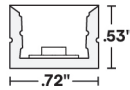




# Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

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

## ORDERING PROCESS

- A** Specify Non-Field Cuttable Q-CAP
- B** (Optional) Specify field cuttable 4' piece - used to adjust total run length in the field (dry applications only)

## A. NON-FIELD CUTTABLE Q-CAP

### INFORMATION REQUIRED FOR LIGHTING SCHEDULE

A1	A2	A3	A4	A5	A6
PRODUCT	MOUNTING	RATED	CCT	WATTAGE	LENS

### ADDITIONAL INFORMATION REQUIRED TO ORDER

A7	A8	A9	A10	A11	A12
WIRE INPUT/OUTPUT	CONNECTOR/WIRE IN	CONNECTOR/WIRE OUT	END CAPS	LENGTH (IN)	EXACT/OPTIMAL

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

<b>A1</b> <b>PRODUCT</b> <b>BOXA-DW</b> <b>BOXA-DW-USA</b>  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.	<b>A2</b> <b>MOUNTING</b> <b>RLC</b> Rigid Lock Channel <b>MC</b> Magnetic Clip <b>SGC</b> Side Graze Channel <b>PPS-2</b> PVC Clip <b>PPS-96</b> PVC Channel <b>PPS-LP-2</b> PVC Low Profile Clip <b>PPS-LP-96</b> PVC Low Profile Channel <b>WSC</b> White Snug Clip <b>BN-UD-SST-16'</b> 16' BENDIT Up/Down Stainless Steel Channel <b>BN-UD-SST-32'</b> 32' BENDIT Up/Down Stainless Steel Channel <b>BN-UD-WH-16'</b> 16' BENDIT Up/Down White Stainless Channel <b>BN-UD-WH-32'</b> 32' BENDIT Up/Down White Stainless Channel  White snug clip only for indirect cove use, not intended for hanging fixtures upside down.  PPS mounting clip recommended for seamless applications	<b>A3</b> <b>RATED</b> <b>DRY</b> IP20 <b>WET</b> IP67	<b>A4</b> <b>CCT</b> <b>22/30</b> 2200K/3000K <b>22/35</b> 2200K/3500K <b>24/30</b> 2400K/3000K <b>24/40</b> 2400K/4000K <b>27/40</b> 2700K/4000K	
<b>A5</b> <b>WATTAGE</b> <b>1.5HE</b> 1.5WHE-SO <b>2.5HE</b> 2.5WHE-HO  SO: Standard Output HO: High Output	<b>A6</b> <b>LENS</b> <b>ENC/CL</b> Encapsulated in Clear <b>ENC/TL</b> Encapsulated in Translucent  For representation of LED visibility, see Diode Visibility section on following pages	<b>A7</b> <b>WIRE INPUT/OUTPUT</b> <b>SINGLE (Input only)</b> <b>S1</b> End Feed <b>S2</b> Bottom Feed <b>S3</b> Left Side Feed <b>S4</b> Right Side Feed <b>S5</b> Seamless Feed  <b>PASS THROUGH (Input/Output)</b> <b>P1</b> End Feed <b>P2</b> Bottom Feed <b>P3</b> Left Side Feed <b>P4</b> Right Side Feed <b>P5</b> Seamless Feed	<b>A8</b> <b>CONNECTOR/WIRE IN</b> <b>BW</b> Bare Wire (Standard 24") <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"  BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)  <b>BW</b> Bare Wire (Standard 24") <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"  BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)	<b>A9</b> <b>CONNECTOR/WIRE OUT</b> <b>N/A</b> Closed End (No feed)  <b>BW</b> Bare Wire (Standard 24") <b>CON6</b> Connector 6" <b>CON24</b> Connector 24"  BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)
<b>A10</b> <b>END CAPS</b> <b>CL</b> Clear <b>WH</b> White  <b>N/A</b> Not Applicable	<b>A11</b> <b>LENGTH (IN)</b>  Minimum length is 12", maximum length is 191" not including end caps. Contact us for lengths under 12". Available in 2" increments.	<b>A12</b> <b>EXACT/OPTIMAL</b> <b>O</b> Optimal Illumination <b>E</b> Exact Specified Length  Exact fixtures are the exact length specified +0 -1/8". Optimal fixtures' length is rounded down with illumination end to end. See Exact/Optimal Fixture Length charts.		

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 TUNABLE APPLICATIONS

24VDC Flexible Fixtures

## B. FIELD CUTTABLE Q-CAP

### INFORMATION REQUIRED FOR LIGHTING SCHEDULE

B1	B2	B3	B4	B5	B6
PRODUCT	MOUNTING	RATED	CCT	WATTAGE	LENS
BOXA-FC-DW		DRY			

### ADDITIONAL INFORMATION REQUIRED TO ORDER

B7	B8	B9	B10	B11	B12
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	END CAPS	LENGTH (IN)	EXACT/ OPTIMAL
		N/A	CL	48"	N/A

Sample Part Number: **BOXA-FC-DW-PPS-2-DRY-24/30-1.5HE-ENC/CL-S1-BW-N/A-CL-48"-N/A**

**B1**

**PRODUCT**

**BOXA-FC-DW**  
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.

**B2**

**MOUNTING**

**RLC** Rigid Lock Channel  
**MC** Magnetic Clip  
**SGC** Side Graze Channel  
**PPS-2** PVC Clip  
**PPS-96** PVC Channel  
**PPS-LP-2** PVC Low Profile Clip  
**PPS-LP-96** PVC Low Profile Channel  
**WSC** White Snug Clip  
**BN-UD-SST-16'** 16' BENDIT Up/Down Stainless Steel Channel  
**BN-UD-SST-32'** 32' BENDIT Up/Down Stainless Steel Channel  
**BN-UD-WH-16'** 16' BENDIT Up/Down White Stainless Channel  
**BN-UD-WH-32'** 32' BENDIT Up/Down White Stainless Channel  
White snug clip only for indirect cove use, not intended for hanging fixtures upside down.  
PPS mounting clip recommended for seamless applications

**B3**

**RATED**

**DRY** IP20

**B4**

**CCT**

<b>22/30</b>	2200K/3000K
<b>22/35</b>	2200K/3500K
<b>24/30</b>	2400K/3000K
<b>24/40</b>	2400K/4000K
<b>27/40</b>	2700K/4000K

**B5**

**WATTAGE**

**1.5HE** 1.5WHE-SO  
**2.5HE** 2.5WHE-HO  
SO: Standard Output  
HO: High Output

**B6**

**LENS**

**ENC/CL** Encapsulated in Clear  
**ENC/TL** Encapsulated in Translucent  
For representation of LED visibility, see Diode Visibility section on following pages

**B7**

**WIRE INPUT/OUTPUT**

**SINGLE (Input only)**  
**S1** End Feed  
**S2** Bottom Feed  
**S3** Left Side Feed  
**S4** Right Side Feed  
**S5** Seamless Feed

**B8**

**CONNECTOR/WIRE IN**

**BW** Bare Wire (Standard 24")  
**CON6** Connector 6"  
**CON24** Connector 24"  
BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

**B9**

**CONNECTOR/WIRE OUT**

**N/A** Closed End (No feed)

**B10**

**END CAPS**

**CL** Clear  
Due to cutting, white endcaps are not available.

**B11**

**LENGTH (IN)**

**48"** Nominal  
Starting Run length is 48.475" for S1, S5 and 48.725" for S2, S3, S4  
Each cut point subtracts from the Starting Run Length  
1.5HE & 2.5HE have a 2" cut point  
S2, S3, & S4 can be cut down to as little as 2.725"  
S1 can be cut down to as little as 2.475"  
S5 can be cut down to as little as 6.475"

**B12**

**EXACT/OPTIMAL**

**N/A**

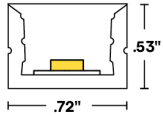
Single ▶



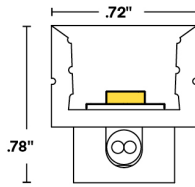
# Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

24VDC Flexible Fixtures

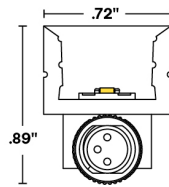
## 1 PRODUCT - DIMENSIONS



Profile  
(Standard)



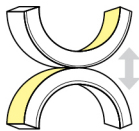
Profile  
(Seamless bare wire)



Profile  
(CON6-24 barrel)

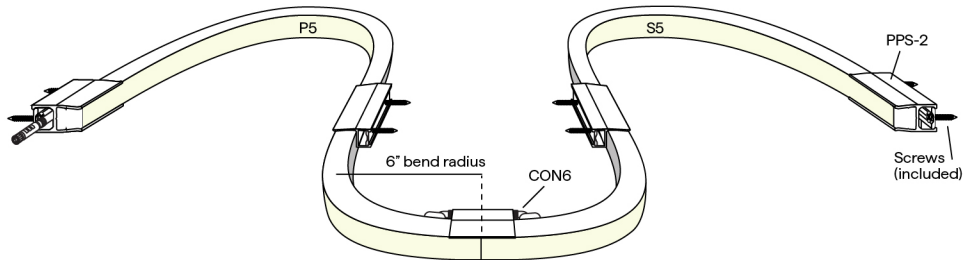
## BEND RADIUS

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

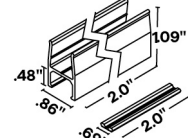


Side Graze Clip

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 TUNABLE 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

### 6 DIODE VISIBILITY

DW-HE (ALL COOL)

DW-HE (50/50)

DW-HE (ALL WARM)

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	**	**



# Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

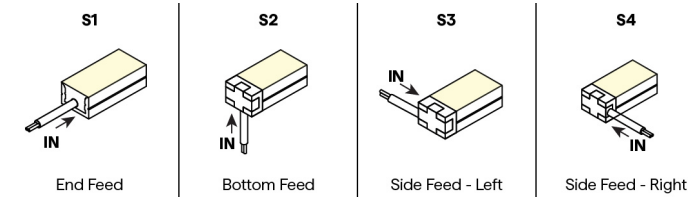
24VDC Flexible Fixtures

## BUG RATING

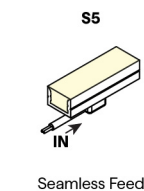
WATTAGE	B	U	G
1.5HE (ALL CCTs), 2.5HE (ALL CCTs)	B0	U1	G0

## 7 WIRE INPUT/OUTPUT

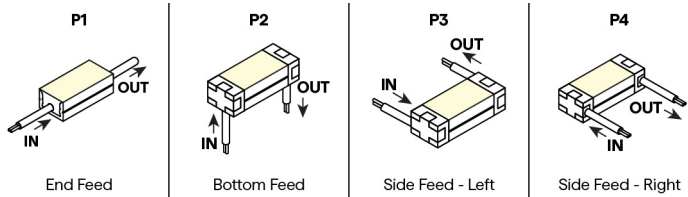
SINGLE (Input only)



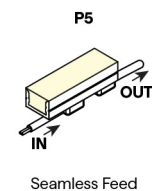
SEAMLESS SINGLE (Input only)



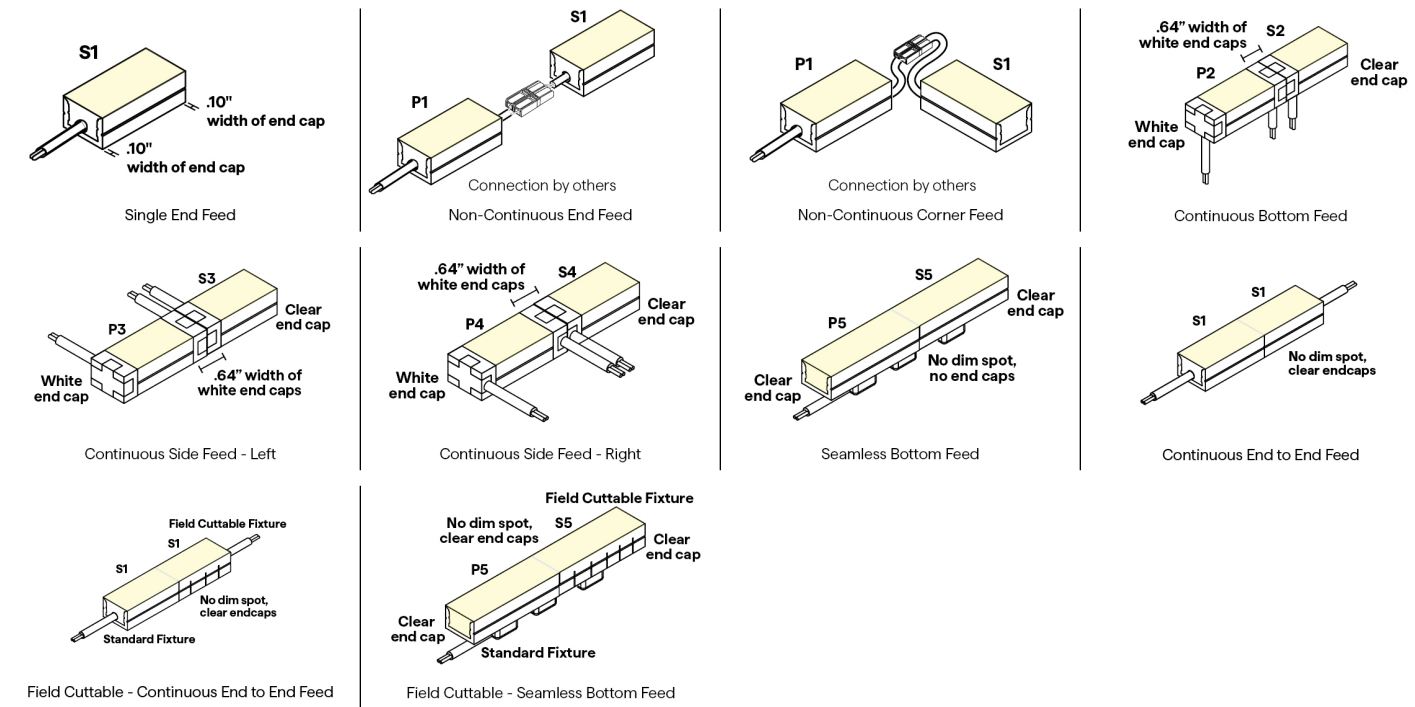
PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP



SEAMLESS PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP



## CONFIGURATION OPTIONS

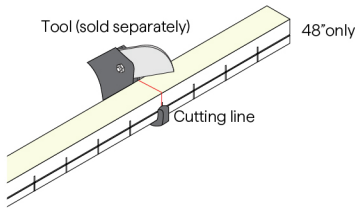




# Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

24VDC Flexible Fixtures

## FIELD CUTTABLE MARKING



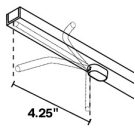
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment



**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

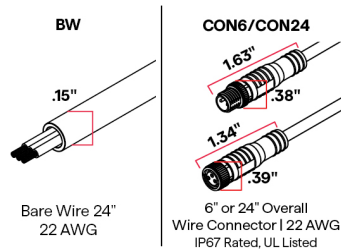
Shown with bare wire, connectors vary



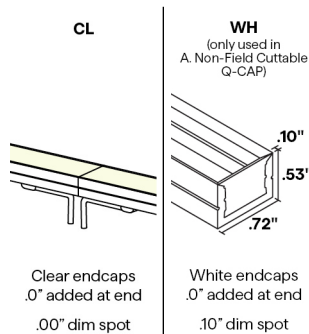
Omnidirectional wireways  
S5, P5

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

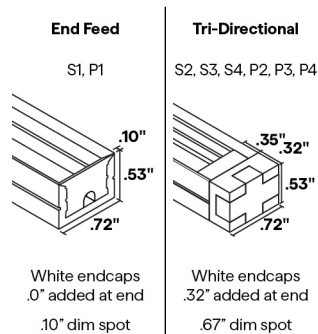
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, and WH for End Caps



## 10 END CAPS (NO FEED)



## END CAPS (WITH FEED)



## 11 LENGTH - WIRING DETAIL

Available in 2" increments 12"-191"

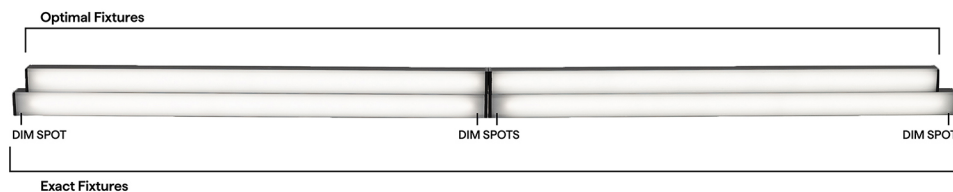


## 12 EXACT/OPTIMAL FIXTURE LENGTH

[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.





# Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

24VDC Flexible Fixtures











## 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 Tunable Applications	DW-HE Tunable Applications
0.1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW QTM-eLED+TW-AWN QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+TW QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle	



# Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

24VDC Flexible Fixtures

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

24VDC Flexible Fixtures

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## COMPATIBLE APPS

### NFC APP



Read and write  
DMX addresses and  
adjust voltage