

V-51™ Incandescent Luminaires

Enclosed and Gasketed

UNILETS® for use with threaded metal conduit. Fixtures suitable for use in wet locations. ①

NEC:
Class I, Division 2, Groups A, B, C, D

CEC:
Class I, Division 2, Groups A, B, C, D
Class II, Divisions 1 and 2, Groups E, F, G ②
Class III
Enclosure 3R

Applications

- Enclosed and gasketed lighting fixtures for use in storage areas, tunnels, subways, chemical plants and other areas where moisture, dirt or corrosive atmospheres are a problem.
- Suitable for use in wet locations.
- Standard fixtures designed for 60 to 300 W medium base incandescent lamps.
- Available in pendant, 45° stanchion, and a variety of ceiling and wall mountings.

Features

- Furnished with connection block for easy wiring.
- Unitized construction reduces installation and maintenance costs.
- Shock-absorbing porcelain socket for longer lamp life.
- Neoprene rubber ring in neck of reflector snaps into groove of mounting hood – protects against vibration and chipping.
- Guard snaps into two recesses of adapter – no clamps or setscrews.
- Maximum input voltage 150 V.

Standard Materials

- Mounting hoods: malleable iron
- Globe adapters: malleable iron
- Socket: porcelain with brass screw shell
- Globes: glass. Optional globes in polycarbonate plastic 100 W Max
- Guards: steel
- Reflectors: porcelain enamel steel

Standard Finishes

- Malleable iron mounting hood and globe adapter: triple coat – (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Steel guard: zinc electroplate
- Steel reflectors: white porcelain enamel
- Socket and globes: natural finish

Options

- To order fixture with other than standard clear glass globe, add suffix letters to catalog number as indicated in table, and adjust difference in price.

Color	Glass Globe	Plastic Globe
Amber	-AM	-PAM
Blue	-BL	-PBL
Green	-GR	-PGR
Red	-RE	-PRE
Clear Heat-Resistant	-HR	—

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428



Illustrated Features



Cut-Away View

Connection block is easily removed (loosen two screws) to permit quick wiring.



Mounting Hood

Available in pendant (shown), ceiling, wall and 45° stanchion. Pendant has setscrew to prevent fixture from turning on stem.

Neoprene Ring

Neoprene attachment ring secures reflector to mounting hood – no tools needed.

Globe Adapter

When adapter is threaded onto mounting hood, the socket makes electrical contact with connection block in mounting hood. Available in malleable iron (VAD-1M and VAD-2M)

Porcelain Enamel Reflectors

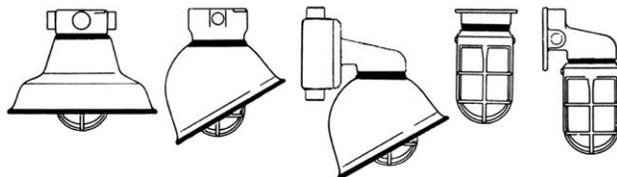
Standard and 30° angle.



Guard

Two sealed ball plunger units snap quickly, easily and securely into cavities of globe adapter. Guard can be used with or without a reflector.

Guard and Reflectors



① With heat-resistant glass globes or plastic globes.

② 300 W PS-25 NOT approved for Class II, Division 1 and 2, Group G; Class III.

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Class I, Division 2, Groups A, B, C, D

Fixture is suitable for Class I, Division 2 where the fixture operating temperature does not exceed the ignition temperature of the atmosphere in which fixture is installed.

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations

Supply Wire: 257 °F/125 °C

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

Class I, Division 2, Groups A, B, C, D

Reflector	60–150 W		200–300 W	
	A-21 100 W	PS-25 150 W	PS-30 200 W	PS-30 300 W
None	T3	T2D	T2C	325
Standard Dome	T2D	T2C	T2B	325
30° Angle	T2C	T2C	T2B	325

Fixture Ambient Suitability: Class I, Division 2, Groups A, B, C, D

Fixture Ambient Suitability: Class II, Groups E, F, G; Class III; Enclosure 4X

Areas	°C	°F	Fixture	Watts
Non-Classified	75	167	A-23	60 to 300
Classified	40	104	PS-30	60 to 300

① With heat-resistant glass globes or plastic globes.

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Malleable Mounting Hood, Adapter and Guard	Type	Lamp Watts	Size (Inches)	All Malleable with Guard ③
Pendant				
	A-21	60-150	1/2	VA1050G-M
			3/4	VA1075G-M
			1	VA1100G-M
			1-1/4	VA1125G-M
	PS-30	150-300	1/2	VA2050G-M
			3/4	VA2075G-M
			1	VA2100G-M
			1-1/4	VA2125G-M
Ceiling — Five Tapped Openings — Four close-up plugs				
	A-21	60-150	1/2	VXHA1050G-M
			3/4	VXHA1075G-M
			1	VXHA1100G-M
			1/2	VXHA2050G-M
	PS-30	150-300	3/4	VXHA2075G-M
			1	VXHA2100G-M
Wall — JB Box Mounting ④ — Fits JB cast outlet box ⑤ — Screws and gasket furnished with fixture				
	A-21	60-150		JBW10G-M
	PS-30	150-300		JBW20G-M
Ceiling — JB Box Mounting ④ — Fits JB cast outlet box ⑤ — Screws and gasket furnished with fixture				
	A-21	60-150		JB10G-M
	PS-30	150-300		JB20G-M

① With heat-resistant glass globes or plastic globes.

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③ To order fixtures without guards, omit -G suffix from catalog number. Order reflectors and accessories separately.

④ 30° angle reflector adaptable for 100 W fixture only, when mounted at least 114.3 mm (4.5") from wall.

⑤ JB cast outlet box is available in the Fitting Section.

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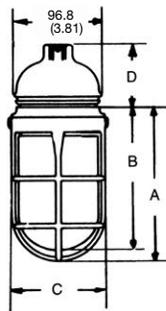
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UNILETS® for use with threaded metal conduit.

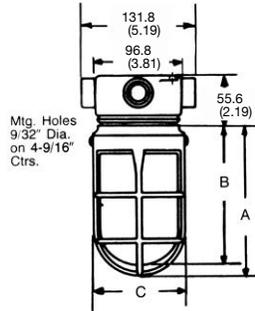
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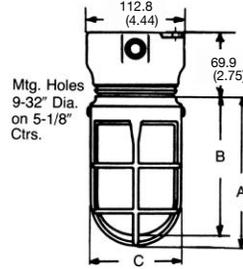
Dimensions in Millimeters (Inches)



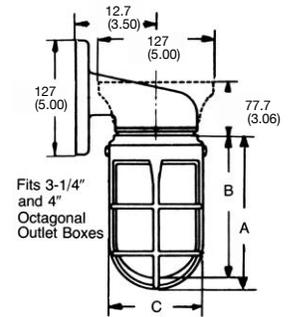
Type VA



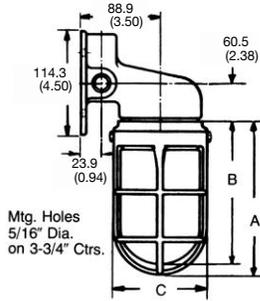
Types V, VC, VT and VX



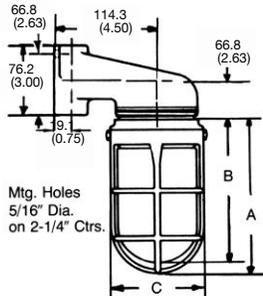
Type VXHA



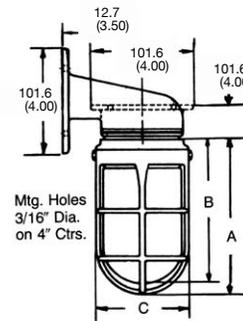
Types OBV and OBVW



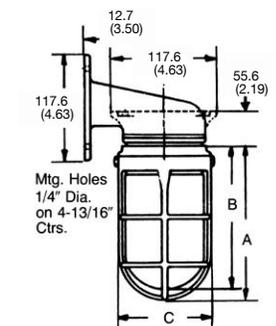
Types VGA and VGAT



Type VD



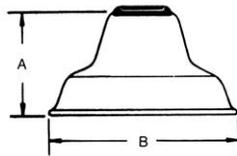
Types JB and JBW



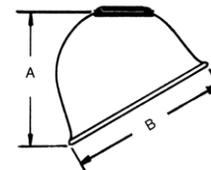
Types GS and GSW

Size	A	B	C	1/2 and 3/4 D	1 and 1-1/4 D
60-150 W	162.1 (6.38)	146.1 (5.75)	106.4 (4.19)	66.8 (2.63)	73.4 (2.89)
150-300 W	241.3 (9.50)	219.2 (8.63)	144.5 (5.69)	66.8 (2.63)	73.4 (2.89)

Reflectors



Standard Dome



30 Angle

Size	Standard Dome		30 Angle	
	A	B	A	B
60-150 W	157.2 (6.19)	304.8 (12.00)	205.5 (8.09)	254.0 (10.00)
150-300 W	225.6 (8.88)	406.4 (16.00)	294.4 (11.59)	304.8 (12.00)

© 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

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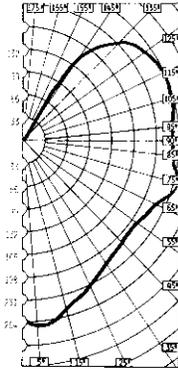
UNILETS® for use with threaded metal conduit. Full-size photometric data available for all V-51® fixtures on request.

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Photometric Data

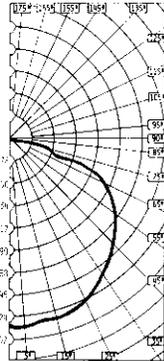
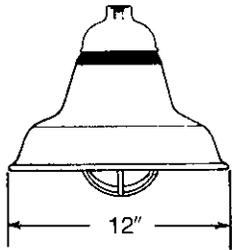
Without Reflector



Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	Effective Floor Cavity Reflectance (Rfc) is 20%																
	80		70		50		30		10		0						
% Walls Rw	50	30	10	50	30	10	50	30	10	50	30	10	0				
ROOM CAVITY RATIOS	1	.815	.765	.721	.755	.711	.668	.642	.608	.577	.539	.513	.489	.444	.424	.406	.360
	2	.690	.619	.558	.639	.575	.521	.542	.492	.449	.452	.414	.380	.370	.341	.315	.273
	3	.595	.515	.450	.551	.478	.421	.467	.410	.362	.388	.344	.307	.316	.282	.252	.215
	4	.523	.439	.374	.485	.409	.350	.411	.351	.303	.343	.296	.257	.279	.242	.212	.178
	5	.457	.376	.313	.426	.350	.292	.362	.300	.254	.302	.253	.215	.246	.208	.177	.147
	6	.409	.326	.266	.378	.303	.248	.322	.261	.215	.269	.220	.183	.220	.180	.150	.123
	7	.364	.283	.229	.338	.264	.213	.288	.226	.184	.240	.192	.155	.198	.158	.128	.104
	8	.329	.251	.197	.305	.234	.185	.260	.202	.160	.220	.171	.136	.179	.141	.112	.090
	9	.298	.223	.171	.277	.208	.161	.237	.180	.140	.199	.152	.119	.164	.126	.098	.078
	10	.271	.198	.152	.251	.187	.142	.216	.161	.123	.182	.137	.104	.151	.113	.086	.068

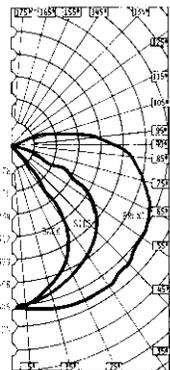
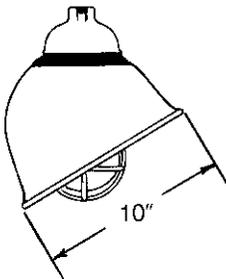
Standard Dome



Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	Effective Floor Cavity Reflectance (Rfc) is 20%																
	80		70		50		30		10		0						
% Walls Rw	50	30	10	50	30	10	50	30	10	50	30	10	0				
ROOM CAVITY RATIOS	1	.803	.772	.744	.784	.756	.731	.750	.726	.706	.718	.701	.683	.691	.675	.661	.645
	2	.705	.656	.614	.690	.645	.608	.661	.624	.591	.636	.605	.576	.612	.586	.562	.546
	3	.618	.558	.511	.606	.550	.506	.583	.535	.495	.560	.520	.486	.540	.506	.476	.460
	4	.549	.484	.434	.538	.478	.430	.518	.465	.423	.499	.454	.417	.482	.442	.410	.393
	5	.485	.416	.366	.475	.411	.363	.459	.401	.359	.442	.392	.354	.427	.384	.349	.333
	6	.431	.362	.314	.423	.358	.310	.408	.350	.307	.394	.343	.304	.382	.335	.299	.284
	7	.384	.316	.270	.377	.311	.267	.364	.304	.263	.351	.299	.260	.341	.294	.257	.242
	8	.347	.281	.234	.340	.278	.233	.329	.272	.231	.319	.267	.229	.309	.262	.226	.212
	9	.314	.249	.204	.309	.246	.204	.299	.242	.202	.289	.237	.200	.281	.233	.198	.184
	10	.284	.221	.181	.279	.221	.181	.271	.216	.179	.263	.212	.176	.257	.209	.174	.161

30° Angle



Photometric data shown on this page is based on a 150 Watt PS-25 lamp and is representative of the performance for all V-51 incandescent fixtures. For candlepower values of fixtures with other lamps, multiply the given candlepower values by the following multipliers: for 60 W – A19 X 0.33; for 75 W – A19 X 0.45; for 100 W – A19 X 0.66; for 200 W – PS25 X 1.44; and for 300 W – PS30 X 2.32. For candlepower values of fixture with guard, multiply by 0.90.

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