

# PHILIPS Day-Brite CFI

Special Application

MPAC linear

Vandal resistant  
T8, T5, or T5HO



Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

The Philips Day-Brite / Philips CFI MPAC Architectural Linear Fluorescent is a vandal resistant luminaire featuring a heavy duty marine grade aluminum extrusion with die cast aluminum side rails and end caps.

## Ordering guide

Example: **VMAN232WP-UNV-1/2-EB**

Family	Width	No. of Lamps/ Cross Section	Lamp Type	Finish	Lens Type	Voltage	No. of Ballasts	Ballast Type	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>
<b>VMA</b> Alum. Housing <b>TVMA</b> Tandem Unit (96")	<b>N</b> Narrow <b>W</b> Wide	1 One lamp <sup>1</sup> 2 Two lamps <sup>1</sup> 3 Three lamps 4 Four lamps <sup>2</sup>	<b>14</b> 14WT5 (24") <sup>3</sup> <b>17</b> 17WT8 (24") <b>24HO</b> 24WT5HO (24") <sup>3,4</sup> <b>28</b> 28WT5 (48") <sup>5</sup> <b>32</b> 32WT8 (48") <b>54HO</b> 54WT5HO (48") <sup>5,6,7</sup>	<b>W</b> White <b>D</b> Dark Bronze <b>B</b> Black <b>C</b> Custom RAL color	<b>C</b> Clear Polycarbonate <b>P</b> Pearl Polycarbonate	<b>UNV</b> Universal voltage, 120-277V <b>120</b> 120V <b>277</b> 277V <b>347</b> 347V	1/1 One 1-lamp ballast 1/2 One 2-lamp ballast 2/1 Two 1-lamp ballasts 1/3 One 3-lamp ballast 1/21 2-lamp & 1-lamp ballasts 1/4 One 4-lamp ballast 2/2 Two 2-lamp ballasts 2/3 Two 3-lamp ballasts 1/42 4-lamp & 2-lamp ballasts 2/4 Two 4-lamp ballasts	<b>EB</b> Electronic ballast <10% THD <b>EB10R</b> T8 electronic ballast, program rapid start, <10% THD <b>EBD</b> Electronic dimming ballast, customer specified	<b>WL E1</b> Wet Location Listing B100 emerg. ballast, 350-450 lumens, 120/277V <sup>8,9</sup> <b>E1CAN</b> B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V <b>E7</b> B60 emerg. ballast, T8, 600-700 lumens, 120/277V <sup>8,9</sup> <b>E5</b> B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV(not available on 2ft. luminaires) <sup>8</sup> <b>E5CAN</b> B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V <b>E5ST</b> B50ST emerg. ballast w/self test, T8, 1100-1400 lumens, UNV <b>E7LP</b> LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V <sup>8</sup> <b>E6LP</b> LP600 emerg. ballast, U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V <b>GLR</b> Fusing, Fast Blow <b>GMF</b> Fusing, Slow Blow <b>SCE</b> Surface Conduit Mounting (One end cap slotted for conduit) <b>SCE2</b> Surface Conduit Mounting (Both end caps slotted for conduit)

## Accessories (order separately)

- **TPDTH** TORX T15 Pin-in-Head Screwdriver

## General Notes

- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

## Footnotes

- <sup>1</sup> Not available in wide housing.
- <sup>2</sup> Not available in narrow housing.
- <sup>3</sup> Not available with emergency ballast.
- <sup>4</sup> Wall mount only when using 4 lamps.
- <sup>5</sup> Not available with Emergency Ballast in narrow housing with 3 lamps or wide housing with 4 lamps.
- <sup>6</sup> Not available with Emergency Ballast in narrow housing with 2 or 3 lamps or wide housing with 3 lamps.
- <sup>7</sup> 4-54W lamps for wall mount applications only.
- <sup>8</sup> For use in dry, damp or wet locations.
- <sup>9</sup> Wall mount only on 2 ft. wide luminaires with 4-17W T8 lamps.



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## Standards

- ETL (US/Canada Damp Location) is standard with an optional Wet location listing on ceiling or wall mount applications.
- ETL wet location rated luminaires are also IP65 rated on ceiling and wall applications.
- ADA compliant.

## Construction/Finish

- The housing is constructed of heavy duty marine grade aluminum extrusion with die cast aluminum side rails and end caps.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is polyester powder.
- Reflector has a 92% reflectivity.
- Standard housing finish is white, with optional black, dark bronze, or custom RAL colors.
- Rubber gasketing provides a tight weather-resistant seal on wet location listed option.

## Lens

- UV stabilized, high impact extruded clear or pearlescent polycarbonate lens. Nominal thickness is 0.125". Lens prisms are internal to provide for a smooth exterior finish.
- Four TORX T15 tamperproof stainless steel screws secure lens retaining bracket and lens to housing.

## Electrical

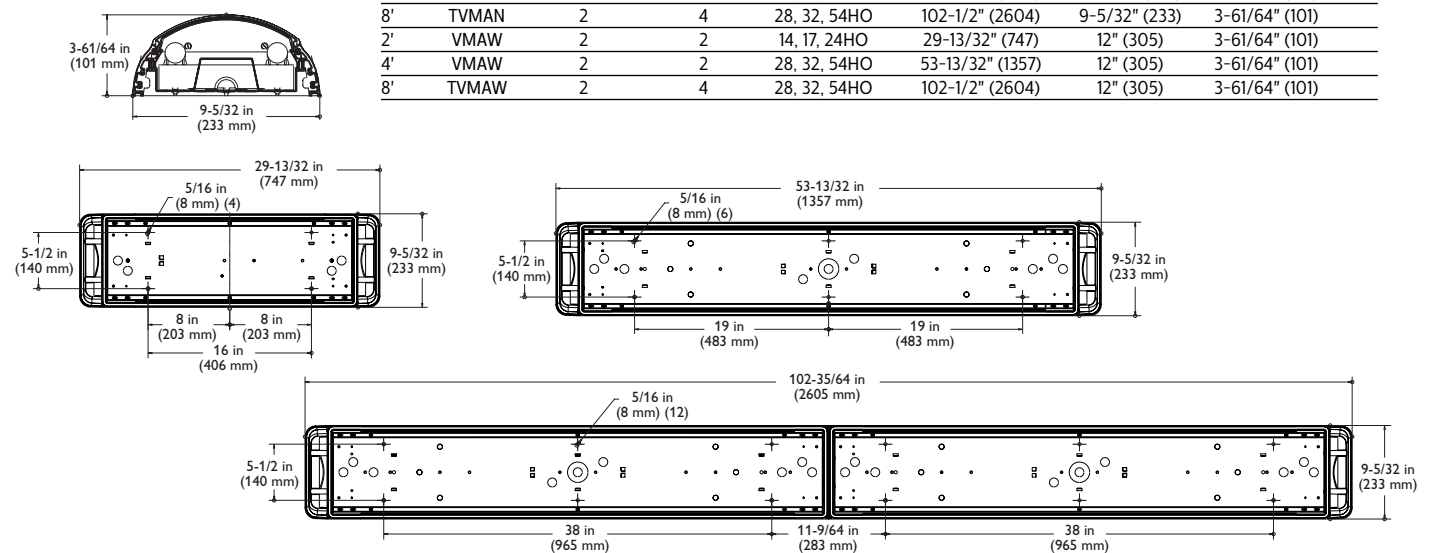
- End caps allow for surface conduit when used with the optional slotted endcaps (SCE).
- Optional self-contained emergency ballasts can be incorporated.
- Sockets are spring loaded and shock resistant. Include a locking collar to retain lamps. options available. Additional hardware is needed for Corner and Pendant installation.

## Installation

- Luminaire may be ceiling or wall mounted.
- For lifetime abuse warranty to apply, the standard four-point (24" housing), six-point (48" housing), twelve-point (96" housing) mounting is required.
- For Surface Conduit Mount Applications use the SCE option when surface mounted conduit is connected to only one end of the luminaire. The SCE2 option is used when surface mounted conduit is connected to both ends of the luminaire.

## Dimensions

### VMAN



## Product Availability

Size	Family	Lamps/ X-section	Lamps/ Luminaire	Lamp Type	Length w/end caps in. (mm)	Width in. (mm)	Depth in. (mm)
2'	VMAN	2	2	14, 17, 24HO	29-13/32" (747)	9-5/32" (233)	3-61/64" (101)
4'	VMAN	2	2	28, 32, 54HO	53-13/32" (1357)	9-5/32" (233)	3-61/64" (101)
8'	TVMAN	2	4	28, 32, 54HO	102-1/2" (2604)	9-5/32" (233)	3-61/64" (101)
2'	VMAW	2	2	14, 17, 24HO	29-13/32" (747)	12" (305)	3-61/64" (101)
4'	VMAW	2	2	28, 32, 54HO	53-13/32" (1357)	12" (305)	3-61/64" (101)
8'	TVMAW	2	4	28, 32, 54HO	102-1/2" (2604)	12" (305)	3-61/64" (101)

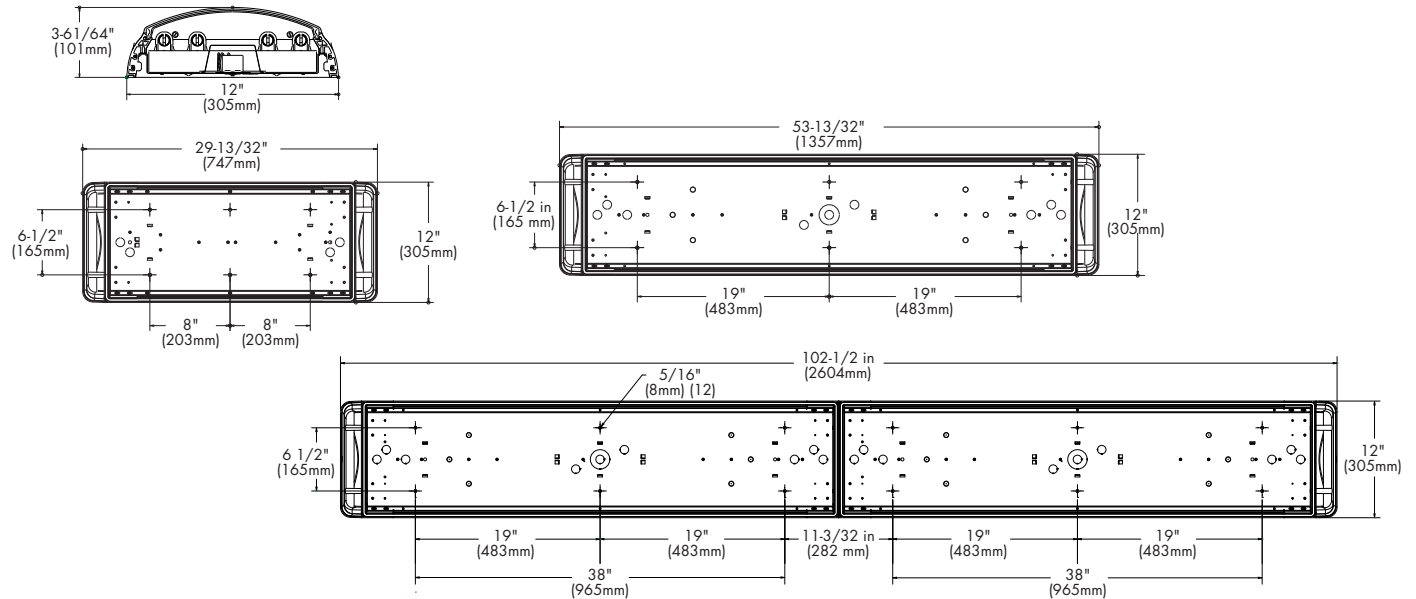


Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)

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## VMAW



## Photometry

### VMAN MPAC Linear 2 Lamp T8, Narrow

Efficiency – 69%

LER – 66

TER – 50

Catalog No.	VMAN232WC
Test No.	28283
S/MH	1.2
Lamp Type	F32T8
Lumens/Lamp	2850
Ballast Factor	.88
Input Watts	59

Comparative yearly lighting energy cost per 1000 lumens – **\$3.64** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

### Candlepower

Angle	End	45	Cross
0	1265	1265	1265
5	1267	1261	1250
15	1209	1208	1201
25	1099	1109	1117
35	935	971	1010
45	735	816	900
55	519	653	767
65	301	483	610
75	112	318	444
85	16	183	297
95	1	84	173
105	1	30	86
115	2	9	32
125	2	3	9
135	5	3	5
145	6	4	4
155	9	6	5
165	9	7	7
175	8	9	8

### Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	970	17.0	24.7
0-40	1577	27.7	40.1
0-60	2787	48.9	70.9
0-90	3766	66.1	95.8
90-120	148	2.6	3.8
90-130	153	2.7	3.9
90-150	159	2.8	4.0
90-180	164	2.9	4.2
0-180	3930	69.0	100.0

### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceil	80	70	50
Wall	70	50	30
RCR	70	50	30
0	81	81	81
1	73	70	66
2	66	60	55
3	60	53	47
4	55	47	40
5	51	42	35
6	47	37	31
7	43	34	28
8	40	31	25
9	38	28	23
10	35	26	21

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