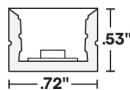




Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

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						ADDITIONAL INFORMATION REQUIRED TO ORDER					
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
PRODUCT	MOUNTING	RATED	CCT	WATTAGE	LENS	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**

A1 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.	A2 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	A3 RATED DRY IP20 WET IP67	A4 CCT 24/30 2400K/3000K 27/40 2700K/4000K
A5 WATTAGE 1.5HE 1.5WHE-SO 2.5HE 2.5WHE-HO SO: Standard Output HO: High Output	A6 LENS ENC/CL Encapsulated in Clear ENC/TL Encapsulated in Translucent For representation of LED visibility, see Diode Visibility section on following pages	A7 WIRE INPUT/OUTPUT SINGLE (Input only) S1 End Feed S2 Bottom Feed S3 Left Side Feed S4 Right Side Feed S5 Seamless Feed PASS THROUGH (Input/Output) P1 End Feed P2 Bottom Feed P3 Left Side Feed P4 Right Side Feed P5 Seamless Feed	A8 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)
A9 CONNECTOR/WIRE OUT N/A Closed End (No feed)	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)	A10 END CAPS CL Clear WH White	A11 LENGTH (IN) Minimum length is 12", maximum length is 191" not including end caps. Contact us for lengths under 12". Available in 2" increments.
Single			
Pass Through			
A12 EXACT/OPTIMAL O Optimal Illumination E 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 # D872,931S, D847,395S, 10,619,828 B2 | Only FC fixtures are Field-Cutable 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-DW-PPS-2-DRY-24/30-1.5HE-ENC/TL-P1-BW-BW-N/A-48"-E**

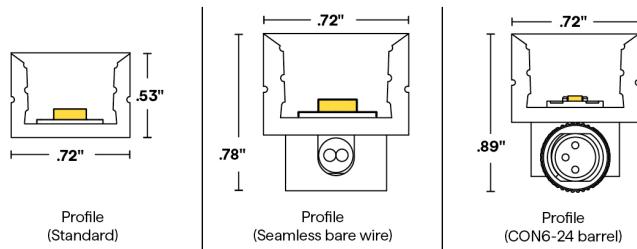
B1	PRODUCT	B2	MOUNTING	B3	RATED	B4	CCT		
	BOXA-FC-DW								
	LED engine is built with 3 wires requiring 0-10V, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See last page for compatible power supplies.		RLC MC SGC PPS-2 PPS-96 PPS-LP-2 PPS-LP-96 WSC BN-UD-SST-16' BN-UD-SST-32' BN-UD-WH-16' BN-UD-WH-32'	Rigid Lock Channel Magnetic Clip Side Gaze 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 Stainless Channel 32' BENDIT Up/Down White Stainless Channel		DRY	IP20		
				White snug clip only for indirect cove use, not intended for hanging fixtures upside down.					
				PPS mounting clip recommended for seamless applications					
B5	WATTAGE	B6	LENS	B7	WIRE INPUT/OUTPUT	B8	CONNECTOR/WIRE IN	B9	CONNECTOR/WIRE OUT
	1.5HE 1.5WHE-SO 2.5HE 2.5WHE-HO		ENC/CL Encapsulated in Clear ENC/TL Encapsulated in Translucent		SINGLE (Input only) S1 End Feed S2 Bottom Feed S3 Left Side Feed S4 Right Side Feed S5 Seamless Feed		BW Bare Wire (Standard 24") CON6 Connector 6" CON24 Connector 24"		N/A Closed End (No feed)
	SO: Standard Output HO: High Output		For representation of LED visibility, see Diode Visibility section on following pages				BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)		
B10	END CAPS	B11	LENGTH (IN)	B12	EXACT/OPTIMAL				
Single	CL Clear		48" Nominal						
	Due to cutting, white endcaps are not available.		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"						



Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

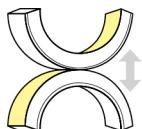
24VDC Flexible Fixtures

1 PRODUCT - DIMENSIONS



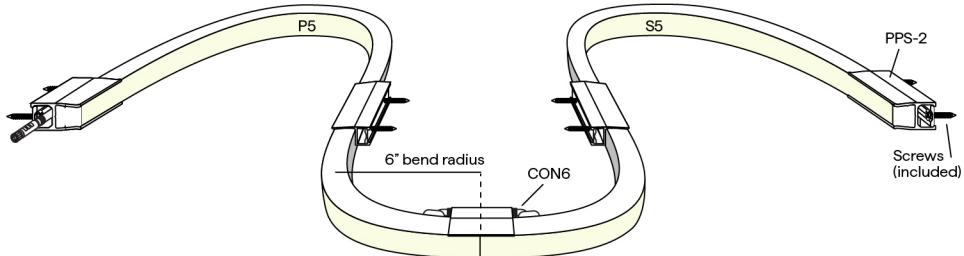
BEND RADIUS

Up/Down Bend



6" bending radius

FLEXIBILITY



2 MOUNTING

WSC

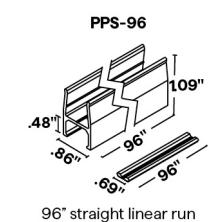




Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

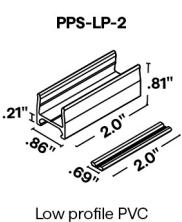
24VDC Flexible Fixtures

MOUNTING CONTINUED

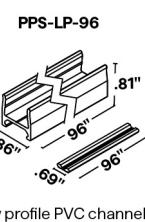


To order separately use BOXA-PPS-96

Each clip comes with a #8" flat screw

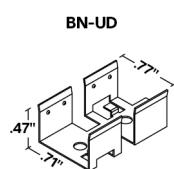


To order separately use BOXA-PPS-LP-2



To order separately use BOXA-PPS-LP-96

Each clip comes with a #8" flat screw



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	ENC/CL	ENC/TL	LM	CRI	LM	CRI
	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

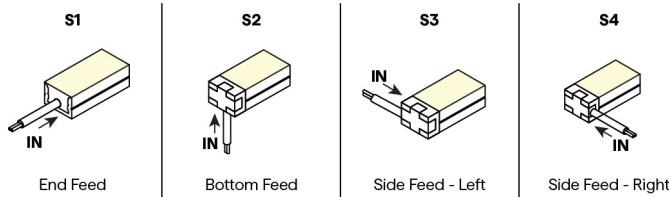


Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

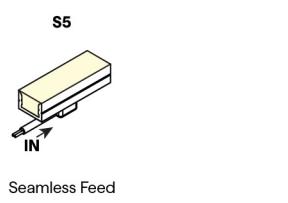
24VDC Flexible Fixtures

7 WIRE INPUT/OUTPUT

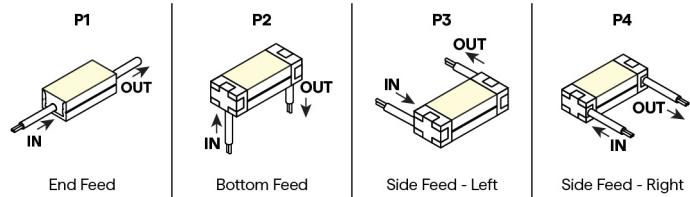
SINGLE (Input only)



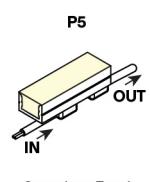
SEAMLESS SINGLE (Input only)



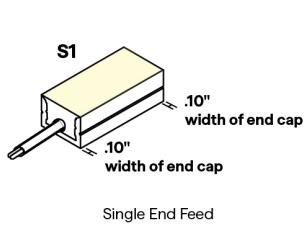
PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP



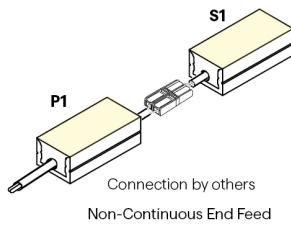
SEAMLESS PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP



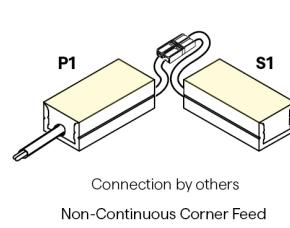
CONFIGURATION OPTIONS



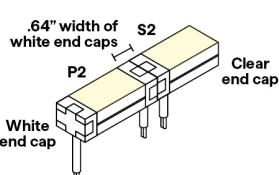
Single End Feed



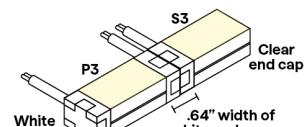
Non-Continuous End Feed



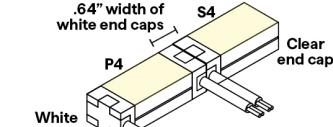
Non-Continuous Corner Feed



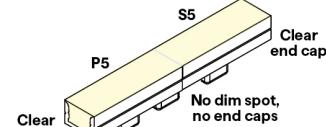
Continuous Bottom Feed



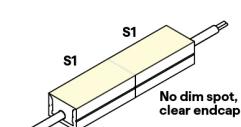
Continuous Side Feed - Left



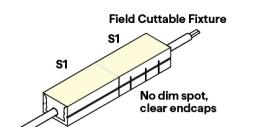
Continuous Side Feed - Right



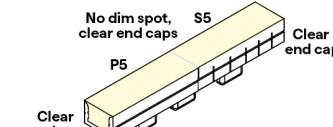
Seamless Bottom Feed



Continuous End to End Feed

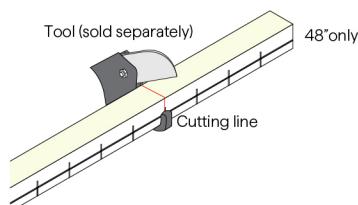


Field Cuttable - Continuous End to End Feed

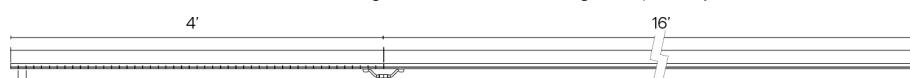


Field Cuttable - Seamless Bottom Feed

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.

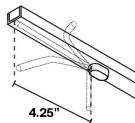


Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

24VDC Flexible Fixtures

SEAMLESS

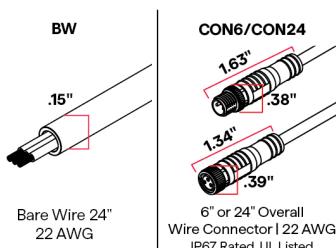
Shown with bare wire, connectors vary



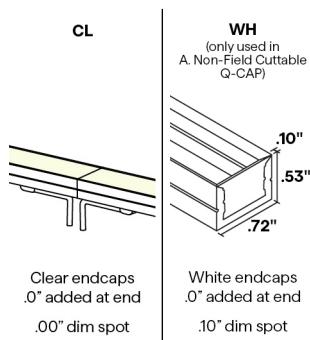
Omnidirectional
wireways
S5, P5

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



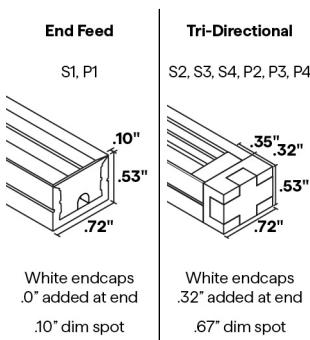
10 END CAPS (NO FEED)



Clear endcaps
.0" added at end
.00" dim spot

White endcaps
.0" added at end
.10" dim spot

END CAPS (WITH FEED)

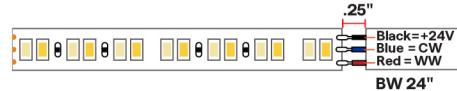


White endcaps
.0" added at end
.10" dim spot

White endcaps
.32" added at end
.67" dim spot

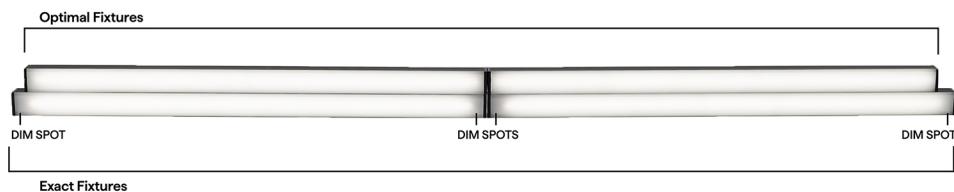
11 LENGTH - WIRING DETAIL

Available in 2" increments 12"-191"



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.





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
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 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	

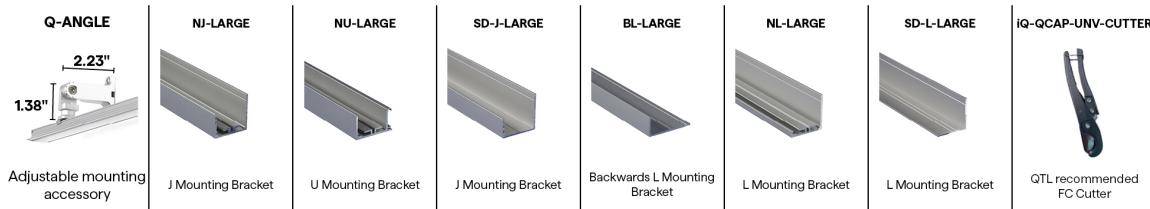


Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

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	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



COMPATIBLE WIRING ACCESSORIES



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

COMPATIBLE CONTROL ACCESSORIES





Q-CAP BOXA™ FOR TUNABLE APPLICATIONS

24VDC Flexible Fixtures

COMPATIBLE APPS

NFC APP



Read and write
DMX addresses and
adjust voltage