



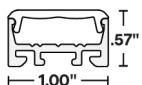
OPTI-OPTICS (02) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



5 YEAR
WARRANTY

Declare.



- Choose from 9 lens options: 40°, 60°, 70°, 90°, 110°, 155°, 180°, Asymmetric, & Forward Throw
- Delivers smooth and consistent light to highlight architectural features and surfaces
- Ideal for surface-mounted or recessed installations
- Integrated metal end caps combined with an extruded aluminum housing give this fixture a polished modern look
- When using a DW LED and DALI or DMX power supplies, LED wattage must be doubled

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 LENS	6 WIRE INPUT/ OUTPUT	7 CONNECTOR/ WIRE IN	8 CONNECTOR/ WIRE OUT	9 WIRE COLOR	10 WIRE TYPE	11 MOUNTING	12 FINISH	13 LENGTH (IN)	14 EXACT/ OPTIMAL

Sample Part Number: OP2WD-6.0-19/30-DRY-155D-P1-CON6-CON6-WH-CL2-CC-WH-48"-E

1 PRODUCT OP2WD LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies.	2 WATTS/FT 6.0 6.0W/ft	3 CCT 19/27 1900K/2700K 19/30 1900K/3000K	4 RATED DRY IP20		
OP2DW 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 following pages for compatible power supplies.	1.5HE 1.5W/ft HE 2.5HE 2.5W/ft HE 4.0HE 4.0W/ft HE	20/27 2000K/2700K 20/30 2000K/3000K 27/40 2700K/4000K 27/55 2700K/5500K	DRY IP20		
5 LENS 40D Optical 40° 60D Optical 60° 70D Optical 70° 90D Optical 90° 110D Optical 110° 155D Optical 155° 180D Optical 180°	6 WIRE INPUT/OUTPUT S1 Single 1 (Input only) - End Feed S2 Single 2 (Input only) - Bottom Feed For continuous mounting, consider bottom feed.	7 CONNECTOR/WIRE IN BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)	8 CONNECTOR/WIRE OUT CLS Closed End (No feed)		
ASYM FT Asymmetric Forward Throw For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages	6 WIRE INPUT/OUTPUT P1 Pass Through 1 (Input/output) - End Feed P2 Pass Through 2 (Input/output) - Bottom Feed For continuous mounting, consider bottom feed.	7 CONNECTOR/WIRE IN BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)	8 CONNECTOR/WIRE OUT BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" Connector/Wire Out not needed to specify product. Typical selection is CLS or BW. BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)		
	6 WIRE INPUT/OUTPUT S1A Single 1 (Input only) - End Feed S1B Single 1 (Input only) - End Feed S2A Single 2 (Input only) - Bottom Feed S2B Single 2 (Input only) - Bottom Feed For continuous mounting, consider bottom feed.	7 CONNECTOR/WIRE IN BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)	8 CONNECTOR/WIRE OUT CLS Closed End (No feed)		
	6 WIRE INPUT/OUTPUT P1A Pass Through 1 (Input/output) - End Feed P1B Pass Through 1 (Input/output) - End Feed P2A Pass Through 2 (Input/output) - Bottom Feed P2B Pass Through 2 (Input/output) - Bottom Feed For continuous mounting, consider bottom feed.	7 CONNECTOR/WIRE IN BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)	8 CONNECTOR/WIRE OUT BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24" Connector/Wire Out not needed to specify product. Typical selection is CLS or BW. BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)		
9 WIRE COLOR WH White BK Black	10 WIRE TYPE CL2 Class 2 CL2P Plenum Rated CL2P only available with bare wire leads (BW)	11 MOUNTING CC Concealed Clip MG Magnet	12 FINISH ST Satin BK Black WH White CU Custom	13 LENGTH (IN) Fixture length min 12", max 98.43" not including end caps. Tolerance +0 - 1/8". Consult factory for lengths under 12".	14 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.

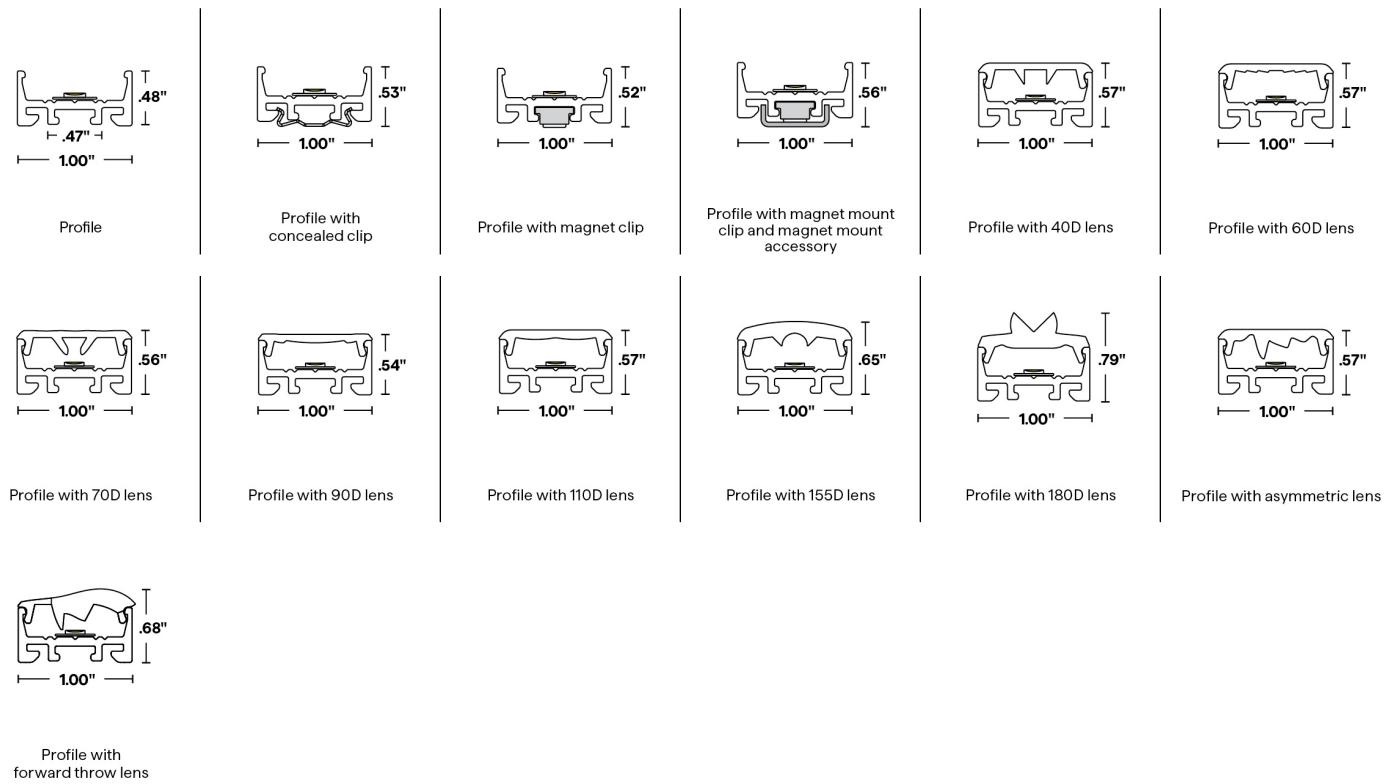
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



OPTI-OPTICS (02) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS



2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with OP2WD-6.0-30-DRY-**

[Calculated L70 = 70000 hrs]
Tested with OP2DW-2.5HE-30-DRY-**

	3000K	
	LM/FT	CRI
40D	469	97
60D	415	97
70D	427	97
90D	425	97
110D	433	97
155D	437	97
180D	434	97
ASYM	432	97
FT	359	97

	3000K	
	LM/FT	CRI
40D	262	98
60D	246	98
70D	251	98
90D	249	98
110D	240	98
155D	243	98
180D	245	98
ASYM	245	98
FT	213	98



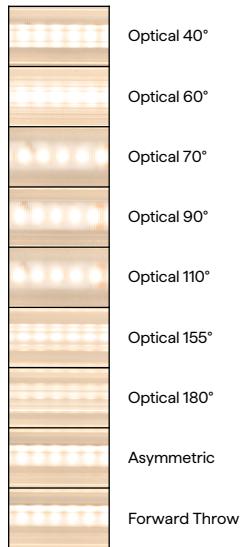
OPTI-OPTICS (02) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

TEMPERATURE RATINGS

		DW 1.5 HE W/FT				DW 2.5 HE W/FT				DW 4.0 HE W/FT					
WD 6.0 W/FT		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply			
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		
DRY	Ambient Operating Temp - Surface	-4°F	120°F	-4°F	145°F	-4°F	135°F	-4°F	140°F	-4°F	125°F	-4°F	130°F	-4°F	115°F

5 DIODE VISIBILITY





OPTI-OPTICS (02) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

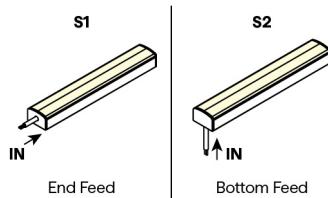
PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

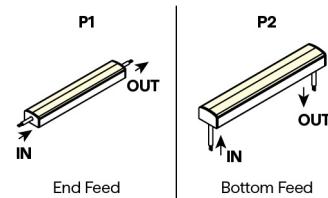


6 WIRE INPUT/OUTPUT

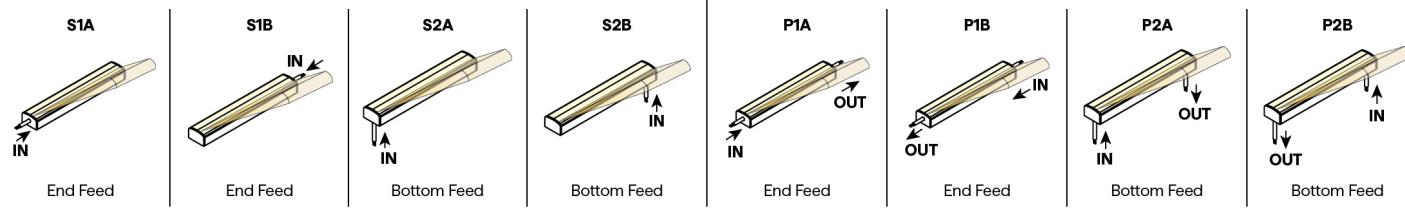
SINGLE (Input only)



PASS THROUGH (Input/Output)



ASYMMETRIC ONLY SINGLE (Input only)

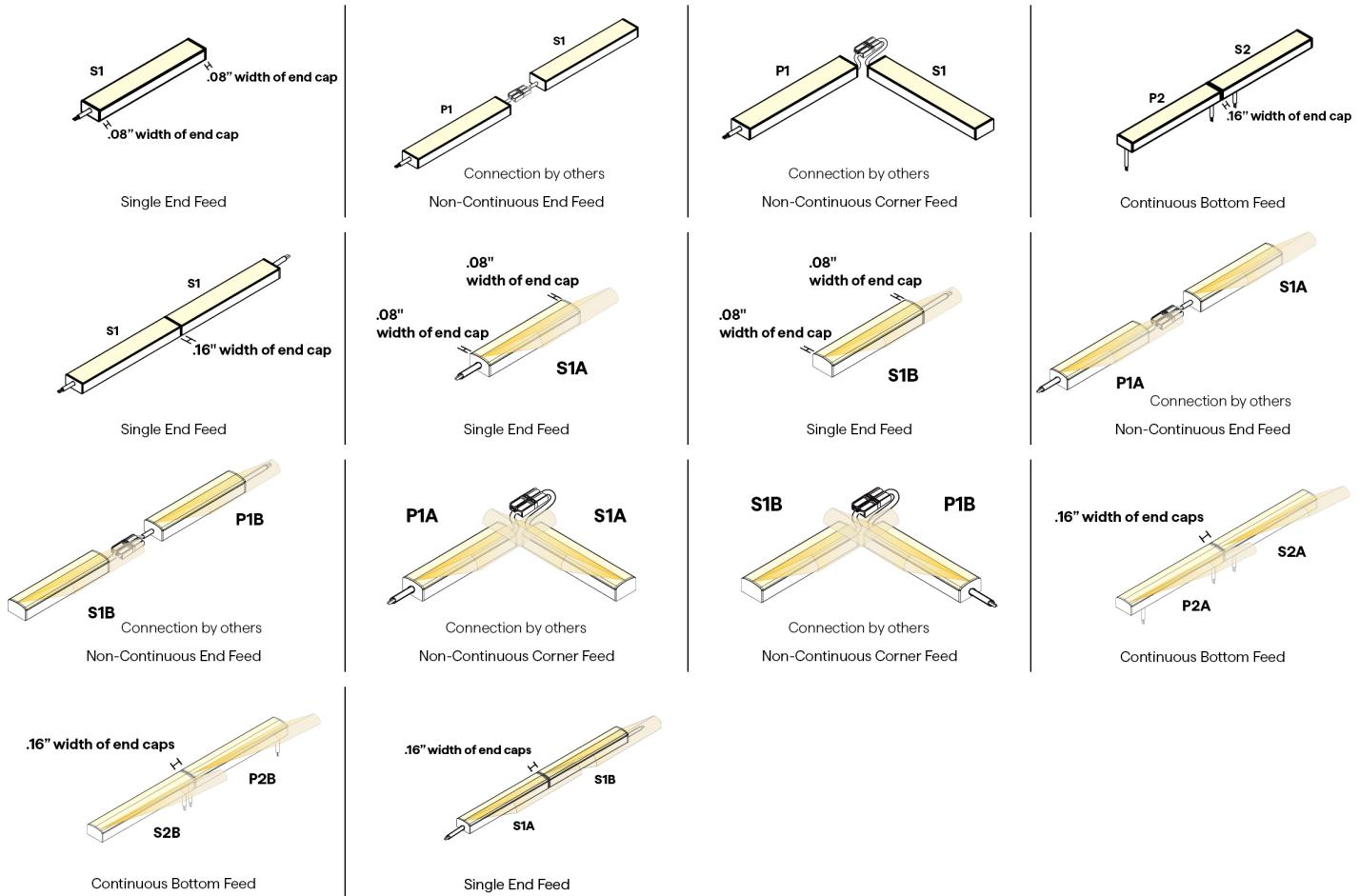




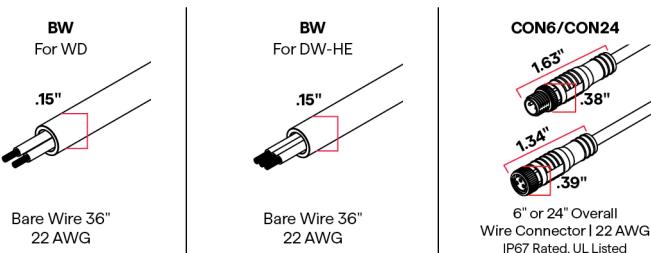
OPTI-OPTICS (02) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

CONFIGURATION OPTIONS



7 / 8 CONNECTOR/WIRE – IN/OUT



9 WIRE COLOR

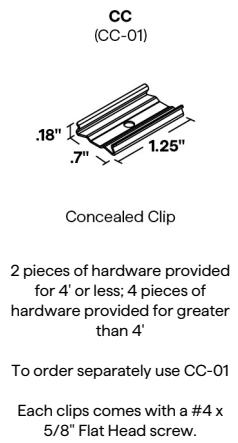




OPTI-OPTICS (02) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

11 MOUNTING

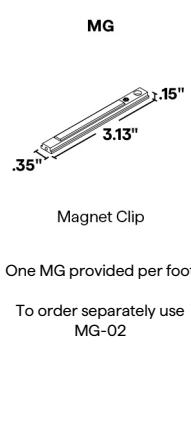


Concealed Clip

2 pieces of hardware provided for 4' or less; 4 pieces of hardware provided for greater than 4'

To order separately use CC-01

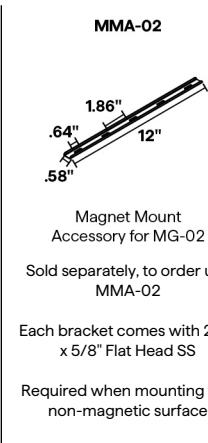
Each clip comes with a #4 x 5/8" Flat Head screw.



Magnet Clip

One MG provided per foot

To order separately use MG-02



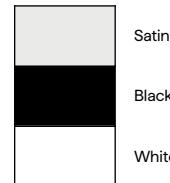
Magnet Mount Accessory for MG-02

Sold separately, to order use MMA-02

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

12 FINISH



Satin

Black

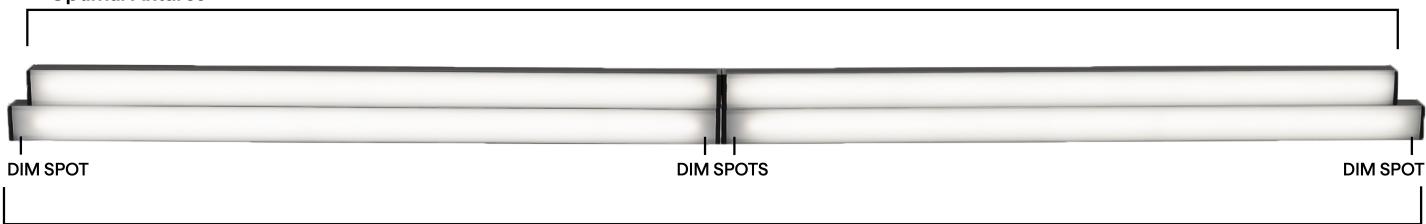
White

Custom color available

14 EXACT/OPTIMAL FIXTURE LENGTH

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

Optimal Fixtures



Exact Fixtures



OPTI-OPTICS (O2) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

WD, DW-HE DRY LENGTHS BY INCH

Available in any length in between 12" and 98.43" not including end caps, 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"	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: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S1A/B & S2 & S2A/B		P1 & P1A/B & P2 & P2A/B	
	S1 End Feed	S2 Bottom Feed	P1 End Feed	P2 Bottom Feed
12"	10.5"		10.75"	
13"	12.5"		12.75"	
14"	12.5"		12.75"	
15"	14.5"		14.75"	
16"	14.5"		14.75"	
17"	16.5"		16.75"	
18"	16.5"		16.75"	
19"	18.5"		18.75"	
20"	18.5"		18.75"	
21"	20.5"		20.75"	
22"	20.5"		20.75"	
23"	22.5"		22.75"	
24"	22.5"		22.75"	
36"	34.5"		34.75"	
48"	46.5"		46.75"	
60"	58.5"		58.75"	
72"	70.5"		70.75"	
84"	82.5"		82.75"	
96"	94.5"		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	
	DW-HE Warm Dim Applications	WD
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	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+0-10V QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZ-LP
1%	QZ-DALI-DT8	QTM-eLED(E) QZ-DALI-DT6
10%	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle



OPTI-OPTICS (O2) FOR WARM DIM APPLICATIONS

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DIMMING PROTOCOL	INDOOR	
	DW-HE Warm Dim Applications	WD
Phase	QZ-DW	QT-CAB-QZ-PH/0-10V QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN
ECO System		QTM-eLED(E)
DMX If using DW LED, wattage must be doubled		QZ-DMX
DALI-2: DT6 If using DW LED, wattage must be doubled except for AWN	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
DALI-2: DT8 If using DW LED, wattage must be doubled 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	
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle

COMPATIBLE MOUNTING ACCESSORIES

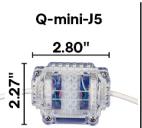
 HINGE - HMB-M	 HINGE - HMB-L	 HINGE - HMB-XL	 Q-PIVOT	 Q-ANGLE	 QUOVA-STANDARD	 NJ-LARGE	 NU-LARGE	 SD-J-LARGE	 BL-LARGE
 Adjustable mounting bracket - Medium	 Adjustable mounting bracket - Large	 Adjustable mounting bracket - XLarge	 Small mounting accessory	 Adjustable mounting accessory	 QUOVA Knife Edge	 J Mounting Bracket	 U Mounting Bracket	 J Mounting Bracket	 Backwards L Mounting Bracket
 NL-LARGE	 SD-L-LARGE								
 L Mounting Bracket									



OPTI-OPTICS (02) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE WIRING ACCESSORIES



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



10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP



Read and write DMX addresses and adjust voltage