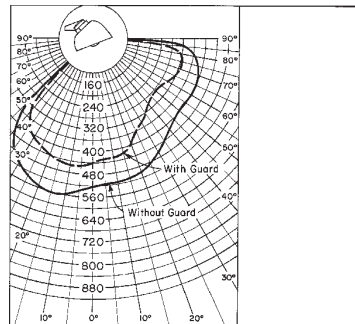


Luminaire VXHA45GPRA

Lamp: 150W/A-21

Total Bare Lamp Lumens: 2850



Measurements taken from A-A' plane.

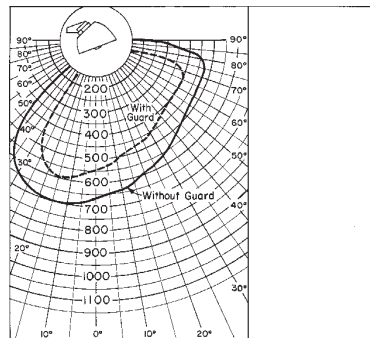


	Total Lumens	Eff. %
With Guard	1490	52.3
Without Guard	1881	66.0

Luminaire VXHA42GPRA

Lamp: 300W/PS-30

Total Bare Lamp Lumens: 6300



Measurements taken from A-A' plane.



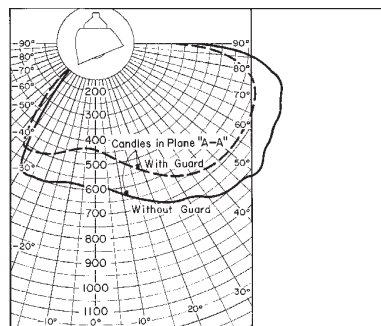
	Total Lumens	Eff. %
With Guard	3630	57.6
Without Guard	4271	67.8

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

Lamp: 100W/A-21 through 200W/A-23

Total Bare Lamp Lumens: 4000

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



Measurements taken from A-A' plane.

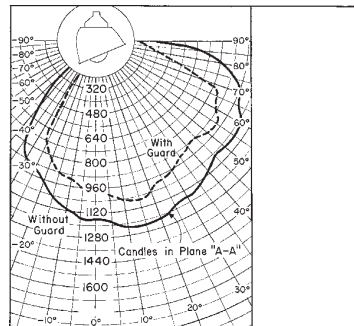


Lamp Size	Without Guard		With Guard	
	Total Lumens	Eff. %	Total Lumens	Eff. %
100W	1141		949	
150W	1890		1582	
200W/A-23	2700	67.5	2260	56.5
200W/PS-25	2174		1819	

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.



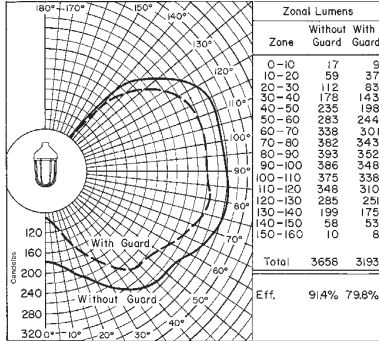
	Total Lumens	Eff. %
With Guard	3360	56.0
Without Guard	3954	65.9

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

To determine number and placement of luminaires see Lighting Selector Guide, pages 665 to 689.

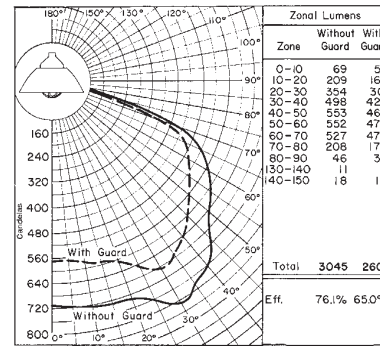
NOTE: All data provided is for 200W/A-23 incandescent lamp. Use following candela/lumen multipliers for other lamp sizes: 100W 0.42; 150W 0.7; 200W/PS-25 0.82

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

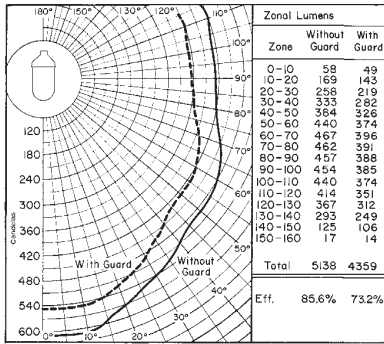
Reflectance	Room Cavity Ratio	Eff. Ceil. Wall				
		6	7	8	9	10
80	50	.309	.274	.244	.222	.193
	30	.253	.220	.192	.170	.142
	10	.214	.184	.155	.135	.110
70	50	.303	.270	.241	.219	.189
	30	.250	.217	.191	.168	.142
	10	.211	.181	.154	.135	.110
50	50	.291	.260	.232	.211	.184
	30	.245	.212	.186	.166	.139
	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

Lamp: 300W/PS-30

Total Bare Lamp Lumens: 6000

To determine number and placement of luminaires, see Lighting Selector Guide, pages 665 to 689.

Luminaire With Globe Only

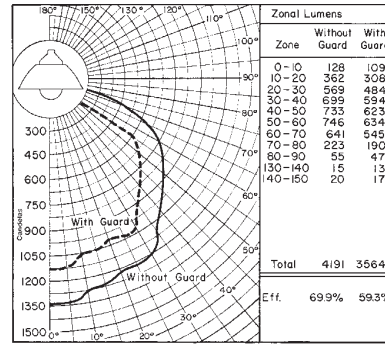


Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

% Reflectance	Room Cavity Ratio	% Reflectance					
		Eff. Ceil.	Wall	1	2	3	
80	1	50	.692	.582	.499	.431	.373
	30	30	.644	.515	.425	.354	.300
	10	10	.602	.459	.367	.295	.243
70	1	50	.636	.534	.458	.396	.345
	30	30	.594	.475	.392	.327	.276
	10	10	.552	.425	.339	.273	.223
50	1	50	.532	.444	.380	.327	.286
	30	30	.500	.398	.328	.272	.230
	10	10	.470	.358	.285	.229	.188
30	1	50	.437	.362	.308	.264	.230
	30	30	.412	.326	.268	.222	.186
	10	10	.389	.295	.234	.186	.152
10	1	50	.350	.285	.241	.205	.179
	30	30	.331	.258	.210	.172	.144
	10	10	.313	.235	.183	.145	.116
% Reflectance	Room Cavity Ratio	% Reflectance					
		Eff. Ceil.	Wall	6	7	8	
80	6	50	.333	.295	.263	.238	.212
	30	30	.258	.223	.194	.170	.147
	10	10	.205	.173	.145	.125	.105
70	6	50	.305	.271	.241	.219	.194
	30	30	.238	.204	.178	.157	.136
	10	10	.188	.158	.133	.115	.097
50	6	50	.253	.224	.200	.181	.162
	30	30	.198	.170	.148	.131	.113
	10	10	.157	.132	.110	.095	.079
30	6	50	.204	.180	.162	.146	.130
	30	30	.160	.138	.119	.105	.090
	10	10	.127	.105	.088	.075	.061
10	6	50	.158	.141	.124	.114	.101
	30	30	.123	.106	.091	.080	.067
	10	10	.096	.079	.066	.055	.044

Luminaire With Globe and Dome Reflector



Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

% Reflectance	Room Cavity Ratio	% Reflectance					
		Eff. Ceil.	Wall	1	2	3	
80	1	50	.766	.671	.587	.514	.454
	30	30	.734	.621	.528	.448	.385
	10	10	.706	.579	.482	.398	.334
70	1	50	.750	.657	.577	.505	.443
	30	30	.720	.610	.521	.444	.380
	10	10	.694	.573	.477	.395	.332
50	1	50	.717	.630	.555	.485	.429
	30	30	.693	.592	.507	.432	.372
	10	10	.672	.558	.468	.390	.329
30	1	50	.688	.606	.535	.468	.414
	30	30	.670	.575	.494	.422	.364
	10	10	.651	.546	.460	.385	.325
10	1	50	.663	.584	.516	.452	.400
	30	30	.647	.557	.482	.412	.357
	10	10	.632	.534	.452	.379	.321
% Reflectance	Room Cavity Ratio	% Reflectance					
		Eff. Ceil.	Wall	6	7	8	
80	6	50	.404	.360	.322	.293	.254
	30	30	.337	.294	.258	.229	.191
	10	10	.289	.250	.212	.185	.151
70	6	50	.397	.354	.317	.288	.249
	30	30	.333	.290	.256	.227	.191
	10	10	.285	.246	.211	.185	.151
50	6	50	.383	.342	.306	.279	.243
	30	30	.326	.284	.250	.223	.187
	10	10	.283	.244	.209	.184	.150
30	6	50	.371	.330	.297	.270	.235
	30	30	.320	.280	.245	.218	.184
	10	10	.281	.241	.208	.182	.148
10	6	50	.359	.322	.288	.262	.229
	30	30	.313	.275	.241	.215	.181
	10	10	.277	.239	.206	.180	.146