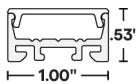




OPTI-FLAT (01) FOR WARM DIM APPLICATIONS

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 a DW LED and DALI or DMX power supplies, LED wattage must be doubled

Sample Part Number: **OP1WD-6.0-19/30-DRY-DF-P1-CON6-CON6-WH-CL2-CC-WH-48"-E**

1 PRODUCT	2 WATTS/FT	3 CCT	4 RATED
OP1WD LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies.	6.0 6.0W/ft	19/27 19/30 1900K/2700K 1900K/3000K	DRY DMP WET IP20 IP54 IP67
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 s	1.5HE 2.5HE 4.0HE 1.5W/ft HE 2.5W/ft HE 4.0W/ft HE	20/27 20/30 27/40 27/55 2000K/2700K 2000K/3000K 2700K/4000K 2700K/5500K	DRY IP20
	1.5HE 2.5HE 4.0HE 1.5W/ft HE 2.5W/ft HE 4.0W/ft HE	18/30 18/35 20/27 20/30 24/40 27/40 27/55 1800K/3000K 1800K/3500K 2000K/2700K 2000K/3000K 2400K/4000K 2700K/4000K 2700K/5500K	DMP IP54
	1.5HE 2.5HE 1.5W/ft HE 2.5W/ft HE	20/27 20/30 27/40 27/55 2000K/2700K 2000K/3000K 2700K/4000K 2700K/5500K	WET IP67

5	LENS	6	WIRE INPUT/OUTPUT	7	CONNECTOR/WIRE IN	8	CONNECTOR/WIRE OUT
DF	Diffused	S1	Single 1 (Input only) - End Feed	BW	Bare Wire (Standard 36")	CLS	Closed End (No feed)
PR	Polar	S2	Single 2 (Input only) - Bottom Feed	CON6	Connector 6"		
FR	Frosted			CON24	Connector 24"		
		P1	Pass Through 1 (Input/output) - End Feed	BW	Bare Wire (Standard 36")	BW	Bare Wire (Standard 36")
		P2	Pass Through 2 (Input/output) - Bottom Feed	CON6	Connector 6"	CON6	Connector 6"
				CON24	Connector 24"	CON24	Connector 24"

For continuous mounting, consider bottom feed.

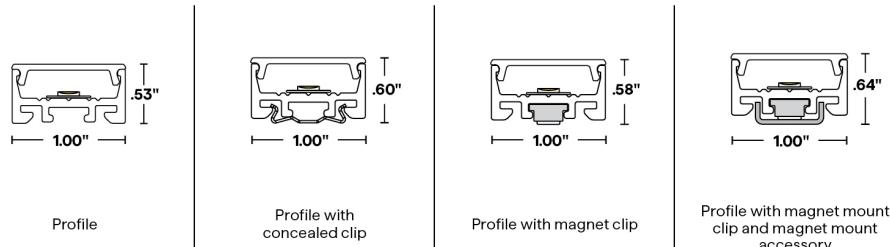
9	WIRE COLOR	10	WIRE TYPE	11	MOUNTING	12	FINISH	13	LENGTH (IN)	14	EXACT/OPTIMAL
WH BK	White Black	CL2 CL2P	Class 2 Plenum Rated	CC MG	Concealed Clip Magnet	ST BK WH CU	Satin Black White Custom		Minimum length is 12", maximum length is 98.43" not including end caps. Contact us for lengths under 12".		Optimal Illumination Exact Specified Length



OPTI-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS



2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with OP1WD-6.0-30-DRY--**

[Calculated L70 = 70000 hrs]
Tested with OP1DW-2.5HE-30-DRY--**

	3000K	
	LM/FT	CRI
FR	386	97
PR	364	97
DF	320	97

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

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			
WD 6.0 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	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



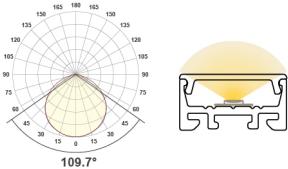
OPTI-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

PHOTOMETRIC PERFORMANCE

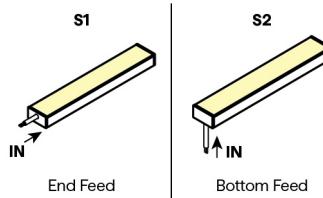
Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

6W/ft Frosted Lens

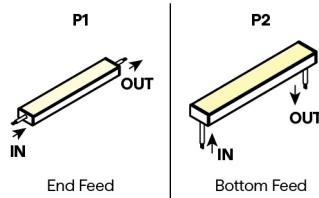


6 WIRE INPUT/OUTPUT

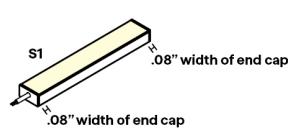
SINGLE (Input only)



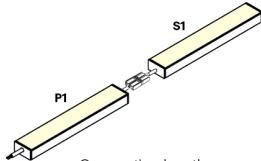
PASS THROUGH (Input/Output)



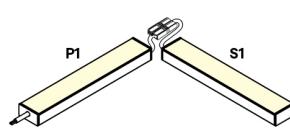
CONFIGURATION OPTIONS



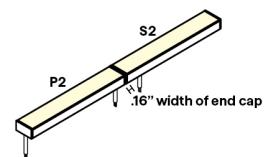
Single End Feed



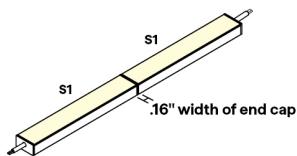
Connection by others
Non-Continuous End Feed



Connection by others
Non-Continuous Corner Feed



Continuous Bottom Feed



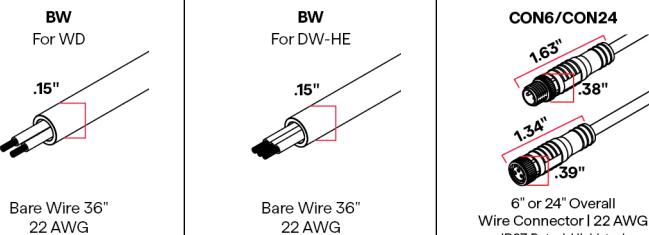
Single End Feed



OPTI-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

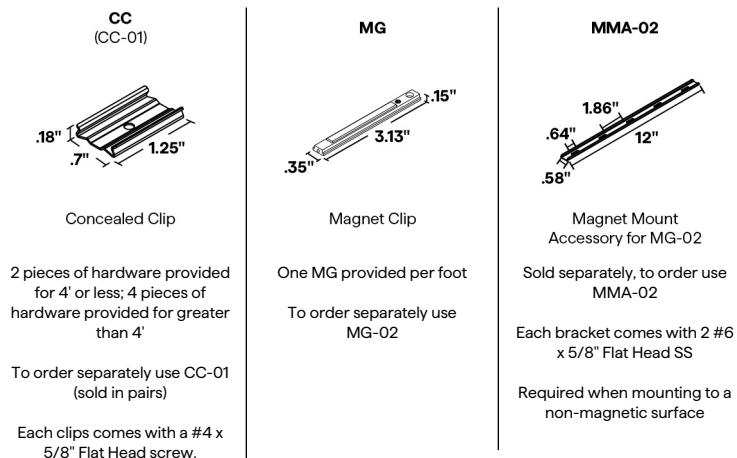
7 / 8 CONNECTOR/WIRE – IN/OUT



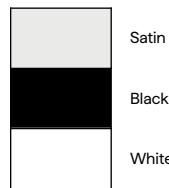
9 WIRE COLOR



11 MOUNTING



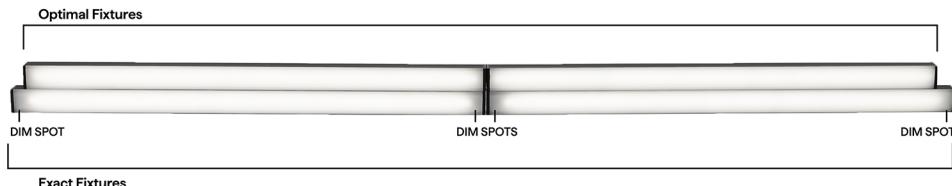
12 FINISH



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 WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

WD 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	
	S1	S2	P1	P2
12"	10.41"	10.66"		
13"	12.41"	12.66"		
14"	12.41"	12.66"		
15"	14.41"	14.66"		
16"	14.41"	14.66"		
17"	16.41"	16.66"		
18"	16.41"	16.66"		
19"	18.41"	18.66"		
20"	18.41"	18.66"		
21"	20.41"	20.66"		
22"	20.41"	20.66"		
23"	22.41"	22.66"		
24"	22.41"	22.66"		
36"	34.41"	34.66"		
48"	46.41"	46.66"		
60"	58.41"	58.66"		
72"	70.41"	70.66"		
84"	82.41"	82.66"		
96"	94.41"	94.66"		

WD 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	
	S1	S2	P1	P2
12"	10.61"	10.76"		
13"	12.61"	12.76"		
14"	12.61"	12.76"		
15"	14.61"	14.76"		
16"	14.61"	14.76"		
17"	16.61"	16.76"		
18"	16.61"	16.76"		
19"	18.61"	18.76"		
20"	18.61"	18.76"		
21"	20.61"	20.76"		
22"	20.61"	20.76"		
23"	22.61"	22.76"		
24"	22.61"	22.76"		
36"	34.61"	34.76"		
48"	46.61"	46.76"		
60"	58.61"	58.76"		
72"	70.61"	70.76"		
84"	82.61"	82.76"		
96"	94.61"	94.76"		



OPTI-FLAT (01) FOR WARM DIM 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	
	S1	S2	P1	P2
12"	10.51"	10.86"	10.86"	10.86"
13"	12.51"	12.86"	12.86"	12.86"
14"	12.51"	12.86"	12.86"	12.86"
15"	14.51"	14.86"	14.86"	14.86"
16"	14.51"	14.86"	14.86"	14.86"
17"	16.51"	16.86"	16.86"	16.86"
18"	16.51"	16.86"	16.86"	16.86"
19"	18.51"	18.86"	18.86"	18.86"
20"	18.51"	18.86"	18.86"	18.86"
21"	20.51"	20.86"	20.86"	20.86"
22"	20.51"	20.86"	20.86"	20.86"
23"	22.51"	22.86"	22.86"	22.86"
24"	22.51"	22.86"	22.86"	22.86"
36"	34.51"	34.86"	34.86"	34.86"
48"	46.51"	46.86"	46.86"	46.86"
60"	58.51"	58.86"	58.86"	58.86"
72"	70.51"	70.86"	70.86"	70.86"
84"	82.51"	82.86"	82.86"	82.86"
96"	94.51"	94.86"	94.86"	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	
	S1	S2	P1	P2
12"	10.66"	11.06"	11.06"	11.06"
13"	12.66"	13.06"	13.06"	13.06"
14"	12.66"	13.06"	13.06"	13.06"
15"	14.66"	15.06"	15.06"	15.06"
16"	14.66"	15.06"	15.06"	15.06"
17"	16.66"	17.06"	17.06"	17.06"
18"	16.66"	17.06"	17.06"	17.06"
19"	18.66"	19.06"	19.06"	19.06"
20"	18.66"	19.06"	19.06"	19.06"
21"	20.66"	21.06"	21.06"	21.06"
22"	20.66"	21.06"	21.06"	21.06"
23"	22.66"	23.06"	23.06"	23.06"
24"	22.66"	23.06"	23.06"	23.06"
36"	34.66"	35.06"	35.06"	35.06"
48"	46.66"	47.06"	47.06"	47.06"
60"	58.66"	59.06"	59.06"	59.06"
72"	70.66"	71.06"	71.06"	71.06"
84"	82.66"	83.06"	83.06"	83.06"
96"	94.66"	95.06"	95.06"	95.06"



OPTI-FLAT (01) FOR WARM DIM 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 Warm Dim Applications	WD	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-DT6-AWN QTM-eLED+0-10V QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP	Q-SET-QZ-DW QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT8 QOM-eLED+PS-DALI-DT6 QOM-eLED+PS-DALI-DT8 QOM-eLED+WD QZ-DW	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QOM-eLED+DALI-DT6 QOM-eLED+PS-DALI-DT6 QZ-DMX QZ-PH/0-10V
1%	QZ-DALI-DT8	QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6
10%	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle		

DIMMING PROTOCOL	INDOOR		OUTDOOR	
	DW-HE Warm Dim Applications	WD	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	Q-SET-QZ-DW QZ-DW	Q-SET-QZ-PH/0-10V QZ-PH/0-10V
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	Q-SET-QZ-DW QOM-eLED+WD QZ-DW	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V
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		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	QOM-eLED+DALI-DT6	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 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	Q-SET+QZ-DALI-DT8 QOM-eLED+DALI-DT8 QZ-DALI-DT8	
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle		



OPTI-FLAT (01) FOR WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M 1.41" 1.71"	HINGE - HMB-L 1.46" 1.29"	HINGE - HMB-XL 1.46" 4"	Q-PIVOT 75° 1.03"	Q-ANGLE 1.38" 2.23"	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 	MMA-02 .58"							
L Mounting Bracket	L Mounting Bracket	Magnet Mount Accessory of MG-02							

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5 2.80" 2.27"	CON120-EXT
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE 1.36" 2.58"
Wi-Fi or Bluetooth Connectivity

COMPATIBLE APPS

NFC APP Q-NFC
Read and write DMX addresses and adjust voltage