ESSENTIALS VEVE™-FLAT (01) TUNABLE APPLICATIONS
24VDC Linear Fixtures - Corner & Surface
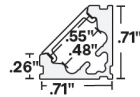
- Corner and surface mount linear fixture with flat lens
- Choose from diffused, polar, frosted, or clear lens options for varying diode visibility and beam angles
- Two cutoff options when using clear lens
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- Features painted end caps to match extrusion finish
- 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
- Used in applications where CCT and brightness need to be controlled separately
- When using DALI and DMX power supplies, LED wattage must be doubled

.55"   .71"
.48"
.26"
.71"

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

Sample Part Number: **VV1DW-2.5HE-20/30-DRY-STD-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

1 — PRODUCT

VV1DW
VV1DW-USA

Select USA option for BAA and BABA projects. Only DRY 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

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

4 — RATED

DRY	IP20

DMP	IP54

5 — EFFICIENCY

STD	Standard

6 — LENS

DF	Diffused
PR	Polar
FR	Frosted
CL	Clear

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

S1 — Single 1 (Input only) - End Feed

P1 — Pass Through 1 (Input/output) - End Feed

8 — CONNECTOR/WIRE IN

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

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

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)

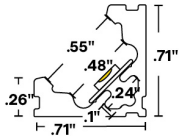|	
BW	Bare Wire (Standard 24")
CON6	Connector 6"
CON24	Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)
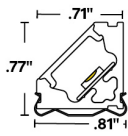
10 — WIRE COLOR

WH	White
BK	Black

11 — WIRE TYPE

CL2	Class 2
CL2P	Plenum Rated

CL2P only available with bare wire leads (BW)

12 — MOUNTING

SST	Stainless Steel
M4	Low Profile Magnet
MG	Magnet

13 — FINISH

ST	Satin
BK	Black
BZ	Bronze
CU	Custom

Custom finishes require a longer lead time, consult factory

14 — LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

15 — 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. See Exact/Optimal Fixture Length charts.

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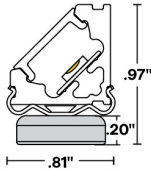
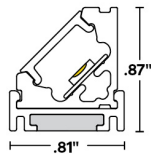## 1 PRODUCT - DIMENSIONS

Profile

Profile with flat lens and stainless steel mounting clip

Profile with flat lens and magnet mounting clip

Profile with flat lens and low profile magnet

2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]
Tested with VV1DW-**-30-DRY-STD

	1.5HE W/FT		2.5HE W/FT	
	LM/FT	CRI	LM/FT	CRI
CL	140	98	221	98
FR	138	98	217	98
PR	126	98	198	98
DF	115	98	181	98

6 DIODE VISIBILITY

DF - Diffused lens

PR - Polar lens

FR - Frosted lens

CL - Clear lens

PHOTOMETRIC PERFORMANCE

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

CL

100°
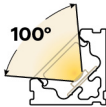
Clear 100˚

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	
		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
DRY	Ambient Operating Temp - Surface	-4	145	-4	130	-4	140	-4	120
DMP	Ambient Operating Temp - Surface	-4	140	-4	125	-4	135	-4	115
WET	Ambient Operating Temp - Surface	**	**	**	**	**	**	**	**

7 WIRE INPUT/OUTPUT

SINGLE (Input only)

S1

IN

End Feed

PASS THROUGH (Input/Output)

P1

OUT

IN

End Feed

CONFIGURATION OPTIONS

S1

.08" width of end cap

.08" width of end cap

Single End Feed

P1 **S1**

Connection by others

Non-Continuous End Feed

P1 **S1**

Connection by others

Non-Continuous Corner Feed

S1

S1

.16" width of end caps
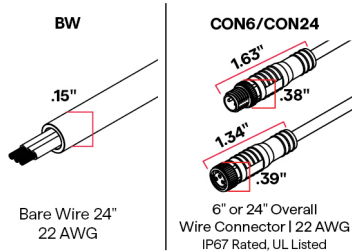
Continuous End to End Feed

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

.15"

Bare Wire 24"
22 AWG

CON6/CON24

1.63"
.38"

1.34"
.39"

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

10 WIRE COLOR

White

Black

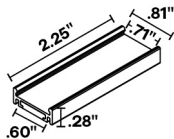## 12 MOUNTING

13 FINISH

SST
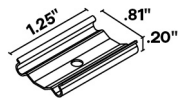
Stainless Steel Clip

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

To order separately use SST-01

Each clip comes with a #4 x 5/8" Flat Head SS

M4

Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04

Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

Each bracket comes with 2 #6 x 5/8 Flat Head SS

Required when mounting to a non-magnetic surface

MG

Magnet Clip

One MG provided per foot

To order separately use MG-01

Finish

Satin

Black

Bronze

Custom finishes require a longer lead time, consult factory

Custom finishes require a longer lead time, consult factory

MMA-01

Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

Each bracket comes with 2 #6 x 5/8 Flat Head SS
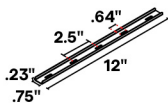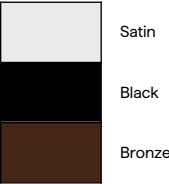
Required when mounting to a non-magnetic surface

14 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →   **E/O Explained →**

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.
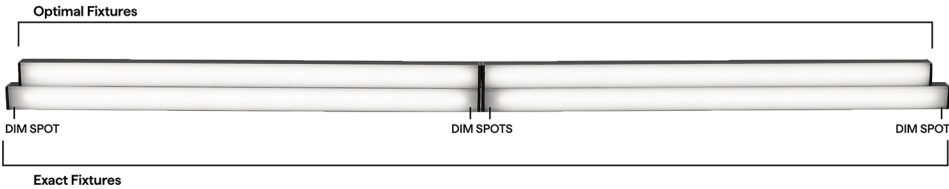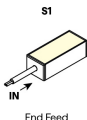
Optimal Fixtures

DIM SPOT   DIM SPOTS   DIM SPOT

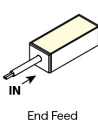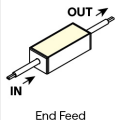**Exact Fixtures**

DW-HE DRY DMP LENGTHS BY INCH

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 (End Feed)	P1 (OUT / End Feed)
12"	11.49"	11.14"
13"	12.49"	12.14"
14"	13.49"	13.14"
15"	14.49"	14.14"
16"	15.49"	15.14"
17"	16.49"	16.14"
18"	17.49"	17.14"
19"	18.49"	18.14"
20"	19.49"	19.14"
21"	20.49"	20.14"
22"	21.49"	21.14"
23"	22.49"	22.14"
24"	23.49"	23.14"
36"	35.49"	35.14"
48"	47.49"	47.14"
60"	59.49"	59.14"
72"	71.49"	71.14"
84"	83.49"	83.14"
96"	95.49"	95.14"

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 — 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

NJ-MEDIUM — J 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

SD-L-MEDIUM — L Mounting Bracket

MMA-01 — .23" .75" — Magnet Mount Accessory of MG-01

MMA-04 — .19" .93" — Magnet Mount Accessory of MG-04