OPTI-FLAT (01) FOR TUNABLE APPLICATIONS
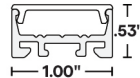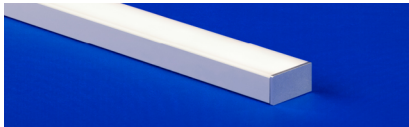
24VDC Linear Fixtures - Surface & Recessed

- 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

.53"
1.00"

INFORMATION REQUIRED FOR LIGHTING SCHEDULE

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

ADDITIONAL INFORMATION REQUIRED TO ORDER

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: **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

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

1.5HE	1.5W/ft HE
2.5HE	2.5W/ft HE

③ CCT

20/27	2000K/2700K
20/30	2000K/3000K
27/40	2700K/4000K
27/55	2700K/5500K

24/30	2400K/3000K
27/40	2700K/4000K

20/27	2000K/2700K
20/30	2000K/3000K
27/40	2700K/4000K
27/55	2700K/5500K

④ RATED

DRY	IP20

DMP	IP54

WET	IP67

⑤ LENS

DF	Diffused
PR	Polar
FR	Frosted

⑥ WIRE INPUT/OUTPUT

SINGLE (Input only)

S1	End Feed
S2	Bottom Feed

For continuous mounting, consider bottom feed.

PASS THROUGH (Input/Output)

P1	End Feed
P2	Bottom Feed

For continuous mounting, consider bottom feed.

⑦ CONNECTOR/WIRE IN

BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

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

BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

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)

BW	Bare Wire (Standard 36")
CON6	Connector 6"
CON24	Connector 24"

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

Custom finishes require a longer lead time, consult factory

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.
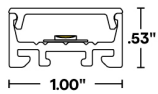
OPTI-FLAT (01) FOR TUNABLE APPLICATIONS
24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS
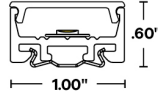
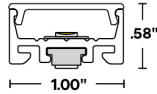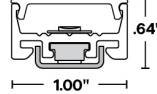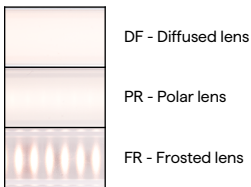| .53" / 1.00"	.60" / 1.00"	.58" / 1.00"	.64" / 1.00"
Profile	Profile with concealed clip	Profile with magnet clip	Profile with magnet mount clip and magnet mount accessory

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

5 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

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.
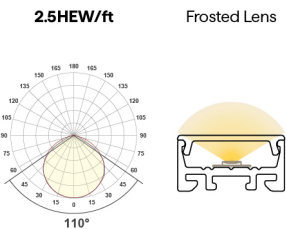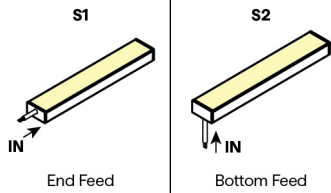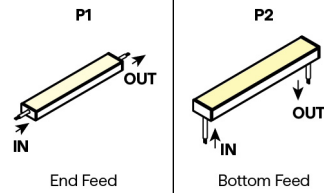
2.5HEW/ft   Frosted Lens

110°

6 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

IN

End Feed

S2

IN

Bottom Feed

PASS THROUGH (Input/Output)

P1

OUT

IN

End Feed

P2

OUT

IN

Bottom Feed

CONFIGURATION OPTIONS
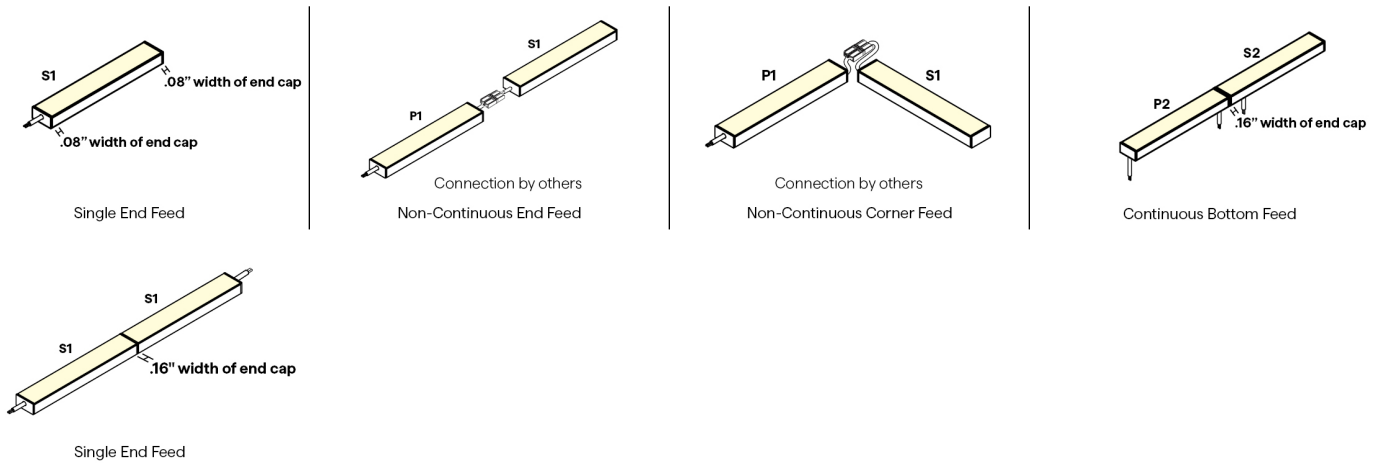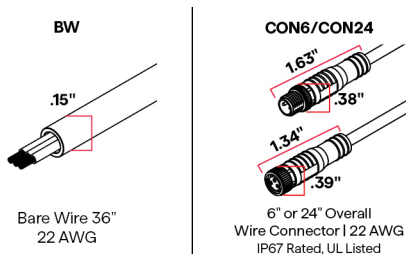
S1

.08" width of end cap

.08" width of end cap

Single End Feed

S1

P1

Connection by others

Non-Continuous End Feed

P1

S1

Connection by others

Non-Continuous Corner Feed

S2

P2

.16" width of end cap

Continuous Bottom Feed

S1

S1

.16" width of end cap

Single End Feed

7 / 8 CONNECTOR/WIRE – IN/OUT

BW

.15"

Bare Wire 36"
22 AWG

CON6/CON24

1.63"

.38"

1.34"

.39"

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

9 WIRE COLOR

White

Black

11 MOUNTING

CC
(CC-01)

.18"
.7"   1.25"
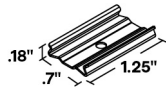
Concealed Clip

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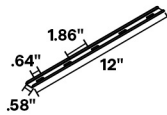
MG

.15"
3.13"
.35"

Magnet Clip

One MG provided per foot

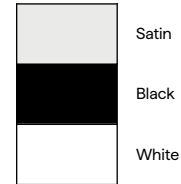To order separately use MG-02

MMA-02

1.86"
.64"   12"
.58"

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 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.

Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT
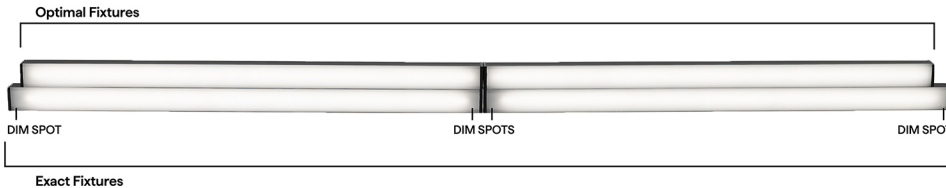
Exact Fixtures

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 & S2		P1 & P2	
	S1	S2	P1	P2
	IN / End Feed	IN / Bottom Feed	OUT / IN / End Feed	IN / OUT / 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

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

HINGE - HMB-M	HINGE - HMB-L	HINGE - HMB-XL	Q-PIVOT	Q-ANGLE	QUOVA-STANDARD	NJ-LARGE	NU-LARGE	SD-J-LARGE	BL-LARGE
1.41" / .71"	1.46" / 1.29"	4" / 1.46"	.75" / 1.03"	2.23" / 1.38"					
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"

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

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