eLED+TW<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+TW<br>QTM-eLED+TW-AWN  | QOM-eLED+TW   |
| Lutron Athena  | QT-CAB-eLED+DALI-DT8-AWN<br>QT-CAB-eLED+TW-AWN<br>QTM-eLED+DALI-DT8-AWN<br>QTM-eLED+TW-AWN                    |   |
| DMX<br>LED wattage must be doubled for DW-HE products                        | QZ-DMX  | Q-SET-QZ-DMX<br>QZ-DMX                                |
| DALI-2: DT6<br>LED wattage must be doubled for DW-HE products except for AWN | QT-CAB-eLED+DALI-DT6<br>QTM-eLED+DALI-DT6   | QOM-eLED+DALI-DT6                                     |
| DALI-2: DT8<br>LED wattage must be doubled for DW-HE products 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 | Q-SET+QZ-DALI-DT8<br>QOM-eLED+DALI-DT8<br>QZ-DALI-DT8 |
| SCENE App Dimmed   | Non-Dim Power Supply with TW App Dongle   |   |



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## COMPATIBLE MOUNTING ACCESSORIES

|               |               |                |            |             |                  |                            |                    |                    |                                 |
|---------------|---------------|----------------|------------|-------------|------------------|----------------------------|--------------------|--------------------|---------------------------------|
| HINGE - HMB-M | HINGE - HMB-L | HINGE - HMB-XL | Q-PIVOT    | Q-ANGLE     | QUOVA-STANDARD   | VHB                        | NJ-MEDIUM          | SD-L-MEDIUM        | MMA-01                          |
| 1.41" .71"    | 1.46" 1.29"   | 4" 1.46"       | .75" 1.03" | 2.23" 1.38" | QUOVA Knife Edge | Double sided mounting tape | J Mounting Bracket | L Mounting Bracket | Magnet Mount Accessory of MG-01 |

MMA-04



Magnet Mount Accessory  
of MG-04