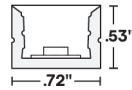# Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

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

① PRODUCT	② MOUNTING	③ RATED	④ CCT	⑤ WATTAGE	⑥ LENS	⑦ WIRE INPUT/ OUTPUT	⑧ CONNECTOR/ WIRE IN	⑨ CONNECTOR/ WIRE OUT	⑩ END CAPS	⑪ 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	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 Channel
BN-UD-WH-32'	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	IP20
WET	IP67

④ CCT

24/30	2400K/3000K
27/40	2700K/4000K

⑤ WATTAGE

1.5HE	1.5WHE-SO
2.5HE	2.5WHE-HO

SO: Standard Output
HO: High Output

⑥ LENS

ENC/CL	Encapsulated in Clear
ENC/TL	Encapsulated in Translucent

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

⑦ WIRE INPUT/OUTPUT

S1	Single 1 (Input only) - End Feed
S2	Single 2 (Input only) - Bottom Feed
S3	Single 3 (Input only) - Left Side Feed
S4	Single 4 (Input only) - Right Side Feed
S5	Single 5 (Input only) - Seamless Feed

⑧ 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)

⑨ CONNECTOR/WIRE OUT

N/A	Closed End (No feed)

⑩ END CAPS

CL	Clear
WH	White

⑪ LENGTH

48"	Optimal

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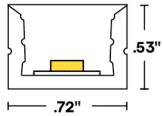Contact us for lengths under 12".
Available in 2" increments.

Q-CAP BOXA™ FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

1 PRODUCT - DIMENSIONS

.53"
.72"
.72"

Profile
(Standard)

.72"
.78"
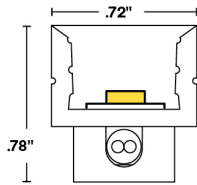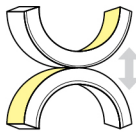
Profile
(Seamless bare wire)

.72"
.89"
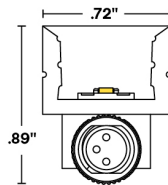
Profile
(CON6-24 barrel)

BEND RADIUS

Up/Down Bend

6" bending radius

FLEXIBILITY

P5

S5

PPS-2

6" bend radius

CON6

Screws
(included)

2 MOUNTING
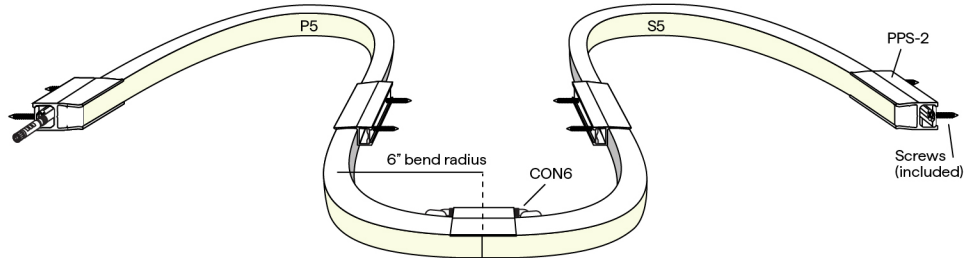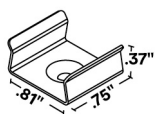
WSC	RLC	MC	SGC	PPS-2
.37" .81" .75"	.84" 1.0" 1.0"	.27" .77" .51" .12"	1.40" .85" 1.0"	.109" .48" .86" .69" 2.0" 2.0"
White Snug Clip Indirect uplight	Rigid Lock Channel	Magnetic Clip Cove use only	Side Graze Clip	PVC Mounting Clip
To order separately use WSC	To order separately use RLC	To order separately use MC	To order separately use SGC	To order separately use BOXA-PPS2
Each clip comes with a #6x5/8" flat screw	Each clip comes with a #6x5/8" flat screw	Each clip comes with a #6x5/8" flat screw	Each clip comes with a #6x5/8" flat screw	
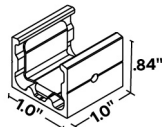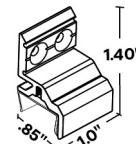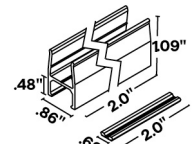
MOUNTING CONTINUED

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

7 WIRE INPUT/OUTPUT

SINGLE (Input only)
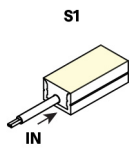
S1

End Feed

S2

Bottom Feed

S3

IN

Side Feed - Left

S4

IN
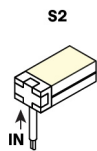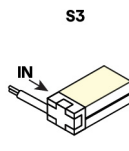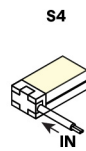
Side Feed - Right

PASS THROUGH (Input/Output)

P1

OUT
IN

End Feed

P2

OUT
IN

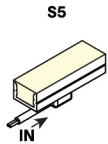Bottom Feed
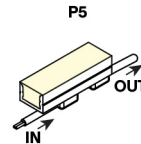
P3

OUT
IN

Side Feed - Left

P4

OUT
IN
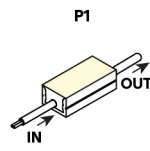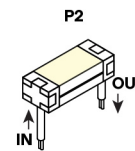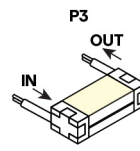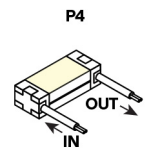
Side Feed - Right
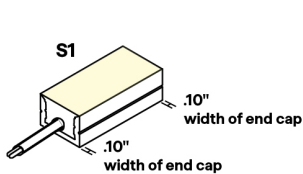
SEAMLESS SINGLE (Input only)

S5

IN

Seamless Feed

SEAMLESS PASS THROUGH (Input/Output)

P5

OUT
IN

Seamless Feed

CONFIGURATION OPTIONS

S1

.10" width of end cap
.10" width of end cap

Single End Feed

S1
P1

Connection by others

Non-Continuous End Feed

P1   **S1**

Connection by others
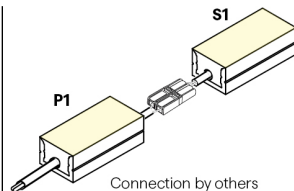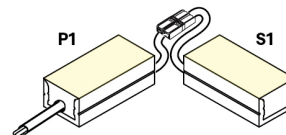
Non-Continuous Corner Feed

.64" width of white end caps
S2
P2
White end cap
Clear end cap

Continuous Bottom Feed

S3
P3
Clear end cap
White end cap
.64" width of white end caps

Continuous Side Feed - Left

.64" width of white end caps
S4
P4
White end cap
Clear end cap
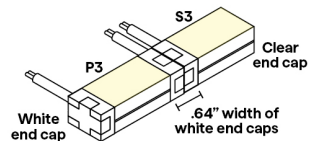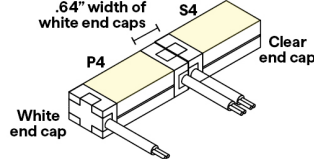
Continuous Side Feed - Right

S5
P5
Clear end cap
Clear end cap
No dim spot, no end caps

Seamless Bottom Feed

S1
S1
No dim spot, clear endcaps

Continuous End to End Feed

Field Cuttable Fixture
S1
S1
No dim spot, clear endcaps
Standard Fixture
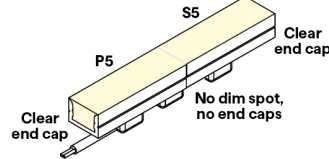
Field Cuttable - Continuous End to End Feed

Field Cuttable Fixture
No dim spot, clear end caps
S5
P5
Clear end cap
Clear end cap
Standard Fixture
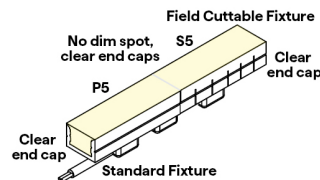
Field Cuttable - Seamless Bottom Feed
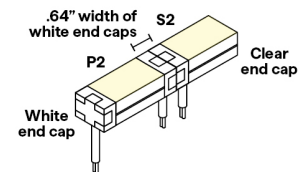
Q-CAP BOXA™ FOR TUNABLE APPLICATIONS
24VDC Flexible Fixtures

FIELD CUTTABLE MARKING

Tool (sold separately)

48"only

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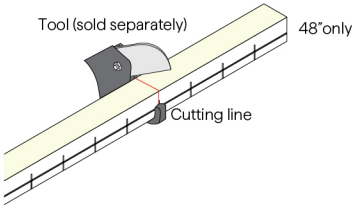
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment

4'

16'
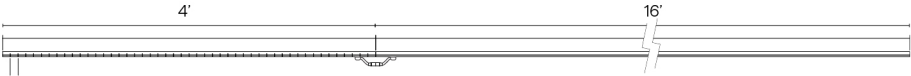
Note: Only FC fixtures are field cuttable — Do not attempt to cut non FC fixtures.
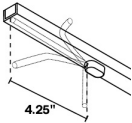Cut only on the marked cut lines. Only cut from non-feed end. Do not attempt to cut while power is on.
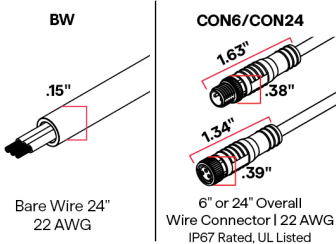
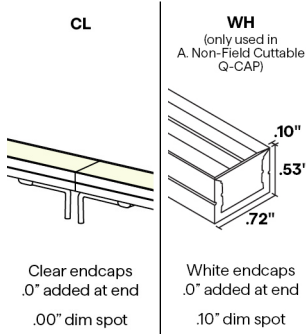## SEAMLESS

Shown with bare wire, connectors vary

4.25"

Omnidirectional
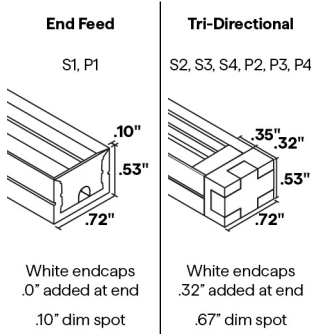wireways
S5, P5

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

BW

.15"

Bare Wire 24"
22 AWG

CON6/CON24

1.63"

.38"

1.34"

.39"

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

10 END CAPS (NO FEED)

CL

Clear endcaps
.0" added at end

.00" dim spot

WH
(only used in
A. Non-Field Cuttable
Q-CAP)

.10"

.53"

.72"

White endcaps
.0" added at end

.10" dim spot

END CAPS (WITH FEED)

End Feed

S1, P1

.10"

.53"

.72"

White endcaps
.0" added at end

.10" dim spot

Tri-Directional

S2, S3, S4, P2, P3, P4

.35" .32"

.53"

.72"

White endcaps
.32" added at end

.67" dim spot

11 LENGTH - WIRING DETAIL

Available in 2" increments 12"-191"

.25"

Black=+24V
Blue = CW
Red = WW

BW 24"

12 EXACT/OPTIMAL FIXTURE LENGTH

Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
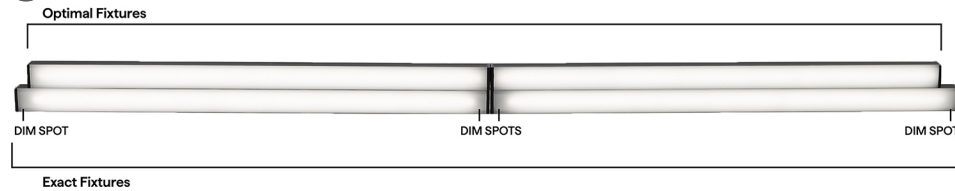
Exact Fixtures

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 (End Feed)	S2 & S3 & S4 (Bottom Feed)	S2 & S3 & S4 (Side Feed - Left)	S2 & S3 & S4 (Side Feed - Right)	P1 (End Feed)	P2 & P3 & P4 (Bottom Feed)	P2 & P3 & P4 (Side Feed - Left)	P2 & P3 & P4 (Side Feed - Right)	S5 & P5 (Seamless Feed)	S5 & P5 (Seamless Feed)
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 — DW-HE Tunable Applications	OUTDOOR — 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	NJ-LARGE	NU-LARGE	SD-J-LARGE	BL-LARGE	NL-LARGE	SD-L-LARGE	iQ-QCAP-UNV-CUTTER
2.23" 1.38" Adjustable mounting accessory	J Mounting Bracket	U Mounting Bracket	J Mounting Bracket	Backwards L Mounting Bracket	L Mounting Bracket	L Mounting Bracket	QTL recommended FC Cutter

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5

2.80"
2.27"

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

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

1.36"
2.58"

Wi-Fi or Bluetooth
Connectivity

COMPATIBLE APPS

NFC APP

Read and write
DMX addresses and
adjust voltage