OPTI-FLAT (01) STATIC WHITE
24VDC Linear Fixtures - Surface & Recessed

Certifications: c UL us LISTED | NEC 410.2 & 410.16 Closet Rated up to 4.0W/ft | RoHS Compliant | 1-BIN 1-STEP | 5 YEAR WARRANTY | BAA BUY AMERICAN ACT COMPLIANT | BABA BUILD AMERICA, BUY AMERICA COMPLIANT | Red List Approved Declare.

.53"
1.00"

- 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
- Suitable for installation in the storage area of a clothes closet when specified at 4.0 watts or less per foot per NEC regulations

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: OP1SW-5.0-30-DRY-DF-S1-BW-CLS-BK-CL2-CC-BK-48"-E

① PRODUCT

OP1SW
OP1SW-USA

Select USA option for BAA and BABA projects. Only DRY or WET ratings apply.

See following pages for compatible power supplies.

② WATTS/FT

1.5	1.5W/ft
3.0	3.0W/ft
4.0	4.0W/ft
5.0	5.0W/ft
1.5HE	1.5W/ft HE
3.0HE	3.0W/ft HE
6.0HE	6.0W/ft HE
9.0HE	9.0W/ft HE

1.5	1.5W/ft
3.0	3.0W/ft
4.0	4.0W/ft
5.0	5.0W/ft
1.5HE	1.5W/ft HE
3.0HE	3.0W/ft HE
6.0HE	6.0W/ft HE

1.5	1.5W/ft
3.0	3.0W/ft
4.0	4.0W/ft
5.0	5.0W/ft

③ CCT

20	2000K
22	2200K
24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

20	2000K
22	2200K
24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

④ RATED

DRY	IP20

DMP	IP54

WET	IP67

Can be suitable for exterior use. Contact factory for more information

⑤ LENS

DF	Diffused
PR	Polar
FR	Frosted

⑥ WIRE INPUT/OUTPUT

SINGLE (Input only)
S1	End Feed
S2	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	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 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.

OPTI-FLAT (01) STATIC WHITE
24VDC Linear Fixtures - Surface & Recessed

1 PRODUCT - DIMENSIONS

.53" 1.00"
Profile
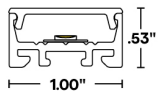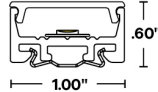
.60" 1.00"
Profile with
concealed clip
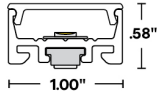
.58" 1.00"
Profile with magnet clip
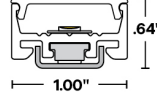
.64" 1.00"
Profile with magnet mount
clip and magnet mount
accessory

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs, L70 = 66000 for HE]
Tested with OP1SW-**-30-DRY-STD

	1.5 W/FT		1.5HE W/FT		3.0 W/FT		3.0HE W/FT		4.0 W/FT		5.0 W/FT		6.0HE W/FT		9.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	132	98	150	98	226	98	288	98	286	98	372	98	625	98	917	98
PR	125	97	142	98	214	98	277	98	270	98	352	98	591	98	874	98
DF	110	97	126	98	188	97	245	98	238	98	309	98	524	98	776	98

TEMPERATURE RATINGS

		1.5 W/FT		1.5 W/FT HE		3.0 W/FT		3.0 W/FT HE		4.0 W/FT		5.0 W/FT		6.0 W/FT HE		9.0 HE	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	140°F	-4°F	145°F	-4°F	135°F	-4°F	135°F	-4°F	130°F	-4°F	125°F	-4°F	125°F	-4°F	105°F

5 DIODE VISIBILITY

	SW	SW-HE
DF - Diffused lens		
PR - Polar lens		
FR - Frosted lens		
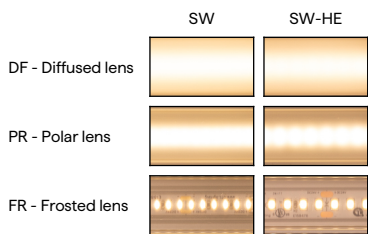
PHOTOMETRIC PERFORMANCE

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

5W/ft   Frosted Lens
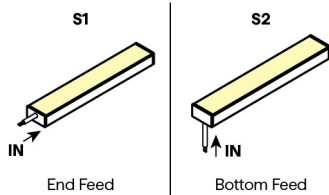
110°

6 WIRE INPUT/OUTPUT

SINGLE (Input only)

PASS THROUGH (Input/Output)
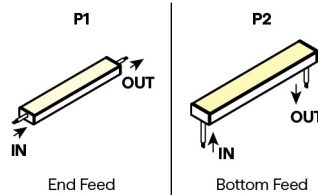
S1

IN

End Feed

S2

IN

Bottom Feed

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
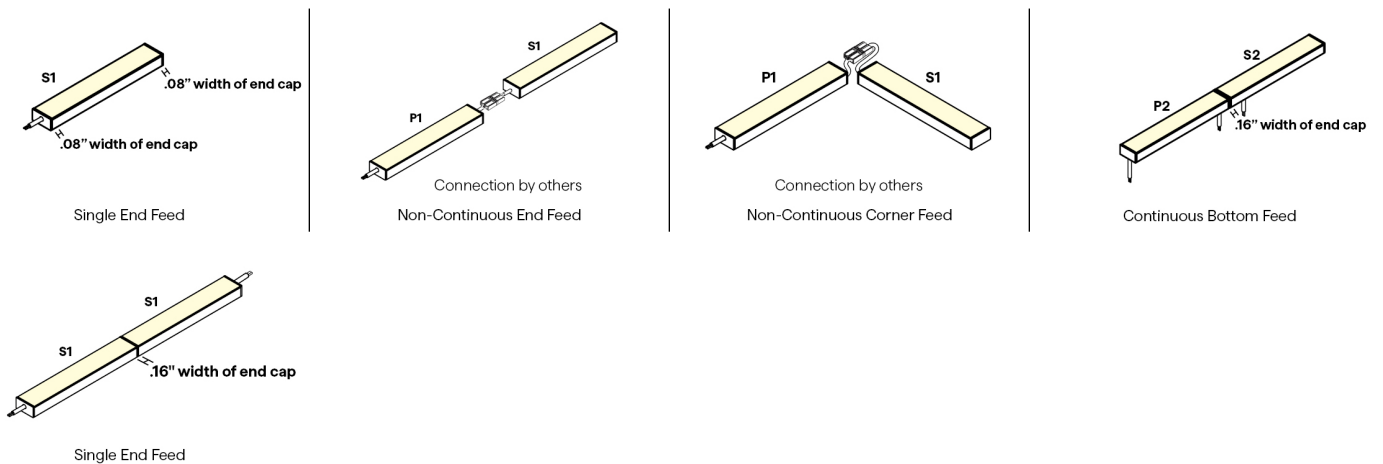
Single End Feed

7 / 8 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

BW

.15"

Bare Wire 36"
22 AWG

CON6/CON24

1.63"   .38"

1.34"   .39"
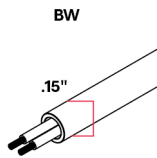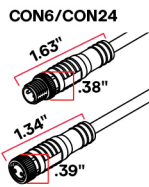
6" or 24" Overall
Wire Connector | 22 AWG
IP67 Rated, UL Listed

9 WIRE COLOR

White

Black

11 MOUNTING

CC
(CC-01)

.18"
.7"   1.25"
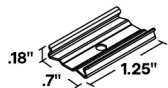
Concealed Clip

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

To order separately use CC-01 (sold in pairs)

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"
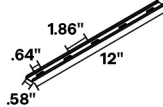
Magnet Mount
Accessory for MG-02

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

SW 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 S1 End Feed
12"	0.5"
13"	0.5"
14"	0.5"
15"	0.5"
16"	0.5"
17"	0.5"
18"	0.5"
19"	0.5"
20"	0.5"
21"	0.5"
22"	0.5"
23"	0.5"
24"	0.5"
36"	0.5"
48"	0.5"
60"	0.5"
72"	0.5"
84"	0.5"
96"	0.5"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2 S1 End Feed / S2 Bottom Feed	P1 & P2 P1 End Feed / P2 Bottom Feed
12"	11.41"	11.66"
13"	12.41"	12.66"
14"	13.41"	13.66"
15"	14.41"	14.66"
16"	15.41"	15.66"
17"	16.41"	16.66"
18"	17.41"	17.66"
19"	18.41"	18.66"
20"	19.41"	19.66"
21"	20.41"	20.66"
22"	21.41"	21.66"
23"	22.41"	22.66"
24"	23.41"	23.66"
36"	35.41"	35.66"
48"	47.41"	47.66"
60"	59.41"	59.66"
72"	71.41"	71.66"
84"	83.41"	83.66"
96"	95.41"	95.66"

SW 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

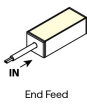| Requested Length	Potential dim spot on either end of a S1 fixture S1 End Feed
12"	0.5"
13"	0.5"
14"	0.5"
15"	0.5"
16"	0.5"
17"	0.5"
18"	0.5"
19"	0.5"
20"	0.5"
21"	0.5"
22"	0.5"
23"	0.5"
24"	0.5"
36"	0.5"
48"	0.5"
60"	0.5"
72"	0.5"
84"	0.5"
96"	0.5"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2 S1 End Feed / S2 Bottom Feed	P1 & P2 P1 End Feed / P2 Bottom Feed
12"	11.56"	11.71"
13"	12.56"	12.71"
14"	13.56"	13.71"
15"	14.56"	14.71"
16"	15.56"	15.71"
17"	16.56"	16.71"
18"	17.56"	17.71"
19"	18.56"	18.71"
20"	19.56"	19.71"
21"	20.56"	20.71"
22"	21.56"	21.71"
23"	22.56"	22.71"
24"	23.56"	23.71"
36"	35.56"	35.71"
48"	47.56"	47.71"
60"	59.56"	59.71"
72"	71.56"	71.71"
84"	83.56"	83.71"
96"	95.56"	95.71"

OPTI-FLAT (01) STATIC WHITE
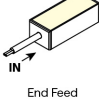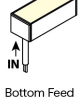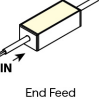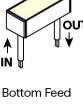## 24VDC Linear Fixtures - Surface & Recessed

SW-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

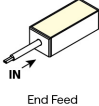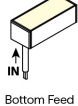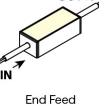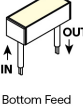| Requested Length	Potential dim spot on either end of a S1 fixture — S1 End Feed
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2	P1 & P2
12"	10.41"	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"

COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

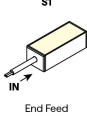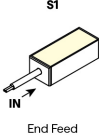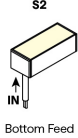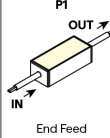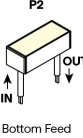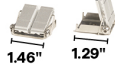| DIM TO LEVEL	INDOOR
	SW24/1.5-4.0
Dim to Black	Q6M-DC+CAP QTM-DC+CAP iQ-PH+QD1
0.1%	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
1%	QTM-eLED(E) QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle
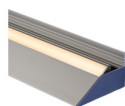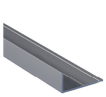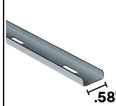
OPTI-FLAT (01) STATIC WHITE
24VDC Linear Fixtures - Surface & Recessed

| DIMMING PROTOCOL	INDOOR
	SW24/1.5-4.0
Non-Dim	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND
Phase	Q6M-DC+CAP QT-CAB-QZ-PH/0-10V QTM-DC+CAP QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP iQ-PH+QD1
0-10V	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QT-CAB-eLED+0-10V-AWN QTM-eLED+0-10V QTM-eLED+0-10V-AWN QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
Lutron Athena	QT-CAB-eLED+0-10V-AWN QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+0-10V-AWN QTM-eLED+DALI-DT6-AWN
ECO System	QTM-eLED(E)
DMX	QZ-DMX
DALI-2: DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle

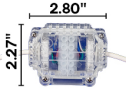# COMPATIBLE MOUNTING ACCESSORIES

HINGE - HMB-M
1.41" .71"
Adjustable mounting bracket - Medium

HINGE - HMB-L
1.46" 1.29"
Adjustable mounting bracket - Large

HINGE - HMB-XL
1.46" 4"
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

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

Q-mini-J	Q-mini-J5	CON120-EXT	CON FOUR-FER	CON M - BARREL F
2" / 1.25"	2.80" / 2.27"			
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	10ft Con cable extender DRY/DMP/WET	Splits lead from one to four LED Con connectors DRY/DMP/WET	Male con to barrel cable adaptor DRY/DMP

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