Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures





- Flexible encapsulated fixture
- Both helical bend and up/down bend
- 6" bend radius
- Interior and exterior rated (not including FC)
- Two mounting options available
- 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

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

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

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
			WH		

Sample Part Number: **WURM-DW-WSCS-DRY-24/30-1.5HE-ENC/CL-P1-BW-BW-N/A-48"-E**

A1 PRODUCT

WURM-DW
WURM-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

MCS	Magnetic Clip Small
WSCS	White Snug Clip Small
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.

A3 RATED

DRY	IP20
WET	IP67

A4 CCT

22/30	2200K/3000K
22/35	2200K/3500K
24/30	2400K/3000K
24/40	2400K/4000K
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

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

A7 WIRE INPUT/OUTPUT

SINGLE (Input only)
S1 End Feed

PASS THROUGH (Input/Output)
P1 End 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

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 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 | Warranty only valid with QTL power supplies | Up/Down & Helical 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 # D846,786 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 | Field Cuttable is not returnable or refundable after it has been cut

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Q-CAP WURM™ FOR WARM DIM 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
		DRY			ENC/CL

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	WH	48”	N/A

Sample Part Number: **WURM-FC-DW-WSCS-DRY-24/30-1.5HE-ENC/CL-S1-BW-N/A-WH-48"-N/A**

B1 PRODUCT

WURM-FC-DW
WURM-FC-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.

B2 MOUNTING

MCS	Magnetic Clip Small
WSCS	White Snug Clip Small
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.

B3 RATED

DRY	IP20

B4 CCT

22/30	2200K/3000K
22/35	2200K/3500K
24/30	2400K/3000K
24/40	2400K/4000K
27/40	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

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

B7 WIRE INPUT/OUTPUT

SINGLE (Input only)	
S1	End 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

WH	White

Due to cutting, white endcaps are not available.

Single

B11 LENGTH (IN)

48”	Nominal

Starting Run length is 48.38" for S1
Each cut point subtracts from the Starting Run Length
1.5HE & 2.5HE have a 2" cut point
S1 can be cut down to as little as 2.38"

B12 EXACT/OPTIMAL

N/A

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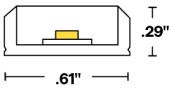
Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

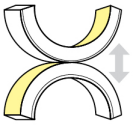
1 PRODUCT - DIMENSIONS



Profile
(Standard)

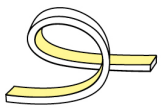
BEND RADIUS

Up/Down Bend



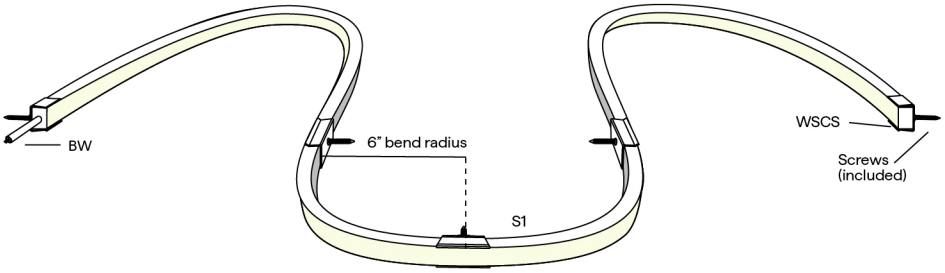
6" bending radius

Helical Bend



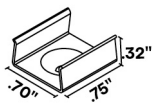
6" bending radius
Max recommended rotation
of 1 rotation per 16"

FLEXIBILITY



2 MOUNTING

WSCS

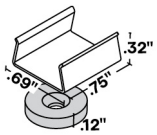


White Snug Clip Small
Indirect uplight

To order separately use WSCS

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

MCS

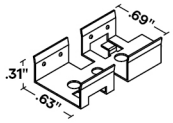


Magnetic Clip Small
Cove use only

To order separately use MCS

each clip comes with a #6x1 1/4" 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-S-SST-16', STND-QCAP-BN-UD-S-SST-32', STND-QCAP-BN-UD-S-WH-16', or STND-QCAP-BN-UD-S-WH-32'

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

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24VDC Flexible Fixtures

4 / 5 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with WURM-DW-WSCS-DRY

CCT	1.5HE W/FT ENC/CL		2.5 HE W/FT ENC/CL	
	LM	CRI	LM	CRI
2200K	**	**	**	**
2400K	133	92	198	92
2700K	126	96	201	97
3000K	132	97	206	97
3500K	**	**	**	**
4000K	142	97	225	98

6 DIODE VISIBILITY

ENC/CL - Clear 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	120°F	-4°F	120°F	-4°F	100°F
Storage Temp	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F
Installation Temp	50°F	100°F	50°F	100°F	50°F	100°F	50°F	100°F

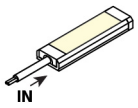
BUG RATING

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

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

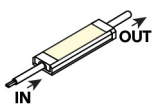
S1



End Feed

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

P1



End Feed

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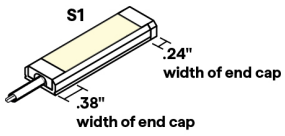
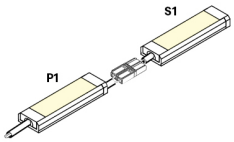
Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

CONFIGURATION OPTIONS

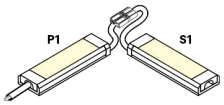


Single End Feed



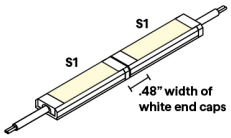
Connection by others

Non-Continuous End Feed

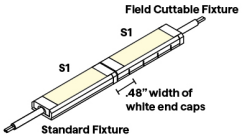


Connection by others

Non-Continuous Corner Feed

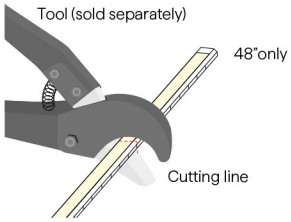


Continuous End to End Feed



Field Cuttable - Continuous End to End Feed

FIELD CUTTABLE MARKING



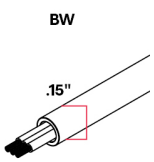
Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing for easy field adjustment



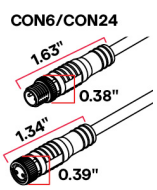
Note: Only FC fixtures are field cuttable — Do not attempt to cut non FC fixtures.
Cut only on the marked cut lines. Only cut from non-feed end. Do not attempt to cut while power is on.

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



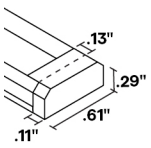
Bare Wire 24"
22 AWG



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

10 END CAPS (NO FEED)

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



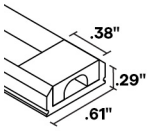
White endcaps
.11" added at end

.24" dim spot

END CAPS (WITH FEED)

End Feed

S1, P1



White endcaps
.0" added at end

.38" dim spot

11 LENGTH - WIRING DETAIL

Available in 2" increments 12"-191"



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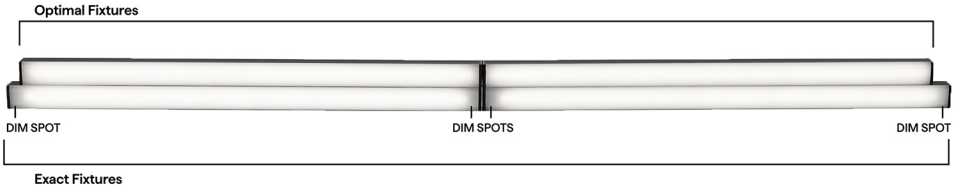
Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

12 EXACT/OPTIMAL FIXTURE LENGTH

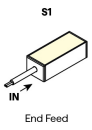
E/O Length Calculator → E/O Explained →

Exact fixtures are the exact length specified +0 -1/8". 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.

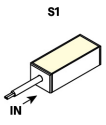
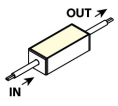


DW-HE ENC LENGTHS BY INCH

EXACT LENGTH

Requested Length	Potential dim spot on either end of a S1 fixture 
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

Requested Nominal Length	S1 	P1 
12"	10.63"	10.75"
13"	12.63"	12.75"
14"	12.63"	12.75"
15"	14.63"	14.75"
16"	14.63"	14.75"
17"	16.63"	16.75"
18"	16.63"	16.75"
19"	18.63"	18.75"
20"	18.63"	18.75"
21"	20.63"	20.75"
22"	20.63"	20.75"
23"	22.63"	22.75"
24"	22.63"	22.75"
36"	34.63"	34.75"
48"	46.63"	46.75"
60"	58.63"	58.75"
72"	70.63"	70.75"
84"	82.63"	82.75"
96"	94.63"	94.75"

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 Warm Dim Applications	DW-HE 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-DW	Q-SET-QZ-DW QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT6-PS QOM-eLED+DALI-DT8 QOM-eLED+DALI-DT8-PS QOM-eLED+WD QZ-DW
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with WD App Dongle	

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Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

DIMMING PROTOCOL	INDOOR	OUTDOOR
	DW-HE Warm Dim Applications	DW-HE 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	
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

NJ-MEDIUM



J Mounting Bracket

SD-L-MEDIUM



L Mounting Bracket

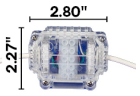
iQ-QCAP-UNV-CUTTER



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

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Q-CAP WURM™ FOR WARM DIM APPLICATIONS

24VDC Flexible Fixtures

COMPATIBLE APPS

NFC APP



Read and write DMX addresses and adjust voltage

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Q-CAP WURM

Flexible Fixtures

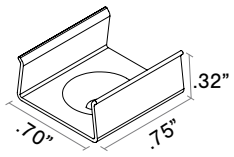
Mounting

NOTE: 2 white snug clips provided per first 12", 1 for each additional 12".
Other mounting styles incur additional charge, see price guide for details.

WSCS:

WHITE SNUG CLIP SMALL

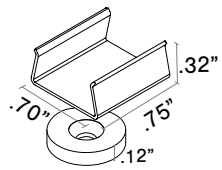
- For indoor/outdoor use
- Surface mounting
- Stainless Steel/Corrosion resistant
- Discrete mounting
- White glossy finish



MCS:

MAGNETIC CLIP SMALL

- For indoor/outdoor use
- Steel clip
- Neodymium magnet
- Easy install
- Easily detachable
- Inaccessible locations such as cove area
- White glossy finish



MOUNTING HARDWARE

- #6 - 5/8" (one provided for each clip)
- 832 Silicone (sold separately)

MOUNTING HARDWARE

- #6 - 1 1/4" (one provided for each clip)
- 832 Silicone (sold separately)

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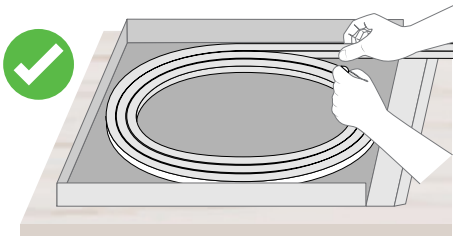
WURM

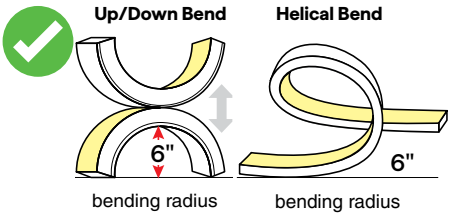
Q-CAP HANDLING INSTRUCTIONS

WARNING: FRAGILE

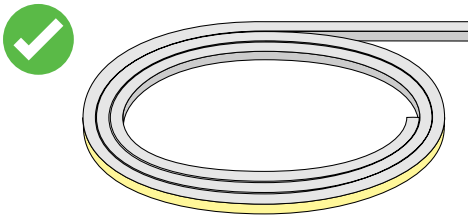
Flexible fixtures contain sensitive electronics, requiring careful handling and installation to preserve their warranty. When unpacking flexible fixtures, handle them gently and test all fixtures upon receiving.



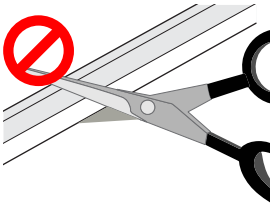
Keep the fixtures flat and supported when removing them from the box. Unroll them carefully on a flat surface and do not bend them against the intended bend direction.



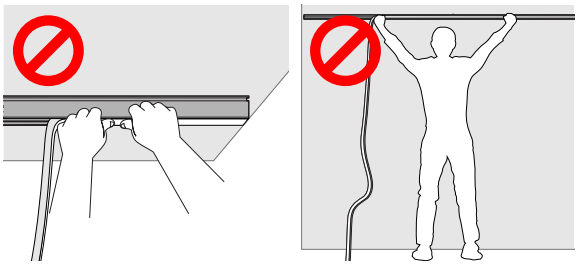
This WURM fixture is omnidirectional and has up/down and helical bending capabilities. Do not bend the fixture more than a 6" radius.



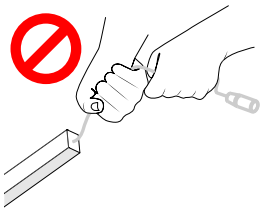
Powering the fixtures prior to installing will warm them up and make them more flexible, preventing damage.



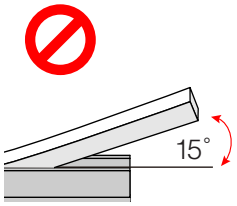
Only FC fixtures are field cuttable. Do not attempt to cut non-FC fixtures. Field modifications void warranty.



Do not let any portion of the fixture hang in any direction during installation. Use two people to install to ensure the fixture does not hang.



Do not grab or pull by the wire feeds.



Do not bend the fixture more than 15 degrees when installing into mounting brackets or channels.

MISHANDLING OF FIXTURES DURING INSTALLATION VOIDS WARRANTY

TEMPERATURE RATINGS

Static White & Static White HE	1.5 W/FT		1.5HE W/FT		3.0 W/FT		3.0HE W/FT		5.0 W/FT		6.0HE W/FT	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	135°F	-4°F	140°F	-4°F	120°F	-4°F	120°F	-4°F	105°F	-4°F	100°F
Storage Temp	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F	-4°F	140°F
Installation Temp	50°F	100°F	50°F	100°F	50°F	100°F	50°F	100°F	50°F	100°F	50°F	100°F

Tunable & Warm Dim	DW 1.5HE W/FT		DW 2.5HE W/FT	
	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	140°F	-4°F	120°F
Storage Temp	-4°F	140°F	-4°F	140°F
Installation Temp	50°F	100°F	50°F	100°F

RGB	6.0 W/FT	
	Min	Max
Ambient Operating Temp - Surface	-14°F	90°F
Storage Temp	-13°F	176°F
Installation Temp	50°F	100°F

RGBW & RGBW-HE	6.0 W/FT		4.0HE W/FT	
	Min	Max	Min	Max
Ambient Operating Temp - Surface	-4°F	100°F	-4°F	110°F
Storage Temp	-4°F	140°F	-4°F	176°F
Installation Temp	50°F	100°F	50°F	100°F

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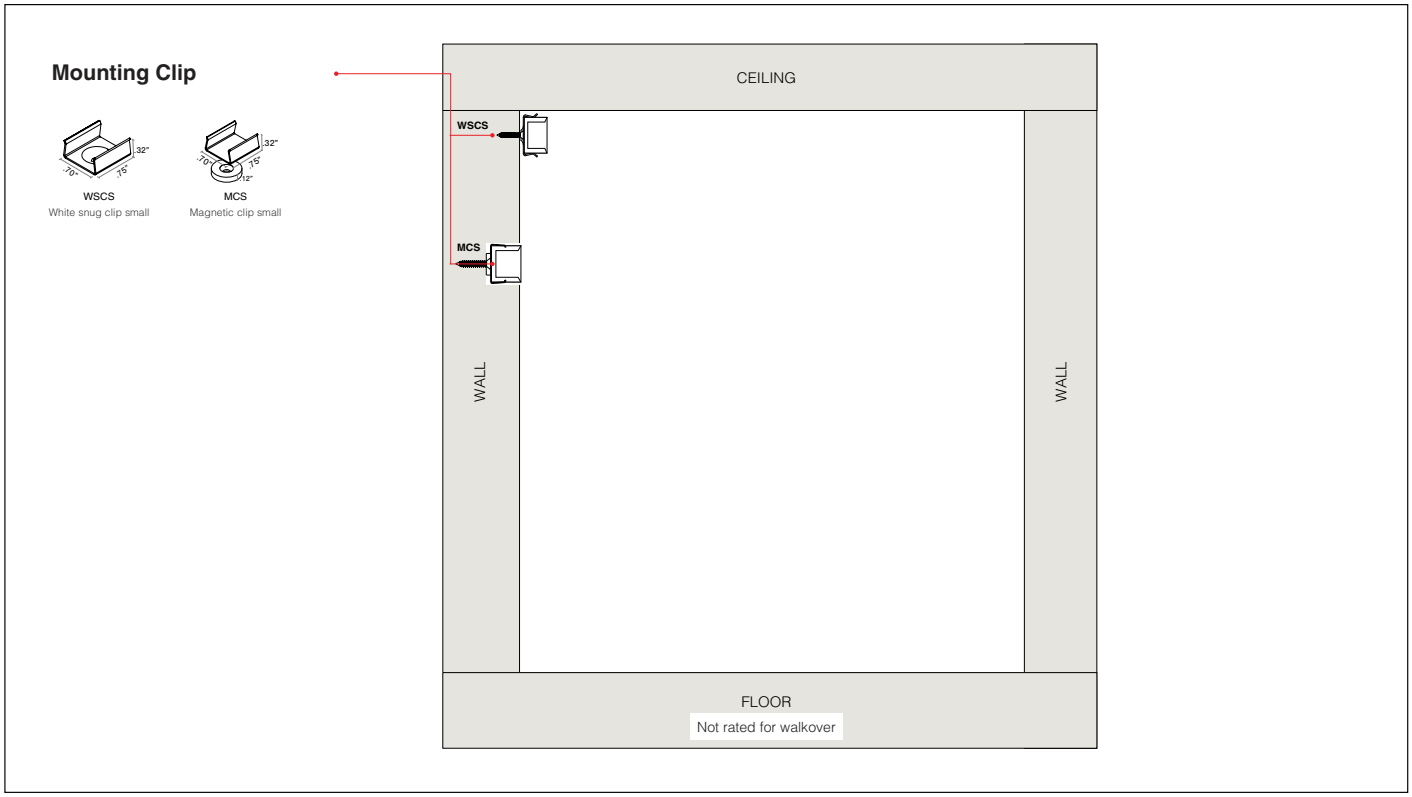
Q-CAP WURM

Q-CAP Flexible Fixtures Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Surface mount or recessed in millwork
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.

METHODS OF INSTALLATION



Mounting Method

- WSCS (page 6)
- BN-UD (page 7)
- MCS (page 8)

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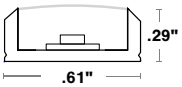
Q-CAP WURM

Q-CAP Flexible Fixtures Installation Instructions

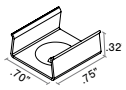


WURM Profile

COMPONENTS & HARDWARE

Alternate screw lengths can be used in installation as long as the screw diameter size is consistent with the included screw diameter size

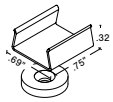
MOUNTING CLIP & MOUNTING CHANNEL	
WSCS	MCS



White snug clip small

Included
• #6 Flat Screw (one provided for each clip)

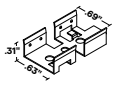
- 2 white snug clips provided per first 12", 1 for each additional 12". Other mounting styles incur additional charge, see price guide for details



Magnetic clip small (Cove use only)

Included
• #6 Flat Screw (one provided for each clip)

SEAMLESS MOUNTING CLIP
STND-QCAP-BN-UD-S



Vertical Flexible Channel

Included
• #4-40 1/2" screws (64 screws for every 16')

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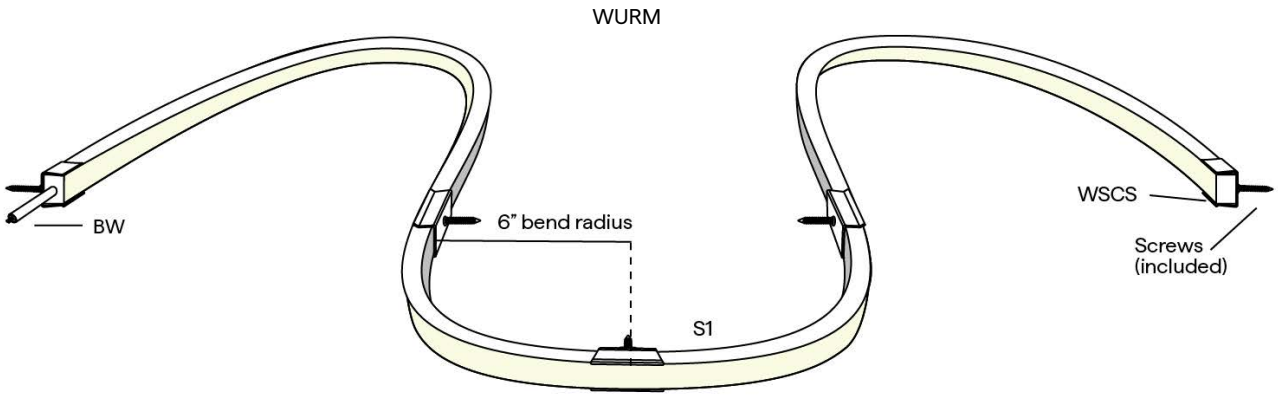
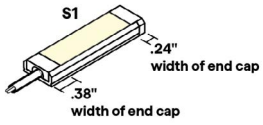
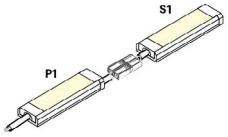
CONFIGURATION OPTIONS



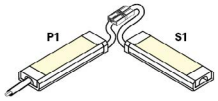


Single End Feed



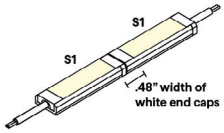
Connection by others

Non-Continuous End Feed

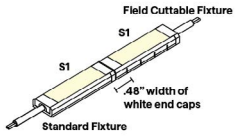


Connection by others

Non-Continuous Corner Feed



Continuous End to End Feed



Field Cuttable - Continuous End to End Feed

Review wire method to ensure clean installation prior to mounting finished fixture.

NOTE: Additional wire methods include:
S1: Connector/Wire Input only
P1: Connector/Wire Input and Output

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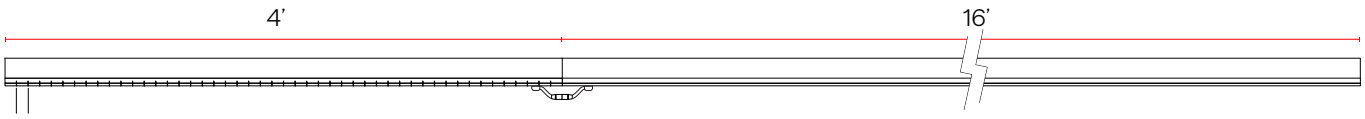
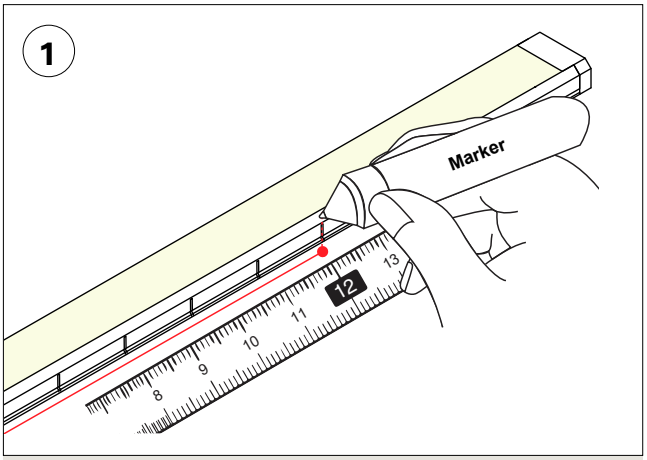
FIELD CUTTABLE

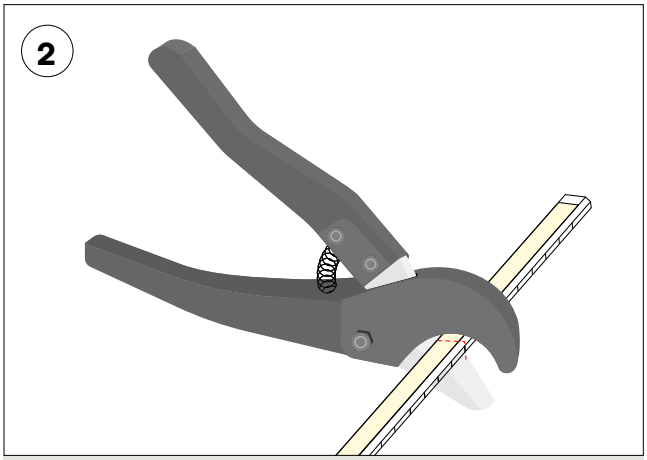
- Field cuttable fixtures are sold in 4' increments and go at the end of a run, allowing easy field adjustment
- Only FC fixtures are field cuttable - DO NOT CUT NON-FIELD CUTTABLE FIXTURES
- Do not attempt to cut while power is on





Mark desired length on field cuttable housing on the cut line.

NOTE: Only Cut on the marked cut lines. Only cut from non-feed end.



Cut with Q-CAP cutter tools (sold separately).

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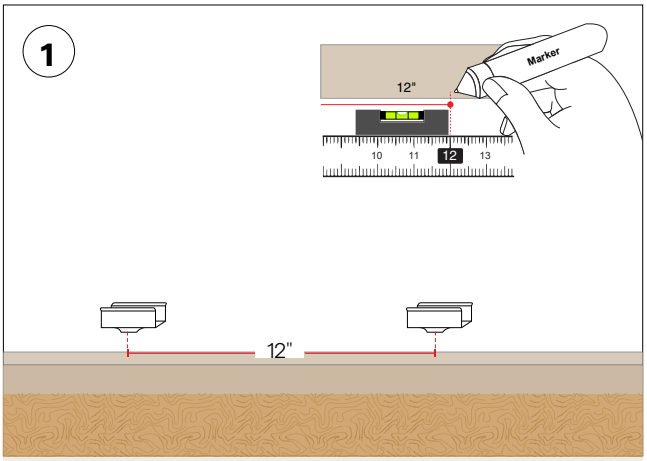
Q-CAP WURM

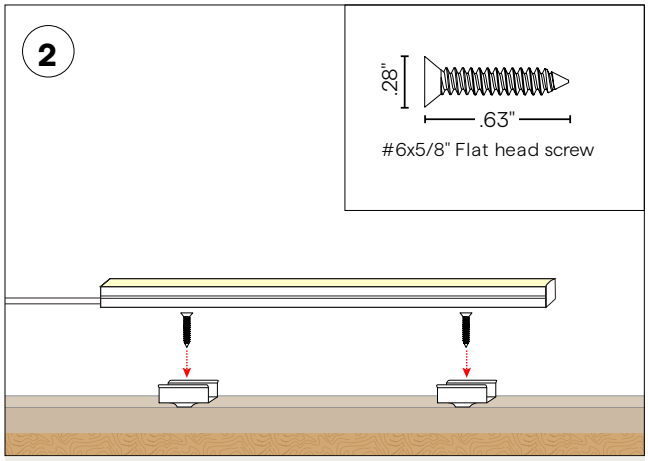
Q-CAP Flexible Fixtures Installation Instructions

SURFACE MOUNTING METHOD: **WHITE SNUG CLIP SNUG SMALL**

- 2 clips provided per first 12", 1 for each additional 12"

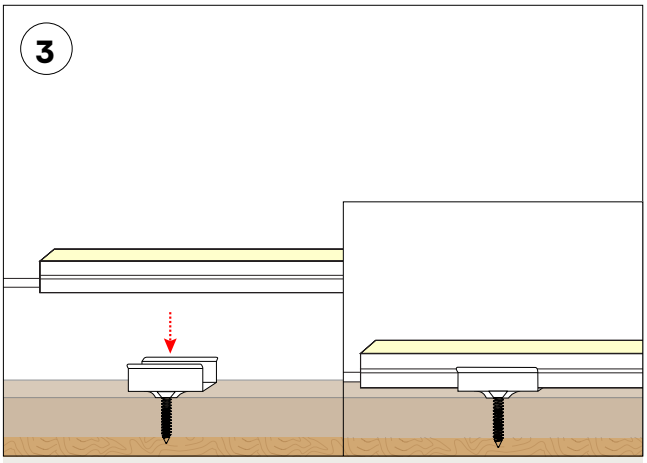


Determine the fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 12".



- Secure clips using the #6 flat head hardware provided
- Ensure the screw head is flush with the clip's base.

NOTE: Flat head screw type is dependent on surface/application material Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.



Snap fixture onto clips.

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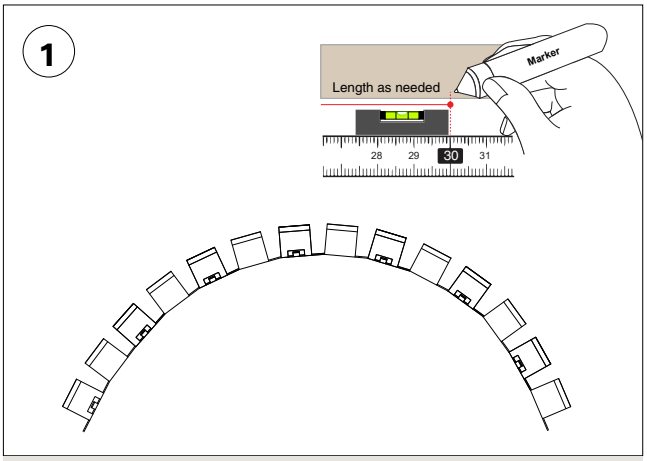
Q-CAP WURM

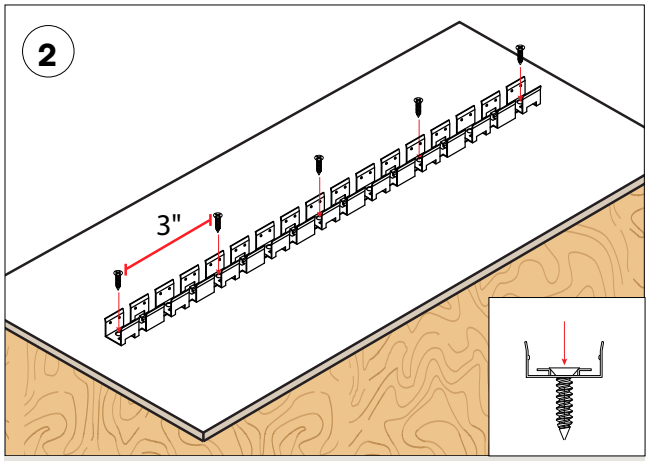
Q-CAP Flexible Fixtures Installation Instructions

SURFACE MOUNTING METHOD: **BN-UD**



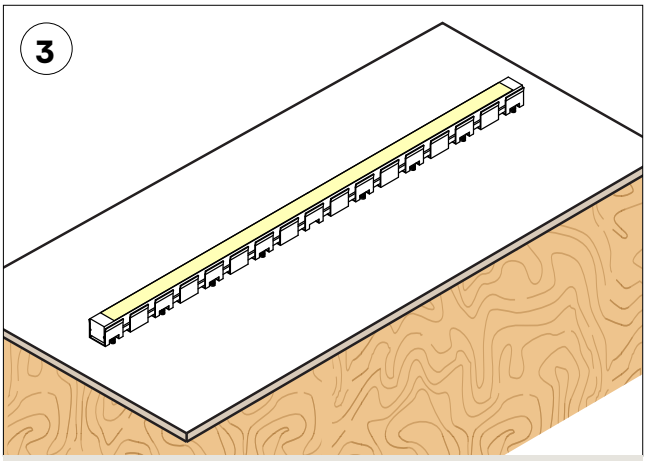
Determine the fixture(s) location and positioning on desired surface and arrange the BENDIT channel into the desired shape. Make any necessary reference markings to indicate where the channel is to be secured in place.

NOTE: The bend of the channel cannot exceed the bend of the fixture, Bending past the recommended amount can damage the fixture, Please see Q-CAP fixture bend radius chart or fixture cut sheet



Use #4 tapping screws to make shape desired while not exceeding fixture bend radius. Recommended 1 screw approximately every 3”

NOTE: Screws should be secured all the way down.



Press fit the fixture into the channel until secure.

Q-CAP Fixture Bend Radius			
Fixture	Vertical Bend	Horizontal Bend	Helical Bend
ANYBEND	9"	9"	-
BOXA	6"	-	-
KURV	-	6"	-
KURV-BK	-	10"	-
LUME	6"	-	-
NEXUS	4"	-	4"
WALA	-	6"	-
WAVE	6"	-	-
WURM	6"	-	6"
ZALA	-	6"	-

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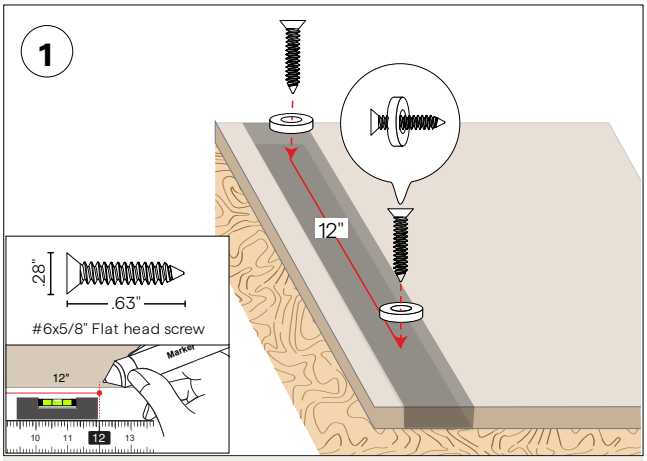
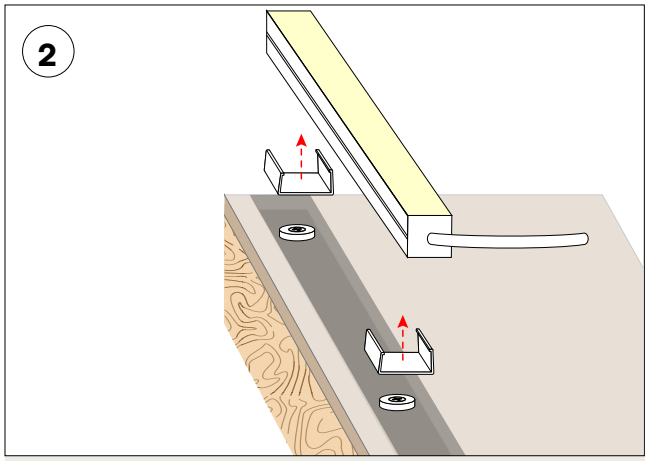
RECESSED MOUNTING METHOD: **MAGNETIC CLIP SMALL**

- 2 clips provided per first 12", 1 for each additional 12"

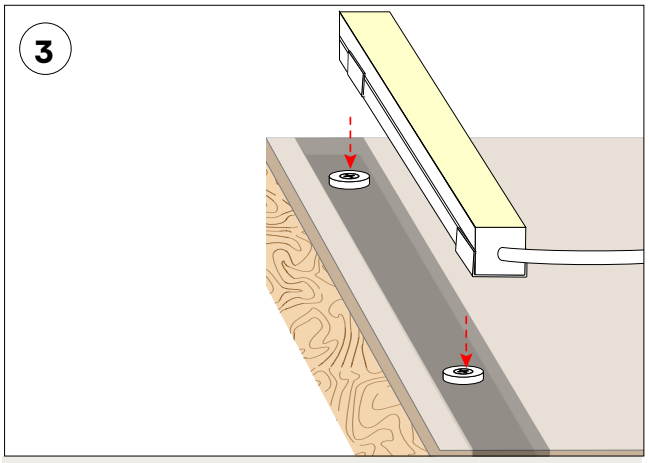


Determine the fixture(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 12".



Attach clips to fixture matching magnet distances.

NOTE: Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.



Align and snap fixture to magnetic rings.

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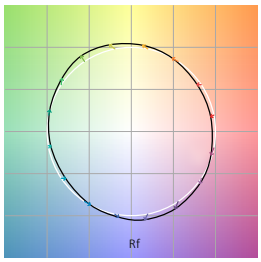
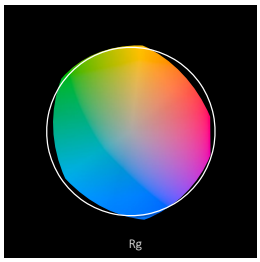
WURM-DW-HE Q-CAP Flexible Fixtures

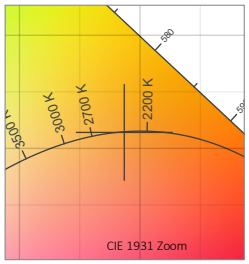
2400K-1.5HE-ENC/CL

2390 K

CRI: 91.9
CRI R9: 63.5
TM30 Rf: 89.9
TM30 Rg: 102.4
CQS: 86.3
X: 0.487
Y: 0.414
U: 0.278
V: 0.355
Δuv: -0.0003







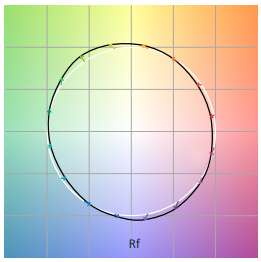
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.9	94.7	93.4	92.8	91.3	93.2	93.1	83.7	63.5	85.0	92.8	80.1	93.3	94.7	89.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
84.0	93.0	84.2	85.0	86.5	83.4	81.4	86.1	93.7	88.6	88.9	89.5	90.1	85.4	84.4
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.3	91.3	84.3	89.3	91.1	89.7	88.5	91.3	93.3	91.2	88.9	87.8	91.0	86.5	91.1	88.2

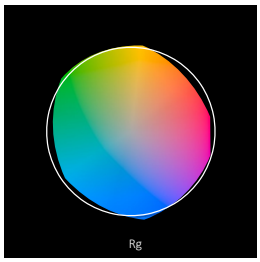
TM30			
Hue Bin	R_f	Chroma	Hue
1	91	-4%	-1%
2	91	-4%	3%
3	84	-1%	8%
4	89	3%	6%
5	91	6%	5%
6	90	8%	0%
7	89	3%	-6%
8	91	0%	-6%
9	93	-3%	-3%
10	91	-4%	3%
11	89	-1%	8%
12	88	3%	5%
13	91	6%	-5%
14	87	5%	-8%
15	91	2%	-6%
16	88	-2%	-9%

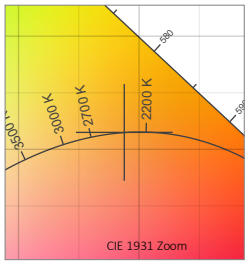
2400K-2.5HE-ENC/CL

2387 K

CRI: 91.9
CRI R9: 62.9
TM30 Rf: 89.9
TM30 Rg: 102.5
CQS: 86.3
X: 0.488
Y: 0.415
U: 0.279
V: 0.355
Δuv: 0.0002







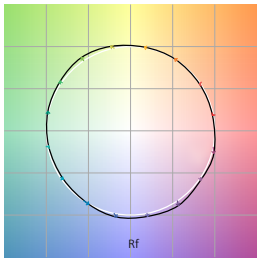
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.0	94.6	93.4	93.1	91.5	93.3	93.1	83.5	62.9	85.2	93.5	80.1	93.3	94.8	89.2
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
83.8	92.9	84.4	85.5	86.5	83.1	81.6	86.5	93.7	88.8	89.4	89.9	90.3	85.1	84.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
91.1	91.4	84.6	89.4	91.2	89.7	88.4	91.4	93.1	91.5	89.2	87.8	91.0	86.3	91.1	87.9

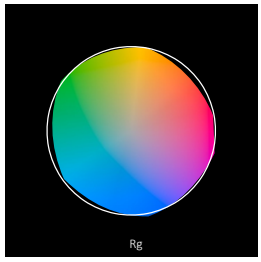
TM30			
Hue Bin	R_f	Chroma	Hue
1	91	-4%	-1%
2	91	-4%	3%
3	85	-1%	8%
4	89	3%	6%
5	91	6%	5%
6	90	8%	0%
7	88	4%	-6%
8	91	0%	-6%
9	93	-3%	-3%
10	92	-4%	3%
11	89	-1%	8%
12	88	3%	5%
13	91	6%	-5%
14	86	5%	-8%
15	91	2%	-6%
16	88	-2%	-9%

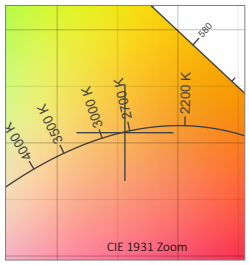
2700K-1.5HE-ENC/CL

2744 K

CRI: 96.4
CRI R9: 92.0
TM30 Rf: 94.0
TM30 Rg: 102.8
CQS: 92.7
X: 0.456
Y: 0.409
U: 0.261
V: 0.351
Δuv: -0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	96.8	92.3	96.8	97.1	95.1	97.4	97.4	92.0	90.4	96.3	83.1	97.9	94.6	98.0
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.6	97.1	88.3	90.6	93.1	90.4	88.8	93.7	95.2	93.2	94.3	95.8	96.9	95.8	95.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.6	97.4	92.7	93.8	94.2	93.0	94.7	95.0	96.7	94.1	90.3	90.9	95.1	93.1	94.8	91.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	-1%
2	97	-1%	1%
3	93	0%	4%
4	94	1%	3%
5	94	3%	4%
6	93	5%	0%
7	95	2%	-3%
8	95	1%	-3%
9	97	-1%	-1%
10	94	-2%	3%
11	90	0%	7%
12	91	4%	4%
13	95	4%	0%
14	93	5%	-2%
15	95	2%	-2%
16	91	2%	-7%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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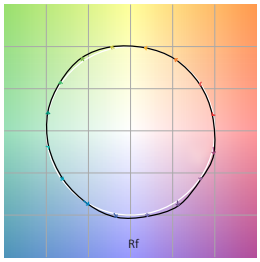
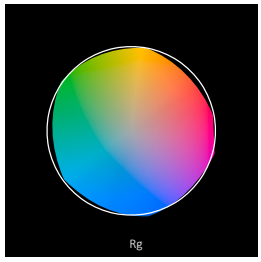
WURM-DW-HE Q-CAP Flexible Fixtures

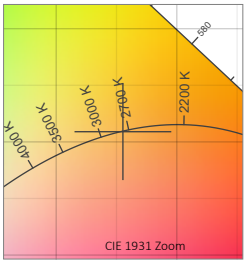
2700K-2.5HE-ENC/CL

2755 K

CRI: 96.5
CRI R9: 90.8
TM30 Rf: 94.0
TM30 Rg: 102.6
CQS: 92.9
X: 0.455
Y: 0.409
U: 0.260
V: 0.351
Δuv: -0.0002







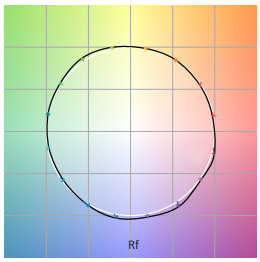
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.4	96.9	92.7	97.0	97.1	95.2	97.6	97.0	90.8	90.7	96.3	82.5	97.9	94.8	97.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.9	97.1	88.3	90.5	93.4	91.0	89.2	93.9	95.3	93.4	94.5	95.9	96.9	95.5	95.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.6	97.3	93.0	94.0	94.3	93.6	95.5	95.7	96.9	93.5	89.8	90.8	95.2	92.7	95.3	90.4

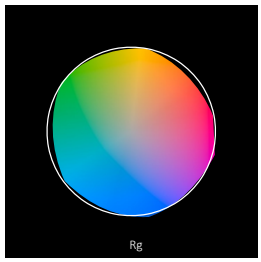
TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	-1%
2	97	-1%	1%
3	93	0%	3%
4	94	0%	3%
5	94	2%	3%
6	94	4%	0%
7	96	2%	-2%
8	96	1%	-3%
9	97	-1%	-1%
10	94	-2%	4%
11	90	0%	8%
12	91	4%	4%
13	95	3%	0%
14	93	5%	-2%
15	95	1%	-2%
16	90	2%	-7%

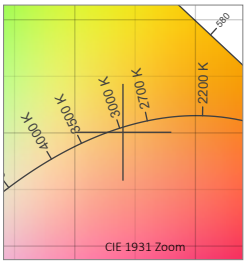
3000K-1.5HE-ENC/CL

2925 K

CRI: 96.6
CRI R9: 92.5
TM30 Rf: 93.6
TM30 Rg: 102.7
CQS: 92.6
X: 0.440
Y: 0.401
U: 0.254
V: 0.347
Δuv: -0.0018







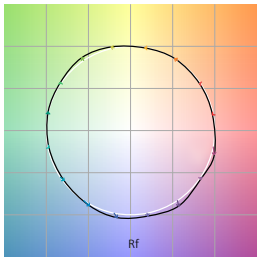
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	97.3	93.2	96.7	97.2	95.2	97.4	97.3	92.5	91.5	95.9	81.9	98.2	95.1	98.6
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
95.8	97.6	87.1	88.8	93.2	91.9	88.9	93.4	95.6	92.9	93.3	94.7	96.1	96.1	95.9
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.7	96.9	92.1	93.4	94.0	93.6	95.2	96.0	96.5	91.7	88.5	89.9	95.0	92.4	95.4	89.9

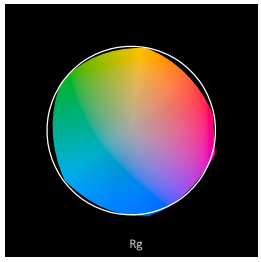
TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	-1%
2	97	-1%	1%
3	92	0%	4%
4	93	0%	3%
5	94	2%	3%
6	94	4%	0%
7	95	1%	-2%
8	96	0%	-3%
9	97	-1%	1%
10	92	-2%	5%
11	88	1%	9%
12	90	4%	4%
13	95	4%	0%
14	92	6%	-2%
15	95	1%	-2%
16	90	3%	-8%

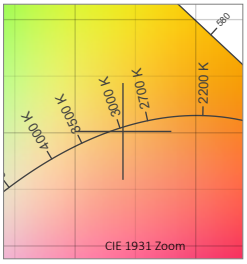
3000K-2.5HE-ENC/CL

2934 K

CRI: 96.8
CRI R9: 93.1
TM30 Rf: 93.5
TM30 Rg: 102.7
CQS: 92.8
X: 0.440
Y: 0.401
U: 0.254
V: 0.347
Δuv: -0.0015







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	97.3	93.1	96.9	97.5	95.2	97.6	97.7	93.1	91.6	95.9	80.8	98.5	95.1	98.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
96.2	97.6	87.0	88.9	93.5	92.2	89.2	93.7	95.5	93.2	93.8	95.2	96.6	96.3	96.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.7	97.1	92.6	93.4	93.9	93.8	94.8	96.3	96.5	91.3	88.1	89.7	95.1	92.2	95.4	89.3

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	-1%
2	97	-1%	1%
3	93	0%	4%
4	93	0%	2%
5	94	2%	3%
6	94	4%	0%
7	95	1%	-1%
8	96	0%	-2%
9	97	-1%	1%
10	91	-1%	5%
11	88	1%	9%
12	90	4%	5%
13	95	4%	0%
14	92	6%	-2%
15	95	1%	-2%
16	89	3%	-8%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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WURM-DW-HE Q-CAP Flexible Fixtures

4000K-1.5HE-ENC/CL

3932 K

CRI: 97.3

CRI R9: 95.5

TM30 Rf: 91.6

TM30 Rg: 98.9

CQS: 94.5

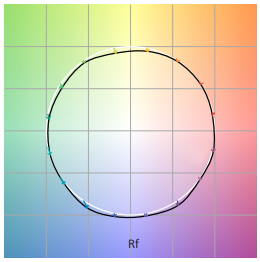
X: 0.383

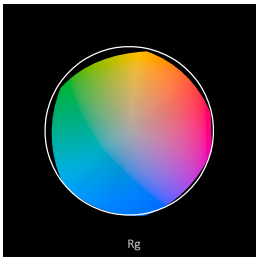
Y: 0.377

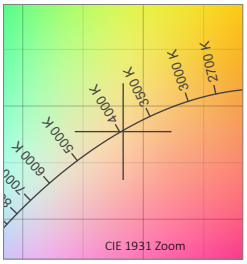
U: 0.227

V: 0.335

Δuv: -0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.5	99.7	97.0	96.9	96.5	96.0	97.0	96.6	95.5	96.9	97.7	72.9	99.5	97.6	96.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
92.0	98.2	89.9	88.1	91.4	94.2	97.5	98.0	98.3	98.1	97.8	98.9	99.4	97.9	95.9
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
93.8	96.6	96.0	92.3	90.8	95.6	92.7	91.4	87.9	86.3	86.6	92.6	93.4	94.3	90.4	89.6

TM30			
Hue Bin	R_f	Chroma	Hue
1	94	-1%	1%
2	97	0%	0%
3	96	-1%	0%
4	92	-3%	-2%
5	91	-6%	-1%
6	96	-3%	1%
7	93	-4%	3%
8	91	-2%	5%
9	88	-1%	9%
10	86	0%	9%
11	87	5%	8%
12	93	3%	1%
13	93	3%	-3%
14	94	5%	-2%
15	90	1%	-3%
16	90	1%	-5%

4000K-2.5HE-ENC/CL

3920 K

CRI: 97.5

CRI R9: 97.1

TM30 Rf: 91.9

TM30 Rg: 99.2

CQS: 94.8

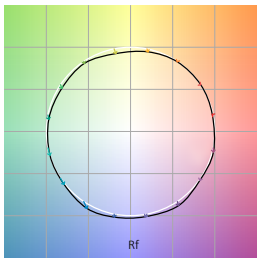
X: 0.383

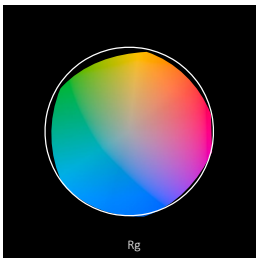
Y: 0.376

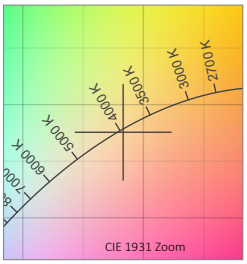
U: 0.227

V: 0.334

Δuv: -0.0014







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.3	99.4	97.5	97.5	96.9	96.1	97.0	96.9	97.1	98.5	98.4	74.6	98.9	97.9	96.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
92.4	98.2	90.4	88.8	92.1	95.0	97.7	98.2	98.4	98.3	97.9	98.8	99.2	97.8	96.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
94.1	96.6	96.2	92.6	91.1	95.8	93.1	91.7	88.3	87.1	87.1	92.6	93.4	94.5	90.6	89.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	94	-1%	1%
2	97	0%	0%
3	96	0%	0%
4	93	-3%	-2%
5	91	-6%	-1%
6	96	-2%	1%
7	93	-4%	3%
8	92	-2%	5%
9	88	-1%	9%
10	87	1%	8%
11	87	5%	8%
12	93	3%	1%
13	93	3%	-3%
14	94	5%	-2%
15	91	1%	-3%
16	90	1%	-5%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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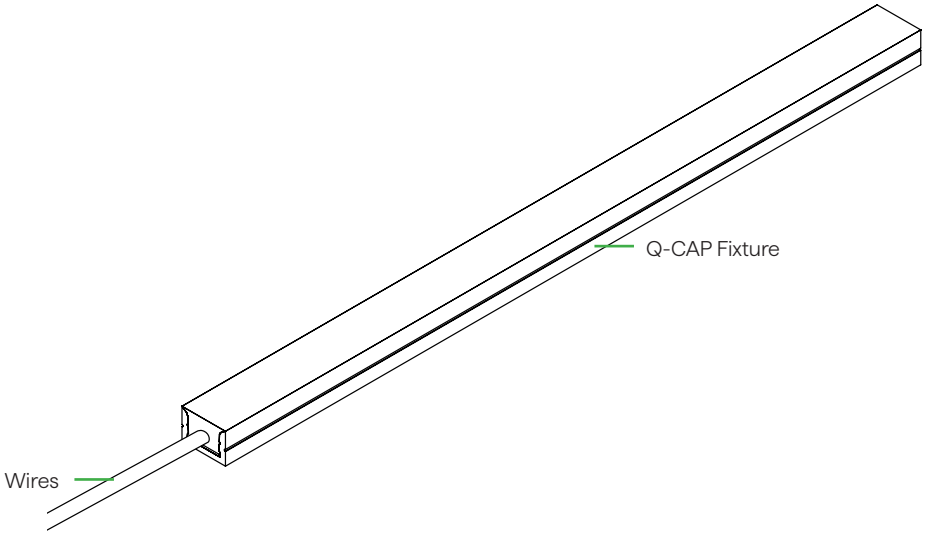
MATERIAL RECYCLING

Q-CAP FLEXIBLE FIXTURES

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.



E

Q-CAP Fixture
Wires

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