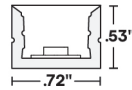




# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

## 24VDC Flexible Fixtures



- Flexible encapsulated fixture
- Up/down bend
- 6" bend radius
- Interior and exterior rated (not including FC)
- Seven different mounting options
- Available in a seamless configuration for a continuous line of light
- Utilize clear endcaps for continuous runs
- Pair with ZALA's side bend to achieve compound curves
- When using DALI and DMX power supplies, LED wattage must be doubled
- Do not cut Non-Field Cuttable Q-CAP flexible fixtures
- IK10 impact rated

| 1       | 2        | 3     | 4   | 5       | 6    | 7                 | 8                  | 9                   | 10       | 11     |
|---------|----------|-------|-----|---------|------|-------------------|--------------------|---------------------|----------|--------|
| PRODUCT | MOUNTING | RATED | CCT | WATTAGE | LENS | WIRE INPUT/OUTPUT | CONNECTOR/ WIRE IN | CONNECTOR/ WIRE OUT | END CAPS | LENGTH |
|         |          |       |     |         |      |                   |                    | N/A                 |          | 48"    |

Sample Part Number: **BOXA-DW-PPS-2-DRY-24/30-1.5HE-ENC/TL-P1-BW-BW-N/A-48"-E**

1

PRODUCT

BOXA-DW

BOXA-DW-USA

Select USA option for BA, 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 last page for compatible power supplies.

2

MOUNTING

RLC

MC

SGC

PPS-2

PPS-96

PPS-LP-2

PPS-LP-96

WSC

BN-UD-SST-16'

BN-UD-SST-32'

BN-UD-WH-16'

BN-UD-WH-32'

Rigid Lock Channel

Magnetic Clip

Side Graze Channel

PVC Clip

PVC Channel

PVC Low Profile Clip

PVC Low Profile Channel

White Snug Clip

16' BENDIT Up/Down Stainless Steel Channel

32' BENDIT Up/Down Stainless Steel Channel

16' BENDIT Up/Down White Channel

32' BENDIT Up/Down White Channel

White snug clip only for indirect cove use, not intended for hanging fixtures upside down.

PPS mounting clip recommended for seamless applications

3

RATED

DRY

WET

IP20

IP67

4

CCT

24/30

27/40

2400K/3000K

2700K/4000K

5

WATTAGE

1.5HE

1.5WHE-SO

2.5HE

2.5WHE-HO

SO: Standard Output

HO: High Output

6

LENS

ENC/CL

ENC/TL

Encapsulated in Clear

Encapsulated in Translucent

For representation of LED visibility, see Diode Visibility section on following pages

7

WIRE INPUT/OUTPUT

S1

S2

S3

S4

S5

Single 1 (Input only) - End Feed

Single 2 (Input only) - Bottom Feed

Single 3 (Input only) - Left Side Feed

Single 4 (Input only) - Right Side Feed

Single 5 (Input only) - Seamless Feed

8

CONNECTOR/WIRE IN

BW

CON6

CON24

Bare Wire (Standard 24")

Connector 6"

Connector 24"

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

N/A

Closed End (No feed)

10

END CAPS

CL

WH

Clear

White

11

LENGTH

48"

Optimal

Minimum length is 12", maximum length is 191" not including end caps. Contact us for lengths under 12". Available in 2" increments.

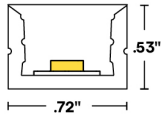
5 year warranty | Warranty only valid with QTL power supplies | Up/Down Bend | Data subject to change, all data has +/- 5% tolerance | Ambient or mounting surface must not be lower than -4°F or higher than: 1.5HE - 125°F; 2.5HE - 115°F | Patent # D872,931 S, D847,395 S, 10,619,828 B2 | Only FC fixtures are Field-Cuttable per installation instructions | Field Cuttable is not returnable or refundable after it has been cut



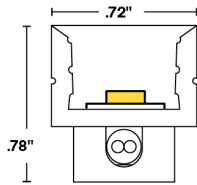
# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

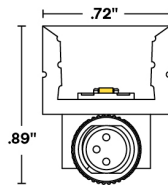
## 1 PRODUCT - DIMENSIONS



Profile  
(Standard)



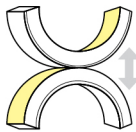
Profile  
(Seamless bare wire)



Profile  
(CON6-24 barrel)

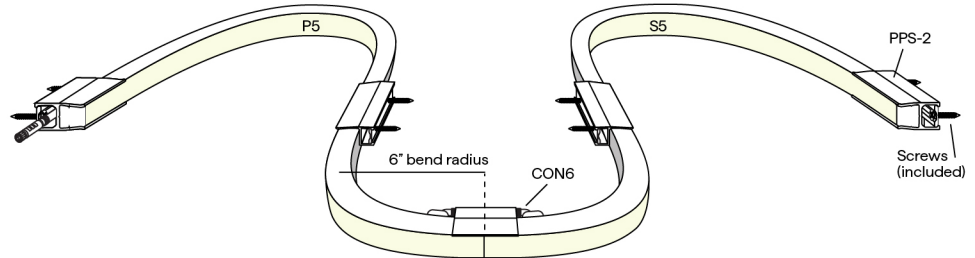
## BEND RADIUS

Up/Down Bend



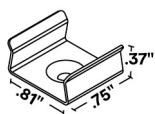
6" bending radius

## FLEXIBILITY



## 2 MOUNTING

WSC

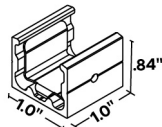


White Snug Clip  
Indirect uplight

To order separately use WSC

Each clip comes with a #6x5/8" flat screw

RLC

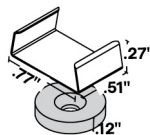


Rigid Lock Channel

To order separately use RLC

Each clip comes with a #6x5/8" flat screw

MC

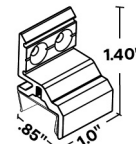


Magnetic Clip  
Cove use only

To order separately use MC

Each clip comes with a #6x5/8" flat screw

SGC

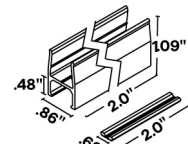


Side Graze Clip

To order separately use SGC

Each clip comes with a #6x5/8" flat screw

PPS-2



PVC Mounting Clip

To order separately use BOXA-PPS2



# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

## 24VDC Flexible Fixtures

### MOUNTING CONTINUED

**PPS-96**

96" straight linear run

To order separately use BOXA-PPS-96

Each clip comes with a #8" flat screw

**PPS-LP-2**

Low profile PVC Mounting Clip

To order separately use BOXA-PPS-LP-2

**PPS-LP-96**

Low profile PVC channel 96" straight linear run

To order separately use BOXA-PPS-LP-96

Each clip comes with a #8" flat screw

**BN-UD**

BENDIT Channel  
Vertical Stainless Steel Flexible Channel

Continuous mounting solution for flexible fixtures, 16' or 32' field cuttable lengths

To order separately use either STND-QCAP-BN-UD-SST-16', STND-QCAP-BN-UD-SST-32', STND-QCAP-BN-UD-WH-16', or STND-QCAP-BN-UD-WH-32'

64 #4-40 1/2" screws provided per 16'

### 4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]  
Tested with BOXA-DW-WSC-DRY

| CCT   | 1.5HE W/FT |     |        |     | 2.5HE W/FT |     |        |     |
|-------|------------|-----|--------|-----|------------|-----|--------|-----|
|       | ENC/CL     |     | ENC/TL |     | ENC/CL     |     | ENC/TL |     |
|       | LM         | CRI | LM     | CRI | LM         | CRI | LM     | CRI |
| 2400K | 129        | 92  | 103    | 93  | 193        | 91  | 154    | 92  |
| 2700K | 120        | 96  | 81     | 97  | 190        | 97  | 132    | 97  |
| 3000K | 127        | 97  | 98     | 95  | 195        | 97  | 154    | 96  |
| 4000K | 140        | 97  | 114    | 97  | 217        | 97  | 170    | 97  |

### 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 - Surface | -4°F                                  | 140°F | -4°F                               | 125°F | -4°F                                  | 125°F | -4°F                               | 100°F |
| Storage Temp                     | -4°F                                  | 120°F | **                                 | **    | -4°F                                  | 120°F | **                                 | **    |
| Installation Temp                | 50°F                                  | 100°F | **                                 | **    | 50°F                                  | 100°F | **                                 | **    |

### BUG RATING

| WATTAGE                            | B  | U  | G  |
|------------------------------------|----|----|----|
| 1.5HE (ALL CCTs), 2.5HE (ALL CCTs) | B0 | U1 | G0 |

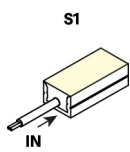


# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

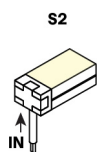
24VDC Flexible Fixtures

## 7 WIRE INPUT/OUTPUT

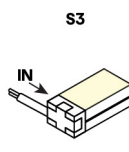
SINGLE (Input only)



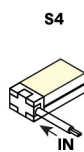
End Feed



Bottom Feed

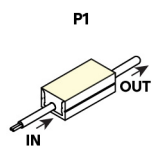


Side Feed - Left

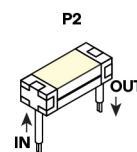


Side Feed - Right

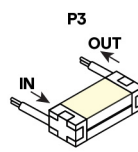
PASS THROUGH (Input/Output)



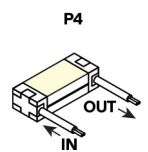
End Feed



Bottom Feed

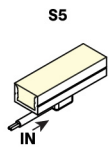


Side Feed - Left



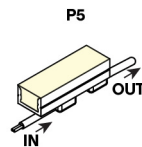
Side Feed - Right

SEAMLESS SINGLE (Input only)



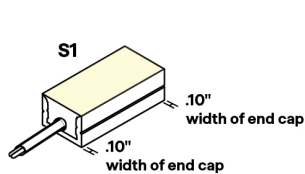
Seamless Feed

SEAMLESS PASS THROUGH (Input/Output)

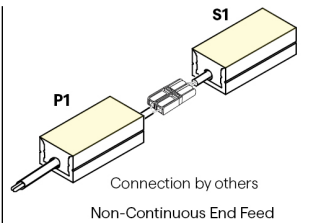


Seamless Feed

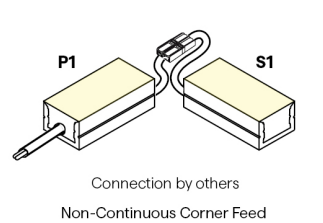
## CONFIGURATION OPTIONS



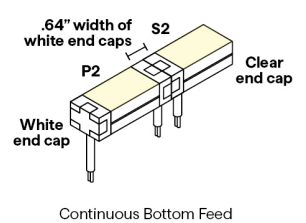
Single End Feed



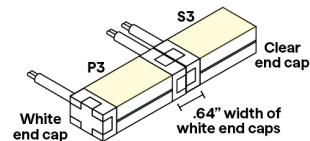
Connection by others  
Non-Continuous End Feed



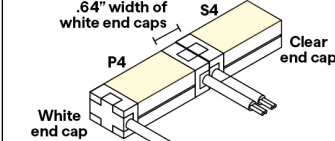
Connection by others  
Non-Continuous Corner Feed



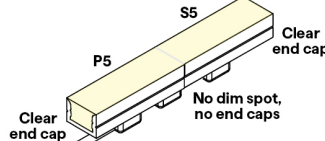
Continuous Bottom Feed



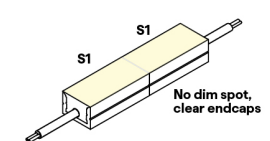
Continuous Side Feed - Left



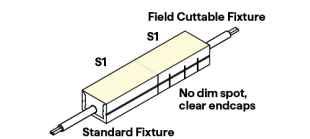
Continuous Side Feed - Right



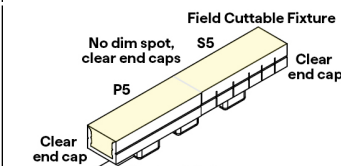
Seamless Bottom Feed



Continuous End to End Feed



Field Cuttable - Continuous End to End Feed



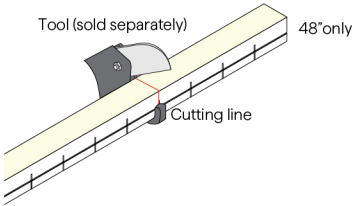
Field Cuttable - Seamless Bottom Feed



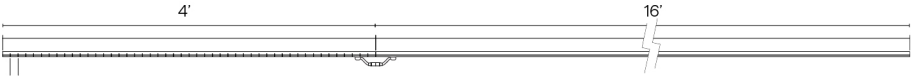
# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

## 24VDC Flexible Fixtures

### FIELD CUTTABLE MARKING



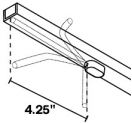
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment



**Note:** Only FC fixtures are field cuttable — Do not attempt to cut non FC fixtures.  
Cut only on the marked cut lines. Only cut from non-feed end. Do not attempt to cut while power is on.

### SEAMLESS

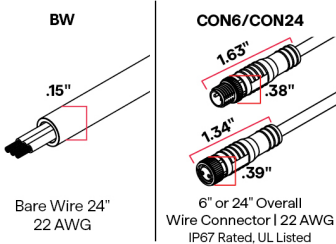
Shown with bare wire, connectors vary



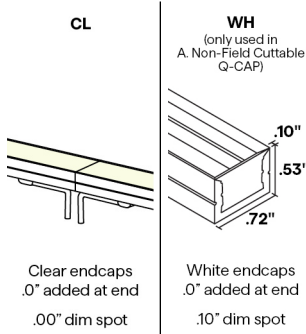
Omnidirectional wireways  
S5, P5

### 8 / 9 CONNECTOR/WIRE – IN/OUT

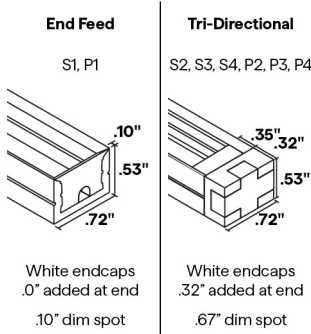
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out, and WH for End Caps



### 10 END CAPS (NO FEED)



### END CAPS (WITH FEED)



### 11 LENGTH - WIRING DETAIL

Available in 2 inch increments 12 inch-191 inch

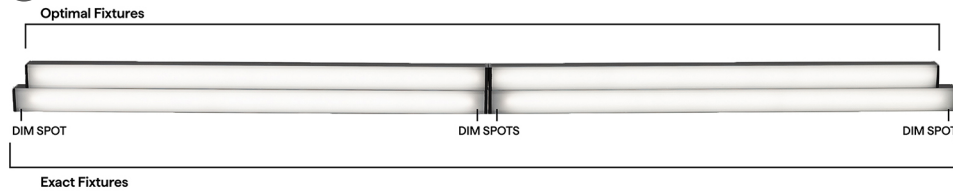




# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

## 12 EXACT/OPTIMAL FIXTURE LENGTH



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 LENGTHS BY INCH

Available in any length in between 12" and 191", 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 with S1 wireway |
|------------------|---|
| 12"              | 1"  |
| 13"              | .5"   |
| 14"              | 1"  |
| 15"              | .5"   |
| 16"              | 1"  |
| 17"              | .5"   |
| 18"              | 1"  |
| 19"              | .5"   |
| 20"              | 1"  |
| 21"              | .5"   |
| 22"              | 1"  |
| 23"              | .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 | S3     | S4 | P1     | P2 | P3    | P4 | S5    | P5 |
|--------------------------|--------|----|--------|----|--------|----|-------|----|-------|----|
|                          |        |    |        |    |        |    |       |    |       |    |
| 12"                      | 10.58" |    | 10.85" |    | 10.95" |    | 11.5" |    | 10.2" |    |
| 13"                      | 12.58" |    | 12.85" |    | 12.95" |    | 11.5" |    | 12.2" |    |
| 14"                      | 12.58" |    | 12.85" |    | 12.95" |    | 13.5" |    | 12.2" |    |
| 15"                      | 14.58" |    | 14.85" |    | 14.95" |    | 13.5" |    | 14.2" |    |
| 16"                      | 14.58" |    | 14.85" |    | 14.95" |    | 15.5" |    | 14.2" |    |
| 17"                      | 16.58" |    | 16.85" |    | 16.95" |    | 15.5" |    | 16.2" |    |
| 18"                      | 16.58" |    | 16.85" |    | 16.95" |    | 17.5" |    | 16.2" |    |
| 19"                      | 18.58" |    | 18.85" |    | 18.95" |    | 17.5" |    | 18.2" |    |
| 20"                      | 18.58" |    | 18.85" |    | 18.95" |    | 19.5" |    | 18.2" |    |
| 21"                      | 20.58" |    | 20.85" |    | 20.95" |    | 19.5" |    | 20.2" |    |
| 22"                      | 20.58" |    | 20.85" |    | 20.95" |    | 21.5" |    | 20.2" |    |
| 23"                      | 22.58" |    | 22.85" |    | 22.95" |    | 21.5" |    | 22.2" |    |
| 24"                      | 22.58" |    | 22.85" |    | 22.95" |    | 23.5" |    | 22.2" |    |
| 36"                      | 34.58" |    | 34.85" |    | 34.95" |    | 35.5" |    | 34.2" |    |
| 48"                      | 46.58" |    | 46.85" |    | 46.95" |    | 47.5" |    | 46.2" |    |
| 60"                      | 58.58" |    | 58.85" |    | 58.95" |    | 59.5" |    | 58.2" |    |
| 72"                      | 70.58" |    | 70.85" |    | 70.95" |    | 71.5" |    | 70.2" |    |
| 84"                      | 82.58" |    | 82.85" |    | 82.95" |    | 83.5" |    | 82.2" |    |
| 96"                      | 94.58" |    | 94.85" |    | 94.95" |    | 95.5" |    | 94.2" |    |

## 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 Warm Dim Applications  | DW-HE Warm Dim 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+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 | Q-SET-QZ-DW<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+WD<br>QZ-DW |
| 1%           | QZ-DALI-DT8  | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8  |
| 10%          | Non-Dim Power Supply with WD App Dongle  |   |



# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

| DIMMING PROTOCOL   | INDOOR  | OUTDOOR   |
|--|---|---|
|  | DW-HE Warm Dim Applications   | DW-HE Warm Dim Applications                           |
| Phase  | QZ-DW   | Q-SET-QZ-DW<br>QZ-DW                                  |
| 0-10V  | QT-CAB-eLED+WD<br>QT-CAB-eLED+WD-AWN<br>QTM-eLED+WD<br>QTM-eLED+WD-AWN<br>QZ-DW                               | Q-SET-QZ-DW<br>QOM-eLED+WD<br>QZ-DW                   |
| 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                    |   |
| 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 WD App Dongle   |   |

## COMPATIBLE MOUNTING ACCESSORIES

**Q-ANGLE**

Adjustable mounting accessory

**NJ-LARGE**

J Mounting Bracket

**NU-LARGE**

U Mounting Bracket

**SD-J-LARGE**

J Mounting Bracket

**BL-LARGE**

Backwards L Mounting Bracket

**NL-LARGE**

L Mounting Bracket

**SD-L-LARGE**

L Mounting Bracket

**IQ-QCAP-UNV-CUTTER**

QTL recommended FC Cutter

## COMPATIBLE WIRING ACCESSORIES

**Q-mini-J5**

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

## COMPATIBLE CONTROL ACCESSORIES

**SCENE APP DONGLE**

Wi-Fi or Bluetooth Connectivity



# Q-CAP BOXA™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

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## COMPATIBLE APPS

### NFC APP



Read and write  
DMX addresses and  
adjust voltage