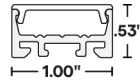
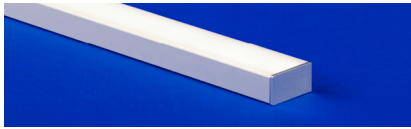




OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed



- Choose from diffused, polar or frosted lens options for varying diode visibility and beam cutoff
- Delivers smooth and consistent light to highlight architectural features and surfaces
- Ideal for surface-mounted 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

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

ADDITIONAL INFORMATION REQUIRED TO ORDER

6	7	8	9	10	11	12	13	14
WIRE INPUT/ OUTPUT	CONNECTOR/ WIRE IN	CONNECTOR/ WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL

Sample Part Number: **OP1DW-2.5HE-20/30-DRY-DF-P1-CON6-CON6-WH-CL2-CC-WH-48"-E**

1 PRODUCT OP1DW OP1DW-USA Select USA option for BAA and BABA projects. Only DRY or WET ratings apply. 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 <table><tr><td>1.5HE</td><td>1.5W/ft HE</td></tr><tr><td>2.5HE</td><td>2.5W/ft HE</td></tr><tr><td>4.0HE</td><td>4.0W/ft HE</td></tr></table> <table><tr><td>1.5HE</td><td>1.5W/ft HE</td></tr><tr><td>2.5HE</td><td>2.5W/ft HE</td></tr></table>	1.5HE	1.5W/ft HE	2.5HE	2.5W/ft HE	4.0HE	4.0W/ft HE	1.5HE	1.5W/ft HE	2.5HE	2.5W/ft HE	3 CCT <table><tr><td>20/27</td><td>2000K/2700K</td></tr><tr><td>20/30</td><td>2000K/3000K</td></tr><tr><td>27/40</td><td>2700K/4000K</td></tr><tr><td>27/55</td><td>2700K/5500K</td></tr></table> <table><tr><td>18/30</td><td>1800K/3000K</td></tr><tr><td>18/35</td><td>1800K/3500K</td></tr><tr><td>20/27</td><td>2000K/2700K</td></tr><tr><td>20/30</td><td>2000K/3000K</td></tr><tr><td>24/40</td><td>2400K/4000K</td></tr><tr><td>27/40</td><td>2700K/4000K</td></tr><tr><td>27/55</td><td>2700K/5500K</td></tr></table>	20/27	2000K/2700K	20/30	2000K/3000K	27/40	2700K/4000K	27/55	2700K/5500K	18/30	1800K/3000K	18/35	1800K/3500K	20/27	2000K/2700K	20/30	2000K/3000K	24/40	2400K/4000K	27/40	2700K/4000K	27/55	2700K/5500K	4 RATED <table><tr><td>DRY</td><td>IP20</td></tr></table> <table><tr><td>DMP</td><td>IP54</td></tr><tr><td>WET</td><td>IP67</td></tr></table>	DRY	IP20	DMP	IP54	WET	IP67
1.5HE	1.5W/ft HE																																								
2.5HE	2.5W/ft HE																																								
4.0HE	4.0W/ft HE																																								
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27/40	2700K/4000K																																								
27/55	2700K/5500K																																								
18/30	1800K/3000K																																								
18/35	1800K/3500K																																								
20/27	2000K/2700K																																								
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5 LENS <table><tr><td>DF</td><td>Diffused</td></tr><tr><td>PR</td><td>Polar</td></tr><tr><td>FR</td><td>Frosted</td></tr></table>	DF	Diffused	PR	Polar	FR	Frosted	6 WIRE INPUT/OUTPUT <table><tr><td colspan="2">SINGLE (Input only)</td></tr><tr><td>S1</td><td>End Feed</td></tr><tr><td>S2</td><td>Bottom Feed</td></tr></table> <table><tr><td colspan="2">PASS THROUGH (Input/Output)</td></tr><tr><td>P1</td><td>End Feed</td></tr><tr><td>P2</td><td>Bottom Feed</td></tr></table>	SINGLE (Input only)		S1	End Feed	S2	Bottom Feed	PASS THROUGH (Input/Output)		P1	End Feed	P2	Bottom Feed	7 CONNECTOR/WIRE IN <table><tr><td>BW</td><td>Bare Wire (Standard 36")</td></tr><tr><td>CON6</td><td>Connector 6"</td></tr><tr><td>CON24</td><td>Connector 24"</td></tr></table> <table><tr><td>BW</td><td>Bare Wire (Standard 36")</td></tr><tr><td>CON6</td><td>Connector 6"</td></tr><tr><td>CON24</td><td>Connector 24"</td></tr></table>	BW	Bare Wire (Standard 36")	CON6	Connector 6"	CON24	Connector 24"	BW	Bare Wire (Standard 36")	CON6	Connector 6"	CON24	Connector 24"	8 CONNECTOR/WIRE OUT <table><tr><td>CLS</td><td>Closed End (No feed)</td></tr></table> <table><tr><td>BW</td><td>Bare Wire (Standard 36")</td></tr><tr><td>CON6</td><td>Connector 6"</td></tr><tr><td>CON24</td><td>Connector 24"</td></tr></table>	CLS	Closed End (No feed)	BW	Bare Wire (Standard 36")	CON6	Connector 6"	CON24	Connector 24"
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9 WIRE COLOR <table><tr><td>WH</td><td>White</td></tr><tr><td>BK</td><td>Black</td></tr></table>	WH	White	BK	Black	10 WIRE TYPE <table><tr><td>CL2</td><td>Class 2</td></tr><tr><td>CL2P</td><td>Plenum Rated</td></tr></table> <small>CL2P only available with bare wire leads (BW)</small>	CL2	Class 2	CL2P	Plenum Rated	11 MOUNTING <table><tr><td>CC</td><td>Concealed Clip</td></tr><tr><td>MG</td><td>Magnet</td></tr></table>	CC	Concealed Clip	MG	Magnet	12 FINISH <table><tr><td>ST</td><td>Satin</td></tr><tr><td>BK</td><td>Black</td></tr><tr><td>WH</td><td>White</td></tr><tr><td>CU</td><td>Custom</td></tr></table> <small>Custom finishes have longer lead times. Non-RAL 9003 whites custom.</small>	ST	Satin	BK	Black	WH	White	CU	Custom	13 LENGTH (IN) <table><tr><td>Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".</td></tr></table>	Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".	14 EXACT/OPTIMAL <table><tr><td>O</td><td>Optimal Illumination</td></tr><tr><td>E</td><td>Exact Specified Length</td></tr></table> <small>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.</small>	O	Optimal Illumination	E	Exact Specified Length											
WH	White																																								
BK	Black																																								
CL2	Class 2																																								
CL2P	Plenum Rated																																								
CC	Concealed Clip																																								
MG	Magnet																																								
ST	Satin																																								
BK	Black																																								
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Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".																																									
O	Optimal Illumination																																								
E	Exact Specified Length																																								

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)



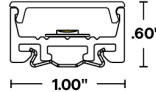
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

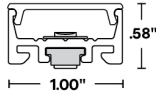
1 PRODUCT - DIMENSIONS



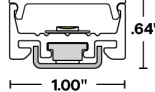
Profile



Profile with
concealed clip



Profile with magnet clip



Profile with magnet mount
clip and magnet mount
accessory

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with OP1DW-2.5HE-**-DRY-STD

	3000K	
	LM/FT	CRI
FR	219	98
PR	206	98
DF	182	98

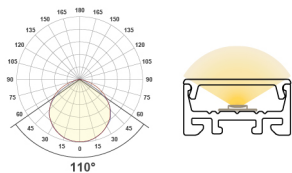
TEMPERATURE RATINGS

DRY	Ambient Operating Temp - Surface	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
		-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.

2.5HEW/ft Frosted Lens



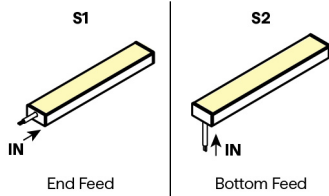


OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

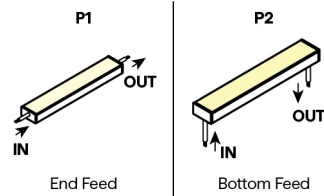
24VDC Linear Fixtures - Surface & Recessed

6 WIRE INPUT/OUTPUT

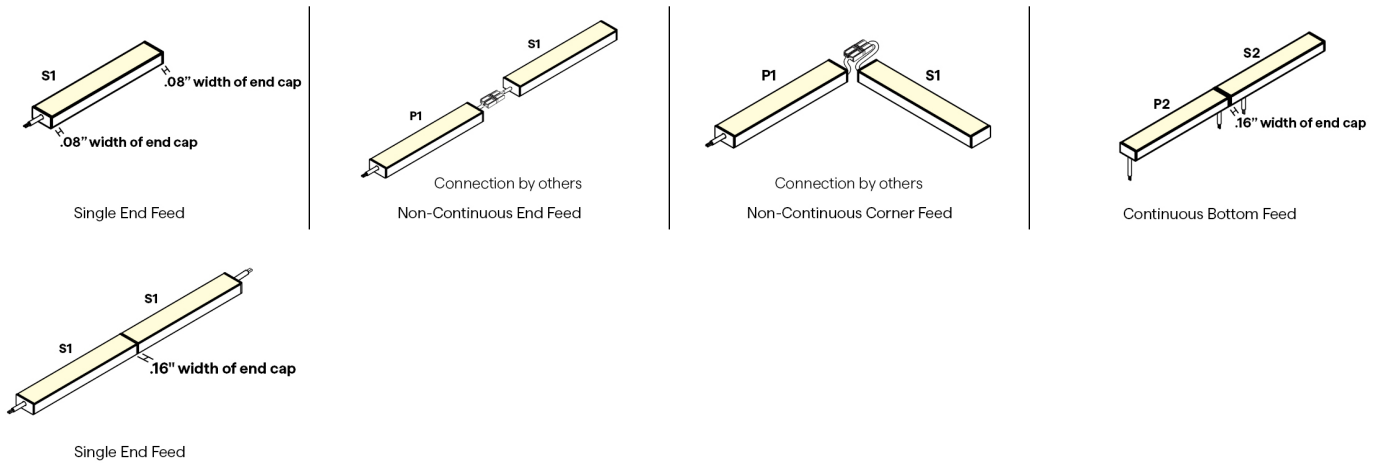
SINGLE (Input only)



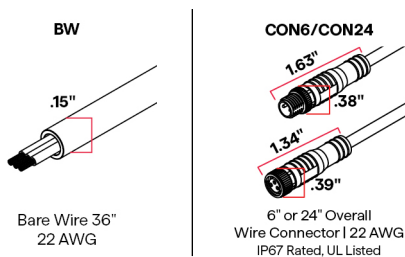
PASS THROUGH (Input/Output)



CONFIGURATION OPTIONS



7 / 8 CONNECTOR/WIRE - IN/OUT



9 WIRE COLOR



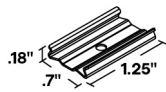


OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

11 MOUNTING

CC
(CC-01)



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 (sold in pairs)

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

MG

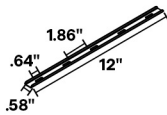


Magnet Clip

One MG provided per foot

To order separately use MG-02

MMA-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

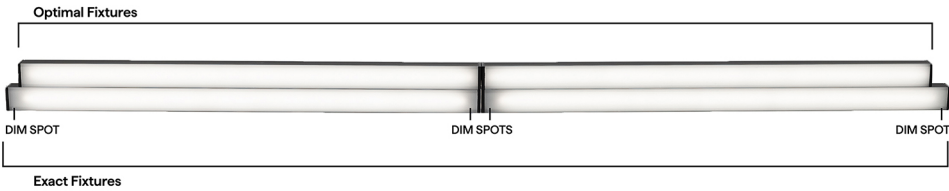
12 FINISH



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.





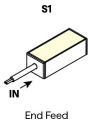
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

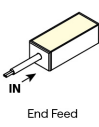
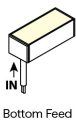
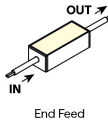
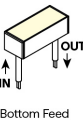
DW-HE DRY DMP LENGTHS BY INCH

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 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"

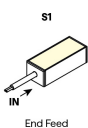
OPTIMAL LENGTH

Requested Nominal Length	S1 & S2		P1 & P2	
				
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"	

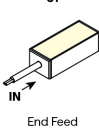
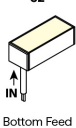
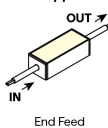
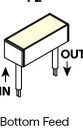
DW-HE WET LENGTHS BY INCH

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 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 & S2		P1 & P2	
				
12"	10.66"		11.06"	
13"	12.66"		11.06"	
14"	12.66"		13.06"	
15"	14.66"		13.06"	
16"	14.66"		15.06"	
17"	16.66"		15.06"	
18"	16.66"		17.06"	
19"	18.66"		17.06"	
20"	18.66"		19.06"	
21"	20.66"		19.06"	
22"	20.66"		21.06"	
23"	22.66"		21.06"	
24"	22.66"		23.06"	
36"	34.66"		35.06"	
48"	46.66"		47.06"	
60"	58.66"		59.06"	
72"	70.66"		71.06"	
84"	82.66"		83.06"	
96"	94.66"		95.06"	



OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

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 Tunable Applications	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	Q-SET-QZ-DMX QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+TW QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with TW App Dongle	


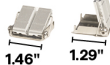



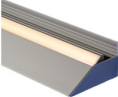



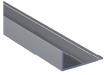


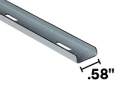
DIMMING PROTOCOL	INDOOR	OUTDOOR
	DW-HE Tunable Applications	DW-HE Tunable Applications
0-10V	QT-CAB-eLED+TW QT-CAB-eLED+TW-AWN QTM-eLED+TW QTM-eLED+TW-AWN	QOM-eLED+TW
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+TW-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+TW-AWN	
DMX LED wattage must be doubled for DW-HE products	QZ-DMX	Q-SET-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 TW App Dongle	



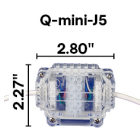
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M  1.41" .71" Adjustable mounting bracket - Medium	HINGE - HMB-L  1.46" 1.29" Adjustable mounting bracket - Large	HINGE - HMB-XL  4" 1.46" Adjustable mounting bracket - XLarge	Q-PIVOT  .75" 1.03" Small mounting accessory	Q-ANGLE  2.23" 1.38" Adjustable mounting accessory	QUOVA-STANDARD  QUOVA Knife Edge	NJ-LARGE  J Mounting Bracket	NU-LARGE  U Mounting Bracket	SD-J-LARGE  J Mounting Bracket	BL-LARGE  Backwards L Mounting Bracket
NL-LARGE  L Mounting Bracket	SD-L-LARGE  L Mounting Bracket	MMA-02  .58" Magnet Mount Accessory of MG-02							

COMPATIBLE WIRING ACCESSORIES



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

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS



Read and write DMX addresses and adjust voltage