

## DESCRIPTION

The VT2 Series is an energy efficient industrial Vaportite fixture that features rugged and durable construction. The VT2 incorporates a full metal fixture liner inside a reinforced fiberglass housing with a high impact diffuser. This Vaportite series is suitable for interior and exterior applications and can be surface or chain mounted.

The VT2 Series has been designed for maximum operation in commercial institutional and industrial environments where weathering, high temperature, humidity and dust or corrosive fumes are present.

| Catalog #   |  | Type |
|-------------|--|------|
| Project     |  |      |
| Comments    |  | Date |
| Prepared by |  |      |

## SPECIFICATION FEATURES

### Construction

Fiberglass housing is reinforced polyester and self-extinguishing (ASTM-D635-74) plastic of a permanent pearl gray color. Top of housing has nine embossments (4' unit) and thirteen embossments (8' unit), providing mounting flexibility on uneven surfaces. A watertite hub for 1/2" conduit entry is provided at each end of housing (standard) for continuous feed. Polyurethane gasketing is formed in the housing providing a continuous seamless seal for the diffuser. Six sturdy cam latches (4' unit) and twelve (8' and tandem unit) clamp diffuser tightly for a positive seal between housing, gasketing and diffuser.

### Electrical\*

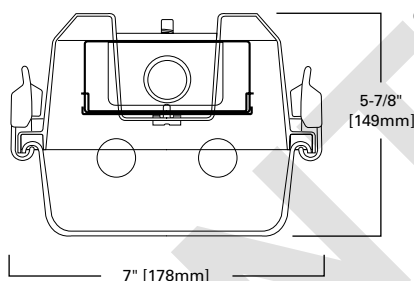
Unit has full metal liner (channel) secured by brass internal/external mounting studs for positive grounding, maximum protection and rigidity. Ballasts are CBM/ ETL Class "P" certified suitable to plus 50°F. (Cold temperature ballasts are available suitable to 0°F, on special order) Spring loaded lampholders. Electrical components and fixtures are UL/ CUL listed for Wet Locations.\*\* IP65 approved (4' only).

### Reflectors

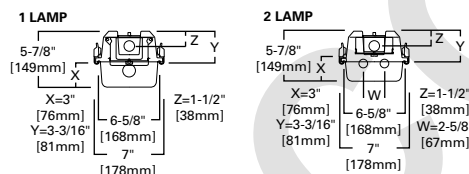
"DR" - Clear low brightness pattern acrylic with 15% high impact additive.  
 "DR-100" - Clear low brightness pattern acrylic with 100% high impact additive.  
 Example: VT2-248HODR-100  
 "LEX" - High impact clear low brightness pattern polycarbonate. LEXAN  
 Example: VT2-248HOLEX.

### Compliance

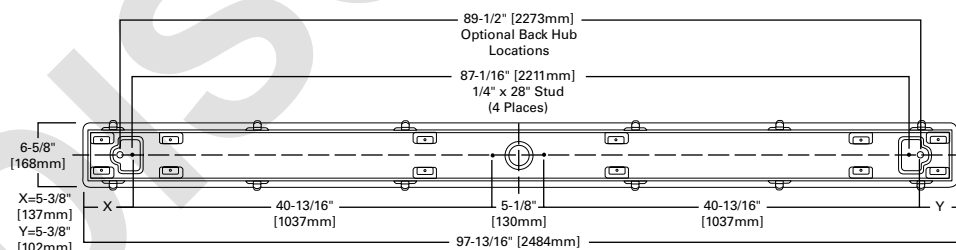
The VT2 Series ratings apply to Horizontal Mounting only. Options to meet Buy American and other domestic preference requirements.



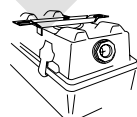
## LAMP CONFIGURATIONS



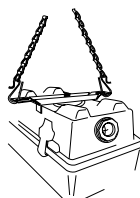
## MOUNTING DATA



## INSTALLATION DATA



**MOUNTING BRACKETS**  
 Furnished  
 Two per 2' and 4' Unit  
 Four per 8' Unit



### OPTIONAL CHAIN HANGING SET (VT2-CHAIN/SET-U)

Includes 6 ft. of chain, 4 large S-Hooks and 4 small S-Hooks  
 Order One (1) Kit for each 2' or 4' Fixture  
 Two (2) Kits Recommended For 8' Fixture



**VT2**  
 196  
 196T8  
 296  
 296T8

**8' INDUSTRIAL  
 1 OR 2 LAMPS SLIMLINE**

Vaportite Industrial

## ENERGY DATA

Input Watts:

**EB Ballast & STD Lamps**

196 (85), 196T8 (70)  
 296 (136), 296T8 (110)

**ES Ballast & STD Lamps**

296 (158)

**STD Ballast & STD Lamps**

196 (72)

Luminaire Efficacy Rating

**LER = FI-77**

**Catalog Number: VT2-296T8**

**Yearly Cost of 1000 lumens,  
 3000 hrs at .08 KWH = \$3.12**

\*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

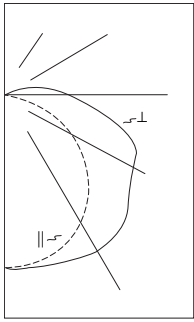
\*\*Not Suitable for Wet Locations if EL4 Option is added. Consult Pre Sales Technical Support.

LAMPS CONTAIN MERCURY, DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

**LINEAR DISCONNECT**

Safe and convenient means of disconnecting power

## PHOTOMETRICS

**VT2-296T8-DR-WL**  
Energy Saving  
BallastF96T8/SPX35 Lamps  
5950 LumensSpacing criterion:  
(H) 1.3 x mounting  
height, (L) 1.6 x  
mounting height

Efficiency 76.5%

Test Report:  
VT2296T8DRWL.IES

LER = FI-77

Yearly Cost of 1000  
lumens, 3000 hrs at  
.08 KWH = \$3.12**Coefficients of Utilization**

| Effective floor cavity reflectance |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
| 80%                                |    |    |    | 70% |    |    |    | 50% |    |    |    | 30% |    |    |    |
| rc                                 |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
| rw                                 | 70 | 50 | 30 | 10  | 70 | 50 | 30 | 10  | 50 | 30 | 10 | 50  | 30 | 10 | 0% |
| RCR                                |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
| 0                                  | 90 | 90 | 90 | 90  | 87 | 87 | 87 | 87  | 82 | 82 | 82 | 77  | 77 | 77 | 71 |
| 1                                  | 79 | 75 | 71 | 67  | 77 | 72 | 69 | 65  | 68 | 65 | 62 | 64  | 61 | 59 | 54 |
| 2                                  | 71 | 64 | 58 | 52  | 69 | 62 | 56 | 51  | 58 | 53 | 49 | 55  | 51 | 47 | 43 |
| 3                                  | 64 | 55 | 48 | 42  | 62 | 53 | 47 | 41  | 50 | 45 | 40 | 47  | 43 | 39 | 35 |
| 4                                  | 58 | 48 | 41 | 35  | 56 | 47 | 40 | 34  | 44 | 38 | 33 | 42  | 36 | 32 | 29 |
| 5                                  | 53 | 43 | 35 | 30  | 51 | 41 | 34 | 29  | 39 | 33 | 28 | 37  | 32 | 27 | 25 |
| 6                                  | 49 | 38 | 31 | 25  | 47 | 37 | 30 | 25  | 35 | 29 | 24 | 33  | 28 | 24 | 21 |
| 7                                  | 45 | 34 | 27 | 22  | 44 | 33 | 27 | 22  | 32 | 26 | 21 | 30  | 25 | 21 | 19 |
| 8                                  | 42 | 31 | 24 | 20  | 41 | 30 | 24 | 19  | 29 | 23 | 19 | 27  | 22 | 18 | 16 |
| 9                                  | 39 | 29 | 22 | 17  | 38 | 28 | 22 | 17  | 27 | 21 | 17 | 25  | 20 | 16 | 15 |
| 10                                 | 37 | 26 | 20 | 16  | 36 | 26 | 20 | 16  | 24 | 19 | 15 | 23  | 18 | 15 | 13 |

**Zonal Lumen Summary**

| Zone   | Lumens | %Lamp | %Fixture |
|--------|--------|-------|----------|
| 0-30   | 1681   | 14.1  | 18.5     |
| 0-40   | 2870   | 24.1  | 31.5     |
| 0-60   | 5544   | 46.6  | 60.9     |
| 0-90   | 8432   | 70.9  | 92.6     |
| 90-180 | 675    | 5.7   | 7.4      |
| 0-180  | 9107   | 76.5  | 100.0    |

**Candela**

| Angle | Along H | 45°  | Across L |
|-------|---------|------|----------|
| 0     | 2048    | 2048 | 2048     |
| 10    | 2029    | 2024 | 2076     |
| 20    | 1930    | 1987 | 2107     |
| 30    | 1765    | 1943 | 2147     |
| 40    | 1535    | 1854 | 2093     |
| 50    | 1231    | 1664 | 1920     |
| 60    | 845     | 1398 | 1749     |
| 70    | 460     | 1228 | 1572     |
| 80    | 176     | 871  | 1118     |
| 90    | 28      | 489  | 741      |
| 100   | 28      | 254  | 466      |
| 110   | 14      | 93   | 216      |
| 120   | 7       | 54   | 55       |
| 130   | 5       | 36   | 49       |
| 140   | 6       | 17   | 35       |
| 150   | 5       | 7    | 17       |
| 160   | 5       | 4    | 6        |
| 170   | 3       | 3    | 3        |
| 180   | 0       | 0    | 0        |

## ORDERING INFORMATION

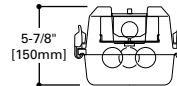
SAMPLE NUMBER: VT2-296T8DR-120V-EB81-WL-U

|  |  |  |  |   |
|--|--|--|--|---|
| <b>Domestic Preferences</b> <sup>(4)</sup><br>[Blank]=Standard<br>BAA=Buy American Act<br>TAA=Trade Agreements Act   | <b>Voltage</b> <sup>(1)</sup><br>120V=120 Volt<br>277V=277 Volt<br>347V=347 Volt<br>UNV=Universal Voltage 120-277 <sup>(2)</sup>           | <b>Ballast Type</b> <sup>(1)</sup><br>EB8 =T8 Electronic Instant Start.<br>Total Harmonic Distortion < 10%<br>No. of Ballast<br>1 or 2<br>EB8 /PLUS= T8 Electronic Instant Start.<br>High Ballast Factor >1.13.<br>Total Harmonic Distortion < 10%<br>No. of Ballast<br>1 or 2<br>ER8 =T8 Electronic Program Rapid Start.<br>Total Harmonic Distortion < 10%<br>No. of Ballast<br>1 or 2<br>EB2 =T12 Electronic Rapid Start.<br>No. of Ballast<br>1 or 2 | <b>Options</b><br>WL=Wet Label<br>TILW=Tandem In-Line Wiring Option (Consult TILW Option Catalog Page)<br>TEH=Top & End Hubs<br>TH=Top Hub Only<br>PI/CPI=Plug-In Option | <b>Packaging</b><br>U=Unit Pack<br>PALC=Palletized Fixtures in Carton |
| <b>Series</b><br>VT2=Vapor-Tite  | <b>Options</b><br>GL=Single Element Fuse<br>GM=Double Element Fuse<br>VT-REM- (specify battery)= Remote Emergency Enclosure <sup>(3)</sup> |  |  |   |
| <b>Number of Lamps</b><br>1=1 Lamp (Not Included)<br>2=2 Lamps (Not Included)  |  |  |  |   |
| <b>Wattage</b><br>96=75WT12 SL (72")<br>96T8=59WT8 SL (96")  |  |  |  |   |
| <b>Lens</b><br>DR=Internal Prismatic Lens/15% DR High Impact Additive (Standard)<br>DR-100=100% High Impact Additive<br>LEX=High Impact Clear<br>Polycarbonate LEXAN Lens/Low Brightness Pattern |  |  |  |   |

**DEEP DIFFUSER**

(Available for 4' Fixture Length)

To Complement Deep Diffuser Depth of 8' Fixture



NOTES: <sup>(1)</sup> Products also available in non-US voltages and frequencies for international markets. <sup>(2)</sup> Not available when specifying emergencies, voltage must be specific. <sup>(3)</sup> Rated for operation up to 30°C. <sup>(4)</sup> Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. <sup>(5)</sup> Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Specifications &amp; dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

**SHIPPING DATA**

| Catalog No.     | Wt.     |
|-----------------|---------|
| VT2-196T8 DR-WL | 35 lbs. |
| VT2-296T8 DR-WL | 35 lbs. |