Metalux

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.

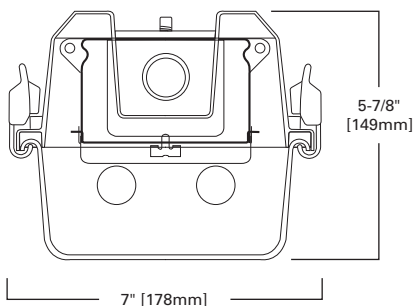| Catalog #		Type
Project		
Comments		Date
Prepared by		

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 thirteen (13) 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. Twelve (12) sturdy cam latches clamp diffuser tightly for a positive seal between housing, gasket 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 minus 20°F. Spring loaded lampholders. Electrical components and fixtures are UL/CUL listed for Wet Locations.**

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: VT2-296HODR-100
"LEX" - High impact clear low brightness pattern polycarbonate. LEXAN
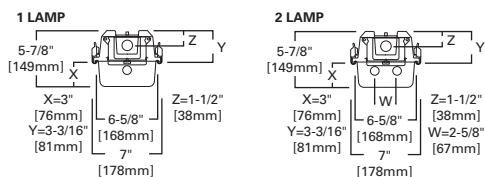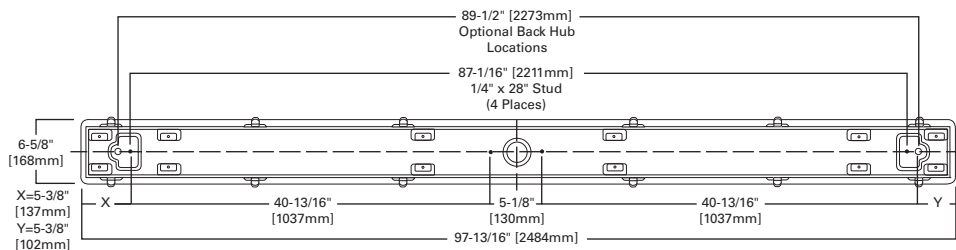Example: VT2-296HOLEX.

5-7/8" [149mm]

7" [178mm]

VT2
196HO
196T8HO
296HO
296T8HO

**8' INDUSTRIAL
1 OR 2 LAMPS HIGH OUTPUT,
800MA**

Vaportite Industrial

LAMP CONFIGURATIONS

1 LAMP
5-7/8" [149mm]
X=3" [76mm]
Y=3-3/16" [81mm]
Z=1-1/2" [38mm]
6-5/8" [168mm]
7" [178mm]

2 LAMP
5-7/8" [149mm]
X=3" [76mm]
Y=3-3/16" [81mm]
Z=1-1/2" [38mm]
W=2-5/8" [67mm]
6-5/8" [168mm]
7" [178mm]

MOUNTING DATA

89-1/2" [2273mm] Optional Back Hub Locations
87-1/16" [2211mm] 1/4" x 28" Stud (4 Places)
6-5/8" [168mm]
X=5-3/8" [137mm]
Y=5-3/8" [102mm]
40-13/16" [1037mm]
5-1/8" [130mm]
40-13/16" [1037mm]
97-13/16" [2484mm]
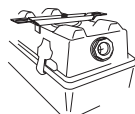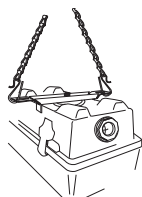
INSTALLATION DATA

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

OPTIONAL CHAN 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

ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
296HO (208)
296HOT8 (160)

STD Ballast & STD Lamps
196HO (82)
296HO (237)
248HO (145)

Luminaire Efficacy Rating
LER = FI-50
Catalog Number: VT2-296HO DR-WL
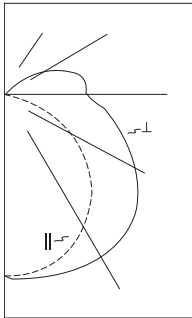**Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH** = $4.80

*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.

EAT·N
Powering Business Worldwide

PHOTOMETRICS

VT2-296HO DR-WL
Energy Saving Ballast

F96T12/CW/HO/EW Lamps
8000 Lumens

Spacing criterion: (II) 1.3 x mounting height, (⊥) 1.6 x mounting height

Efficiency 69.1%

Test Report: VT2296HODRWL.IES

LER = FI-50

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $4.80

Coefficients of Utilization

rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	80	80	80	80	76	76	76	76	71	71	71	65	65	65	60	60	60	58
1	71	66	63	59	67	64	60	57	59	56	54	54	52	50	50	48	47	44
2	63	57	51	47	60	55	50	45	50	46	43	46	43	40	43	40	37	35
3	57	49	43	38	55	47	42	37	44	39	35	40	36	33	37	34	31	29
4	52	43	37	32	50	41	35	31	38	33	29	35	31	28	33	29	26	24
5	48	38	32	27	45	37	31	26	34	29	25	31	27	23	29	25	22	20
6	44	34	28	23	42	33	27	22	31	25	21	28	24	20	26	22	19	18
7	41	31	24	20	39	30	24	20	28	22	19	26	21	18	24	20	17	15
8	38	28	22	18	36	27	21	17	25	20	17	23	19	16	22	18	15	13
9	35	26	20	16	33	25	19	15	23	18	15	21	17	14	20	16	13	12
10	33	23	18	14	31	23	17	14	21	17	13	20	16	13	19	15	12	11

Effective floor cavity reflectance 20%

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1873	11.7	16.9
0-40	3187	19.9	28.8
0-60	6152	38.4	55.6
0-90	9276	58.0	83.9
90-180	1783	11.1	16.1
0-180	11059	69.1	100.0

Candela

Angle	Along ‖	45°	Across ⊥
0	2279	2279	2279
10	2260	2260	2329
20	2144	2229	2354
30	1958	2155	2361
40	1697	2034	2322
50	1360	1834	2182
60	935	1529	1902
70	496	1209	1596
80	176	952	1320
90	23	697	1043
100	20	644	1027
110	9	477	868
120	4	249	588
130	3	87	291
140	4	24	87
150	4	7	21
160	4	3	4
170	3	3	3
180	0	0	0

ORDERING INFORMATION

SAMPLE NUMBER: VT2-296T8HO-120V-WL-U

Series
VT2=Vapor-Tite

Number of Lamps [3]
1 or 2 Lamps
(Not included)

Wattage (Length)
96HO=95/110W T12 (96") HO
96T8HO=86W T8 (96") HO

Lens
DR=Internal Prismatic Lens/15% DR High Impact Additive (Standard)
DR-100=100% High Impact Additive
LEX=High Impact Clear Polycarbonate LEXAN Lens/Low Brightness Pattern

Voltage [1]
120V=120 Volt
277V=277 Volt
347V=347 Volt
UNV=Universal Voltage 120-277 [2]

Options
GL=Single Element Fuse
GM=Double Element Fuse
VT-REM-__(specify battery)=Remote Emergency Enclosure [4]

Ballast Type [1]
EB8_=T8 Electronic Instant Start. Total Harmonic Distortion < 10%
No. of Ballast
1 or 2
EB2_=T12 Electronic Rapid Start.
No. of Ballast
1 or 2

WL=Wet Label

Options
TH=(2) Top Watertite Hubs
TEH=(2) Top & (2) End Watertite Hubs (All Watertite Hubs Have 1/2" Conduit Entry)
TILW=Tandem In-Line Wiring Option (Consult TILW Option Catalog Page)
PI/CPI=Plug-In Option (See options & accessories)

Packaging
U=Unit Pack

NOTES: [1] Products also available in non-US voltages and frequencies for international markets. [2] Not available when specifying emergencies, voltage must be specific.. [3] 3-lamp only available for 32W T8 lamps. [4] Rated for operation up to 30°C.

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

SHIPPING DATA

Catalog No.	Wt.
VT2-196T8HO DR-WL	20 lbs.
VT2-296T8HO DR-WL	20 lbs.