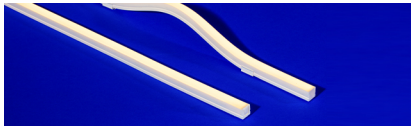




Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures



- Flexible encapsulated fixture
- Up/down bend
- 6" bend radius
- Interior and exterior rated (not including FC)
- Four different mounting options
- Available in seamless configuration for a continuous line of light
- Utilize clear endcaps for continuous runs
- 60% smaller than QTL's BOXA fixture
- When using DALI and DMX power supplies, LED wattage must be doubled
- Do not cut Non-Field Cuttable Q-CAP flexible fixtures

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 | 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 |
| | | | | 2.0 | | | | | | | |

Sample Part Number: **WAVE-DW-WSC-DRY-24/30-2.0-ENC/TL-P1-BW-BW-N/A-48"-E**

| | | | | | | | | | | | |
|--|---|---|---|--|---|---|---|---|--|---|--|
| A1 PRODUCT WAVE-DW WAVE-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 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 2.0 2.0W-SO SO: Standard 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 S1 Single 1 (Input only) - End Feed S5 Single 5 (Input only) - Seamless Feed P1 Pass Through 1 (Input/Output) - End 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 CL Clear WH White 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 2" 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 | Only FC fixtures are Field-Cuttable per installation instructions | Field Cuttable is not returnable or refundable after it has been cut



Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

B. FIELD CUTTABLE Q-CAP

| B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 | B12 |
|------------|----------|-------|-----|---------|------|-----------------------|-----------------------|------------------------|----------|-------------|----------------|
| PRODUCT | MOUNTING | RATED | CCT | WATTAGE | LENS | WIRE INPUT/ OUTPUT | CONNECTOR/ WIRE IN | CONNECTOR/ WIRE OUT | END CAPS | LENGTH (IN) | EXACT/ OPTIMAL |
| WAVE-FC-DW | | DRY | | 2.0 | | | | N/A | CL | 48" | N/A |

Sample Part Number: **WAVE-DW-WSC-DRY-24/30-2.0-ENC-TL-P1-BW-BW-N/A-48"-E**

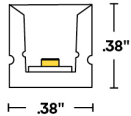
| | | | | |
|---|---|--|---|---|
| <div><div>B1</div><div>PRODUCT</div><div>WAVE-FC-DW</div><div>LED engine is built with 3 wires requiring 0-10v, DMX or DALI control. Using DALI, DMX, or non QTL power supplies may double watts/ft. See last page for compatible power supplies.</div></div> | <div><div>B2</div><div>MOUNTING</div><div><div>PPS-2</div><div>PVC Clip</div><div>PPS-96</div><div>PVC Channel</div><div>PPS-LP-2</div><div>PVC Low Profile Clip</div><div>PPS-LP-96</div><div>PVC Low Profile Channel</div><div>WSC</div><div>White Snug Clip</div><div>BN-UD-SST-16'</div><div>16' BENDIT Up/Down Stainless Steel Channel</div><div>BN-UD-SST-32'</div><div>32' BENDIT Up/Down Stainless Steel Channel</div><div>BN-UD-WH-16'</div><div>16' BENDIT Up/Down White Stainless Channel</div><div>BN-UD-WH-32'</div><div>32' BENDIT Up/Down White Stainless Channel</div></div><div>White snug clip only for indirect cove use, not intended for hanging fixtures upside down.</div><div>PPS mounting clip recommended for seamless applications</div></div> | <div><div>B3</div><div>RATED</div><div>DRY IP20</div></div> | <div><div>B4</div><div>CCT</div><div><div>24/30</div><div>2400K/3000K</div><div>27/40</div><div>2700K/4000K</div></div></div> | <div><div>B5</div><div>WATTAGE</div><div><div>2.0</div><div>2.0W-SO</div><div>SO: Standard Output</div></div></div> |
| <div><div>B6</div><div>LENS</div><div><div>ENC/CL</div><div>Encapsulated in Clear</div><div>ENC/TL</div><div>Encapsulated in Translucent</div></div><div>For representation of LED visibility, see Diode Visibility section on following pages</div></div> | <div><div>B7</div><div>WIRE INPUT/OUTPUT</div><div><div>S1</div><div>Single 1 (Input only) - End Feed</div><div>S5</div><div>Single 5 (Input only) - Seamless Feed</div></div></div> | <div><div>B8</div><div>CONNECTOR/WIRE IN</div><div><div>BW</div><div>Bare Wire (Standard 24")</div><div>CON6</div><div>Connector 6"</div><div>CON24</div><div>Connector 24"</div></div><div>BW: Standard length is 24". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div></div> | <div><div>B9</div><div>CONNECTOR/WIRE OUT</div><div><div>N/A</div><div>Closed End (No feed)</div></div></div> | |
| <div><div>B10</div><div>END CAPS</div><div><div>CL</div><div>Clear</div></div><div>Due to cutting, white endcaps are not available.</div></div> | <div><div>B11</div><div>LENGTH (IN)</div><div><div>48"</div><div>Nominal</div></div><div>Starting Run length is 48.475" for S1 & S5 Each cut point subtracts from the Starting Run Length 2.0 has a 2" cut point S1 can be cut down to as little as 2.475" S5 can be cut down to as little as 6.475"</div></div> | <div><div>B12</div><div>EXACT/OPTIMAL</div><div><div>N/A</div></div></div> | | |



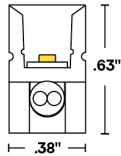
Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

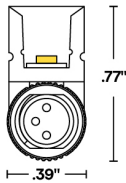
1 PRODUCT - DIMENSIONS



Profile
(Standard)



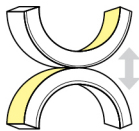
Profile
(Seamless bare wire)



Profile
(Seamless CON6-24)

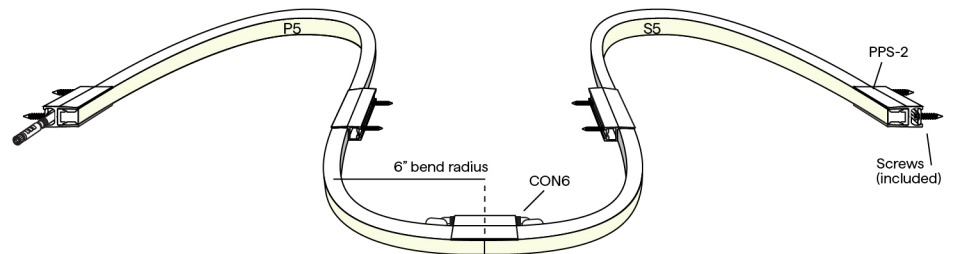
BEND RADIUS

Up/Down Bend



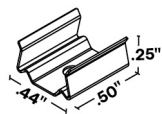
6" bending radius

FLEXIBILITY



2 MOUNTING

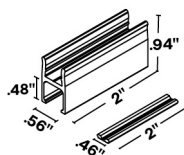
WSC



White Snug Clip
Indirect uplight

To order separately use WSC-02
Each clip comes with a #4x5/8" flat screw

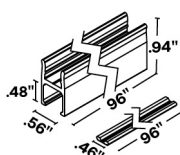
PPS-2



PVC Mounting Clip

To order separately use MICRO5-PPS2

PPS-96

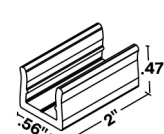


96" straight linear run

To order separately use MICRO5-PPS-96

Each clip comes with a #6" flat screw

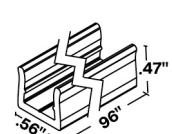
PPS-LP-2



Low profile PVC Mounting Clip

To order separately use MICRO5-PPS-LP-2

PPS-LP-96



Low profile PVC channel
96" straight linear run

To order separately use MICRO5-PPS-LP-96

Each clip comes with a #6" flat screw

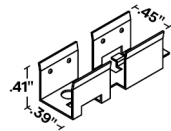


Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

MOUNTING CONTINUED

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
MICRO5-BN-UD-SST-16', MICRO5-
BN-UD-SST-32', MICRO5-BN-UD-
WH-16', or MICRO5-BN-UD-
WH-32'

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

4 / 5 DELIVERED LUMENS

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

| CCT | 2.0W/FT Total Load | | | | Circuit Wattage |
|-------|--------------------|-----|--------|-----|--------------------|
| | ENC/CL | | ENC/TL | | |
| | LM | CRI | LM | CRI | |
| 2400K | 145 | 93 | 142 | 93 | 1.90 |
| 2700K | 157 | 93 | 139 | 96 | 1.90 |
| 3000K | 150 | 95 | 143 | 96 | 1.90 |
| 3500K | 167 | 98 | 155 | 97 | 1.90 |
| 4000K | 46 | 97 | 53 | 98 | 122 |

6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

ENC/TL - Translucent encapsulation

TEMPERATURE RATINGS

| | DW 2.0 W/FT | | DW 4.0 W/FT | |
|----------------------------------|---------------------------------------|-------|------------------------------------|-------|
| | QTL power supply other than DALI, DMX | | DALI, DMX, or non-QTL power supply | |
| | Min | Max | Min | Max |
| Ambient Operating Temp - Surface | -4°F | 135°F | -4°F | 110°F |
| Storage Temp | -4°F | 140°F | -4°F | 140°F |
| Install Temp | 50°F | 100°F | 50°F | 100°F |

BUG RATING

| WATTAGE | B | U | G |
|----------------|----|----|----|
| 4.0 (ALL CCTs) | B0 | U1 | G0 |

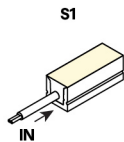


Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

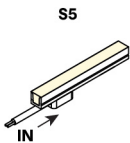
7 WIRE INPUT/OUTPUT

SINGLE (Input only)



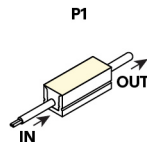
End Feed

SEAMLESS SINGLE (Input only)



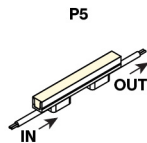
Seamless Feed

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



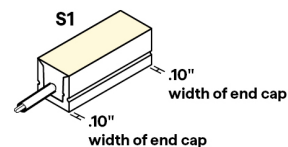
End Feed

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

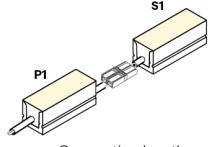


Seamless Feed

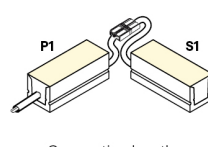
CONFIGURATION OPTIONS



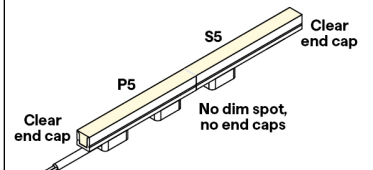
Single End Feed



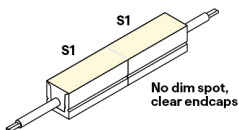
Connection by others
Non-Continuous End Feed



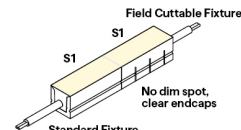
Connection by others
Non-Continuous Corner Feed



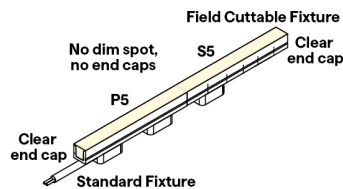
Seamless Bottom Feed



Continuous End to End Feed

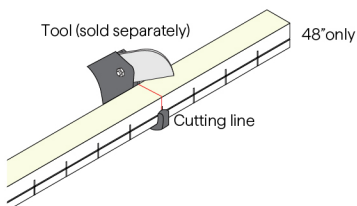


Field Cuttable - Continuous End to End Feed

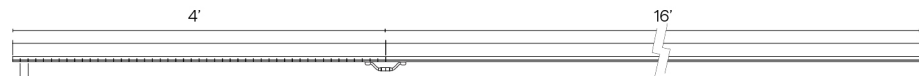


Field Cuttable - Seamless Bottom Feed

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.

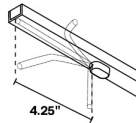


Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

SEAMLESS

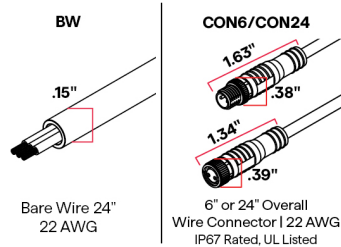
Shown with bare wire, connectors vary



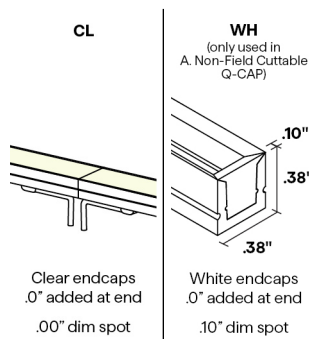
Omnidirectional wireways
S5, P5

8 / 9 CONNECTOR/WIRE - IN/OUT

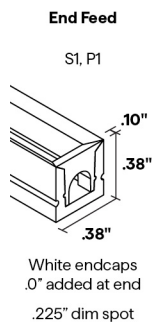
Connector/Wire In or Out not needed to specify product. Typical selection is S1 for Wire Input/Output, BW for Connector/Wire In, N/A for Connector/Wire Out, and WH for End Caps



10 END CAPS (NO FEED)



END CAPS (WITH FEED)



11 LENGTH - WIRING DETAIL

Available in 2" increments 12"-191"

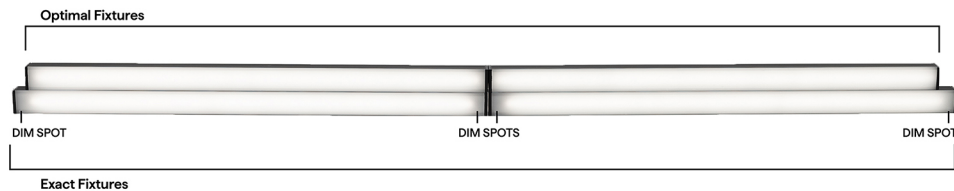


12 EXACT/OPTIMAL FIXTURE LENGTH

[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 WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures


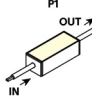

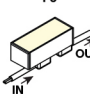
DW LENGTHS BY INCH

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 | P1 | S5 & P5 | |
|--------------------------|---|---|---|---|
| |  |  |  |  |
| 12" | 10.63" | 11" | 10.25" | |
| 13" | 12.63" | 13" | 12.25" | |
| 14" | 12.63" | 13" | 12.25" | |
| 15" | 14.63" | 15" | 14.25" | |
| 16" | 14.63" | 15" | 14.25" | |
| 17" | 16.63" | 17" | 16.25" | |
| 18" | 16.63" | 17" | 16.25" | |
| 19" | 18.63" | 19" | 18.25" | |
| 20" | 18.63" | 19" | 18.25" | |
| 21" | 20.63" | 21" | 20.25" | |
| 22" | 20.63" | 21" | 20.25" | |
| 23" | 22.63" | 23" | 22.25" | |
| 24" | 22.63" | 23" | 22.25" | |
| 36" | 34.63" | 35" | 34.25" | |
| 48" | 46.63" | 47" | 46.25" | |
| 60" | 58.63" | 59" | 58.25" | |
| 72" | 70.63" | 71" | 70.25" | |
| 84" | 82.63" | 83" | 82.25" | |
| 96" | 94.63" | 95" | 94.25" | |

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 |
|--------------|--|---|
| | MICRO 5-DW Warm Dim Applications | MICRO 5-DW Warm Dim Applications |
| 0.1% | QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DMX QZ-DW | Q-SET-QZ-DW QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+WD QZ-DMX QZ-DW |
| 1% | QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8 QZ-DALI-DT8 |
| 10% | Non-Dim Power Supply with WD App Dongle | |



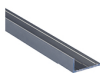





Q-CAP WAVE FOR WARM DIM APPLICATIONS

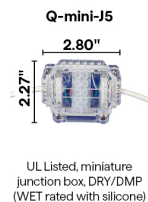
24VDC Flexible Fixtures

| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | MICRO 5-DW Warm Dim Applications | MICRO 5-DW Warm Dim Applications |
| Phase | QZ-DW | Q-SET-QZ-DW QZ-DW |
| 0-10V | QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW | Q-SET-QZ-DW QOM-eLED+WD QZ-DW |
| Lutron Athena | QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN | |
| DMX LED wattage must be doubled for DW-HE products | 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 WD App Dongle | |

COMPATIBLE MOUNTING ACCESSORIES

| | | | | | |
|---|---|---|---|---|---|
| QUOVA-MICRO | NJ-MICRO | BL-MICRO | NL-MICRO | SD-L-MICRO | IQ-QCAP-UNV-CUTTER |
|  |  |  |  |  |  |
| QUOVA Knife Edge | J Mounting Bracket | Backwards L Mounting Bracket | L Mounting Bracket | L Mounting Bracket | QTL recommended FC Cutter |

COMPATIBLE WIRING ACCESSORIES



COMPATIBLE CONTROL ACCESSORIES





Q-CAP WAVE FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

COMPATIBLE APPS

NFC APP



Read and write
DMX addresses and
adjust voltage