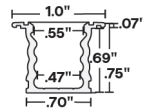
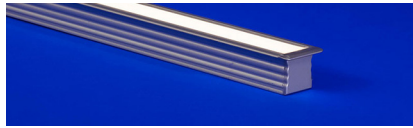




# ESSENTIALS FLUR™- ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

## 24VDC Linear Fixtures - Recessed



- Deep flanged recessed fixture
- Features high quality LED strips encapsulated in polyurethane in a rigid extrusion providing a robust fixture
- Encapsulation available in clear or translucent
- Suitable for indoor and outdoor locations (IK10)
- Offered with an optional mounting tray
- Features two wire feed options
- Stainless steel mounting clips
- Features painted end caps to match extrusion finish or clear end caps to achieve seamless appearance of long runs
- 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 where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled

| 1       | 2         | 3   | 4     | 5          | 6    | 7                  | 8                  | 9                   | 10            | 11             | 12         | 13        | 14       | 15     | 16          | 17             |
|---------|-----------|-----|-------|------------|------|--------------------|--------------------|---------------------|---------------|----------------|------------|-----------|----------|--------|-------------|----------------|
| PRODUCT | WATTS/ FT | CCT | RATED | EFFICIENCY | LENS | WIRE INPUT/ OUTPUT | CONNECTOR/ WIRE IN | CONNECTOR/ WIRE OUT | INPUT END CAP | OUTPUT END CAP | WIRE COLOR | WIRE TYPE | MOUNTING | FINISH | LENGTH (IN) | EXACT/ OPTIMAL |
|         |           |     | ENC   |            |      |                    |                    |                     | STD           | STD            |            |           | SST      |        |             |                |

Sample Part Number: **FL3DW-6.0-24/30-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-ST-48"-E**

1

PRODUCT

FL3DW

FL3DW-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

1.5HE

1.5W/ft HE

2.5HE

2.5W/ft HE

3

CCT

24/30

2400K/3000K

27/40

2700K/4000K

4

RATED

ENC

IP67

5

EFFICIENCY

STD

Standard

WO

White Optics

WhiteOptics - Internal coating, greater lumen output

6

LENS

CL

Clear

TL

Translucent

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

8

CONNECTOR/WIRE IN

BW

Bare Wire (Standard 24")

CON6

Connector 6"

CON24

Connector 24"

BW

Bare Wire (Standard 24")

CON6

Connector 6"

CON24

Connector 24"

9

CONNECTOR/WIRE OUT

CLS

Closed End (No feed)

BW

Bare Wire (Standard 24")

CON6

Connector 6"

CON24

Connector 24"

For continuous mounting, consider bottom feed

BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

10

INPUT END CAP

STD

Standard

STD - End cap matches fixture finish chosen

11

OUTPUT END CAP

STD

Standard

STD - End cap matches fixture finish chosen

12

WIRE COLOR

WH

White

BK

Black

13

WIRE TYPE

CL2

Class 2

CL2P

Plenum Rated

CL2P only available with bare wire leads (BW)

14

MOUNTING

SST

Stainless Steel

15

FINISH

ST

Satin

BK

Black

CU

Custom

Custom finishes require a longer lead time, consult factory

16

LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

17

EXACT/OPTIMAL

O

Optimal Illumination

E

Exact Specified Length

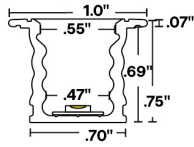
Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.



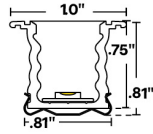
# ESSENTIALS FLUR™-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Recessed

## 1 PRODUCT - DIMENSIONS



Profile



Profile with stainless steel mounting clip

## 2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]  
Tested with FL3DW-\*\*-30-ENC-STD

|    | 1.5HE W/FT |     | 2.5HE W/FT |     |
|----|------------|-----|------------|-----|
|    | LM/FT      | CRI | LM/FT      | CRI |
| CL | 81         | 98  | 128        | 98  |
| TL | 51         | 98  | 81         | 98  |

[Calculated L70 = 40000 hrs]  
Tested with FL3DW-\*\*-30-ENC-WO

|    | 1.5HE W/FT |     | 2.5HE W/FT |     |
|----|------------|-----|------------|-----|
|    | LM/FT      | CRI | LM/FT      | CRI |
| CL | 90         | 98  | 142        | 98  |
| TL | 60         | 98  | 95         | 98  |

## 6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

## 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   | Min                                | Max  |
| Ambient Operating Temp - Recessed | -4°F                                  | 130°F | -4°F                               | 110°F | -4°F                                  | 120°F | -4°F                               | 95°F |
| Ambient Operating Temp - Surface  | **                                    | **    | **                                 | **    | **                                    | **    | **                                 | **   |

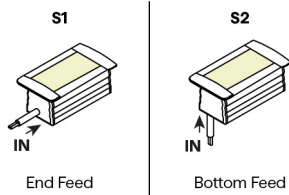


# ESSENTIALS FLUR™-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

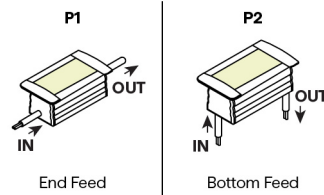
24VDC Linear Fixtures - Recessed

## 7 WIRE INPUT/OUTPUT

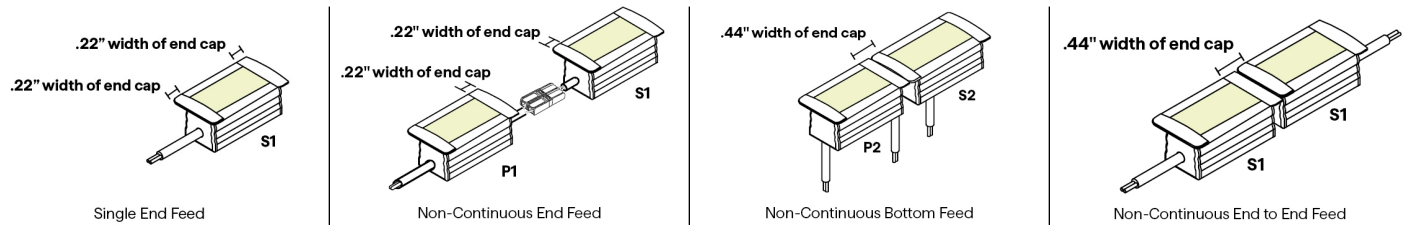
SINGLE (Input only)



PASS THROUGH (Input/Output)

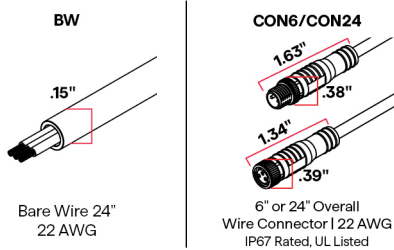


## CONFIGURATION OPTIONS



## 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





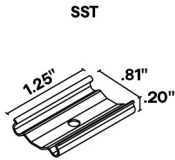
# ESSENTIALS FLUR™-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Recessed

## 12 WIRE COLOR



## 14 MOUNTING



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 screw

## 15 FINISH



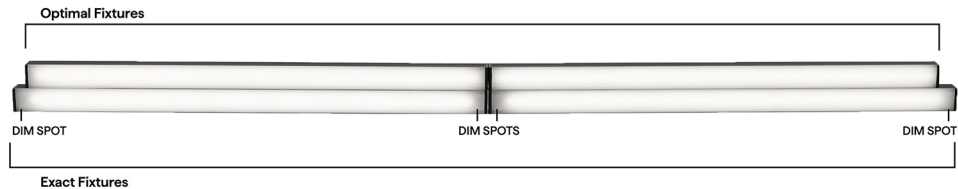
Custom finishes require a longer lead time, consult factory

## 17 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.

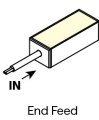
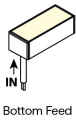
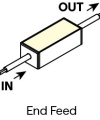
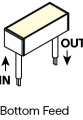


## DW-HE ENC LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture<br> |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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"                      | 10.51"                                                                                       |                                                                                                 | 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"                                                                                       |                                                                                                  |



# ESSENTIALS FLUR™-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Recessed

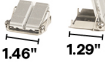
## COMPATIBLE POWER SUPPLIES

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

| DIM TO LEVEL | INDOOR                                                                                                                                                                                                                          | 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                                                                       |                                                       |

## COMPATIBLE MOUNTING ACCESSORIES

|                                                                                                                                                                      |                                                                                                                                                                      |                                                                                                                                                                     |                                                                                                                                                    |                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HINGE - HMB-M</b><br><br>1.41"<br>.71"<br>Adjustable mounting bracket - Medium | <b>HINGE - HMB-L</b><br><br>1.46"<br>1.29"<br>Adjustable mounting bracket - Large | <b>HINGE - HMB-XL</b><br><br>4"<br>1.46"<br>Adjustable mounting bracket - XLarge | <b>Q-PIVOT</b><br><br>.75"<br>1.03"<br>Small mounting accessory | <b>Q-ANGLE</b><br><br>2.23"<br>1.38"<br>Adjustable mounting accessory |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|



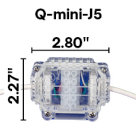
# ESSENTIALS FLUR™-ENCAPSULATED (03) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Recessed

## COMPATIBLE WIRING ACCESSORIES



UL Listed, miniature  
junction box, DRY/DMP  
(WET rated with silicone)



UL Listed, miniature  
junction box, DRY/DMP  
(WET rated with silicone)

## COMPATIBLE APPS

### NFC APP



Read and write  
DMX addresses and  
adjust voltage