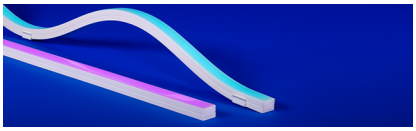
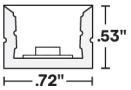
Q-CAP BOXA™ RGBW

24VDC Flexible Fixtures





- Flexible encapsulated fixture with CLEAR encapsulation only
- 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
- Offered in RGBW-HE
- 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

A1 PRODUCT	A2 MOUNTING	A3 RATED	A4 CCT	A5 WATTAGE	A6 LENS	A7 WIRE INPUT/ OUTPUT	A8 CONNECTOR/ WIRE IN	A9 CONNECTOR/ WIRE OUT	A10 END CAPS	A11 LENGTH (IN)	A12 EXACT/ OPTIMAL
BOXA-RGBW				6.0	ENC/CL						

Sample Part Number: **BOXA-RGBW-PPS-2-DRY-RGBW-30-6.0-ENC/CL-P1-BW-BW-N/A-48"-E**

A1 PRODUCT

BOXA-RGBW

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

RGBW-27 RGBW-2700K
RGBW-30 RGBW-3000K

A5 WATTAGE

6.0 6.0W-SO

SO: Standard Output

A6 LENS

ENC/CL Encapsulated in Clear

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

A7 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

P1 Pass Through 1 (Input/Output) - End Feed
P2 Pass Through 2 (Input/Output) - Bottom Feed
P3 Pass Through 3 (Input/Output) - Left Side Feed
P4 Pass Through 4 (Input/Output) - Right Side Feed
P5 Pass Through 5 (Input/Output) - 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)

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

Single

CL Clear
WH White

Pass Through

N/A Not Applicable

A11 LENGTH (IN)

Minimum length is 12", maximum length is 191" not including end caps. Contact us for lengths under 12".
Available in 4" increments.

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 | 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 125°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

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B. FIELD CUTTABLE Q-CAP

B1 PRODUCT	B2 MOUNTING	B3 RATED	B4 CCT	B5 WATTAGE	B6 LENS	B7 WIRE INPUT/ OUTPUT	B8 CONNECTOR/ WIRE IN	B9 CONNECTOR/ WIRE OUT	B10 END CAPS	B11 LENGTH (IN)	B12 EXACT/ OPTIMAL
BOXA-FC-RGBW		DRY		6.0	ENC/CL			N/A	CL	48”	N/A

Sample Part Number: **BOXA-RGBW-PPS-2-DRY-RGBW-30-6.0-ENC/CL-P1-BW-BW-N/A-48"-E**

B1 PRODUCT

BOXA-FC-RGBW

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

RGBW-27	RGBW-2700K
RGBW-30	RGBW-3000K

B5 WATTAGE

6.0 6.0W-SO

SO: Standard Output

B6 LENS

ENC/CL Encapsulated in Clear

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

B7 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

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.

Single

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
6.0 has a 4" cut point
S2, S3, & S4 can be cut down to as little as 4.725"
S1 can be cut down to as little as 4.475"
S5 can be cut down to as little as 6.475"

B12 EXACT/OPTIMAL

N/A

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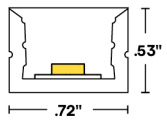
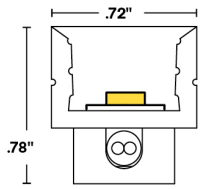
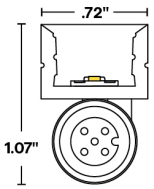
1 PRODUCT - DIMENSIONS



Profile
(Standard)



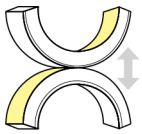
Profile
(Seamless bare wire)



Profile
(CON6-24 barrel)

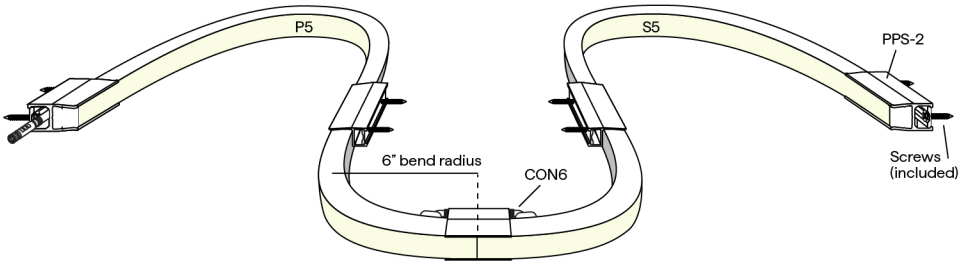
BEND RADIUS

Up/Down Bend



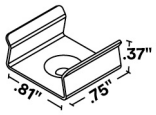
6" bending radius

FLEXIBILITY



2 MOUNTING

WSC

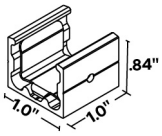


White Snug Clip
Indirect uplight

To order separately use WSC

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

RLC

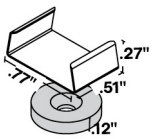


Rigid Lock Channel

To order separately use RLC

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

MC

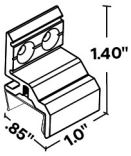


Magnetic Clip
Cove use only

To order separately use MC

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

SGC

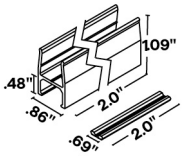


Side Graze Clip

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

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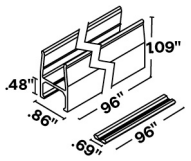
Q-CAP BOXA™ RGBW

24VDC Flexible Fixtures

MOUNTING CONTINUED

PPS-96

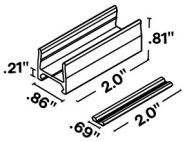


96" straight linear run

To order separately use BOXA-PPS-96

Each clip comes with a #8" flat screw

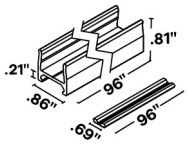
PPS-LP-2



Low profile PVC Mounting Clip

To order separately use BOXA-PPS-LP-2

PPS-LP-96

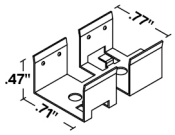


Low profile PVC channel 96" straight linear run

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'

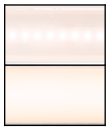
4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with BOXA-RGBW-**...-DRY

6.0 W/FT Total Load			
	ENC/CL		Circuit Wattage
	LM	Wavelength	
Red	39	632	1.3
Green	119	514	1.5
Blue	33	466	1.5

CCT	ENC/CL					Circuit Wattage
	LM	CRI Ra	CRI R9	TM30 Rf	TM30 Rg	
2700K	109	94	68	87	106	1.7
3000K	**	**	**	**	**	1.7

6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

BUG RATING

WATTAGE	B	U	G
6.0 (ALL CCTs & COLORS)	B0	U1	G0

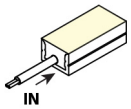
TEMPERATURE RATINGS

	6.0 W/FT	
	Min	Max
Ambient Operating Temp - Surface	-4°F	95°F
Storage Temp	-4°F	140°F
Installation Temp	50°F	100°F

7 WIRE INPUT/OUTPUT

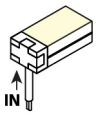
SINGLE (Input only)

S1



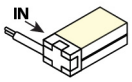
End Feed

S2



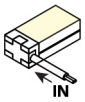
Bottom Feed

S3



Side Feed - Left

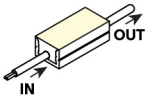
S4



Side Feed - Right

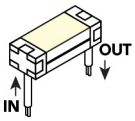
PASS THROUGH (Input/Output) - Only applicable for Non-Field Cuttable Q-CAP

P1



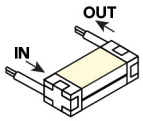
End Feed

P2



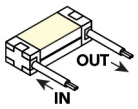
Bottom Feed

P3



Side Feed - Left

P4



Side Feed - Right

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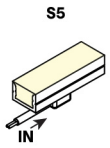
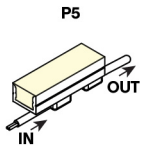
24VDC Flexible Fixtures

SEAMLESS SINGLE (Input only)



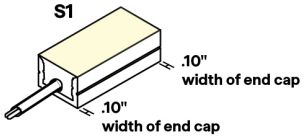
Seamless Feed

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

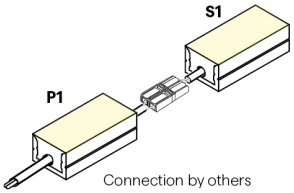


Seamless Feed

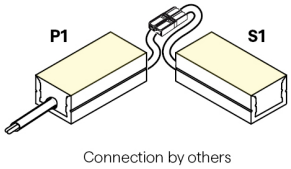
CONFIGURATION OPTIONS



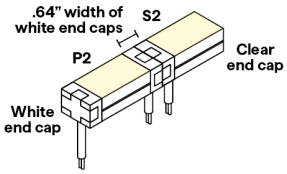
Single End Feed



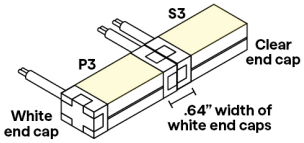
Non-Continuous End Feed



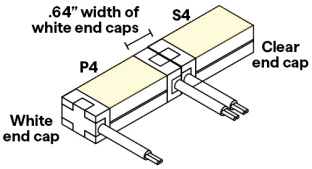
Non-Continuous Corner Feed



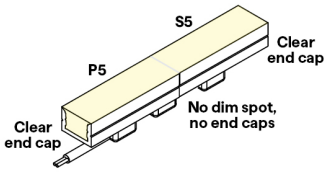
Continuous Bottom Feed



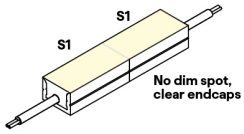
Continuous Side Feed - Left



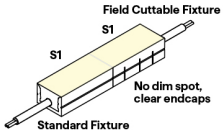
Continuous Side Feed - Right



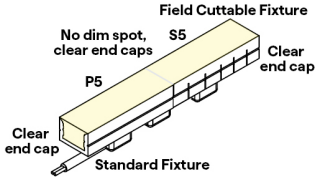
Seamless Bottom Feed



Continuous End to End Feed

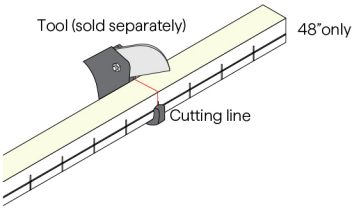


Field Cuttable - Continuous End to End Feed



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.

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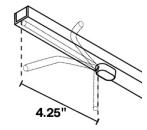
Q-CAP BOXA™ RGBW

24VDC Flexible Fixtures

SEAMLESS

Shown with bare wire, connectors vary

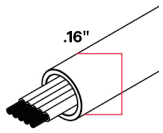


Omnidirectional wireways
S5, P5

8 / 9 CONNECTOR/WIRE – IN/OUT

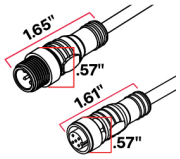
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out, and WH for End Caps

BW



Bare Wire 24"
22 AWG

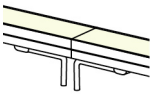
CON6/CON24



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

10 END CAPS (NO FEED)

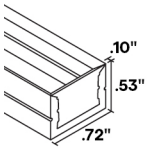
CL



Clear endcaps
.0" added at end

.00" dim spot

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



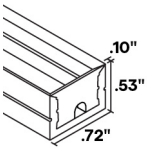
White endcaps
.0" added at end

.10" dim spot

END CAPS (WITH FEED)

End Feed

S1, P1

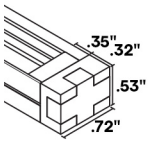


White endcaps
.0" added at end

.10" dim spot

Tri-Directional

S2, S3, S4, P2, P3, P4



White endcaps
.32" added at end

.67" dim spot

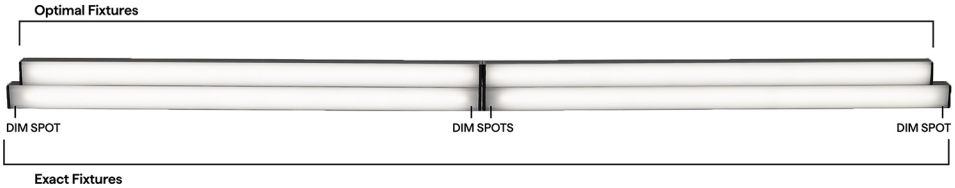
11 LENGTH - WIRING DETAIL

6.0W | Available in 4" 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.



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Q-CAP BOXA™ RGBW

24VDC Flexible Fixtures

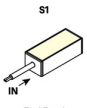
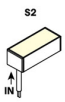
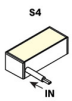
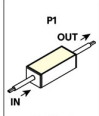
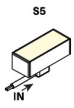
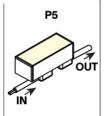
RGBW LENGTHS BY INCH

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"	2"
13"	.5"
14"	1"
15"	1.5"
16"	2"
17"	.5"
18"	1"
19"	1.5"
20"	2"
21"	.5"
22"	1"
23"	1.5"
24"	2"
36"	2"
48"	2"
60"	2"
72"	2"
84"	2"
96"	2"

OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1	S2 & S3 & S4			P1	P2 & P3 & P4			S5 & P5	
	 End Feed	 Bottom Feed	Side Feed - Left	 Side Feed - Right	 End Feed	Bottom Feed	Side Feed - Left	Side Feed - Right	 Seamless Feed	 Seamless Feed
12"	8.68"	8.98"			8.95"	9.75"			8.2"	
13"	12.68"	12.98"			12.95"	9.75"			12.2"	
14"	12.68"	12.98"			12.95"	13.75"			12.2"	
15"	12.68"	12.98"			12.95"	13.75"			12.2"	
16"	12.68"	12.98"			12.95"	13.75"			12.2"	
17"	16.68"	16.98"			16.95"	13.75"			16.2"	
18"	16.68"	16.98"			16.95"	17.75"			16.2"	
19"	16.68"	16.98"			16.95"	17.75"			16.2"	
20"	16.68"	16.98"			16.95"	17.75"			16.2"	
21"	20.68"	20.98"			20.95"	17.75"			20.2"	
22"	20.68"	20.98"			20.95"	21.75"			20.2"	
23"	20.68"	20.98"			20.95"	21.75"			20.2"	
24"	20.68"	20.98"			20.95"	21.75"			20.2"	
36"	32.68"	32.98"			32.95"	33.75"			32.2"	
48"	44.68"	44.98"			44.95"	45.75"			44.2"	
60"	56.68"	56.98"			56.95"	57.75"			56.2"	
72"	68.68"	68.98"			68.95"	69.75"			68.2"	
84"	80.68"	80.98"			80.95"	81.75"			80.2"	
96"	92.68"	92.98"			92.95"	93.75"			92.2"	

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
	RGBW, RGBW-HE	RGBW, RGBW-HE
0.1%	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT8 QOM-eLED+DMX QOM-eLED+PS-DALI-DT8 QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	

DIMMING PROTOCOL	INDOOR	OUTDOOR
	RGBW, RGBW-HE	RGBW, RGBW-HE
DMX	QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DMX QZ-DMX
DALI-2: DT8	QT-CAB-eLED+DALI-DT8 QTM-eLED+DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8
SCENE App Dimmed	Non-Dim Power Supply with RGBW App Dongle	

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Q-CAP BOXA™ RGBW

24VDC Flexible Fixtures

COMPATIBLE MOUNTING ACCESSORIES

Q-ANGLE

Adjustable mounting accessory

NJ-LARGE

J Mounting Bracket

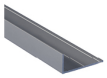
NU-LARGE

U Mounting Bracket

SD-J-LARGE

J Mounting Bracket

BL-LARGE



Backwards L Mounting Bracket

NL-LARGE

L Mounting Bracket

SD-L-LARGE

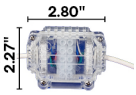
L Mounting Bracket

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

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage

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