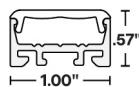
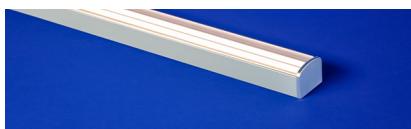




OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



- 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 DALI and DMX power supplies, LED wattage must be doubled

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

ADDITIONAL INFORMATION REQUIRED TO ORDER

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 LENS
	DRY			

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: OP2DW-2.5HE-20/30-DRY-155D-P1-CON6-CON6-WH-CL2-CC-WH-48"-E

1 PRODUCT OP2DW OP2DW-USA Select USA option for 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 following pages for compatible power supplies.	2 WATTS/FT 1.5HE 2.5HE 4.0HE 1.5W/ft HE 2.5W/ft HE 4.0W/ft HE	3 CCT 20/27 20/30 27/40 27/55 2000K/2700K 2000K/3000K 2700K/4000K 2700K/5500K	4 RATED DRY IP20		
5 LENS 40D 60D 70D 90D 110D 155D 180D Optical 40° Optical 60° Optical 70° Optical 90° Optical 110° Optical 155° Optical 180°	6 WIRE INPUT/OUTPUT SINGLE (Input only) S1 End Feed S2 Bottom Feed	7 CONNECTOR/WIRE IN BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24"	8 CONNECTOR/WIRE OUT CLS Closed End (No feed)		
ASYM FT Asymmetric Forward Throw 40D, 60D, 70D, 90D, 110D, 155D, 180D, and ASYM are offered in 44.9" lengths. For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages.	PASS THROUGH (Input/Output) P1 End Feed P2 Bottom Feed SINGLE (Input only) S1A End Feed S1B End Feed S2A Bottom Feed S2B Bottom Feed	BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24"	BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24"		
	PASS THROUGH (Input/Output) P1A End Feed P1B End Feed P2A Bottom Feed P2B Bottom Feed	BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24"	CLS Closed End (No feed)		
		BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24"	BW Bare Wire (Standard 36") CON6 Connector 6" CON24 Connector 24"		
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 Custom finishes have longer lead times. Non-RAL 9003 whites custom.	13 LENGTH (IN) Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".	14 EXACT/OPTIMAL O Optimal Illumination E Exact Specified Length Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end.

For continuous mounting, consider bottom feed.

BW: Standard length is 36". Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

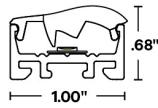
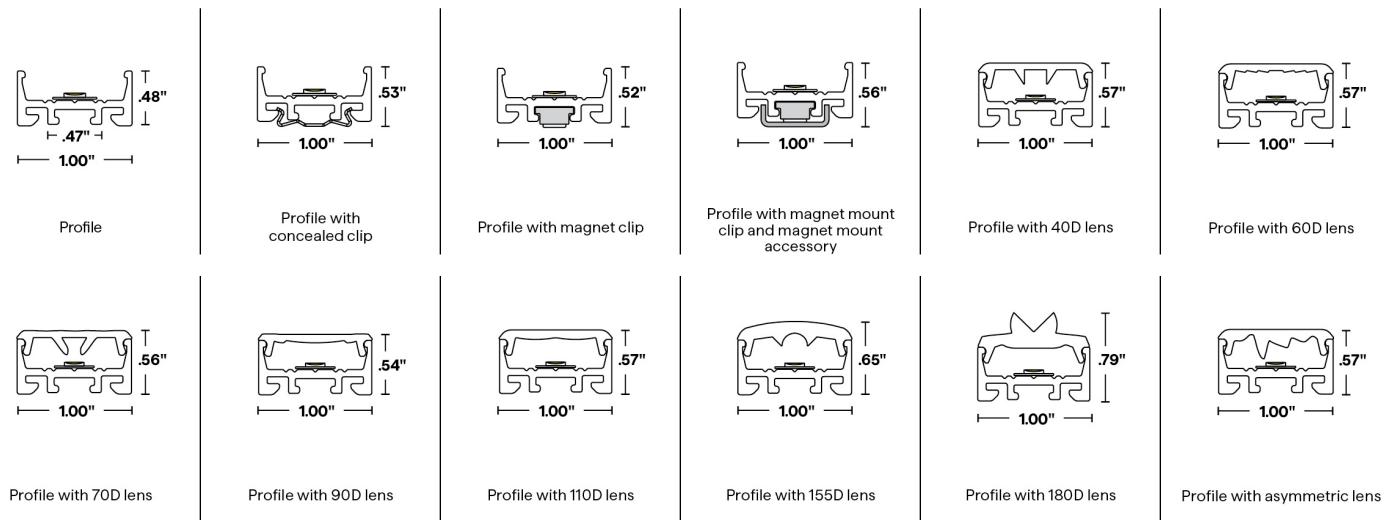
BW: Standard length is 36", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)



OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS



Profile with forward throw lens

2 DELIVERED LUMENS

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

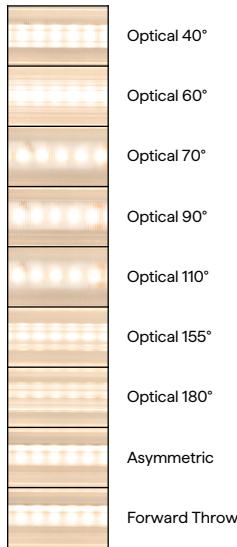
	3000K	
	LM/FT	CRI
40D	262	98
60D	246	98
70D	251	98
90D	249	98
110D	240	98
155D	243	98
180D	245	98
ASYM	245	98
FT	213	98



OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

5 DIODE VISIBILITY

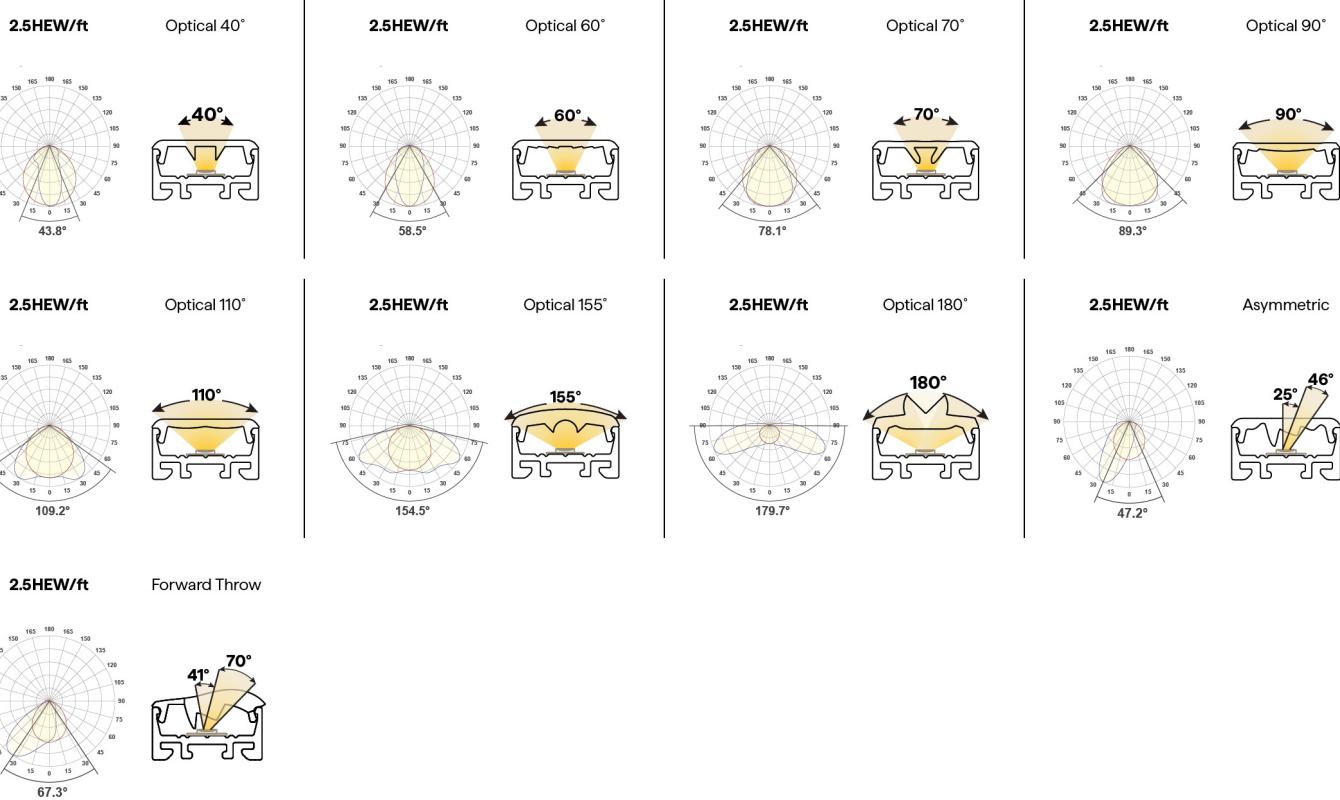


TEMPERATURE RATINGS

	DW 1.5 HE W/FT		DW 3.0 HE W/FT		DW 2.5 HE W/FT		DW 5.0 HE W/FT		DW 4.0 HE W/FT		DW 8.0 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		QTL power supply other than DALI DMX		DALI DMX, or non-QTL power supply	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	145°F	-4°F	135°F	-4°F	140°F	-4°F	125°F	-4°F	130°F	-4°F
												115°F

PHOTOMETRIC PERFORMANCE

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



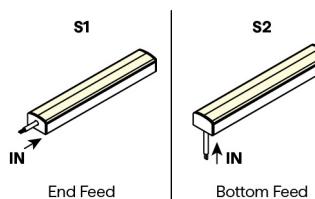


OPTI-OPTICS (O2) FOR TUNABLE APPLICATIONS

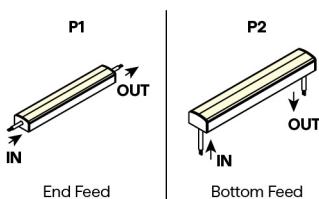
24VDC Linear Fixtures - Surface & Recessed

6 WIRE INPUT/OUTPUT

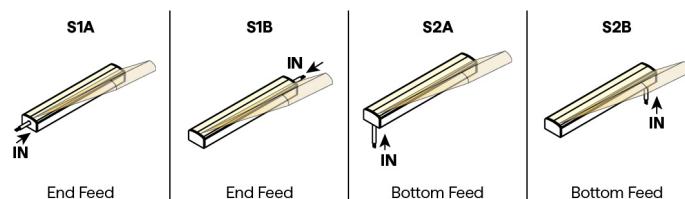
SINGLE (Input only)



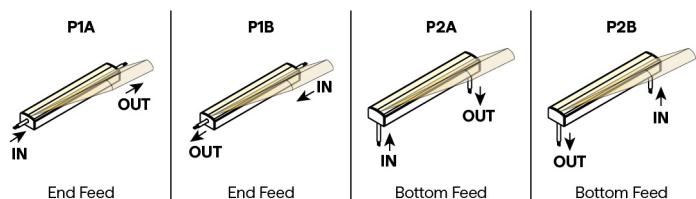
PASS THROUGH (Input/Output)



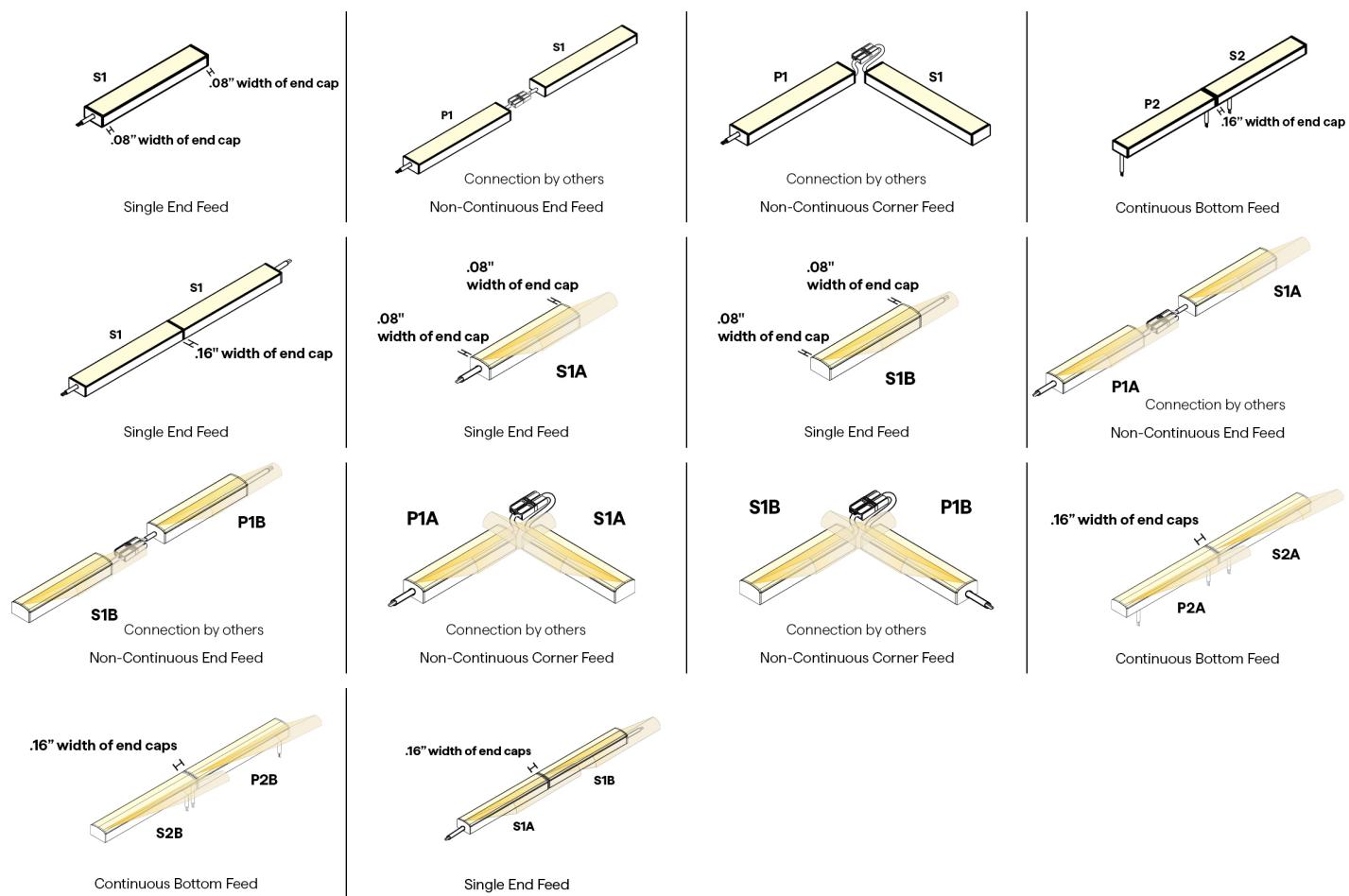
ASYMMETRIC ONLY SINGLE (Input only)



ASYMMETRIC ONLY PASS THROUGH (Input/Output)



CONFIGURATION OPTIONS

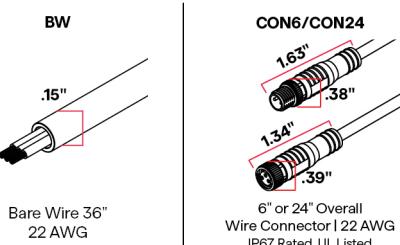




OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

7 / 8 CONNECTOR/WIRE – IN/OUT



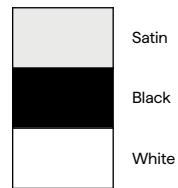
9 WIRE COLOR



11 MOUNTING

CC (CC-01)	MG	MMA-02
.18" x .7" x 1.25"	.35" x .15" x 3.13"	.64" x .58" x 1.86" x 12"
Concealed Clip	Magnet Clip	Magnet Mount Accessory for MG-02
2 pieces of hardware provided for 4' or less; 4 pieces of hardware provided for greater than 4'	One MG provided per foot	Sold separately, to order use MMA-02
To order separately use CC-01 (sold in pairs)	To order separately use MG-02	Each bracket comes with 2 #6 x 5/8" Flat Head SS
Each clip comes with a #4 x 5/8" Flat Head screw.		Required when mounting to a non-magnetic surface

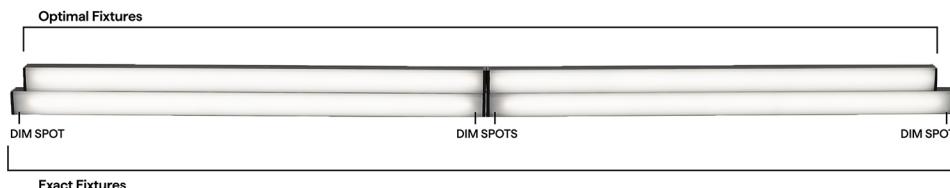
12 FINISH



Custom finishes require a longer lead time, consult factory

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.





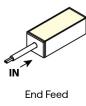
OPTI-OPTICS (O2) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

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' 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 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 & S1A/B & S2 & S2A/B		P1 & P1A/B & P2 & P2A/B	
	S1 End Feed	S2 Bottom Feed	P1 End Feed	P2 Bottom Feed
12"	10.51"		10.86"	
13"	12.51"		12.86"	
14"	12.51"		12.86"	
15"	14.51"		14.86"	
16"	14.51"		14.86"	
17"	16.51"		16.86"	
18"	16.51"		16.86"	
19"	18.51"		18.86"	
20"	18.51"		18.86"	
21"	20.51"		20.86"	
22"	20.51"		20.86"	
23"	22.51"		22.86"	
24"	22.51"		22.86"	
36"	34.51"		34.86"	
48"	46.51"		46.86"	
60"	58.51"		58.86"	
72"	70.51"		70.86"	
84"	82.51"		82.86"	
96"	94.51"		94.86"	

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 Tunable Applications	
0.1%		QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QTM-eLED+TW QTM-eLED+TW-AWN QZ-DMX
1%		QZ-DALI-DT8
10%		Non-Dim Power Supply with TW App Dongle

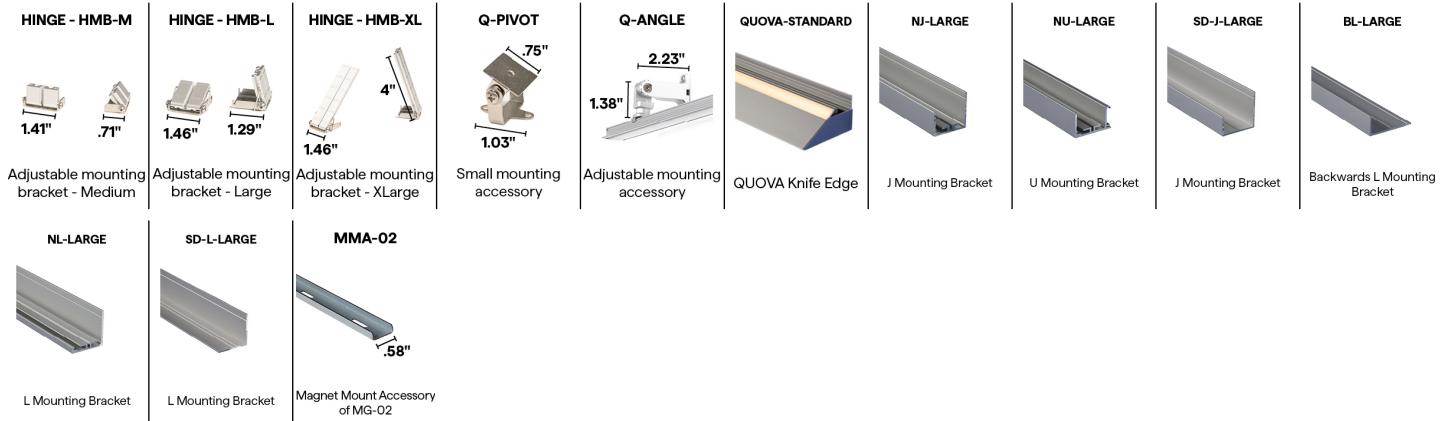


OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR
	DW-HE Tunable Applications
0-10V	QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+TW QTM-eLED+TW-AWN
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+TW-AWN
DMX LED wattage must be doubled for DW-HE products	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
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
SCENE App Dimmed	Non-Dim Power Supply with TW App Dongle

COMPATIBLE MOUNTING ACCESSORIES



COMPATIBLE WIRING ACCESSORIES



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



OPTI-OPTICS (02) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



1.36"

2.58"

Wi-Fi or Bluetooth
Connectivity

COMPATIBLE APPS

NFC APP



Read and write
DMX addresses and
adjust voltage