



IES INDOOR REPORT

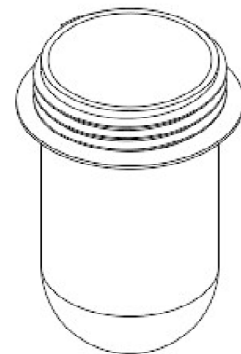
PHOTOMETRIC FILENAME : 15980 PROSERIES JUNIOR LED UTILITY LAMP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] PSZ2Q160524001-10
[TESTLAB] BACL
[TESTDATE] 2016-05-27
[ISSUEDATE] 2016-05-01 10:22:29
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[MANUFAC] ENGINEERED PRODUCTS CO.
[LUMCAT] 15980

CHARACTERISTICS

Lumens Per Lamp	1494 (1 lamp)
Total Lamp Lumens	1494
Luminaire Lumens	1494
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	14.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.46
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.58
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 ft (Diameter)
Luminous Height	0.21 ft (Diameter)



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	71694	70476	68867
55	65215	63880	62029
65	57748	56269	54221
75	49547	48045	45998
85	41232	39711	37727

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	258.242	258.242	258.242	258.242	258.242	258.242	258.242	258.242	258.242	258.242
1	260.245	259.676	259.096	258.386	257.816	257.117	256.367	256.147	260.235	259.366
2	260.365	259.686	259.176	258.396	257.836	257.177	256.537	256.037	260.305	259.576
3	260.545	259.756	259.136	258.606	257.926	257.157	256.737	256.317	260.255	259.556
4	260.325	259.796	259.156	258.416	257.697	257.117	256.617	256.007	260.196	259.406
5	260.325	259.846	259.296	258.696	257.627	256.987	256.737	255.927	260.106	259.326
6	260.365	259.826	259.096	258.616	257.876	257.457	256.697	255.797	259.816	258.986
7	260.495	260.106	259.226	258.766	257.866	257.017	256.267	255.817	259.666	258.916
8	260.485	260.046	259.226	258.486	257.776	256.967	256.167	255.357	259.756	258.766
9	260.455	259.846	259.116	258.326	257.457	256.727	255.977	255.247	259.356	258.646
10	260.305	259.796	259.006	258.216	257.337	256.467	255.607	254.968	259.226	258.256
11	260.305	259.796	259.096	258.066	257.337	256.277	255.317	254.548	258.756	258.016
12	260.176	259.756	258.876	257.976	257.277	255.797	254.948	254.118	258.376	257.487
13	259.866	259.586	258.746	257.756	256.667	255.647	254.578	253.888	257.776	257.207
14	259.716	259.226	258.466	257.407	256.457	255.038	253.978	253.298	257.367	256.517
15	259.586	258.976	258.266	257.167	255.977	254.588	253.648	252.828	256.847	256.067
16	259.096	258.426	257.717	256.567	255.357	254.248	253.148	252.209	256.427	255.387
17	258.746	258.256	257.147	256.127	254.918	253.688	252.639	251.519	255.717	254.918
18	258.396	257.717	256.777	255.767	254.338	252.978	251.769	250.739	255.108	254.308
19	257.876	257.227	256.177	255.078	253.758	252.269	251.019	250.070	254.098	253.508
20	257.447	257.077	255.597	254.388	253.088	251.739	250.250	249.180	253.438	252.748
21	256.837	256.287	255.058	253.738	252.399	250.749	249.340	248.310	252.589	251.859
22	256.387	255.607	254.388	252.339	251.509	249.910	248.450	247.381	251.739	251.079
23	255.537	254.818	253.728	251.909	250.819	249.110	247.541	246.491	250.519	250.369
24	254.768	254.048	252.878	251.329	249.600	247.870	246.411	245.381	249.440	248.990
25	254.088	253.238	252.019	250.409	248.570	246.891	245.441	244.282	248.320	248.060
26	253.158	252.319	251.029	249.430	247.601	246.191	244.442	243.222	247.351	246.811
27	252.289	251.619	249.970	248.500	246.681	245.072	243.172	241.873	246.101	245.791
28	251.419	250.359	249.130	247.231	245.511	243.622	241.773	240.543	244.962	244.462
29	250.339	249.300	247.790	245.991	244.322	242.323	240.653	239.374	243.522	243.262
30	249.340	248.220	246.761	244.932	243.152	241.303	239.374	237.964	242.143	241.983
31	248.130	247.031	245.621	243.722	241.753	239.684	237.944	236.495	240.693	240.483
32	247.111	245.891	244.382	242.433	240.443	237.245	236.535	235.086	239.344	238.994
33	245.921	244.592	242.872	241.023	239.034	236.745	235.036	233.496	237.745	237.575
34	244.442	243.292	241.723	239.524	237.515	235.465	233.506	232.077	236.105	236.035
35	243.132	241.903	240.463	238.344	236.085	233.666	231.997	230.477	234.576	234.466
36	241.613	240.413	238.804	236.725	234.446	232.087	230.308	228.788	232.866	232.627
37	240.413	239.254	237.275	235.355	233.006	230.737	228.668	227.159	231.167	231.047
38	238.934	237.585	235.855	233.366	231.007	228.848	226.759	225.200	229.498	229.408
39	237.325	235.985	233.946	231.767	229.448	227.149	225.010	223.490	227.559	227.729
40	235.645	234.796	232.227	230.128	227.799	225.589	223.330	221.751	225.779	225.949
41	234.136	232.826	230.667	228.458	226.119	223.580	221.381	219.902	223.900	223.970
42	232.607	231.237	228.948	226.639	224.190	221.811	219.472	217.902	221.911	222.041
43	230.757	229.368	227.029	225.000	222.291	219.592	217.493	215.873	219.842	220.162
44	228.848	227.639	225.250	222.960	220.152	217.763	215.364	213.894	217.883	218.212
45	227.189	225.639	223.330	220.901	218.232	215.583	213.574	211.945	215.803	216.133
46	225.100	223.710	221.571	218.922	216.353	213.844	211.495	209.846	213.734	213.994
47	223.280	221.851	219.622	217.113	214.274	211.865	209.266	207.707	211.715	211.835
48	221.371	219.792	217.633	214.944	212.085	209.516	207.027	205.467	209.536	209.836
49	219.502	217.892	215.453	212.775	210.046	207.387	205.028	203.398	207.357	207.737
50	217.403	215.743	213.284	210.635	207.926	205.248	202.739	201.069	205.058	205.298
51	215.304	213.754	211.345	208.436	205.757	202.929	200.609	198.870	202.799	203.218
52	213.304	211.595	209.066	206.247	203.618	200.699	198.220	196.611	200.519	200.939
53	211.035	209.436	206.967	203.998	201.169	198.440	195.901	194.342	198.040	198.640

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54	208.736	207.277	204.748	201.949	198.890	196.071	193.492	191.863	195.721	196.331
55	206.657	205.098	202.429	199.560	196.561	193.532	191.233	189.554	193.332	193.902
56	204.438	202.719	200.120	197.321	194.252	191.263	188.884	187.255	190.973	191.443
57	202.139	200.469	197.681	194.942	191.753	189.014	186.495	184.796	188.534	189.044
58	199.910	197.951	195.551	192.603	189.444	186.655	184.046	182.457	186.065	186.675
59	197.501	195.581	193.062	190.024	186.895	184.066	181.617	179.918	183.646	184.296
60	195.122	193.502	190.633	187.525	184.606	181.767	179.198	177.479	180.997	181.877
61	192.813	191.023	188.334	185.046	182.157	179.108	176.579	174.900	178.618	179.458
62	190.384	188.414	185.755	182.637	179.708	176.539	173.990	172.411	176.049	176.829
63	187.875	186.025	183.416	180.488	177.139	174.160	171.511	169.912	173.580	174.360
64	185.356	183.526	180.757	177.709	174.360	171.391	168.922	167.303	170.911	171.841
65	182.997	181.087	178.308	175.190	171.821	168.882	166.473	164.804	168.302	169.232
66	180.408	178.408	175.759	172.561	169.282	166.373	163.824	162.175	165.753	166.513
67	177.889	175.979	173.160	170.132	166.683	163.804	161.105	159.656	163.134	163.924
68	175.360	173.330	170.671	167.473	164.164	161.155	158.636	157.027	160.635	161.385
69	172.781	170.661	167.893	164.574	161.375	158.526	155.987	154.518	157.897	158.816
70	170.052	168.073	165.434	162.185	158.836	156.087	153.458	151.879	155.318	156.207
71	167.613	165.514	162.715	159.496	156.217	153.228	150.689	149.090	152.739	153.698
72	164.954	162.975	160.186	157.007	153.788	150.600	148.200	146.651	150.020	151.089
73	162.275	160.386	157.487	154.298	151.029	147.921	145.522	143.862	147.371	148.500
74	159.606	157.697	154.788	151.639	148.370	145.252	142.783	141.313	144.872	145.921
75	157.007	155.128	152.249	149.080	145.761	142.703	140.394	138.764	142.293	143.372
76	154.348	152.399	149.590	146.201	143.023	140.054	137.655	136.265	139.744	140.763
77	151.709	149.860	146.941	143.722	140.534	137.455	134.996	133.656	136.735	137.905
78	149.090	147.071	144.252	140.963	137.775	134.826	132.407	130.937	133.736	135.046
79	146.441	144.422	141.673	138.444	135.126	132.237	129.868	128.438	130.927	132.187
80	143.782	141.873	139.004	135.795	132.577	129.628	127.199	125.839	128.448	129.588
81	141.123	139.104	136.335	133.017	129.838	127.019	124.650	123.320	125.829	127.029
82	138.514	136.505	133.686	130.498	127.429	124.500	122.121	120.801	123.270	124.390
83	135.815	133.836	131.027	127.909	124.770	121.801	119.552	118.253	120.662	121.881
84	133.127	131.277	128.518	125.390	122.131	119.352	116.993	115.684	118.193	119.452
85	130.658	128.588	125.839	122.741	119.552	116.663	114.484	113.205	115.744	116.923
86	127.919	125.969	123.251	120.102	117.023	114.274	112.025	110.776	113.165	114.324
87	125.340	123.480	120.712	117.583	114.504	111.825	109.486	108.366	110.756	111.925
88	122.721	120.881	118.163	114.974	112.075	109.286	107.137	105.818	108.297	109.456
89	120.192	118.312	115.604	112.605	109.606	106.807	104.658	103.588	105.828	106.997
90	117.593	115.724	112.985	110.076	107.087	104.428	102.289	100.949	103.428	104.588
91	115.134	113.334	110.616	107.637	104.688	102.009	99.940	98.740	101.029	102.259
92	112.605	110.786	108.077	105.178	102.289	99.610	97.601	96.411	98.760	99.930
93	110.086	108.277	105.678	102.709	99.850	97.281	95.302	94.162	96.451	97.561
94	107.567	105.837	103.299	100.370	97.571	94.962	92.993	91.823	94.182	95.362
95	105.168	103.408	100.830	98.011	95.142	92.643	90.744	89.624	91.893	93.023
96	102.689	100.979	98.460	95.712	92.943	90.434	88.524	87.395	89.564	90.784
97	100.340	98.620	96.081	93.402	90.634	88.165	86.255	85.276	87.405	88.534
98	98.031	96.261	93.812	91.113	88.395	86.025	84.106	83.097	85.236	86.305
99	95.652	93.902	91.583	88.844	86.155	83.816	82.007	81.057	83.107	84.216
100	93.363	91.573	89.274	86.565	84.046	81.697	79.908	78.908	80.957	82.087
101	91.043	89.434	87.115	84.436	81.947	79.618	77.829	76.839	78.848	80.008
102	88.874	87.195	84.816	82.287	79.768	77.459	75.760	74.790	76.749	77.939
103	86.585	85.036	82.707	80.168	77.699	75.480	73.720	72.811	74.760	75.890
104	84.376	82.867	80.588	78.119	75.590	73.431	71.771	70.842	72.841	73.950
105	82.267	80.678	78.518	76.079	73.550	71.431	69.812	68.952	70.872	71.931
106	80.098	78.568	76.429	74.060	71.661	69.562	67.903	67.033	68.892	70.002
107	78.009	76.499	74.380	72.071	69.652	67.593	65.954	65.194	67.043	68.103
108	75.969	74.460	72.431	70.052	67.773	65.724	64.204	63.315	65.114	66.203
109	73.930	72.441	70.412	68.063	65.814	63.794	62.335	61.605	63.335	64.394

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CANDELA TABULATION - (Cont.)

110	71.971	70.512	68.502	66.243	64.044	62.015	60.536	59.786	61.545	62.555
111	69.982	68.542	66.513	64.324	62.145	59.876	58.746	57.967	59.776	60.836
112	68.053	66.653	64.674	62.585	60.466	58.237	56.957	56.157	58.017	59.076
113	66.093	64.784	62.795	60.786	58.666	56.597	55.168	54.438	56.337	57.347
114	64.224	62.965	61.025	58.956	56.867	54.848	53.489	52.769	54.688	55.638
115	62.385	61.115	59.226	57.117	55.068	53.239	51.899	51.189	53.029	54.008
116	60.606	59.286	57.427	55.288	53.339	51.579	50.300	49.600	51.389	52.419
117	58.786	57.457	55.628	53.688	51.759	50.030	48.710	48.091	49.850	50.840
118	56.967	55.638	53.938	52.049	50.150	48.461	47.191	46.591	48.261	49.250
119	55.148	53.968	52.329	50.440	48.570	46.911	45.702	45.072	46.751	47.671
120	53.469	52.279	50.670	48.890	47.071	45.392	44.182	43.622	45.282	46.171
121	51.869	50.710	49.060	47.261	45.512	43.912	42.763	42.183	43.802	44.722
122	50.260	49.130	47.551	45.832	44.132	42.533	41.383	40.824	42.393	43.233
123	48.660	47.571	45.992	44.262	42.603	41.093	39.954	39.434	40.954	41.833
124	47.111	46.071	44.542	42.903	41.223	39.704	38.614	38.075	39.604	40.434
125	45.592	44.582	43.063	41.443	39.824	38.335	37.255	36.765	38.275	39.114
126	44.122	43.083	41.633	40.054	38.465	37.015	35.926	35.446	36.925	37.725
127	42.673	41.683	40.264	38.714	37.145	35.686	34.656	34.216	35.626	36.435
128	41.233	40.234	38.844	37.295	35.786	34.406	33.457	32.977	34.346	35.136
129	39.804	38.874	37.565	36.056	34.596	33.197	32.227	31.787	33.077	33.876
130	38.425	37.535	36.215	34.746	33.277	31.927	31.008	30.568	31.857	32.627
131	37.095	36.235	34.936	33.487	32.057	30.748	29.818	29.408	30.648	31.397
132	35.786	34.936	33.666	32.237	30.848	29.578	28.668	28.259	29.518	30.248
133	34.486	33.626	32.407	31.028	29.658	28.419	27.519	27.169	28.349	29.058
134	33.247	32.417	31.197	29.878	28.539	27.329	26.449	26.070	27.249	27.959
135	31.997	31.167	29.998	28.698	27.389	26.179	25.330	25.020	26.149	26.819
136	30.808	30.008	28.848	27.599	26.329	25.150	24.290	23.940	25.050	25.720
137	29.588	28.838	27.689	26.449	25.210	24.040	23.231	22.941	24.000	24.670
138	28.439	27.679	26.569	25.370	24.160	23.031	22.231	21.921	22.971	23.591
139	27.329	26.579	25.530	24.340	23.161	22.051	21.271	20.972	21.961	22.601
140	26.179	25.460	24.440	23.271	22.111	21.042	20.302	20.002	20.962	21.561
141	25.110	24.410	23.401	22.261	21.132	20.092	19.352	19.062	19.992	20.602
142	24.010	23.361	22.381	21.271	20.162	19.152	18.443	18.163	19.072	19.622
143	23.011	22.361	21.401	20.302	19.232	18.243	17.523	17.273	18.123	18.663
144	21.981	21.361	20.402	19.362	18.303	17.333	16.653	16.403	17.223	17.763
145	21.002	20.382	19.452	18.423	17.393	16.443	15.794	15.564	16.353	16.843
146	20.042	19.422	18.543	17.543	16.533	15.594	14.954	14.734	15.484	15.984
147	19.082	18.483	17.613	16.633	15.654	14.744	14.124	13.924	14.644	15.114
148	18.163	17.573	16.723	15.774	14.834	13.944	13.355	13.115	13.844	14.254
149	17.243	16.663	15.854	14.924	13.994	13.135	12.555	12.365	13.045	13.445
150	16.363	15.814	15.014	14.094	13.205	12.365	11.795	11.605	12.245	12.625
151	15.504	14.964	14.164	13.305	12.415	11.595	11.046	10.876	11.445	11.815
152	14.654	14.114	13.355	12.495	11.625	10.856	10.336	10.176	10.716	11.046
153	13.834	13.315	12.595	11.765	10.926	10.166	9.636	9.486	10.006	10.316
154	13.025	12.515	11.795	10.976	10.166	9.436	8.946	8.806	9.306	9.596
155	12.245	11.755	11.066	10.286	9.506	8.756	8.297	8.167	8.637	8.896
156	11.495	10.996	10.306	9.556	8.786	8.037	7.637	7.527	7.987	8.227
157	10.746	10.276	9.626	8.866	8.137	7.347	7.017	6.907	7.357	7.567
158	10.026	9.556	8.926	8.207	7.487	6.657	6.417	6.307	6.737	6.927
159	9.326	8.876	8.267	7.517	6.847	5.988	5.818	5.708	6.138	6.307
160	8.637	8.217	7.627	6.767	6.237	5.318	5.208	5.138	5.558	5.708
161	7.977	7.557	6.967	5.978	5.618	4.698	4.638	4.588	4.988	5.118
162	7.347	6.947	6.367	5.178	5.008	4.118	4.088	4.038	4.428	4.538
163	6.717	6.327	5.768	4.448	3.778	3.549	3.549	3.509	3.888	3.988
164	6.098	5.718	5.168	3.928	2.409	3.019	3.019	2.969	3.349	3.429
165	5.468	5.108	4.618	3.609	1.899	2.499	2.489	2.449	2.809	2.879

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CANDELA TABULATION - (Cont.)

166	4.898	4.528	4.058	3.159	1.759	1.989	1.999	1.899	2.239	2.319
167	4.338	3.988	3.529	2.689	1.499	1.489	1.449	1.249	1.649	1.739
168	3.778	3.439	2.989	2.179	1.289	0.940	0.730	0.550	0.920	1.010
169	3.239	2.909	2.479	1.709	1.020	0.470	0.390	0.380	0.320	0.360
170	2.679	2.349	1.939	1.240	0.520	0.380	0.380	0.380	0.280	0.280
171	2.109	1.779	1.319	0.620	0.380	0.380	0.380	0.380	0.280	0.280
172	1.419	1.100	0.610	0.390	0.380	0.380	0.380	0.370	0.280	0.280
173	0.650	0.470	0.380	0.380	0.380	0.370	0.370	0.370	0.280	0.280
174	0.380	0.380	0.370	0.370	0.370	0.370	0.370	0.370	0.290	0.290
175	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.300	0.300
176	0.370	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.310	0.310
177	0.360	0.360	0.360	0.350	0.350	0.350	0.350	0.350	0.320	0.320
178	0.350	0.350	0.350	0.350	0.350	0.340	0.340	0.340	0.320	0.320
179	0.340	0.340	0.340	0.340	0.340	0.340	0.330	0.330	0.330	0.330
180	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	258.242	258.242	258.242	258.242	258.242	258.242	258.242
1	258.806	258.126	257.397	256.937	256.457	256.227	260.245
2	258.896	258.036	257.357	256.747	256.367	255.977	260.365
3	258.676	258.016	257.397	256.847	256.517	255.907	260.545
4	258.696	257.886	257.247	256.737	256.457	256.107	260.325
5	258.606	257.707	257.097	256.417	256.497	256.087	260.325
6	258.476	257.637	257.207	256.587	256.107	256.147	260.365
7	258.306	257.447	257.137	256.637	256.457	255.997	260.495
8	258.146	257.467	257.047	256.537	256.237	256.057	260.485
9	257.986	257.267	256.807	256.437	256.297	256.057	260.455
10	257.637	257.087	256.567	256.357	256.127	255.927	260.305
11	257.307	256.697	256.497	256.077	255.947	255.907	260.305
12	257.127	256.677	256.107	255.997	255.617	255.747	260.176
13	256.657	256.437	256.007	256.037	255.577	255.557	259.866
14	256.177	255.877	255.697	255.827	255.507	255.677	259.716
15	255.647	255.477	255.038	254.998	255.387	255.257	259.586
16	255.068	254.998	254.628	254.648	254.798	254.848	259.096
17	254.558	254.688	254.608	254.428	254.518	254.628	258.746
18	253.888	253.978	254.208	253.838	253.968	254.138	258.396
19	253.218	253.378	253.358	253.618	253.708	253.768	257.876
20	252.449	252.629	252.808	253.088	253.228	253.358	257.447
21	251.689	251.869	252.029	252.339	252.579	252.758	256.837
22	250.959	251.239	251.399	251.629	252.019	252.109	256.387
23	250.160	250.359	250.669	251.149	251.419	251.419	255.537
24	249.210	249.400	249.800	250.080	250.679	250.899	254.768
25	248.120	248.660	249.080	249.390	250.070	250.140	254.088
26	246.861	247.401	248.230	248.540	249.120	249.270	253.158
27	245.781	246.371	247.041	247.561	248.250	248.560	252.289
28	244.762	245.252	246.171	246.521	247.161	247.471	251.419
29	243.702	244.322	245.092	245.691	246.181	246.601	250.339
30	242.333	243.092	243.932	244.652	245.272	245.561	249.340
31	241.013	241.623	242.593	243.392	244.082	244.462	248.130
32	239.684	240.573	241.233	242.333	242.842	243.322	247.111
33	238.044	239.124	240.054	241.003	241.943	242.063	245.921
34	236.525	237.595	238.864	240.074	240.603	241.063	244.442
35	235.106	236.155	237.275	238.264	239.254	239.624	243.132
36	233.406	234.776	235.725	236.895	237.775	238.234	241.613

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CANDELA TABULATION - (Cont.)

37	231.837	233.436	234.396	235.515	236.545	237.085	240.413
38	230.228	231.517	232.916	233.906	234.946	235.515	238.934
39	228.378	229.928	231.487	232.507	233.496	234.116	237.325
40	226.789	228.198	229.628	230.947	231.867	232.587	235.645
41	224.920	226.509	227.968	229.198	230.278	230.937	234.136
42	223.190	224.900	226.199	227.779	228.648	229.238	232.607
43	221.101	223.000	224.440	225.929	227.229	227.609	230.757
44	219.282	221.071	222.701	224.130	225.389	226.089	228.848
45	217.283	219.172	220.821	222.121	223.570	224.150	227.189
46	215.224	217.213	218.922	220.421	221.741	222.451	225.100
47	213.284	215.204	216.973	218.632	219.852	220.581	223.280
48	211.175	213.184	215.034	216.573	217.912	218.752	221.371
49	209.146	211.215	213.174	214.734	216.093	216.713	219.502
50	206.947	209.006	210.965	212.835	214.104	214.784	217.403
51	204.758	206.727	208.756	210.515	211.985	212.885	215.304
52	202.659	204.658	206.837	208.596	209.766	210.535	213.304
53	200.290	202.449	204.618	206.577	208.006	208.536	211.035
54	198.150	200.360	202.479	204.548	205.907	206.597	208.736
55	195.851	198.030	200.220	202.099	203.738	204.478	206.657
56	193.392	195.781	197.791	199.830	201.389	202.319	204.438
57	191.063	193.392	195.711	197.691	199.160	200.170	202.139
58	188.614	190.973	193.312	195.292	196.741	197.711	199.910
59	186.245	188.694	191.163	193.082	194.622	195.521	197.501
60	183.856	186.325	188.804	190.683	192.313	193.262	195.122
61	181.437	183.786	186.205	188.344	190.094	190.843	192.813
62	178.918	181.507	183.926	186.115	187.555	188.384	190.384
63	176.279	179.018	181.477	183.586	185.276	185.935	187.875
64	173.930	176.489	179.088	181.047	182.897	183.716	185.356
65	171.401	174.000	176.709	178.778	180.498	181.097	182.997
66	168.742	171.431	174.050	176.239	178.048	178.798	180.408
67	166.213	168.872	171.661	173.840	175.470	176.439	177.889
68	163.724	166.263	169.092	171.241	172.891	173.790	175.360
69	161.075	163.784	166.483	168.772	170.502	171.321	172.781
70	158.466	161.405	164.084	166.263	167.893	168.892	170.052
71	155.897	158.706	161.395	163.614	165.414	166.333	167.613
72	153.338	156.247	158.886	161.195	162.745	163.404	164.954
73	150.659	153.588	156.257	158.666	160.556	161.125	162.275
74	148.131	150.959	153.728	156.017	157.647	158.456	159.606
75	145.622	148.310	151.119	153.448	155.248	155.967	157.007
76	142.983	145.771	148.540	150.939	152.559	153.288	154.348
77	140.464	143.173	146.031	148.350	149.950	150.759	151.709
78	137.575	140.574	143.352	145.572	147.331	148.141	149.090
79	134.676	137.765	140.923	143.163	144.812	145.522	146.441
80	131.787	134.946	138.085	140.564	142.283	143.013	143.782
81	129.238	132.127	135.246	137.755	139.764	140.444	141.123
82	126.799	129.638	132.417	134.946	136.745	137.615	138.514
83	124.160	126.999	129.778	132.137	133.736	134.776	135.815
84	121.691	124.450	127.289	129.588	131.147	131.947	133.127
85	119.172	121.881	124.690	126.939	128.728	129.358	130.658
86	116.603	119.332	122.071	124.460	126.199	126.809	127.919
87	114.284	116.903	119.682	122.021	123.620	124.320	125.340
88	111.715	114.354	117.123	119.292	121.031	121.721	122.721
89	109.356	112.055	114.684	116.973	118.562	119.152	120.192
90	106.887	109.576	112.195	114.464	116.093	116.783	117.593
91	104.458	107.107	109.716	111.905	113.654	114.244	115.134
92	102.159	104.668	107.407	109.516	111.125	111.635	112.605

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CANDELA TABULATION - (Cont.)

93	99.730	102.279	104.968	107.037	108.716	109.286	110.086
94	97.501	99.970	102.549	104.668	106.277	106.837	107.567
95	95.152	97.661	100.250	102.159	103.778	104.408	105.168
96	92.913	95.362	97.971	100.000	101.509	102.049	102.689
97	90.674	93.023	95.672	97.731	99.210	99.760	100.340
98	88.434	90.804	93.223	95.222	96.801	97.341	98.031
99	86.285	88.714	91.053	93.053	94.522	95.082	95.652
100	84.016	86.445	88.794	90.784	92.173	92.803	93.363
101	81.957	84.326	86.725	88.604	90.024	90.524	91.043
102	79.878	82.147	84.546	86.445	87.855	88.325	88.874
103	77.739	80.058	82.337	84.226	85.646	86.175	86.585
104	75.790	78.029	80.228	82.087	83.466	84.006	84.376
105	73.760	75.969	78.169	80.008	81.307	81.787	82.267
106	71.891	73.990	76.209	77.989	79.288	79.798	80.098
107	69.942	71.961	74.130	75.979	77.229	77.699	78.009
108	68.003	70.132	72.151	73.940	75.190	75.690	75.969
109	66.123	68.183	70.272	71.951	73.231	73.670	73.930
110	64.284	66.313	68.333	69.952	71.251	71.651	71.971
111	62.545	64.484	66.473	68.123	69.342	69.742	69.982
112	60.756	62.635	64.624	66.233	67.373	67.843	68.053
113	58.986	60.866	62.815	64.394	65.564	65.964	66.093
114	57.277	59.096	61.015	62.515	63.714	64.114	64.224
115	55.578	57.417	59.286	60.756	61.865	62.215	62.385
116	53.918	55.748	57.607	59.056	60.146	60.506	60.606
117	52.299	54.028	55.818	57.337	58.397	58.756	58.786
118	50.740	52.479	54.248	55.648	56.697	57.037	56.967
119	49.170	50.860	52.569	53.948	55.038	55.368	55.148
120	47.581	49.290	50.980	52.329	53.329	53.698	53.469
121	46.121	47.781	49.390	50.780	51.739	52.059	51.869
122	44.662	46.231	47.871	49.180	50.100	50.490	50.260
123	43.183	44.772	46.381	47.631	48.580	48.930	48.660
124	41.773	43.323	44.852	46.141	46.991	47.361	47.111
125	40.404	41.953	43.433	44.722	45.572	45.822	45.592
126	39.004	40.514	41.963	43.233	44.082	44.372	44.122
127	37.705	39.174	40.604	41.783	42.623	42.923	42.673
128	36.365	37.805	39.254	40.414	41.233	41.473	41.233
129	35.086	36.495	37.885	39.024	39.844	40.104	39.804
130	33.826	35.236	36.565	37.675	38.455	38.724	38.425
131	32.607	33.986	35.266	36.365	37.135	37.375	37.095
132	31.417	32.777	34.076	35.126	35.896	36.076	35.786
133	30.188	31.477	32.767	33.816	34.586	34.786	34.486
134	29.058	30.338	31.597	32.567	33.277	33.507	33.247
135	27.909	29.168	30.378	31.347	32.047	32.247	31.997
136	26.799	28.049	29.248	30.218	30.868	31.048	30.808
137	25.710	26.939	28.079	29.048	29.678	29.888	29.588
138	24.600	25.810	26.919	27.859	28.529	28.728	28.439
139	23.591	24.770	25.860	26.769	27.419	27.589	27.329
140	22.521	23.690	24.750	25.650	26.279	26.459	26.179
141	21.581	22.701	23.740	24.590	25.200	25.390	25.110
142	20.582	21.671	22.711	23.541	24.150	24.350	24.010
143	19.592	20.682	21.681	22.511	23.101	23.291	23.011
144	18.673	19.712	20.712	21.491	22.071	22.271	21.981
145	17.723	18.752	19.722	20.512	21.062	21.251	21.002
146	16.843	17.823	18.782	19.542	20.092	20.282	20.042
147	15.924	16.933	17.843	18.613	19.132	19.332	19.082
148	15.074	16.034	16.923	17.663	18.213	18.393	18.163

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CANDELA TABULATION - (Cont.)

149	14.244	15.184	16.074	16.783	17.313	17.473	17.243
150	13.415	14.294	15.154	15.884	16.383	16.593	16.363
151	12.595	13.485	14.354	15.034	15.544	15.714	15.504
152	11.765	12.665	13.525	14.194	14.684	14.894	14.654
153	11.016	11.845	12.695	13.385	13.894	14.054	13.834
154	10.266	11.106	11.865	12.575	13.085	13.265	13.025
155	9.546	10.356	11.126	11.765	12.275	12.465	12.245
156	8.836	9.616	10.376	10.996	11.465	11.665	11.495
157	8.167	8.926	9.656	10.256	10.706	10.916	10.746
158	7.507	8.237	8.946	9.536	9.976	10.186	10.026
159	6.867	7.577	8.267	8.846	9.286	9.486	9.326
160	6.257	6.937	7.607	8.167	8.597	8.806	8.637
161	5.648	6.327	6.977	7.527	7.957	8.147	7.977
162	5.058	5.708	6.357	6.887	7.297	7.507	7.347
163	4.498	5.138	5.768	6.297	6.677	6.887	6.717
164	3.928	4.568	5.188	5.698	6.078	6.277	6.098
165	3.369	4.008	4.618	5.118	5.478	5.698	5.468
166	2.839	3.459	4.058	4.558	4.908	5.118	4.898
167	2.269	2.889	3.489	3.988	4.338	4.558	4.338
168	1.639	2.309	2.939	3.449	3.808	3.998	3.778
169	0.820	1.649	2.349	2.899	3.259	3.449	3.239
170	0.300	0.840	1.719	2.329	2.699	2.889	2.679
171	0.280	0.310	0.900	1.679	2.129	2.289	2.109
172	0.280	0.280	0.320	0.850	1.429	1.669	1.419
173	0.280	0.280	0.280	0.320	0.640	0.940	0.650
174	0.290	0.290	0.290	0.290	0.290	0.350	0.380
175	0.300	0.300	0.300	0.300	0.300	0.300	0.370
176	0.310	0.310	0.310	0.310	0.300	0.300	0.370
177	0.310	0.310	0.310	0.310	0.310	0.310	0.360
178	0.320	0.320	0.320	0.320	0.320	0.320	0.350
179	0.330	0.320	0.320	0.320	0.320	0.320	0.340
180	0.330	0.330	0.330	0.330	0.330	0.330	0.330

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	97.05	6.50	6.50
0-30	212.13	14.20	14.20
0-40	360.64	24.10	24.10
0-60	708.26	47.40	47.40
0-80	1038.00	69.50	69.50
0-90	1171.41	78.40	78.40
10-90	1146.8	76.80	76.80
20-40	263.59	17.60	17.60
20-50	433.43	29.00	29.00
40-70	520.42	34.80	34.80
60-80	329.75	22.10	22.10
70-80	156.95	10.50	10.50
80-90	133.40	8.90	8.90
90-110	187.40	12.50	12.50
90-120	244.44	16.40	16.40
90-130	282.02	18.90	18.90
90-150	316.41	21.20	21.20
90-180	322.60	21.60	21.60
110-180	135.20	9.00	9.00
0-180	1494.00	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.61
10-20	72.44
20-30	115.08
30-40	148.51
40-50	169.84
50-60	177.78
60-70	172.80
70-80	156.95
80-90	133.40
90-100	106.82
100-110	80.58
110-120	57.04
120-130	37.58
130-140	22.57
140-150	11.83
150-160	4.92
160-170	1.21
170-180	0.06

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	100	94	88	83	95	89	84	79	81	77	73	73	70	67	66	63	61	57
2	89	79	71	64	84	76	68	62	68	62	57	62	57	53	56	52	48	45
3	81	69	59	52	76	65	57	50	59	52	46	53	48	43	48	43	39	36
4	73	60	50	43	69	57	48	41	52	44	38	47	41	36	42	37	33	30
5	67	53	43	36	63	51	42	35	46	38	33	42	35	30	38	32	28	25
6	62	47	38	31	58	45	36	30	41	34	28	37	31	26	34	28	24	22
7	57	43	33	27	54	41	32	26	37	30	24	34	28	23	31	25	21	19
8	53	39	30	24	50	37	29	23	34	27	22	31	25	20	28	23	19	16
9	49	35	27	21	47	34	26	20	31	24	19	28	22	18	26	21	17	15
10	46	32	24	19	44	31	23	18	29	22	17	26	20	16	24	19	15	13

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UGR TABLE - CORRECTED

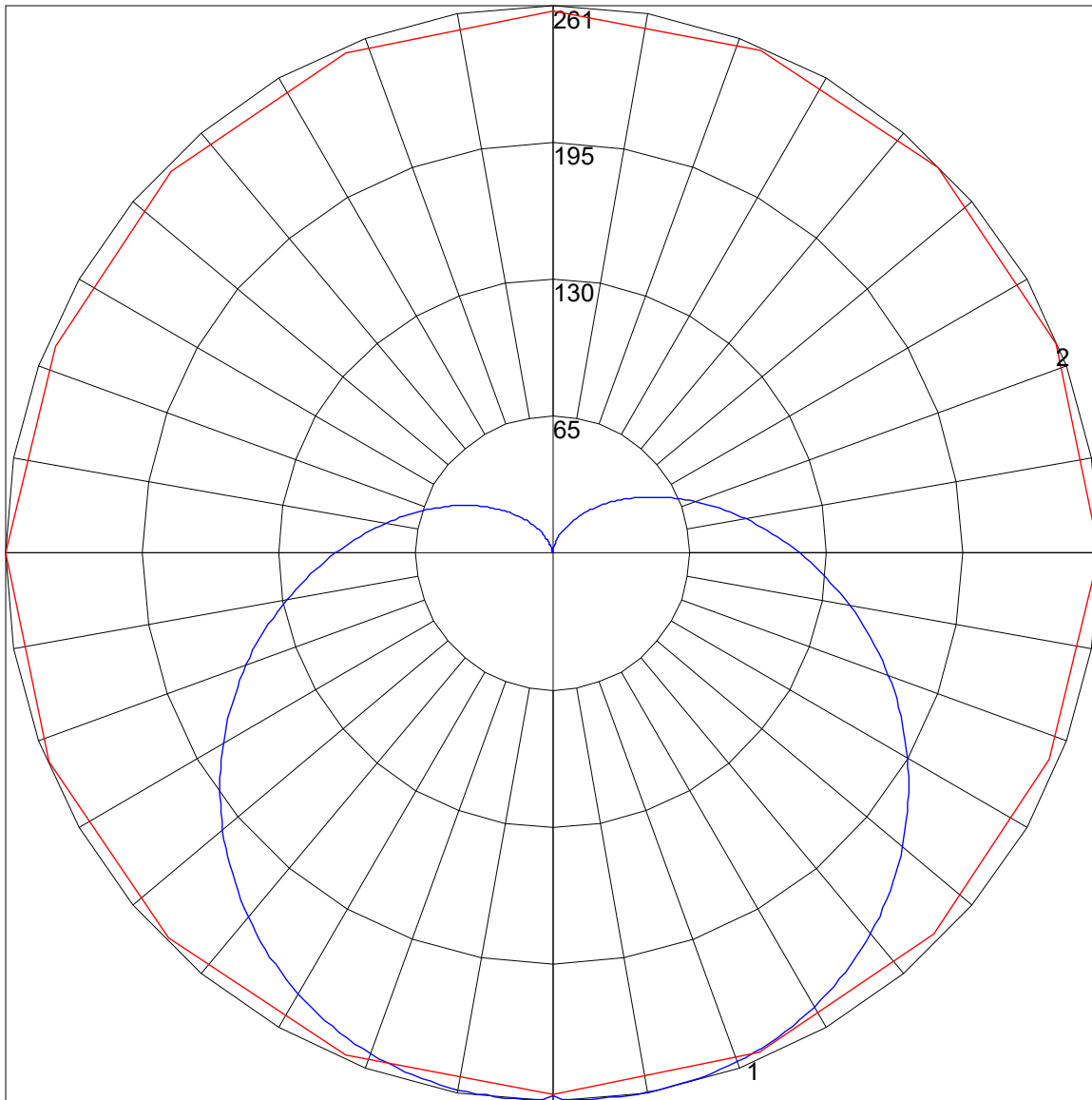
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	22.5	23.8	23.2	24.5	25.3	22.2	23.5	22.8	24.2	25.0
	3H	24.9	26.1	25.6	26.8	27.7	24.5	25.8	25.2	26.5	27.3
	4H	26.0	27.2	26.7	27.9	28.7	25.6	26.8	26.3	27.5	28.3
	6H	27.1	28.2	27.8	28.9	29.8	26.6	27.7	27.3	28.5	29.3
	8H	27.6	28.6	28.3	29.4	30.2	27.1	28.2	27.8	28.9	29.8
	12H	28.1	29.1	28.8	29.8	30.7	27.6	28.6	28.3	29.3	30.2
4H	2H	23.1	24.3	23.8	25.0	25.9	22.8	24.0	23.5	24.7	25.6
	3H	25.8	26.8	26.5	27.5	28.4	25.4	26.4	26.1	27.1	28.0
	4H	27.0	28.0	27.7	28.7	29.6	26.6	27.6	27.3	28.3	29.2
	6H	28.3	29.1	29.0	29.9	30.8	27.8	28.7	28.6	29.4	30.3
	8H	28.9	29.7	29.6	30.4	31.3	28.4	29.2	29.1	30.0	30.9
	12H	29.4	30.2	30.2	31.0	31.9	29.0	29.7	29.7	30.5	31.4
8H	4H	27.4	28.2	28.2	29.0	29.9	27.1	27.8	27.8	28.6	29.5
	6H	28.9	29.6	29.6	30.4	31.3	28.4	29.1	29.2	29.9	30.8
	8H	29.6	30.2	30.4	31.0	31.9	29.2	29.8	29.9	30.6	31.5
	12H	30.4	30.9	31.1	31.7	32.7	29.9	30.4	30.7	31.2	32.2
12H	4H	27.5	28.2	28.3	29.0	29.9	27.1	27.9	27.9	28.6	29.6
	6H	29.0	29.6	29.8	30.4	31.4	28.6	29.2	29.4	30.0	31.0
	8H	29.8	30.4	30.6	31.2	32.2	29.4	29.9	30.2	30.7	31.7

Maximum UGR = 32.7

POLAR GRAPH



Maximum Candela = 260.545 Located At Horizontal Angle = 0, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)