

DESCRIPTION

The VT3 Series is a contemporary looking energy efficient industrial Vaportite fixture that features rugged and durable construction. The VT3 incorporates a full metal gear tray 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 VT3 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.

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 five embossments (2' unit), 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 clamp diffuser tightly for a positive seal between housing, gasketing and diffuser.

Electrical*

Unit has full metal gear tray secured by internal fasteners and tethers providing maximum protection and rigidity. Ballasts are CBM/ETL Class "P" certified suitable to 70°F. (Cold temperature ballasts are available for less than 0°F starting with EHT (T5HO only), EB/PLUS and ER/PLUS ballasts). Rotor lock lampholders. Electrical components and fixture are UL/CUL listed for Wet Locations.** IP65 approved with optional IP67 rating (4' only) with 8 latches. NSF certified.

Shielding

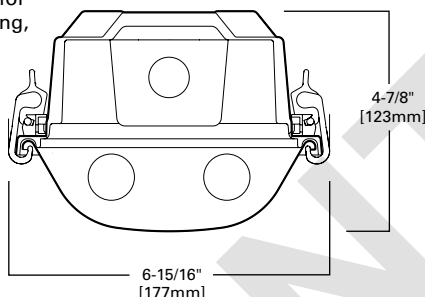
New contemporary styled lens clear acrylic w/impact resistant additives and linear prisms.
"DR" - Clear low brightness pattern acrylic with 15% high impact additive.
"DR-100" - Clear low brightness pattern acrylic with 100% high impact additive.
Example: VT3-232DR-100.

Mounting

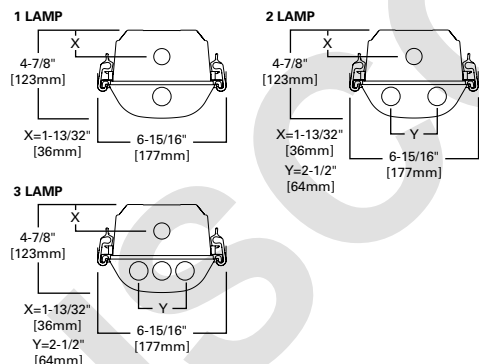
Surface mount fixture using two (2) galvanized brackets (included per 4' section). Optional chain mount hanging set or snap-on brackets are also available.

Compliance

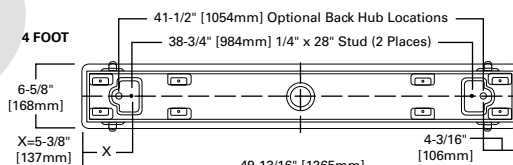
Options to meet Buy American and other domestic preference requirements.



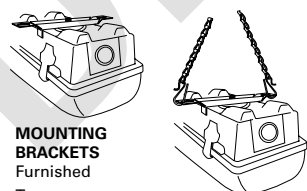
LAMP CONFIGURATIONS



MOUNTING DATA



INSTALLATION DATA



MOUNTING BRACKETS

Furnished
Two per 2' Unit
Four per 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 Two (2) Kits for each 8' Fixture

Relative Light Output Factors

To accurately predict how luminaires will perform in cold temperatures, Cooper Lighting individually tested each configuration in the different ambient environments. The relative light output factor should be applied as an additional light loss factor component.

VT3 Series	-15°F (-26°C)	0°F (-18°C)	20°F (-6°C)	33°F (0°C)	50°F (10°C)
VT3-232	n/a	n/a	0.67	0.97	0.99
VT3-254	0.73	0.76	0.86	0.90	0.94
VT3-332	n/a	n/a	0.96	0.98	0.98
VT3-354	0.91	0.93	n/a	n/a	n/a

Catalog #	Type
Project	
Comments	
Prepared by	



VT3
132
232
332
154T5
254T5
354T5

4' OR 8' INDUSTRIAL
1, 2 OR 3 LAMP

Vaportite Industrial



ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
132 (30)
232 (61)
154T5 (54)
254T5 (106)

Luminaire Efficacy Rating

LER = FL-73

Catalog Number: VT3-232 DR

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$3.29

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

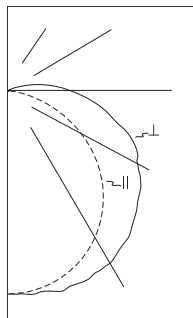
**Not Suitable for Wet Locations if EL4 Option is added. Consult Pre Sales Technical Support.

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

LINEAR DISCONNECT

Safe and convenient means of disconnecting power.

PHOTOMETRICS

**VT3-232DR-UNV-EB81-WL-U**

(1) Electronic Ballasts

(2) 32WT8 lamps
2850 lumensSpacing criterion:
(II) 1.3 x mounting
height, (L) 1.5 x
mounting height
Efficiency 77.4%Test Report:
LTL10864.IES

LER =FL72

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$3.34**Candela**

Angle	Along II	45°	Across L
0	1103	1103	1103
5	1097	1108	1107
10	1083	1107	1106
15	1059	1091	1127
20	1025	1089	1113
25	983	1058	1098
30	932	1035	1088
35	870	991	1052
40	801	952	1024
45	725	892	971
50	640	831	920
55	548	753	878
60	451	683	814
65	352	611	771
70	251	550	698
75	155	471	592
80	77	367	513
85	28	290	427
90	6	217	342

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance 80%				70%				50%				30%				10%				0%			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	91	91	91	91	89	89	89	89	84	84	84	79	79	79	75	75	75	73						
1	82	78	74	70	79	75	72	69	71	68	66	67	65	63	64	62	60	58						
2	74	67	61	56	71	65	60	55	61	57	53	58	54	51	55	52	49	47						
3	67	58	52	46	65	57	51	46	54	49	44	51	47	43	49	45	42	40						
4	61	51	44	39	59	50	43	38	48	42	37	45	40	36	43	39	35	33						
5	56	45	38	32	54	44	37	32	42	36	31	40	34	30	38	33	30	28						
6	51	40	33	28	49	39	32	27	37	31	27	36	30	26	34	29	26	24						
7	47	36	29	24	45	35	28	23	33	27	23	32	27	23	30	26	22	20						
8	43	32	25	20	42	31	25	20	30	24	20	29	23	19	27	23	19	17						
9	40	29	22	17	38	28	22	17	27	21	17	26	20	17	25	20	16	15						
10	37	26	20	15	36	26	19	15	24	19	15	23	18	15	22	18	14	13						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	899	15.8	20.4
0-40	1512	26.5	34.3
0-60	2847	49.9	64.5
0-90	4169	73.1	94.5
0-180	4413	77.4	100.0

Luminance Data

Angle In Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	5519	7213	7212
55	5083	6756	7098
65	4347	6377	7074
75	3001	6097	6510
85	1349	5151	6092

ORDERING INFORMATION

SAMPLE NUMBER: VT3-232DR-UNV-EB81-WL-U

Domestic Preferences ⁽¹⁰⁾
[Blank]=Standard
BAA=Buy
American Act
TAA=Trade
Agreements Act

Tandem
Blank= 4' Length
8T=8' Length

Series
VT3=Vaportite (Gasketed
Enclosure)

Number of Lamps ⁽³⁾
1=1 Lamp
2=2 Lamps
3=3 Lamps
(Lamps not included)

Wattage (Length)
32=32W T8 (48")
28T5=28W T5 (48")
54T5=54W T5HO (48") ⁽³⁾

Lens
DR=Internal Prismatic Lens/15% DR High Impact Additive (Standard)
DR-50=50% High Impact Additive
DR-100=100% High Impact Additive (Extreme)

Voltage ⁽¹⁾
120V=120 Volt
277V=277 Volt
347V=347 Volt
UNV=Universal
Voltage 120/277 ⁽²⁾
UNC=Universal
Voltage 347/480 ⁽⁶⁾

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

Ballast Type ⁽¹⁾
EB8=T8 Electronic Start.
Total Harmonic
Distortion < 10%
EB8_/PLUS=T8 Electronic Start. ⁽⁶⁾
Total Harmonic
Distortion < 10%. High
Ballast Factor > 1.13.
ER8=T8 Electronic Program
Rapid Start. Total Harmonic
Distortion < 10%
ER8_/PLUS=T8 Electronic Program
Rapid Start. Total
Harmonic Distortion <
10%. High Ballast
Factor > 1.15.
EBT=T5/T5HO Electronic
Program Rapid Start.
Total Harmonic Distortion
< 10%. Standard Ballast
Factor=1.0
EHT=T5HO Linear Electronic ⁽³⁾ ⁽⁷⁾
Start High Ambient. Total
Harmonic Distortion < 10%

Number of Ballasts
1=1 Ballast
2=2 Ballasts

**WL=Wet Location
Label**

Options
8L=8 Latches (IP67 Rating),
(4' only)
TH=(2) Top Watertite Hubs ⁽⁵⁾
TEH=(2) Top & (2) End Watertite Hubs
(all Watertite Hubs have 1/2" Conduit Entry) ⁽⁵⁾
BKS=(2) Snap-on Brackets for Chain or
Surface Mount
M4=Specular Reflector
SSL=Stainless Steel Latches
VRS=Vandal Resistant Screws for Latches
GT4=Stock product only ⁽⁸⁾

Accessories (order separately) ⁽¹¹⁾
VT2 Stem Bushing=1/2" - 3/8" (Required
when using Stem/Sets, Requires (1) per
(Stem/Set)
VT2-Chain/Set-U=Chain Hanging Set
Includes 6 ft. of chain, 4 large S-Hooks and 4
small S-Hooks. ⁽⁹⁾
VT2-SS-MBK=Stainless Steel Mounting
Brackets. ⁽⁹⁾
VT3-BKS2-PK=(2) Snap-on Brackets for
Surface or Chain Mount. Adjustable along
length of fixture.
VT3-4FT-M4 PK=4' Specular Interior
Reflector Pack for VT3 (stock product)

SHIPPING DATA

Catalog No.	Wt.
VT3-132 DR-WL	16 lbs.
VT3-232 DR-WL	16 lbs.
VT3-154T5	16 lbs.
VT3-254T5	16 lbs.