

Applications:

- Vaporgard series incandescent luminaires are used:
- Indoors or outdoors in industrial locations where enclosed and gasketed fixtures are required
 - In tunnels, building entrances and similar locations, where moisture, dirt, chemicals, vibration or rough usage are a problem
 - For flush or surface mounting on ceiling or wall; pendant or in conduit systems; with or without a cast outlet box

Features:

- Designed to exclude dirt, moisture and corrosive vapors from the interior of the luminaires and the conduit system
- There are no screws to remove as the shock-absorbing socket strap is keyhole slotted and removes quickly for ease of wiring
- The glass globe-guard assembly is installed and/or removed as a unit, making it necessary to handle only one piece in relamping
- There are no crevices to accumulate a dirt or dust build-up and fixture has an attractive finish with a smooth, dust and dirt shedding design
- Configured glass globe has vertical fluting and stippled bottom which provides for more even light distribution and glare elimination
- For non-hazardous locations, shatterproof plastic polycarbonate globes are available for use with the 200 watt series
- Reversible offset socket mounting strap permits use of various size lamps while holding light center in same position for maximum light output and efficiency
- Shock absorbing medium base lamp socket

- Krydon® fiberglass-reinforced polyester reflectors:
- Reflectance is equivalent to the finest porcelain enamel
 - Cannot corrode – no enamel to chip and rust
 - Ultraviolet inhibitors are incorporated in the material to prevent discoloration and brittleness

Certifications and
Compliances:

- Wet locations
- NEC/CEC:
 - Class I, Division 2
- UL Standard: 1598
- CSA Standard: C22.2 No. 9
- UL/CSA Fixture Fitting

Standard Materials:

- Bodies and guards – copper-free aluminum
- Globes
 - Heat and impact resistant tempered glass
 - Colored glass non-tempered (G55, G56, G57, G58)
 - Plastic polycarbonate (G63, G65, G67)
- Reflectors – Krydon® fiberglass-reinforced polyester

Standard Finishes:

- Bodies and guards – epoxy powder coat
- Krydon material – high reflectance white

Options:

The following options are available from the factory by adding suffix to fixture Cat. No.:

Description	Suffix
• Teflon coating on globe for increased shatter protection (G24 globe 200 watt series only)	S808
• 250V nameplate for export applications.....	/250
• Plastic polycarbonate globe	see page 894

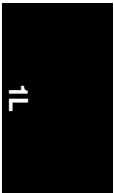
Ratings (Electrical/Size):

- Up to 300 watt, PS-30 medium base lamp
- ½" to 1¼" hubs
- 120V nameplate is standard – for NEC compliance
- 250V nameplate is optional. Supplied when ordered with suffix: /250

Class I, Division 2
Temperature

Performance Data:
(Based on 40°C ambient)

Lamp Watts	T-Number	Supply Wire °C
150	T2A	150°C
200	T2B	200°C
300	T2B	150°C



1L

VAPORGARD™ Incandescent Luminaires

Enclosed and Gasketed

Cl. I, Div. 2, Groups A, B, C, D
Wet Locations
NEMA 3, 3R

Pendant Mount – VDA Series



Hub Size	Series	Max. Lamp Size	Complete Cat. # with globe/guard	Luminaire Components Cat. #s		
				Pendant Body	Globe	Guard
1/2"	150	150 watt A-21	VDA15GP	VDA15	G54	P50
3/4"	150		VDA25GP	VDA25	G54	P50
1"	150		VDA35GP	VDA35	G54	P50
1/2"	200	200 watt A-23	VDA12GP	VDA12	G24	P21
3/4"	200		VDA22GP	VDA22	G24	P21
1"	200		VDA32GP	VDA32	G24	P21
1/2"	300	300 watt PS-25 & PS-30	VDA13GP	VDA13	G34/G251	P22
3/4"	300		VDA23GP	VDA23	G34/G251	P22
1"	300		VDA33GP	VDA33	G34/G251	P22

Thru-Feed – VDC Series



Hub Size	Series	Max. Lamp Size	Complete Cat. # with globe/guard	Luminaire Components Cat. #s		
				Thru-Feed Body	Globe	Guard
1/2" or 3/4"	150	150 watt A-21	VDC25GP	VDC25	G54	P50
1/2" or 3/4"	200	200 watt A-23	VDC22GP	VDC22	G24	P21
1/2" or 3/4"	300	300 watt PS-25 & PS-30	VDC23GP	VDC23	G34/G251	P22

Ceiling Mount for Recessed 4" Round Box – VXH Series



Series	Max. Lamp Size	Complete Cat. # with globe/guard	Luminaire Components Cat. #s		
			Lamp Socket Body	Globe	Guard
150	150 watt A-21	VXH15GP	VXH15	G54	P50
200	200 watt A-23	VXH12GP	VXH12	G24	P21
300	300 watt PS-25 & PS-30	VXH13GP	VXH13	G34/G251	P22

Ceiling Mount with Junction Box – VXHF Series



Hub Size	Series	Max. Lamp Size	Complete Cat. # with globe/guard	Luminaire Components Cat. #s			
				Lamp Socket Body	Globe	Guard	Junction Box
1/2" or 3/4"	150	150 watt A-21	VXHF25GP	VXH15	G54	P50	VXF20
1/2" or 3/4"	200	200 watt A-23	VXHF22GP	VXH12	G24	P21	VXF20
1/2" or 3/4"	300	300 watt PS-25 & PS-30	VXHF23GP	VXH13	G34/G251	P22	VXF20

Note: All fixtures supplied with 1/2" reducers, except for pendant mount.

VAPORGARD™ Incandescent Luminaires

Cl. I, Div. 2, Groups A, B, C, D
Wet Locations
NEMA 3, 3R

1L

Enclosed and Gasketed

Wall Mount – VXHT Series



Hub Size	Series	Max. Lamp Size	Complete Cat. # with globe/guard	Luminaire Components Cat. #s Wall Bracket Mounting Module Body Globe Guard			
1/2 or 3/4"	150	150 watt A-21	VXHT25GP	VXT20	VXH15	G54	P50
1/2 or 3/4"	200	200 watt A-23	VXHT22GP	VXT20	VXH12	G24	P21
1/2 or 3/4"	300	300 watt PS-25 & PS-30	VXHT23GP	VXT20	VXH13	G34/G251	P22

Wall Mount – Adapter Kit

Description	Cat. #
Mounts wall mount VXHT Series to a 4" Round Box	VXT K1

Wall Mount with Junction Box – VXHBF Series



Hub Size	Series	Max. Lamp Size	Complete Cat. # with globe/guard	Luminaire Components Cat. #s Wall Bracket Mounting Module Body Globe Guard Junction Box				
1/2 or 3/4"	150	150 watt A-21	VXHBF25GP	VXT20	VXH15	G54	P50	VXF20
1/2 or 3/4"	200	200 watt A-23	VXHBF22GP	VXT20	VXH12	G24	P21	VXF20
1/2 or 3/4"	300	300 watt PS-25 & PS-30	VXHBF23GP	VXT20	VXH13	G34/G251	P22	VXF20

Stanchion Mount – VXHA Series



Hub Size	Series	Max. Lamp Size	Complete Cat. # with globe/guard	Luminaire Components Cat. #s Stanchion Mounting Module Body Globe Guard			
1 1/4"		150 watt A-21	VXHA45GP	VXA4	VXH15	G54	P50
1 1/4"		200 watt A-23	VXHA42GP	VXA4	VXH12	G24	P21
1 1/4"		300 watt PS-25 & PS-30	VXHA43GP	VXA4	VXH13	G34/G251	P22

Note: All fixtures supplied with 1/2" reducers, except for pendant mount.

1L VAPORGARD™ Incandescent Luminaires

Parts and Accessories

Medium Base Lamp Receptacle with Strap Shock Absorbing



Description	Cat. #
Shock Absorbing Medium Base Lamp Receptacle with Strap	V84

Reflectors



Dome



30° Angle

Max. Lamp Size	Dome Cat. #	30° Angle Cat. #
150 watt, A-21	RD64	RA64
200 watt, A-23, A-25, PS-25 and 300 watt, PS-30	RD71	RA71

VXFT – 5 Hubs, 4 Plugs



Hub Size (In.)	Cat. #
1/2	VXFT10
3/4	VXFT20

For use when rear wiring entry is required.
Use in lieu of VXF10 or VXF20.

Globes† and Guards



150 and 200W globe



300W globe

Color	Max. Lamp Size		
	150 Watt, A-21 Cat. #	200 Watt, A-23, A-25, PS-25 Cat. #	300 Watt, PS-25, PS-30 Cat. #
Clear (heat-resisting)	G54	G24	G34G251
Green	G55*	G25	
Blue	G56*	G26	
Red	G57*	G27	
Amber	G58*	G28	

Guards for Glass Globes (Not for use with plastic globes)



Guard P50 and P21



Guard P22

Max. Lamp Size	Cat. #
150 watt, A-21	P50
200 watt, A-23, A-25, PS-25	P21
300 watt, PS-30 (with G251 only)	P22

Plastic Globes



Shatterproof polycarbonate plastic globe†

Applications:

For use in:

- Food processing plants and canneries, dairies, breweries and bakeries
- Emergency lighting

Features:

- Shatterproof, which precludes contamination of food products with broken particles of glass
- Designed to comply with U.S. Dept. of Agriculture specification for food processing plants
- Provides protection against vandalism, with resultant lower replacement and maintenance costs
- Particularly adaptable for use on emergency police or fire alarm boxes
- Same size as G24 series glass globes. Existing installations can be changed to plastic globes simply by replacing globe
- For use with 200 watt series luminaires such as VDA22, etc.
- For use without guard

Color	Max. Wattage, Lamp Size	Cat. #
Natural	200 watt, A-23	G63
Green	200 watt, A-23	G65
Red	200 watt, A-23	G67

Note: Polycarbonate globes for non-hazardous locations only.

Mounting Adapter Kit



VXT-K1

Description	Cat. #
Allows for the mounting of non-Eaton's Crouse-Hinds outlet boxes to the VXT20 wall mount bracket and VXH ceiling mount bracket	VXT K1

†Prior to wash-down, globes must be cool.

‡Lamp must be mounted in vertical position base up to 45°C (stanchion) only.

*With G55, G56, G57, G58 color globes, maximum lamp size is 60 watt for outdoor applications.

§G24 is available with a TEFLON® coating for increased shatter protection by adding suffix S808 (stanchion) only.

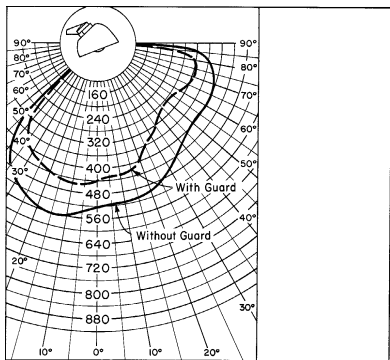
■Globe G251 required when guard P22 is used. Use globe G34 when guard is not used.

‡All glass globes are configured type, having fluted side and stippled bottom.



Luminaire VXHA45GPRA

Lamp: 150W/A-21
Total Bare Lamp Lumens: 2850



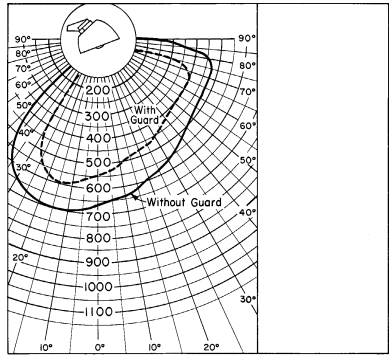
Measurements taken from A-A' plane.



	Total Lumens	Eff. %
With Guard	1490	52.3
Without Guard	1881	66.0

Luminaire VXHA42GPRA

Lamp: 300W/PS-30
Total Bare Lamp Lumens: 6300



Measurements taken from A-A' plane.

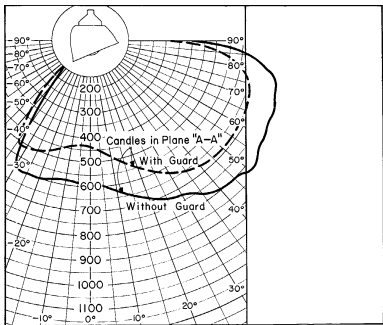


	Total Lumens	Eff. %
With Guard	3630	57.6
Without Guard	4271	67.8

Luminaire With Globe, 30° Angle Reflector and With or Without Guard

Lamp: 100W/A-21 through 200W/A-23
Total Bare Lamp Lumens: 4000

All data provided is for 200W/A-23 incandescent lamp. Use following candlepower/lumen multipliers for other lamp sizes:
100W 0.42; 150 W0.7



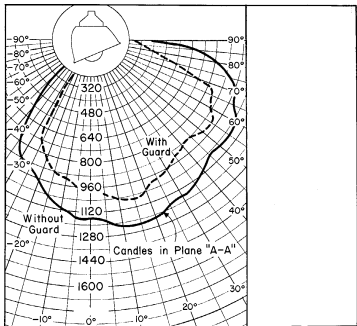
Measurements taken from A-A' plane.



Lamp Size	Without Guard		With Guard	
	Total Lumens	Eff. %	Total Lumens	Eff. %
100W	1141		949	
150W	1890		1582	
200W/A-23	2700	67.5	2260	56.5
200W/PS-25	2174		1819	

Luminaire With Globe, 30° Angle Reflector and With or Without Guard

Lamp: 300W/PS-30
Total Bare Lamp Lumens: 6000



Measurements taken from A-A' plane.

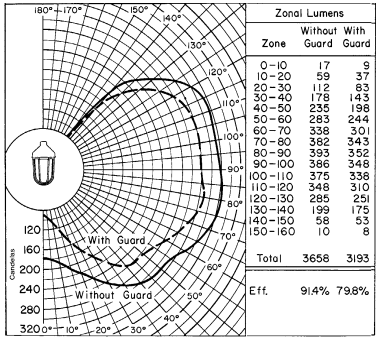


	Total Lumens	Eff. %
With Guard	3360	56.0
Without Guard	3954	65.9

Lamp: 100W/A-21 through 200W/PS-25
Total Bare Lamp Lumens: 4000

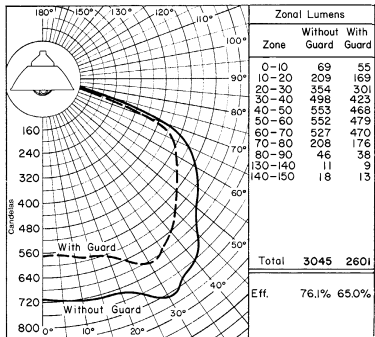
All data provided is for 200W/A-23 incandescent lamp. Use following candela/lumen multipliers for other lamp sizes:
100W 0.42; 150W 0.7; 200W/PS-25 0.82

Luminaire With Globe and With or Without Guard



Example: Zonal Lumens for 200W/A-23 lamp with guard for 0-40° is 272 Zonal Lumens for 150W lamp with guard for 0-40° is 272 x 0.7 = 190.

Luminaire With Globe, Dome Reflector and With or Without Guard



Example: Zonal Lumens for 200W/A-23 lamp with guard for 0-40° is 948 Zonal Lumens for 150W lamp with guard for 0-40° is 948 x 0.7 = 664.

Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

% Reflectance		Room Cavity Ratio					
Eff. Ceil.	Wall	1	2	3	4	5	
80	50	.654	.549	.471	.407	.353	
	30	.608	.486	.400	.333	.282	
	10	.567	.432	.345	.277	.228	
70	50	.603	.506	.434	.375	.326	
	30	.563	.449	.370	.309	.260	
	10	.523	.401	.320	.257	.211	
50	50	.509	.424	.363	.312	.273	
	30	.477	.380	.313	.260	.220	
	10	.449	.341	.271	.218	.179	
30	50	.422	.349	.297	.255	.223	
	30	.399	.315	.259	.214	.180	
	10	.376	.285	.225	.180	.147	
10	50	.343	.280	.237	.202	.176	
	30	.324	.253	.206	.170	.142	
	10	.307	.230	.180	.143	.115	
% Reflectance		Room Cavity Ratio					
Eff. Ceil.	Wall	6	7	8	9	10	
80	50	.315	.279	.249	.226	.201	
	30	.244	.210	.183	.162	.140	
	10	.193	.164	.137	.118	.100	
70	50	.289	.257	.230	.208	.185	
	30	.225	.194	.170	.150	.130	
	10	.177	.150	.127	.110	.093	
50	50	.242	.215	.192	.175	.156	
	30	.189	.163	.143	.126	.109	
	10	.150	.126	.106	.092	.077	
30	50	.198	.175	.158	.143	.128	
	30	.155	.134	.116	.103	.088	
	10	.123	.102	.086	.075	.061	
10	50	.157	.140	.124	.114	.101	
	30	.122	.106	.091	.080	.068	
	10	.096	.080	.066	.057	.045	

Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

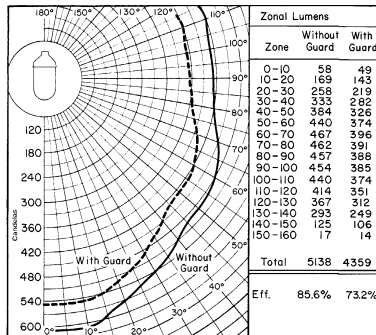
% Reflectance		Room Cavity Ratio					
Eff. Ceil.	Wall	1	2	3	4	5	
80	50	.604	.522	.454	.395	.347	
	30	.576	.480	.404	.340	.290	
	10	.552	.444	.364	.298	.248	
70	50	.591	.512	.445	.387	.339	
	30	.565	.472	.398	.336	.286	
	10	.543	.440	.361	.296	.246	
50	50	.564	.490	.428	.372	.327	
	30	.544	.457	.387	.327	.280	
	10	.526	.428	.354	.292	.245	
30	50	.541	.470	.411	.358	.315	
	30	.525	.444	.377	.319	.273	
	10	.509	.419	.348	.288	.241	
10	50	.521	.452	.396	.345	.304	
	30	.507	.429	.367	.311	.268	
	10	.494	.409	.342	.283	.238	
% Reflectance		Room Cavity Ratio					
Eff. Ceil.	Wall	6	7	8	9	10	
80	50	.309	.274	.244	.222	.193	
	30	.253	.220	.192	.170	.142	
	10	.214	.184	.155	.135	.110	
70	50	.303	.270	.241	.219	.189	
	30	.250	.217	.191	.168	.142	
	10	.211	.181	.154	.135	.110	
50	50	.291	.260	.232	.211	.184	
	30	.245	.212	.186	.166	.139	
	10	.209	.179	.153	.134	.109	
30	50	.281	.250	.225	.204	.178	
	30	.239	.209	.182	.162	.136	
	10	.207	.177	.152	.133	.107	
10	50	.272	.243	.217	.198	.173	
	30	.234	.205	.179	.159	.134	
	10	.205	.175	.150	.131	.106	

1L VAPORGARD™ Incandescent Luminaires

Photometric Data

Lamp: 300W/PS-30
Total Bare Lamp Lumens: 6000

Luminaire With Globe Only

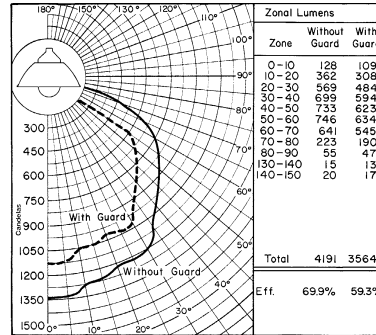


Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

% Reflectance	Room Cavity Ratio				
	Eff. Ceil.	Wall	1	2	3
80	50	.692	.582	.499	.431
	30	.644	.515	.425	.354
	10	.602	.459	.367	.295
70	50	.636	.534	.458	.396
	30	.594	.475	.392	.327
	10	.552	.425	.339	.273
50	50	.532	.444	.380	.327
	30	.500	.398	.328	.272
	10	.470	.358	.285	.229
30	50	.437	.362	.308	.264
	30	.412	.326	.268	.222
	10	.389	.295	.234	.186
10	50	.350	.285	.241	.205
	30	.331	.258	.210	.172
	10	.313	.235	.183	.145
% Reflectance	Room Cavity Ratio				
	Eff. Ceil.	Wall	6	7	8
80	50	.333	.295	.263	.238
	30	.258	.223	.194	.170
	10	.205	.173	.145	.125
70	50	.305	.271	.241	.219
	30	.238	.204	.178	.157
	10	.188	.158	.133	.115
50	50	.253	.224	.200	.181
	30	.198	.170	.148	.131
	10	.157	.132	.110	.095
30	50	.204	.180	.162	.146
	30	.160	.138	.119	.105
	10	.127	.105	.088	.075
10	50	.158	.141	.124	.114
	30	.123	.106	.091	.080
	10	.096	.079	.066	.055

Luminaire With Globe and Dome Reflector

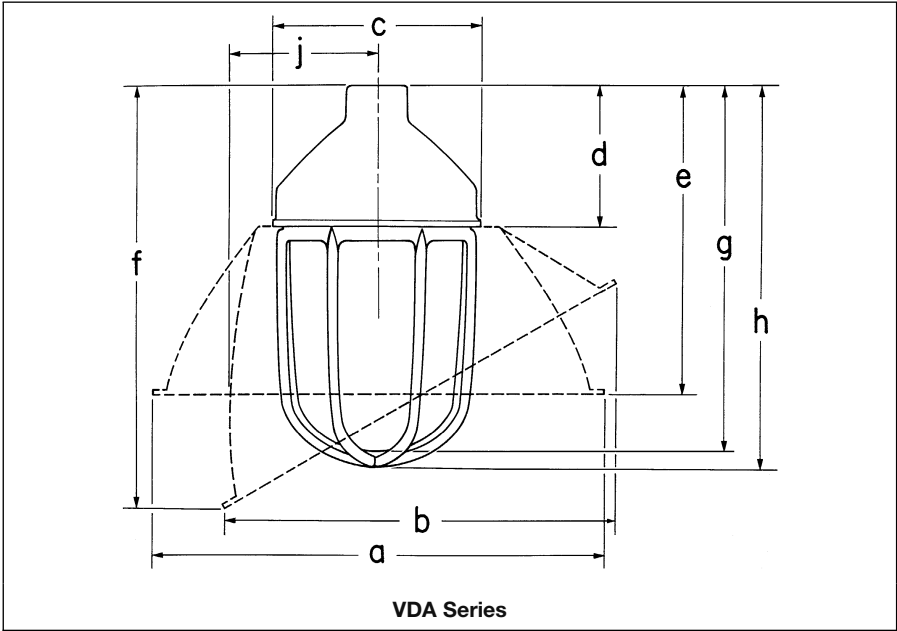


Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

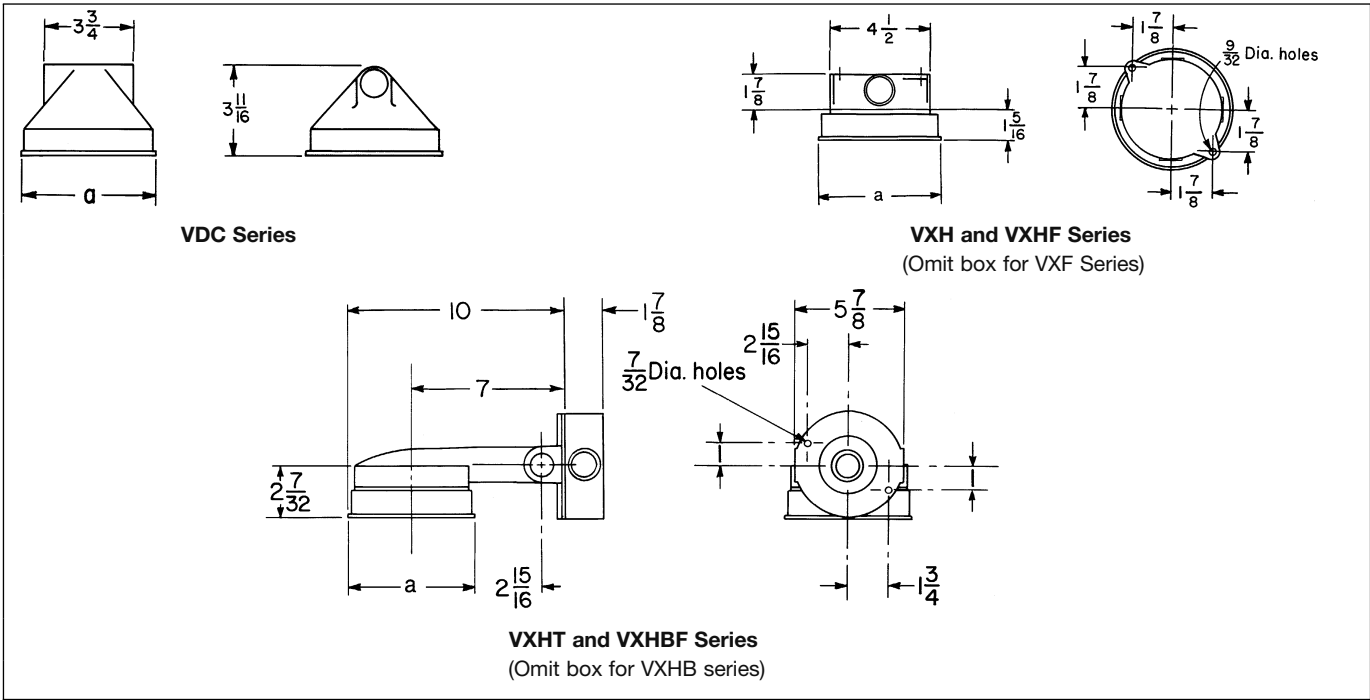
% Reflectance	Room Cavity Ratio				
	Eff. Ceil.	Wall	1	2	3
80	50	.766	.671	.587	.514
	30	.734	.621	.528	.448
	10	.706	.579	.482	.398
70	50	.750	.657	.577	.505
	30	.720	.610	.521	.444
	10	.694	.573	.477	.395
50	50	.717	.630	.555	.485
	30	.693	.592	.507	.432
	10	.672	.558	.468	.390
30	50	.688	.606	.535	.468
	30	.670	.575	.494	.422
	10	.651	.546	.460	.385
10	50	.663	.584	.516	.452
	30	.647	.557	.482	.412
	10	.632	.534	.452	.379
% Reflectance	Room Cavity Ratio				
	Eff. Ceil.	Wall	6	7	8
80	50	.404	.360	.322	.293
	30	.337	.294	.258	.229
	10	.289	.250	.212	.185
70	50	.397	.354	.317	.288
	30	.333	.290	.256	.227
	10	.285	.246	.211	.185
50	50	.383	.342	.306	.279
	30	.326	.284	.250	.223
	10	.283	.244	.209	.184
30	50	.371	.330	.297	.270
	30	.320	.280	.245	.218
	10	.281	.241	.208	.182
10	50	.359	.322	.288	.262
	30	.313	.275	.241	.215
	10	.277	.239	.206	.180

Dimensions



Dimensions in Inches

	150 watt, A-21	200 watt, PS-25	300 watt, PS-30
a	12 ⁷ / ₈	16 ⁷ / ₈	16 ⁷ / ₈
b	11 ¹ / ₈	14 ⁵ / ₈	14 ⁵ / ₈
c	5 ³ / ₈	6	6
d	3 ¹³ / ₁₆	4	4
e	8 ⁷ / ₁₆	9 ¹ / ₈	9 ¹ / ₈
f	12	14	14
g	8 ¹³ / ₁₆	10 ¹ / ₂	12
h	9	10 ¹³ / ₁₆	13 ¹ / ₈
j	4 ¹ / ₂	6 ¹¹ / ₁₆	6 ¹¹ / ₁₆



Dimensions in Inches

Max. Lamp Size	a
150 watt, A-21	5 ³ / ₈
200 watt, A-23, A-25, PS-25 and 300 watt, PS-30	6