

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

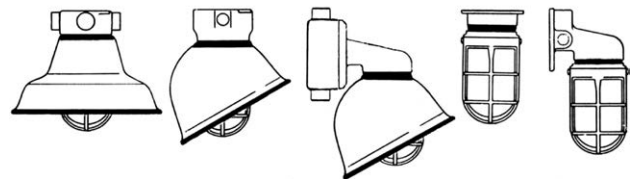
Standard and 30° angle.



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.

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

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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Description	Hub Size (Inches)	Catalog Numbers Malleable Iron
Pendant and Ceiling Mounting Hoods — Furnished with connection block, gasket and screws		
Pendant Mounting		
	1/2	VA50
	3/4	VA75
	1	VA100
	1-1/4	VA125
Dead-End — Ceiling Mounting		
	1/2	V50
	3/4	V75
Feed-Thru — Ceiling Mounting		
	1/2	VC50
	3/4	VC75
Three Hubs — Ceiling Mounting		
	1/2	VT50
	3/4	VT75
Four Hubs — Ceiling Mounting		
	1/2	VX50
	3/4	VX75
Five Hubs — Ceiling Mounting ③		
	1/2	VXHA50
	3/4	VXHA75
	1	VXHA100
Wall and Stanchion Mounting Hoods — Furnished with connection block, gasket and screws		
One Opening — Wall Mounting ④ — 1 tapped hole in center of flange		
	1/2	VGA50
	3/4	VGA75
Feed-Thru — Wall Mounting ④ — 2 tapped vertical feed-thru hubs		
	1/2	VD50
	3/4	VD75
Three Hubs and One Opening — Wall Mounting ④ — 3 hubs plus 1 tapped opening in center of flange		
	1/2	VGAT50
	3/4	VGAT75

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

③ Four close-up plugs furnished.

④ Mounting hoods for wall installations can only be used with 30° angle reflectors.

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INCANDESCENT/AREA: NEC/CEC ENCLOSED AND GASKETED

Wall	Ceiling	Type	Catalog Numbers Malleable Iron	
Wall and Ceiling Outlet Box Mounting Hoods				
		SEH ③ and 3-1/4" or 4" Octagonal Outlet Box Mounting ④ for Non-Classified Areas Only Wall ⑤ Ceiling	0BVW1 0BV1	
		GS Round Base Outlet Box Mounting – Form 20 ③ Wall ⑤ Ceiling	GSW2 GS2	
		JB Round Base Outlet Box Mounting ③ Wall ⑤ Ceiling	JBW1 JB1	
A21	PS30	Type	Lamp Watts	Catalog Numbers Malleable Iron
Fixture Units				
		Adapter/Socket, Globe and Guard A21 PS30	60-150 150-300	VU100M VU200M
		Adapter/Socket and Globe A21 PS30	60-150 150-300	VU100MLG VU200MLG
		Adapter/Socket A21 PS30	60-150 150-300	VAD-1M ⑥ VAD-2M ⑥

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

③ Cast outlet boxes and gaskets are available in the Fitting Section. Screws, gasket and adapter plate furnished with fixture mounting hood.

④ Octagonal outlet boxes are available in the Commercial Fitting Section. Screws, gasket and adapter plate furnished with fixture mounting hood.

⑤ Mounting hoods for wall installations can only be used with 30° angle reflectors.

⑥ Accepts steel wire guard only





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		Type	Lamp Watts	Catalog Numbers	
				Glass — 60–150 W	Polycarbonate – 100 W Max. ③
Glass and Polycarbonate Globes — 60-150 W					
		Clear		VGL-1CL	VPG-1CL
		Amber		VGL-1AM	VPG-1AM
		Blue		VGL-1BL	VPG-1BL
		Green		VGL-1GR	VPG-1GR
		Opal		VGL-1OP	—
		Red		VGL-1RE	VPG-1RE
60 W–150 W Glass	100 W Polycarbonate	Clear Heat-Resistant		VGL-1HR	—
Glass Globes — 150-300W					
		Clear		VGL-2CL	—
		Amber		VGL-2AM	—
		Blue		VGL-2BL	—
		Green		VGL-2GR	—
		Opal		VGL-2OP	—
		Red		VGL-2RE	—
		Clear Heat-Resistant		VGL-2HR	—
Steel Wire Guards ④					
		A21 ⑤	60-150		VWG-1
		PS30 ⑥	150-300		VWG-2
					VWG-1

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.
 ③ Do not use in ambients exceeding +25° C (+77 °F). For burning in base-up position only.
 ④ Cannot be used with polycarbonate globes.
 ⑤ Fits VAD-1M Adapter
 ⑥ Fits VAD-2M Adapter

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INCANDESCENT/AREA: NEC/CEC ENCLOSED AND GASKETED

Description	Type	Lamp Watts	Catalog Number
Porcelain Reflectors — Furnished with neoprene attaching ring			
Standard Dome			
	A21	60-150	VRW-1ST
	PS30	150-300	VRW-2ST
30° Angle			
	A21	60-150	VRW-1AN
	PS30	150-300	VRW-2AN
Replacement Reflector Attaching Ring — Neoprene			
			VPT-8
Connection Block			
			VPT-7
Lamp Socket — Medium Base			
			VPT-1AV
Gasket for Lamp Socket and 60-150 W Globe			
			VPT-2
Gasket for 150-300 W Globe			
			VPT-3
Gasket for Mounting Hood			
			VPT-4

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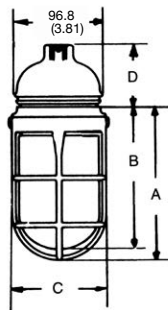
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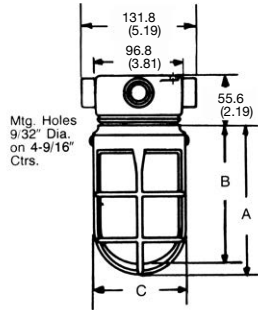
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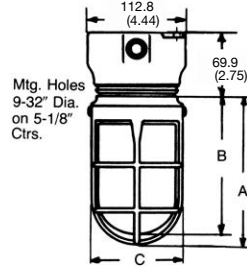
Dimensions in Millimeters (Inches)



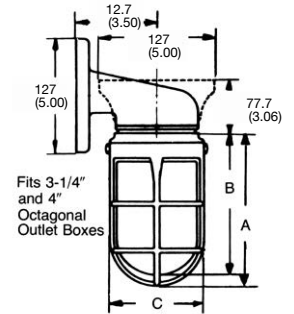
Type VA



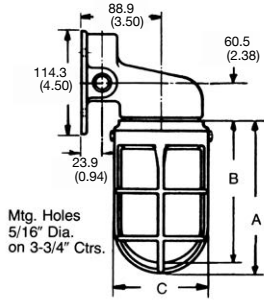
Types V, VC, VT and VX



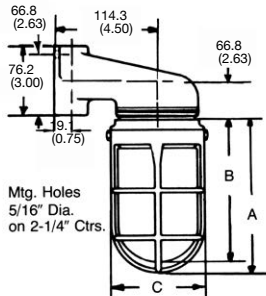
Type VXHA



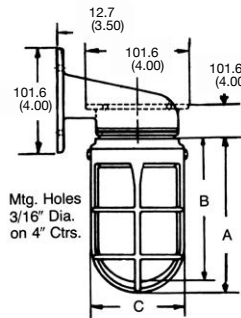
Types OBV and OBVW



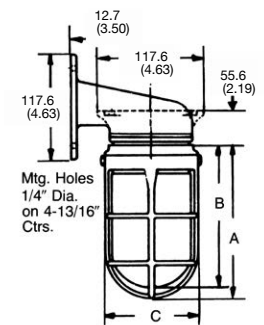
Types VGA and VGAT



Type VD



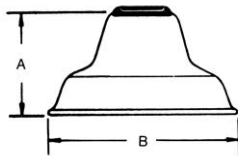
Types JB and JBW



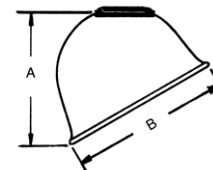
Types GS and GSW

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)

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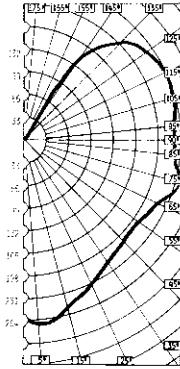
UNILETS® for use with threaded metal conduit. Full-size photometric data available for all V-51® fixtures on request.

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Photometric Data

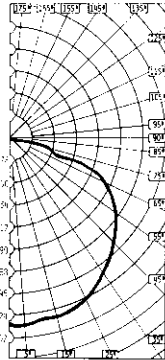
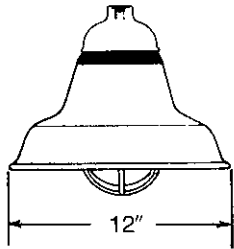
Without Reflector



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

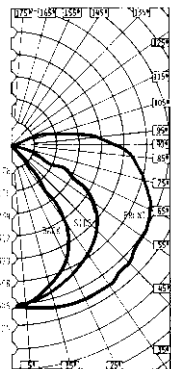
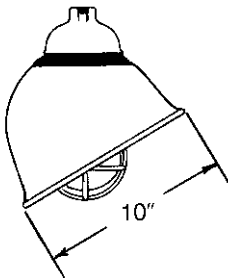
Standard Dome



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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