



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_3500K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] JBE210303-D
[TESTLAB] STANDARD-TECH TESTING SERVICES
[TESTDATE] 15 March 2021
[ISSUEDATE] 2023-02-02
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO
[LUMCAT] BP-14-LS-8CS-DIM-UNV_30W_3500K
[OTHER] Input Voltage=120.1 PF=0.9933 THD=8.50

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3396
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.15 m
Luminous Width (90-270)	0.23 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4172	4135	4140
55	4068	4022	4017
65	3911	3850	3832
75	3646	3589	3548
85	3136	3030	3058

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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	1150.525	1150.525	1150.525	1150.525	1150.525	1150.525	1150.525	1150.525	1150.525	1150.525
1	1150.380	1150.307	1149.655	1149.293	1150.017	1150.814	1150.669	1150.959	1150.380	1150.380
2	1150.162	1149.872	1149.220	1148.713	1149.220	1149.800	1149.510	1149.800	1149.800	1149.583
3	1149.438	1149.148	1148.930	1148.423	1148.786	1148.568	1148.133	1148.713	1148.786	1148.061
4	1148.351	1146.829	1146.974	1146.539	1146.902	1146.395	1146.539	1147.336	1148.133	1147.264
5	1146.032	1146.467	1145.380	1145.815	1145.380	1145.380	1143.714	1145.235	1145.453	1145.380
6	1144.293	1142.627	1143.351	1142.047	1142.844	1142.409	1141.975	1142.772	1142.989	1142.337
7	1142.482	1141.395	1140.960	1139.874	1140.308	1140.018	1139.004	1140.236	1141.033	1140.960
8	1138.352	1137.772	1137.120	1137.627	1137.990	1137.120	1135.599	1137.482	1138.424	1137.917
9	1136.178	1134.947	1134.947	1133.208	1134.657	1133.352	1132.411	1133.787	1134.729	1134.367
10	1131.976	1130.889	1131.106	1129.585	1130.744	1129.657	1128.498	1129.802	1131.106	1131.106
11	1127.484	1127.918	1126.034	1125.890	1126.324	1126.034	1124.585	1125.527	1126.759	1126.252
12	1124.296	1122.919	1122.557	1120.890	1121.470	1121.035	1119.658	1121.035	1122.484	1122.846
13	1118.934	1117.630	1117.702	1116.180	1117.412	1114.949	1114.876	1116.398	1118.209	1117.340
14	1114.224	1113.789	1111.616	1111.181	1111.254	1109.949	1109.659	1111.036	1112.340	1112.630
15	1108.718	1107.848	1106.254	1104.877	1106.254	1104.660	1103.791	1105.457	1106.544	1106.761
16	1102.849	1102.052	1100.603	1099.878	1099.661	1098.501	1097.994	1098.864	1100.965	1100.603
17	1096.328	1096.038	1094.226	1092.415	1093.647	1091.835	1091.763	1093.357	1094.806	1094.154
18	1090.096	1089.082	1087.633	1085.604	1086.981	1085.677	1084.735	1085.677	1088.068	1087.850
19	1083.213	1081.692	1080.532	1079.518	1079.735	1077.199	1077.054	1078.938	1080.750	1080.822
20	1076.402	1074.953	1072.635	1071.982	1072.417	1070.823	1070.678	1071.258	1073.577	1073.287
21	1068.722	1066.258	1065.317	1064.809	1064.882	1062.201	1062.998	1063.505	1065.679	1065.099
22	1060.824	1059.520	1056.622	1055.752	1056.984	1054.738	1054.231	1055.390	1057.419	1057.926
23	1051.767	1050.173	1047.855	1047.348	1048.072	1045.609	1046.478	1046.478	1048.724	1048.652
24	1044.159	1041.261	1038.580	1038.653	1038.943	1037.059	1037.131	1038.073	1039.595	1039.812
25	1033.943	1032.856	1029.306	1029.306	1030.176	1027.640	1028.364	1028.799	1030.973	1030.755
26	1025.249	1023.799	1020.394	1019.307	1020.539	1018.220	1018.872	1019.525	1020.611	1021.263
27	1015.032	1012.931	1009.526	1010.178	1010.033	1008.439	1008.801	1009.526	1011.554	1011.627
28	1005.758	1003.222	999.889	999.672	1000.541	998.440	998.657	998.947	999.962	1000.831
29	995.179	992.571	989.238	988.948	989.818	987.716	988.151	988.803	990.687	990.687
30	984.166	981.775	977.935	978.152	979.239	976.631	977.355	976.921	978.877	980.326
31	973.153	970.617	966.559	967.791	967.574	966.125	966.125	966.125	968.371	967.864
32	961.922	959.024	955.764	954.604	956.561	953.952	954.459	954.387	956.416	956.561
33	949.895	947.938	943.301	944.098	944.533	942.432	943.301	942.142	944.316	945.982
34	938.084	935.911	930.839	931.201	932.288	929.897	930.114	930.404	932.578	932.650
35	925.984	922.869	918.739	918.594	919.825	917.507	917.434	917.290	920.188	920.333
36	913.232	910.624	906.059	906.131	907.291	904.610	904.610	905.334	906.783	907.508
37	900.625	897.147	892.220	893.017	893.307	891.785	891.495	891.278	894.176	894.611
38	887.365	883.670	879.540	879.033	880.844	878.381	878.671	877.946	880.192	880.844
39	873.599	870.121	866.281	866.571	867.005	864.904	863.817	864.397	866.788	867.585
40	859.615	856.209	852.369	852.442	852.224	850.268	849.906	849.906	852.587	853.891
41	844.689	842.733	837.588	837.733	838.240	836.429	835.415	836.067	838.675	839.327
42	830.850	827.372	823.170	823.459	823.822	822.373	821.141	820.996	823.604	824.981
43	816.214	813.171	809.475	809.330	809.620	807.229	806.215	806.795	809.186	809.910
44	801.505	797.955	794.187	793.970	793.390	792.303	791.506	791.361	794.622	795.274
45	785.420	782.377	778.392	778.392	779.334	776.725	776.001	776.218	778.754	779.406
46	770.567	766.147	762.886	763.321	762.959	761.292	760.423	760.350	762.959	764.191
47	754.264	750.931	747.671	747.308	747.381	745.280	744.990	744.772	747.816	748.178
48	738.324	735.063	730.861	730.933	731.368	729.847	728.977	728.325	731.513	733.035
49	722.333	718.406	715.058	715.631	715.247	713.283	712.486	712.327	714.950	715.790
50	706.074	702.045	699.038	699.350	698.372	696.814	695.734	695.858	698.720	699.205
51	689.655	685.569	681.562	682.265	682.258	680.200	679.381	678.975	681.736	682.671
52	672.143	669.201	665.448	665.745	665.144	662.260	662.426	661.528	664.890	665.528
53	655.492	651.804	648.551	648.493	648.066	645.725	644.972	645.378	647.856	648.660

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CANDELA TABULATION - (Cont.)

54	637.886	634.785	631.401	631.705	630.655	628.561	627.887	627.706	630.481	631.278
55	621.163	617.591	614.142	613.917	613.367	610.483	610.063	610.418	613.186	613.743
56	603.397	600.078	596.006	596.282	595.166	593.333	592.391	592.456	595.238	595.659
57	585.935	582.385	579.102	579.131	577.863	575.458	573.936	574.646	577.566	577.856
58	568.307	564.539	560.880	561.372	559.771	557.358	556.177	556.808	559.699	559.981
59	550.439	546.439	543.070	542.817	541.795	539.179	537.549	538.766	541.324	541.657
60	532.108	528.463	525.311	525.116	523.927	520.761	519.399	520.623	523.464	524.275
61	513.878	509.972	507.183	506.799	505.198	502.915	500.930	502.321	505.132	505.632
62	495.771	491.612	489.199	488.344	486.874	484.243	482.345	483.490	487.214	487.634
63	477.237	472.600	470.281	470.267	468.434	466.035	463.883	465.419	467.774	468.600
64	458.398	454.370	451.428	451.870	449.899	447.400	445.277	446.588	449.624	450.211
65	440.024	435.915	433.148	433.090	431.170	428.858	426.735	428.170	431.409	431.387
66	420.990	416.961	414.280	414.084	412.461	410.411	408.027	409.281	412.346	412.396
67	402.593	398.028	395.746	395.355	394.021	391.732	389.623	390.746	394.021	393.927
68	383.660	379.654	376.799	376.755	374.777	372.741	370.488	372.321	375.082	375.147
69	364.626	360.859	358.156	358.025	356.279	354.207	351.686	353.164	356.294	356.243
70	345.549	342.230	339.542	339.136	337.368	335.412	333.173	334.448	337.535	337.484
71	326.717	323.102	320.928	320.624	318.740	317.175	314.842	315.711	318.697	319.225
72	307.654	303.995	302.619	301.720	299.981	298.228	296.409	297.496	299.438	300.184
73	289.004	285.360	283.845	283.229	281.244	279.730	277.947	278.426	280.853	280.947
74	270.340	266.565	265.833	264.587	263.123	261.442	259.623	259.928	262.362	262.630
75	251.204	248.328	247.320	246.147	244.480	243.219	241.430	241.133	243.777	243.727
76	233.264	229.808	228.960	227.707	226.613	225.403	223.403	222.968	225.279	225.569
77	214.252	211.716	210.404	209.332	208.846	207.535	205.825	204.767	206.499	207.151
78	196.145	193.522	192.689	191.124	190.653	189.566	187.689	186.639	188.305	188.907
79	178.314	175.495	174.430	173.488	173.184	171.995	170.025	168.720	170.351	170.814
80	160.120	157.678	156.519	155.628	155.244	154.265	152.143	150.846	152.541	152.990
81	142.332	139.948	138.608	137.977	138.217	137.050	134.710	133.456	135.007	135.492
82	124.370	122.385	120.994	120.545	120.827	119.856	117.248	115.784	117.407	117.784
83	106.850	105.054	104.119	103.344	104.119	102.800	99.916	98.627	100.025	100.518
84	89.439	87.845	87.331	86.179	87.389	85.954	83.092	81.781	83.020	83.382
85	72.753	71.165	70.297	69.834	70.944	69.258	66.422	64.857	65.817	66.289
86	56.100	54.932	54.057	53.608	54.700	52.959	50.144	48.656	49.405	49.876
87	39.630	38.559	37.832	37.465	38.565	36.847	33.720	32.646	33.091	34.034
88	23.812	23.067	22.024	20.973	20.740	19.008	18.034	17.292	17.575	18.393
89	9.198	8.403	5.679	1.851	1.134	0.949	1.506	3.305	3.956	4.063
90	1.014	0.722	0.329	0.205	0.000	0.000	0.000	0.239	0.358	0.059
91	0.834	0.478	0.119	0.002	0.000	0.000	0.000	0.239	0.358	0.000
92	0.717	0.478	0.060	0.000	0.000	0.000	0.000	0.239	0.358	0.000
93	0.775	0.419	0.059	0.000	0.000	0.000	0.000	0.239	0.418	0.000
94	0.716	0.418	0.000	0.000	0.000	0.000	0.000	0.298	0.418	0.000
95	0.716	0.418	0.000	0.000	0.000	0.000	0.000	0.240	0.418	0.000
96	0.716	0.418	0.000	0.000	0.000	0.000	0.000	0.358	0.477	0.060
97	0.716	0.418	0.000	0.000	0.000	0.000	0.000	0.358	0.479	0.118
98	0.716	0.418	0.000	0.000	0.000	0.000	0.000	0.358	0.656	0.061
99	0.716	0.418	0.000	0.000	0.000	0.000	0.000	0.358	0.656	0.119
100	0.776	0.418	0.000	0.000	0.000	0.000	0.000	0.417	0.774	0.119
101	0.894	0.418	0.000	0.000	0.000	0.000	0.060	0.477	0.776	0.179
102	0.836	0.418	0.000	0.000	0.000	0.000	0.120	0.537	0.894	0.299
103	0.836	0.418	0.000	0.000	0.000	0.059	0.179	0.655	1.012	0.357
104	0.895	0.418	0.000	0.000	0.000	0.001	0.241	0.657	0.955	0.299
105	0.835	0.418	0.000	0.000	0.060	0.059	0.300	0.657	0.955	0.358
106	0.953	0.418	0.000	0.000	0.000	0.060	0.360	0.657	0.955	0.477
107	0.895	0.477	0.000	0.000	0.062	0.120	0.361	0.657	0.955	0.478
108	0.895	0.539	0.000	0.000	0.122	0.061	0.421	0.657	0.955	0.478
109	0.895	0.657	0.000	0.000	0.180	0.061	0.421	0.657	0.954	0.478

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CANDELA TABULATION - (Cont.)

110	0.895	0.776	0.000	0.000	0.121	0.122	0.423	0.657	0.896	0.478
111	0.895	0.716	0.060	0.000	0.121	0.242	0.540	0.657	0.954	0.478
112	0.895	0.716	0.060	0.000	0.123	0.182	0.482	0.657	0.835	0.478
113	0.954	0.716	0.060	0.000	0.180	0.301	0.601	0.657	0.776	0.478
114	0.836	0.716	0.120	0.000	0.122	0.302	0.602	0.657	0.776	0.478
115	0.656	0.716	0.240	0.000	0.183	0.422	0.722	0.657	0.776	0.478
116	0.656	0.716	0.358	0.000	0.241	0.362	0.781	0.657	0.776	0.478
117	0.417	0.598	0.300	0.000	0.241	0.483	0.722	0.657	0.776	0.478
118	0.299	0.597	0.419	0.000	0.302	0.483	0.721	0.657	0.835	0.478
119	0.060	0.597	0.540	0.000	0.302	0.604	0.721	0.657	0.597	0.478
120	0.000	0.597	0.598	0.001	0.303	0.544	0.721	0.657	0.302	0.478
121	0.000	0.597	0.542	0.119	0.422	0.664	0.721	0.657	0.178	0.478
122	0.000	0.656	0.719	0.060	0.422	0.604	0.721	0.657	0.060	0.479
123	0.000	0.717	0.719	0.122	0.422	0.604	0.721	0.657	0.060	0.597
124	0.000	0.776	0.839	0.240	0.422	0.604	0.721	0.717	0.000	0.597
125	0.000	0.776	0.839	0.241	0.423	0.604	0.721	0.717	0.000	0.656
126	0.000	0.835	0.839	0.301	0.484	0.604	0.721	0.895	0.000	0.776
127	0.000	0.836	0.959	0.362	0.545	0.604	0.781	0.956	0.000	0.837
128	0.000	0.836	0.959	0.303	0.603	0.604	0.781	0.956	0.000	0.955
129	0.000	0.836	0.959	0.301	0.543	0.604	0.783	1.135	0.000	1.014
130	0.000	0.836	0.959	0.301	0.543	0.604	0.901	1.135	0.000	0.955
131	0.000	0.836	0.959	0.301	0.543	0.604	0.841	1.313	0.000	0.955
132	0.000	0.836	1.019	0.301	0.543	0.604	0.903	1.434	0.000	1.012
133	0.000	0.836	1.019	0.301	0.543	0.604	1.022	1.493	0.000	0.895
134	0.000	0.836	1.019	0.301	0.543	0.604	1.082	1.554	0.000	0.895
135	0.000	0.836	1.019	0.301	0.543	0.663	1.141	1.670	0.059	0.895
136	0.000	0.836	1.019	0.301	0.544	0.604	1.082	1.672	0.000	0.895
137	0.000	0.836	1.019	0.301	0.604	0.723	1.082	1.672	0.000	0.895
138	0.000	0.836	1.019	0.301	0.663	0.784	1.082	1.672	0.059	0.895
139	0.000	0.836	1.018	0.303	0.605	0.785	1.082	1.792	0.001	0.895
140	0.000	0.836	0.959	0.421	0.664	0.785	1.082	1.792	0.177	0.895
141	0.000	0.836	0.959	0.422	0.725	0.906	1.082	1.851	0.179	0.895
142	0.000	0.836	0.959	0.423	0.784	0.906	1.082	1.851	0.121	0.895
143	0.000	0.836	0.959	0.542	0.724	0.906	1.082	1.911	0.237	0.895
144	0.000	0.836	0.959	0.483	0.724	0.906	1.142	1.911	0.239	0.895
145	0.000	0.836	0.959	0.602	0.725	0.906	1.203	1.911	0.297	0.895
146	0.000	0.836	0.959	0.723	0.785	0.966	1.263	1.971	0.298	0.895
147	0.000	0.836	0.959	0.664	0.845	0.966	1.321	2.029	0.358	0.895
148	0.000	0.836	0.959	0.723	0.845	0.966	1.382	2.030	0.358	0.895
149	0.000	0.836	0.959	0.723	0.845	0.966	1.382	2.030	0.417	0.895
150	0.000	0.836	0.959	0.784	0.845	0.966	1.382	2.030	0.359	0.895
151	0.000	0.836	0.959	0.784	0.845	0.966	1.382	2.030	0.477	0.952
152	0.000	0.836	0.959	0.784	0.845	0.966	1.382	1.972	0.419	0.659
153	0.000	0.836	0.959	0.784	0.846	0.966	1.382	1.971	0.537	0.537
154	0.000	0.836	1.139	0.843	0.905	0.966	1.382	1.971	0.597	0.357
155	0.000	0.836	1.198	0.844	0.905	0.966	1.382	1.971	0.714	0.240
156	0.000	0.836	1.141	0.844	0.906	0.966	1.382	1.971	0.777	0.179
157	0.000	0.836	1.258	0.904	0.966	0.966	1.382	1.971	0.893	0.179
158	0.000	0.836	1.199	0.904	0.966	0.966	1.382	1.971	1.074	0.179
159	0.000	0.836	1.317	0.904	0.966	0.966	1.382	1.969	1.134	0.179
160	0.000	0.836	1.258	0.904	0.966	0.966	1.382	1.675	1.193	0.179
161	0.000	0.894	1.258	0.904	1.026	0.966	1.382	1.671	1.254	0.179
162	0.000	0.895	1.318	0.904	1.026	0.966	1.382	1.613	1.312	0.179
163	0.000	0.955	1.319	0.904	1.026	0.966	1.382	1.612	1.372	0.179
164	0.000	0.896	1.378	0.904	1.026	0.966	1.382	1.613	1.373	0.179
165	0.000	0.895	1.679	0.904	1.026	0.966	1.382	1.672	1.491	0.179

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CANDELA TABULATION - (Cont.)

166	0.000	0.895	1.797	0.904	1.028	1.027	1.443	1.732	1.432	0.179
167	0.000	0.897	1.737	0.904	1.207	1.086	1.502	1.732	1.432	0.179
168	0.060	1.015	1.737	0.966	1.267	1.147	1.562	2.087	1.432	0.179
169	0.060	0.956	1.737	1.085	1.207	1.147	1.502	2.090	1.432	0.179
170	0.060	0.956	1.856	1.085	1.207	1.147	1.502	2.090	1.432	0.179
171	0.060	1.015	1.798	1.086	1.207	1.147	1.502	2.090	1.432	0.179
172	0.060	1.074	1.917	1.145	1.207	1.147	1.502	2.090	1.432	0.179
173	0.060	1.016	1.858	1.145	1.207	1.147	1.502	2.090	1.432	0.179
174	0.060	1.015	1.857	1.145	1.207	1.147	1.502	2.090	1.432	0.178
175	0.060	1.015	1.857	1.145	1.207	1.147	1.502	2.090	1.432	0.120
176	0.060	1.015	1.857	1.145	1.207	1.147	1.502	2.090	1.432	0.178
177	0.060	1.015	1.857	1.145	1.207	1.147	1.502	2.090	1.432	0.120
178	0.060	1.015	1.858	1.145	1.207	1.147	1.502	2.031	1.432	0.060
179	0.060	1.015	1.917	1.145	1.207	1.147	1.502	2.030	1.432	0.060
180	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060

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	1150.525	1150.525	1150.525	1150.525	1150.525	1150.525	1150.525
1	1149.220	1151.104	1149.800	1151.829	1150.959	1151.249	1150.380
2	1150.017	1149.872	1149.583	1149.945	1150.887	1150.669	1150.162
3	1149.075	1149.438	1149.003	1150.597	1150.380	1150.162	1149.438
4	1147.481	1148.278	1147.699	1149.293	1150.017	1148.786	1148.351
5	1145.308	1145.525	1145.308	1146.902	1147.699	1147.119	1146.032
6	1143.424	1143.931	1143.641	1145.887	1146.177	1145.163	1144.293
7	1139.946	1141.395	1140.888	1143.134	1144.293	1142.699	1142.482
8	1138.497	1138.859	1138.714	1140.815	1141.612	1140.743	1138.352
9	1134.005	1134.947	1135.309	1137.845	1139.077	1136.758	1136.178
10	1130.817	1131.541	1131.758	1134.367	1135.164	1133.860	1131.976
11	1127.266	1128.426	1127.484	1130.164	1132.483	1129.947	1127.484
12	1122.484	1123.861	1123.861	1126.324	1126.976	1125.093	1124.296
13	1117.702	1118.499	1118.282	1121.832	1123.643	1120.093	1118.934
14	1112.413	1113.500	1113.717	1116.688	1118.499	1116.108	1114.224
15	1107.196	1107.268	1107.558	1111.543	1113.065	1110.022	1108.718
16	1101.110	1101.907	1102.559	1106.399	1107.051	1104.225	1102.849
17	1093.647	1096.183	1095.531	1099.878	1101.110	1098.501	1096.328
18	1087.633	1088.865	1089.589	1093.864	1095.096	1091.980	1090.096
19	1080.605	1081.547	1083.141	1085.749	1087.705	1085.169	1083.213
20	1073.214	1074.881	1075.098	1079.880	1080.532	1077.417	1076.402
21	1065.534	1065.896	1068.215	1071.113	1072.997	1069.012	1068.722
22	1056.839	1058.868	1059.737	1063.360	1065.172	1061.042	1060.824
23	1049.086	1050.463	1051.115	1055.100	1056.622	1053.361	1051.767
24	1038.943	1041.189	1042.565	1046.551	1048.145	1045.174	1044.159
25	1030.320	1031.552	1033.291	1037.349	1038.508	1035.610	1033.943
26	1020.539	1023.002	1023.437	1027.422	1029.668	1025.973	1025.249
27	1011.047	1012.207	1014.163	1018.148	1020.032	1016.626	1015.032
28	1000.903	1003.150	1004.236	1008.077	1008.874	1005.830	1005.758
29	990.252	991.629	993.440	997.570	999.092	995.759	995.179
30	979.529	981.485	982.717	986.412	988.296	985.253	984.166
31	968.806	969.892	971.776	976.124	976.921	974.385	973.153
32	956.126	958.734	959.966	964.023	965.473	962.574	961.922
33	944.243	947.069	948.590	951.996	953.952	951.344	949.895
34	931.998	935.114	936.056	940.403	941.562	939.026	938.084
35	920.405	922.361	924.028	928.013	929.027	927.288	925.984
36	907.073	909.319	911.276	914.898	916.348	914.319	913.232

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CANDELA TABULATION - (Cont.)

37	893.814	896.350	898.596	901.784	903.378	900.697	900.625
38	880.699	882.946	884.829	888.235	889.394	887.872	887.365
39	867.005	869.831	871.642	874.686	876.280	874.178	873.599
40	853.239	855.123	856.789	860.267	862.078	860.774	859.615
41	838.965	841.211	843.457	846.718	847.587	845.921	844.689
42	825.271	826.575	828.314	832.226	833.603	831.574	830.850
43	809.983	812.011	813.750	816.431	818.243	816.649	816.214
44	794.912	797.158	798.897	801.433	802.809	802.085	801.505
45	780.638	781.290	783.246	786.290	787.449	786.217	785.420
46	763.828	766.219	767.524	771.074	771.509	771.726	770.567
47	748.757	751.076	752.308	754.989	756.583	755.134	754.264
48	732.890	734.556	735.715	738.976	740.353	739.483	738.324
49	716.044	719.051	719.942	722.963	723.420	722.681	722.333
50	700.473	702.306	703.451	706.429	708.117	706.501	706.074
51	683.294	685.960	686.366	689.539	690.865	690.445	689.655
52	666.499	668.477	669.353	672.469	673.577	672.911	672.143
53	649.682	652.029	652.696	655.369	656.876	656.123	655.492
54	632.169	634.901	635.212	637.951	639.436	638.791	637.886
55	615.185	617.497	617.866	619.815	622.243	621.619	621.163
56	597.216	599.890	600.259	602.295	604.013	604.063	603.397
57	579.465	582.153	582.515	584.319	586.333	586.746	585.935
58	561.293	563.981	564.836	566.256	568.473	568.596	568.307
59	542.896	545.954	546.831	547.657	550.294	550.598	550.439
60	525.021	527.985	528.579	529.688	531.369	532.006	532.108
61	506.618	509.393	510.378	511.204	513.117	513.689	513.878
62	488.272	490.931	491.953	492.525	494.873	495.148	495.771
63	470.339	472.643	472.846	474.194	475.802	476.715	477.237
64	451.008	453.913	454.290	454.993	457.435	458.311	458.398
65	432.648	435.256	435.278	436.669	438.575	439.661	440.024
66	413.983	416.251	416.606	417.432	419.323	420.642	420.990
67	395.166	397.608	397.644	398.702	400.456	402.231	402.593
68	376.451	378.588	378.914	379.856	381.682	383.240	383.660
69	357.410	359.721	360.156	361.156	362.576	364.322	364.626
70	338.629	340.955	341.209	341.890	343.831	345.099	345.549
71	320.015	322.457	322.145	323.406	324.558	326.217	326.717
72	301.155	303.408	303.466	304.778	305.799	307.031	307.654
73	282.498	284.823	284.555	285.976	287.120	288.062	289.004
74	264.159	266.144	265.811	267.311	268.412	269.260	270.340
75	245.676	247.415	247.045	248.762	249.958	250.255	251.204
76	227.286	229.619	228.294	230.590	231.844	231.924	233.264
77	208.897	211.506	209.412	212.100	213.288	213.237	214.252
78	190.935	193.428	190.790	193.739	194.870	195.246	196.145
79	172.974	175.466	172.582	175.669	176.980	176.893	178.314
80	154.867	157.888	154.360	157.548	159.069	159.091	160.120
81	137.354	140.513	136.833	140.187	141.042	141.202	142.332
82	119.393	123.059	119.248	122.588	123.660	123.573	124.370
83	102.423	105.923	102.778	105.720	106.314	106.227	106.850
84	85.157	88.852	85.817	88.874	89.432	88.968	89.439
85	68.416	72.007	69.989	72.380	72.876	72.492	72.753
86	52.284	55.316	54.163	56.163	56.289	55.781	56.100
87	35.854	38.896	38.247	39.897	39.702	39.576	39.630
88	19.509	19.482	17.494	20.126	23.008	23.538	23.812
89	2.029	0.728	0.594	1.247	4.224	7.940	9.198
90	0.000	0.000	0.128	0.120	0.262	0.478	1.014
91	0.000	0.000	0.001	0.000	0.060	0.417	0.834
92	0.000	0.000	0.000	0.000	0.060	0.300	0.717

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CANDELA TABULATION - (Cont.)

93	0.000	0.000	0.000	0.000	0.000	0.239	0.775
94	0.000	0.000	0.000	0.000	0.000	0.239	0.716
95	0.000	0.000	0.000	0.000	0.000	0.239	0.716
96	0.000	0.000	0.000	0.000	0.000	0.239	0.716
97	0.000	0.000	0.000	0.000	0.000	0.239	0.716
98	0.000	0.000	0.000	0.000	0.000	0.179	0.716
99	0.000	0.000	0.000	0.000	0.000	0.179	0.716
100	0.000	0.000	0.000	0.000	0.000	0.179	0.776
101	0.000	0.000	0.000	0.000	0.000	0.179	0.894
102	0.000	0.000	0.000	0.000	0.000	0.179	0.836
103	0.000	0.000	0.000	0.000	0.000	0.240	0.836
104	0.000	0.000	0.000	0.000	0.000	0.358	0.895
105	0.000	0.000	0.000	0.000	0.000	0.358	0.835
106	0.118	0.000	0.000	0.000	0.000	0.358	0.953
107	0.120	0.001	0.000	0.000	0.000	0.418	0.895
108	0.120	0.060	0.000	0.000	0.000	0.539	0.895
109	0.239	0.060	0.000	0.000	0.000	0.714	0.895
110	0.180	0.061	0.000	0.000	0.000	0.836	0.895
111	0.239	0.121	0.000	0.000	0.000	0.777	0.895
112	0.241	0.180	0.000	0.000	0.000	0.777	0.895
113	0.359	0.121	0.000	0.000	0.000	0.836	0.954
114	0.419	0.181	0.000	0.000	0.000	0.836	0.836
115	0.361	0.241	0.000	0.000	0.060	0.892	0.656
116	0.479	0.241	0.000	0.000	0.120	0.597	0.656
117	0.479	0.241	0.000	0.000	0.240	0.537	0.417
118	0.479	0.241	0.000	0.000	0.181	0.418	0.299
119	0.479	0.241	0.000	0.000	0.299	0.418	0.060
120	0.479	0.241	0.000	0.000	0.420	0.418	0.000
121	0.479	0.301	0.000	0.000	0.361	0.418	0.000
122	0.479	0.301	0.000	0.000	0.541	0.481	0.000
123	0.479	0.301	0.000	0.000	0.660	0.715	0.000
124	0.479	0.362	0.000	0.000	0.720	0.776	0.000
125	0.479	0.362	0.000	0.060	0.661	0.836	0.000
126	0.539	0.362	0.000	0.061	0.661	0.836	0.000
127	0.599	0.362	0.000	0.120	0.661	0.836	0.000
128	0.599	0.362	0.000	0.121	0.661	0.836	0.000
129	0.659	0.362	0.000	0.121	0.661	0.836	0.000
130	0.659	0.362	0.000	0.121	0.661	0.836	0.000
131	0.659	0.422	0.000	0.121	0.661	0.836	0.000
132	0.719	0.422	0.000	0.121	0.661	0.836	0.000
133	0.719	0.422	0.000	0.121	0.661	0.836	0.000
134	0.719	0.482	0.000	0.121	0.661	0.836	0.000
135	0.778	0.423	0.000	0.121	0.661	0.836	0.000
136	0.779	0.543	0.000	0.121	0.661	0.836	0.000
137	0.838	0.543	0.000	0.181	0.661	0.836	0.000
138	0.780	0.543	0.000	0.181	0.661	0.836	0.000
139	0.779	0.663	0.000	0.241	0.661	0.836	0.000
140	0.779	0.663	0.000	0.242	0.661	0.836	0.000
141	0.899	0.784	0.000	0.242	0.661	0.836	0.000
142	0.841	0.785	0.059	0.242	0.661	0.836	0.000
143	0.958	0.844	0.060	0.302	0.661	0.836	0.000
144	0.959	0.844	0.060	0.303	0.661	0.837	0.000
145	1.019	0.844	0.060	0.362	0.661	0.896	0.000
146	1.020	0.904	0.060	0.423	0.661	0.896	0.000
147	1.195	0.904	0.060	0.423	0.661	0.896	0.000
148	1.317	1.025	0.060	0.423	0.721	0.896	0.000

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CANDELA TABULATION - (Cont.)

149	1.318	0.966	0.178	0.423	0.840	0.896	0.000
150	1.318	1.024	0.122	0.423	0.782	0.896	0.000
151	1.318	1.084	0.121	0.423	0.782	0.896	0.000
152	1.318	1.025	0.180	0.423	0.841	0.896	0.000
153	1.318	1.145	0.181	0.423	0.841	0.896	0.000
154	1.318	1.206	0.240	0.483	0.960	0.896	0.000
155	1.318	1.206	0.301	0.424	1.021	0.896	0.000
156	1.318	1.266	0.241	0.542	1.022	0.896	0.000
157	1.318	1.266	0.241	0.483	1.081	0.896	0.000
158	1.378	1.266	0.241	0.485	1.082	0.896	0.000
159	1.258	1.267	0.241	0.603	1.082	0.896	0.000
160	1.258	1.326	0.241	0.724	1.082	0.896	0.000
161	1.258	1.327	0.241	0.665	1.082	0.896	0.000
162	1.258	1.386	0.301	0.665	1.142	0.896	0.000
163	1.258	1.387	0.302	0.784	1.201	0.955	0.000
164	1.198	1.447	0.599	0.906	1.322	1.016	0.000
165	1.198	1.447	0.724	0.966	1.445	1.133	0.000
166	1.198	1.509	0.724	0.966	1.681	1.194	0.000
167	1.198	1.626	0.841	1.027	1.743	1.194	0.000
168	1.198	1.989	0.785	1.027	1.743	1.255	0.060
169	1.198	1.929	0.843	1.027	1.743	1.372	0.060
170	1.198	1.929	0.905	1.088	1.923	1.492	0.060
171	1.078	1.929	1.024	1.148	1.923	1.433	0.060
172	1.078	1.929	1.085	1.268	1.982	1.433	0.060
173	1.019	1.929	1.028	1.268	1.983	1.433	0.060
174	1.019	1.929	1.146	1.332	1.983	1.433	0.060
175	1.019	1.929	1.206	1.510	1.983	1.433	0.060
176	1.019	1.929	1.148	1.570	1.983	1.433	0.060
177	1.019	1.929	1.147	1.510	1.983	1.433	0.060
178	1.019	1.929	1.147	1.510	2.103	1.433	0.060
179	1.019	1.989	1.147	1.510	2.044	1.433	0.060
180	0.060	0.060	0.060	0.060	0.060	0.060	0.060

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	421.52	N.A.	12.40
0-30	897.12	N.A.	26.40
0-40	1473.76	N.A.	43.40
0-60	2626.29	N.A.	77.30
0-80	3315.49	N.A.	97.60
0-90	3392.79	N.A.	99.90
10-90	3283.88	N.A.	96.70
20-40	1052.24	N.A.	31.00
20-50	1654.62	N.A.	48.70
40-70	1581.4	N.A.	46.60
60-80	689.20	N.A.	20.30
70-80	260.33	N.A.	7.70
80-90	77.30	N.A.	2.30
90-110	0.43	N.A.	0.00
90-120	0.81	N.A.	0.00
90-130	1.22	N.A.	0.00
90-150	2.18	N.A.	0.10
90-180	3.01	N.A.	0.10
110-180	2.58	N.A.	0.10
0-180	3395.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.92
10-20	312.60
20-30	475.60
30-40	576.64
40-50	602.38
50-60	550.15
60-70	428.87
70-80	260.33
80-90	77.30
90-100	0.16
100-110	0.27
110-120	0.37
120-130	0.42
130-140	0.47
140-150	0.48
150-160	0.41
160-170	0.30
170-180	0.12

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_3500K.IES

UGR TABLE - CORRECTED

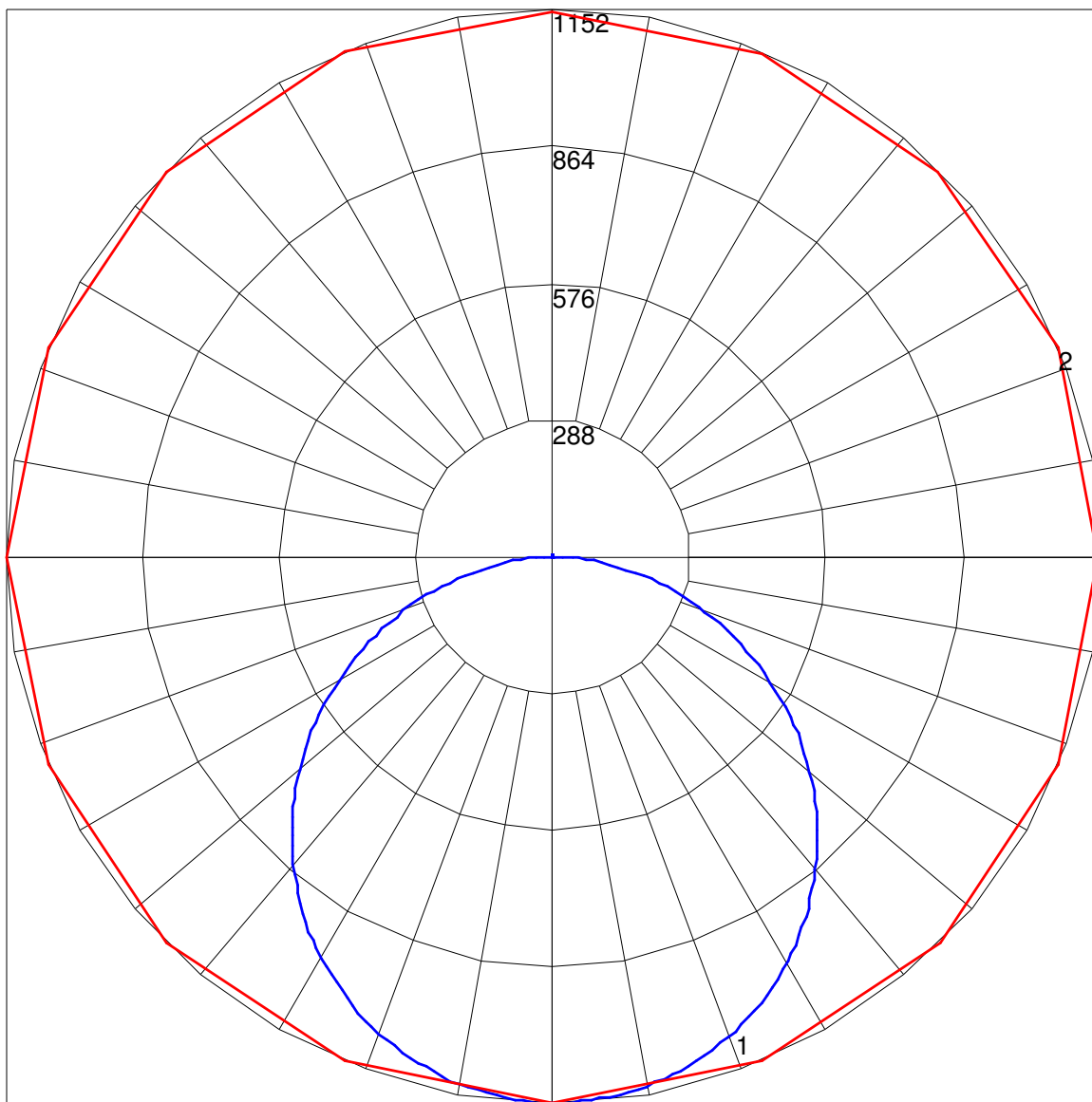
Reflectances

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	17.1	18.8	17.5	19.1	19.4	17.0	18.7	17.4	19.0	19.3
	3H	19.0	20.6	19.4	20.9	21.2	18.9	20.4	19.3	20.8	21.1
	4H	19.8	21.2	20.2	21.6	22.0	19.7	21.1	20.1	21.5	21.8
	6H	20.4	21.7	20.8	22.1	22.5	20.3	21.6	20.7	22.0	22.3
	8H	20.6	21.9	21.0	22.3	22.7	20.5	21.7	20.9	22.1	22.5
	12H	20.8	22.0	21.2	22.4	22.8	20.6	21.8	21.1	22.2	22.6
4H	2H	17.8	19.2	18.2	19.5	19.9	17.7	19.1	18.1	19.5	19.8
	3H	19.9	21.1	20.3	21.5	21.9	19.8	21.0	20.2	21.4	21.8
	4H	20.8	21.9	21.3	22.3	22.8	20.7	21.8	21.1	22.2	22.6
	6H	21.6	22.5	22.0	23.0	23.4	21.5	22.4	21.9	22.8	23.3
	8H	21.8	22.7	22.3	23.2	23.6	21.7	22.6	22.2	23.0	23.5
	12H	22.0	22.8	22.5	23.3	23.8	21.9	22.7	22.4	23.2	23.7
8H	4H	21.2	22.1	21.6	22.5	23.0	21.1	22.0	21.5	22.4	22.9
	6H	22.1	22.8	22.6	23.3	23.8	21.9	22.7	22.4	23.2	23.6
	8H	22.4	23.1	22.9	23.6	24.1	22.3	23.0	22.8	23.5	23.9
	12H	22.7	23.3	23.2	23.8	24.3	22.6	23.2	23.1	23.6	24.2
12H	4H	21.2	22.0	21.7	22.5	23.0	21.1	21.9	21.6	22.4	22.9
	6H	22.2	22.8	22.7	23.3	23.8	22.0	22.7	22.6	23.2	23.7
	8H	22.5	23.2	23.1	23.6	24.2	22.4	23.0	22.9	23.5	24.1

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 1151.829 Located At Horizontal Angle = 292.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)