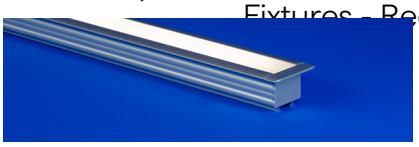
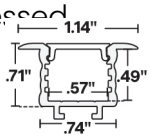
ESSENTIALS EMBD-FLAT (01) MITERED STATIC WHITE HE

24VDC Partially Assembled Recessed Fixtures - Recessed





- Recessable fixture offered in a sleek flat profile with four lens options
- Outer trim sits flush to the surface and recesses at either 0.77" or 1.27" depending on mounting selected
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations

1 PRODUCT	2 WATTS/ FT	3 CCT	4 RATED	5 EFFICIENCY	6 LENS	7 WIRE INPUT/ OUTPUT	8 CONNECTOR / WIRE IN	9 CONNECTOR / WIRE OUT	10 WIRE COLOR	11 WIRE TYPE	12 MOUNTING	13 FINISH	14 LEFT END ANGLE	15 RIGHT END ANGLE	16 LENGTH (IN)	17 EXACT/ OPTIMAL
EBM1SW				STD												

Sample Part Number: **EBM1SW-3.0HE-30-DRY-STD-DF-**-BW-BW-BK-CL2-SP-ST-LI45-RI45-48"-E**

1 PRODUCT

EBM1SW

See following pages for compatible power supplies.

2 WATTS/FT

1.5HE	1.5W/ft HE
3.0HE	3.0W/ft HE
6.0HE	6.0W/ft HE

1.5HE	1.5W/ft HE
3.0HE	3.0W/ft HE
6.0HE	6.0W/ft HE

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

4 RATED

DRY	IP20
DMP	IP54

5 EFFICIENCY

STD	Standard

6 LENS

DF	Diffused
PR	Polar
FR	Frosted

For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages

7 WIRE INPUT/OUTPUT

**	Shop drawings required
**	Shop drawings required

8 CONNECTOR/WIRE IN

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

Connector/Wire In not needed to specify product. Typical selection is BW.
BW: Standard length is 24", Max length is 120".
Request custom length by writing in part number next to BW (example: BW48)

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

Connector/Wire In not needed to specify product. Typical selection is BW.
BW: Standard length is 24", Max length is 120".
Request custom length by writing in part number next to BW (example: BW48)

9 CONNECTOR/WIRE OUT

CLS	Closed End (No feed)

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

Connector/Wire Out not needed to specify product. Typical selection is CLS or BW.
BW: Standard length is 24", Max length is 120".
Request custom length by writing in part number next to BW (example: BW48)

10 WIRE COLOR

WH	White
BK	Black
N/A	For Barrel

wet barrel only available in black

11 WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated
N/A	For Barrel

12 MOUNTING

MG	Magnet
SP	Spring Clip

13 FINISH

ST	Satin
CU	Custom

14 LEFT END ANGLE

LI45	Inner 45°
LO45	Outer 45°
LFT	Flat (no angle)

See following pages for mitered angle configuration options

15 RIGHT END ANGLE

LI45	Inner 45°
LO45	Outer 45°
LFT	Flat (no angle)

See following pages for mitered angle configuration options

16 LENGTH (IN)

Fixture length min 12", max 98.43" not including end caps.
Tolerance +0 – 1/8". Consult factory for lengths under 12".

17 EXACT/OPTIMAL

O	Optimal Illumination
E	Exact Specified Length

Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 – 1/8". See charts on following pages.

PRELIMINARY
SUBJECT TO CHANGE

5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

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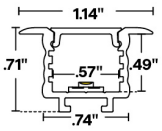
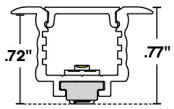
ESSENTIALS EMBD-FLAT (01) MITERED STATIC WHITE HE

24VDC Partially Assembled Recessed Fixtures - Recessed

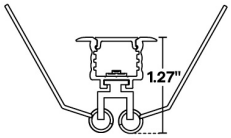
1 PRODUCT - DIMENSIONS



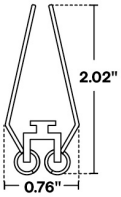
Profile with flat lens



Profile with flat lens and magnet mounting clip



Profile with flat lens and spring mounting clip



Spring mounting clip

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs, L70 = 50000 for HE+]
Tested with EBM1SW-**-30-DRY-STD

	1.5HE W/FT		3.0HE W/FT		6.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
FR	160	98	293	98	555	98
PR	138	98	252	98	478	98
DF	118	98	216	98	409	98

6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

TEMPERATURE RATINGS

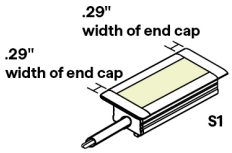
		1.5 HE W/FT		3.0 HE W/FT		6.0 HE W/FT	
		Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Recessed	-4°F	140°F	-4°F	135°F	-4°F	110°F
DMP	Ambient Operating Temp - Recessed	-4°F	135°F	-4°F	130°F	-4°F	105°F

PRELIMINARY SUBJECT TO CHANGE

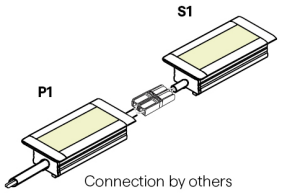
ESSENTIALS EMBD-FLAT (01) MITERED STATIC WHITE HE

24VDC Partially Assembled Recessed Fixtures - Recessed

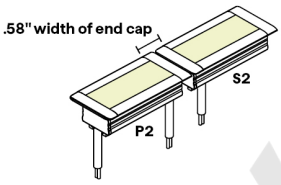
WIRING CONFIGURATION OPTIONS



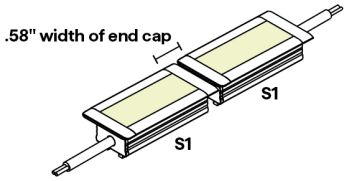
Single End Feed



Non-Continuous End Feed



Non-Continuous Bottom Feed

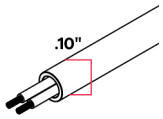


Non-Continuous End to End Feed

8 / 9 CONNECTOR/WIRE – IN/OUT

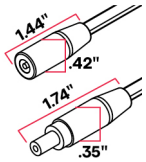
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

BW



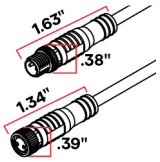
Bare Wire 24"
Stranded 22 AWG

BRL



Barrel 6" - DRY/DMP | 22 AWG

CON6/CON24



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

10 WIRE COLOR

White

Black

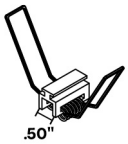
12 MOUNTING

MG

Magnet Clip

One MG provided per foot
To order separately use MG-02

SP

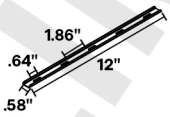


Spring Clip

2 clips provided for 4' or less. 4 clips provided for greater than 4'.

To order separately use SP-01

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

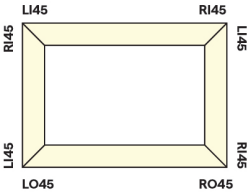
Required when mounting to a non-magnetic surface

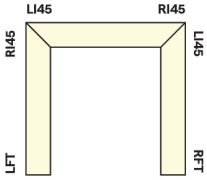
13 FINISH

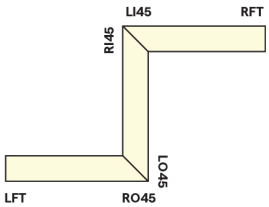
Satin

Custom color available

14 / 15 LEFT/RIGHT END ANGLE CONFIGURATION OPTIONS







PRELIMINARY
SUBJECT TO CHANGE

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ESSENTIALS EMBD-FLAT (01) MITERED STATIC WHITE HE

24VDC Partially Assembled Recessed Fixtures - Recessed

17 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →

EXAMPLES OF 12" OPTIMIZED STATIC WHITE FIXTURES WITH DIFFUSED LENS

S1 & S2

P1 & P2

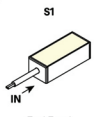
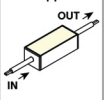
SW-HE, SW-HE+ DRY, DMP LENGTHS BY INCH

Available in any length in between 12" and 98.43", 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  End Feed	S2 Bottom Feed	P1  End Feed	P2 Bottom Feed
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"	

PRELIMINARY
SUBJECT TO CHANGE

ESSENTIALS EMBD-FLAT (01) MITERED STATIC WHITE HE

24VDC Partially Assembled Recessed Fixtures - 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
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
Dim to Black	Q6M-DC+CAP QTM-DC+CAP iQ-PH iQ-PH+QD1	QOM-DC+CAP QOM-PH
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	Q-SET-QZ-DMX 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%	QTM-eLED(E) QZ-DALI-DT6	Q-SET+QZ-DALI-DT6 QZ-DALI-DT6
10%	Non-Dim Power Supply with SW App Dongle	

PRELIMINARY
SUBJECT TO CHANGE

ESSENTIALS EMBD-FLAT (01) MITERED STATIC WHITE HE

24VDC Partially Assembled Recessed Fixtures - Recessed

DIMMING PROTOCOL	INDOOR	OUTDOOR
	SW24/5.0, SW-HE, SW-HE+	SW24/5.0, SW-HE, SW-HE+
Non-Dim	QT-CAB-eLED-ND QTM-eLED-ND QZ-ND	Q-SET-QZ-ND Q-SET-eLED-ND QOM-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 iQ-PH+QD1	Q-SET-QZ-PH/0-10V QOM-DC+CAP QOM-PH QZ-PH/0-10V
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	Q-SET-QZ-PH/0-10V Q-SET-eLED+0-10V QOM-eLED+0-10V QZ-PH/0-10V
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	Q-SET-QZ-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	Q-SET+QZ-DALI-DT6 QOM-eLED+DALI-DT6 QZ-DALI-DT6
SCENE App Dimmed	Non-Dim Power Supply with SW App Dongle	

COMPATIBLE WIRING ACCESSORIES

Q-mini-J

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

BARREL-EXT

8ft barrel cable extender DRY ONLY

BARREL FOUR-FER

Splits lead from one to four LED Barrel connector fixtures, DRY/DMP

CON120-EXT

10ft Con cable extender DRY/DMP/WET

CON FOUR-FER

Splits lead from one to four LED Con connectors DRY/DMP/WET

CON M - BARREL F

Male con to barrel cable adaptor DRY/DMP

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

Wi-Fi or Bluetooth Connectivity

PRELIMINARY
SUBJECT TO CHANGE

ESSENTIALS EMBD-FLAT (01) MITERED STATIC WHITE HE

24VDC Partially Assembled Recessed Fixtures - Recessed

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage

PRELIMINARY
SUBJECT TO CHANGE