



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_5000K.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\_5000K  
[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	3414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	4194	4157	4162
55	4090	4043	4038
65	3932	3870	3853
75	3665	3608	3567
85	3152	3046	3074

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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	1156.623	1156.623	1156.623	1156.623	1156.623	1156.623	1156.623	1156.623	1156.623	1156.623
1	1156.477	1156.404	1155.749	1155.384	1156.113	1156.914	1156.768	1157.060	1156.477	1156.477
2	1156.259	1155.967	1155.312	1154.802	1155.312	1155.894	1155.603	1155.894	1155.894	1155.676
3	1155.530	1155.239	1155.020	1154.510	1154.875	1154.656	1154.219	1154.802	1154.875	1154.146
4	1154.438	1152.908	1153.054	1152.617	1152.981	1152.471	1152.617	1153.418	1154.219	1153.345
5	1152.107	1152.544	1151.451	1151.888	1151.451	1151.451	1149.776	1151.305	1151.524	1151.451
6	1150.359	1148.683	1149.412	1148.100	1148.902	1148.465	1148.028	1148.829	1149.047	1148.392
7	1148.538	1147.445	1147.008	1145.915	1146.352	1146.061	1145.041	1146.280	1147.081	1147.008
8	1144.386	1143.803	1143.147	1143.657	1144.021	1143.147	1141.618	1143.512	1144.459	1143.949
9	1142.200	1140.962	1140.962	1139.214	1140.671	1139.360	1138.413	1139.797	1140.744	1140.379
10	1137.976	1136.883	1137.102	1135.572	1136.737	1135.645	1134.479	1135.791	1137.102	1137.102
11	1133.460	1133.897	1132.003	1131.857	1132.294	1132.003	1130.546	1131.493	1132.731	1132.221
12	1130.255	1128.871	1128.507	1126.831	1127.414	1126.977	1125.593	1126.977	1128.434	1128.798
13	1124.865	1123.553	1123.626	1122.097	1123.335	1120.858	1120.786	1122.315	1124.136	1123.262
14	1120.130	1119.693	1117.508	1117.071	1117.144	1115.832	1115.541	1116.925	1118.236	1118.528
15	1114.594	1113.720	1112.118	1110.734	1112.118	1110.515	1109.641	1111.316	1112.409	1112.628
16	1108.694	1107.893	1106.436	1105.708	1105.489	1104.324	1103.814	1104.688	1106.800	1106.436
17	1102.139	1101.847	1100.026	1098.205	1099.444	1097.623	1097.550	1099.152	1100.609	1099.953
18	1095.874	1094.855	1093.398	1091.358	1092.742	1091.431	1090.484	1091.431	1093.835	1093.616
19	1088.955	1087.425	1086.260	1085.240	1085.458	1082.909	1082.763	1084.657	1086.478	1086.551
20	1082.108	1080.651	1078.320	1077.664	1078.101	1076.499	1076.353	1076.936	1079.267	1078.976
21	1074.387	1071.910	1070.963	1070.453	1070.526	1067.831	1068.632	1069.142	1071.327	1070.745
22	1066.447	1065.136	1062.222	1061.348	1062.587	1060.329	1059.819	1060.984	1063.024	1063.534
23	1057.342	1055.740	1053.409	1052.899	1053.627	1051.151	1052.025	1052.025	1054.283	1054.210
24	1049.694	1046.780	1044.085	1044.158	1044.450	1042.556	1042.629	1043.575	1045.105	1045.324
25	1039.424	1038.331	1034.762	1034.762	1035.636	1033.086	1033.815	1034.252	1036.437	1036.219
26	1030.683	1029.226	1025.803	1024.710	1025.948	1023.617	1024.273	1024.928	1026.021	1026.677
27	1020.412	1018.300	1014.877	1015.532	1015.386	1013.784	1014.148	1014.877	1016.916	1016.989
28	1011.089	1008.539	1005.189	1004.970	1005.844	1003.732	1003.951	1004.242	1005.262	1006.136
29	1000.454	997.832	994.481	994.190	995.064	992.952	993.389	994.044	995.938	995.938
30	989.383	986.979	983.118	983.337	984.430	981.807	982.536	982.099	984.065	985.522
31	978.311	975.762	971.683	972.921	972.702	971.246	971.246	971.246	973.504	972.994
32	967.021	964.107	960.829	959.664	961.631	959.008	959.518	959.445	961.485	961.631
33	954.929	952.963	948.301	949.102	949.539	947.427	948.301	947.136	949.321	950.996
34	943.057	940.871	935.773	936.137	937.229	934.826	935.044	935.336	937.521	937.594
35	930.892	927.760	923.608	923.463	924.701	922.370	922.297	922.152	925.065	925.211
36	918.072	915.450	910.861	910.934	912.100	909.405	909.405	910.133	911.590	912.318
37	905.398	901.902	896.949	897.750	898.042	896.512	896.221	896.002	898.916	899.353
38	892.069	888.354	884.202	883.692	885.513	883.037	883.328	882.600	884.858	885.513
39	878.229	874.733	870.872	871.164	871.601	869.488	868.396	868.978	871.382	872.183
40	864.171	860.748	856.887	856.960	856.741	854.775	854.411	854.411	857.106	858.417
41	849.166	847.199	842.028	842.173	842.683	840.862	839.843	840.498	843.120	843.776
42	835.254	831.757	827.533	827.824	828.188	826.731	825.493	825.347	827.970	829.354
43	820.540	817.481	813.766	813.620	813.912	811.508	810.488	811.071	813.475	814.203
44	805.754	802.184	798.397	798.178	797.596	796.503	795.702	795.556	798.834	799.489
45	789.583	786.524	782.518	782.518	783.465	780.842	780.114	780.332	782.882	783.537
46	774.651	770.208	766.930	767.367	767.003	765.327	764.453	764.381	767.003	768.241
47	758.262	754.911	751.634	751.269	751.342	749.230	748.939	748.720	751.779	752.143
48	742.237	738.959	734.735	734.808	735.245	733.715	732.841	732.185	735.390	736.920
49	726.162	722.214	718.848	719.424	719.038	717.064	716.263	716.102	718.739	719.584
50	709.816	705.766	702.744	703.057	702.073	700.507	699.422	699.546	702.423	702.911
51	693.311	689.203	685.175	685.881	685.874	683.805	682.982	682.574	685.349	686.289
52	675.705	672.748	668.975	669.274	668.669	665.770	665.938	665.034	668.414	669.055
53	658.967	655.259	651.989	651.931	651.501	649.148	648.391	648.798	651.290	652.098

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**CANDELA TABULATION - (Cont.)**

54	641.267	638.149	634.748	635.054	633.997	631.892	631.215	631.033	633.823	634.624
55	624.455	620.864	617.397	617.171	616.618	613.719	613.296	613.653	616.436	616.997
56	606.595	603.259	599.165	599.442	598.320	596.478	595.531	595.596	598.393	598.816
57	589.041	585.472	582.172	582.201	580.926	578.508	576.978	577.692	580.628	580.919
58	571.319	567.531	563.853	564.348	562.738	560.313	559.125	559.759	562.665	562.949
59	553.356	549.336	545.949	545.694	544.667	542.037	540.398	541.622	544.193	544.528
60	534.928	531.264	528.096	527.899	526.704	523.521	522.152	523.383	526.238	527.054
61	516.602	512.675	509.871	509.485	507.875	505.581	503.585	504.984	507.810	508.312
62	498.399	494.218	491.792	490.933	489.454	486.810	484.902	486.053	489.796	490.219
63	479.766	475.105	472.774	472.759	470.916	468.505	466.342	467.886	470.254	471.084
64	460.828	456.778	453.821	454.265	452.284	449.771	447.637	448.955	452.007	452.597
65	442.356	438.226	435.443	435.385	433.455	431.131	428.997	430.439	433.695	433.673
66	423.221	419.171	416.476	416.279	414.648	412.586	410.190	411.450	414.531	414.582
67	404.727	400.138	397.844	397.450	396.110	393.808	391.689	392.818	396.110	396.015
68	385.694	381.666	378.796	378.752	376.764	374.717	372.452	374.294	377.070	377.135
69	366.559	362.771	360.054	359.923	358.168	356.085	353.550	355.036	358.182	358.131
70	347.380	344.044	341.342	340.934	339.157	337.190	334.939	336.221	339.324	339.273
71	328.449	324.814	322.629	322.323	320.429	318.856	316.511	317.385	320.386	320.917
72	309.285	305.607	304.223	303.319	301.571	299.809	297.980	299.073	301.025	301.775
73	290.536	286.872	285.350	284.731	282.735	281.213	279.421	279.901	282.342	282.436
74	271.772	267.978	267.242	265.989	264.518	262.828	260.999	261.305	263.753	264.022
75	252.535	249.644	248.631	247.451	245.776	244.509	242.709	242.411	245.069	245.018
76	234.500	231.026	230.174	228.914	227.814	226.597	224.587	224.150	226.473	226.765
77	215.387	212.838	211.519	210.441	209.953	208.635	206.916	205.852	207.593	208.249
78	197.185	194.548	193.710	192.137	191.663	190.571	188.684	187.628	189.303	189.908
79	179.259	176.425	175.354	174.408	174.102	172.907	170.926	169.615	171.254	171.720
80	160.969	158.514	157.348	156.453	156.066	155.083	152.949	151.645	153.350	153.801
81	143.086	140.690	139.342	138.709	138.949	137.776	135.424	134.164	135.722	136.210
82	125.029	123.034	121.635	121.184	121.468	120.492	117.869	116.398	118.030	118.408
83	107.417	105.610	104.671	103.891	104.671	103.345	100.446	99.149	100.555	101.051
84	89.913	88.311	87.794	86.636	87.852	86.410	83.533	82.214	83.460	83.824
85	73.138	71.542	70.669	70.204	71.320	69.625	66.774	65.201	66.165	66.640
86	56.397	55.223	54.344	53.892	54.990	53.239	50.409	48.914	49.667	50.140
87	39.840	38.763	38.033	37.663	38.769	37.042	33.899	32.819	33.267	34.214
88	23.938	23.189	22.141	21.084	20.850	19.109	18.130	17.383	17.668	18.490
89	9.246	8.447	5.709	1.860	1.140	0.954	1.514	3.323	3.977	4.084
90	1.020	0.726	0.331	0.207	0.000	0.000	0.000	0.240	0.360	0.059
91	0.838	0.481	0.120	0.002	0.000	0.000	0.000	0.240	0.360	0.000
92	0.720	0.480	0.060	0.000	0.000	0.000	0.000	0.240	0.360	0.000
93	0.779	0.421	0.060	0.000	0.000	0.000	0.000	0.240	0.420	0.000
94	0.720	0.420	0.000	0.000	0.000	0.000	0.000	0.300	0.420	0.000
95	0.720	0.420	0.000	0.000	0.000	0.000	0.000	0.241	0.420	0.000
96	0.720	0.420	0.000	0.000	0.000	0.000	0.000	0.360	0.480	0.060
97	0.720	0.420	0.000	0.000	0.000	0.000	0.000	0.360	0.482	0.119
98	0.720	0.420	0.000	0.000	0.000	0.000	0.000	0.360	0.660	0.061
99	0.720	0.420	0.000	0.000	0.000	0.000	0.000	0.360	0.660	0.120
100	0.780	0.420	0.000	0.000	0.000	0.000	0.000	0.419	0.778	0.120
101	0.899	0.420	0.000	0.000	0.000	0.000	0.061	0.480	0.780	0.180
102	0.840	0.420	0.000	0.000	0.000	0.000	0.121	0.540	0.899	0.300
103	0.841	0.420	0.000	0.000	0.000	0.060	0.180	0.658	1.018	0.359
104	0.899	0.420	0.000	0.000	0.000	0.001	0.243	0.660	0.960	0.301
105	0.840	0.420	0.000	0.000	0.060	0.060	0.301	0.660	0.960	0.359
106	0.958	0.420	0.000	0.000	0.000	0.061	0.362	0.660	0.960	0.479
107	0.900	0.479	0.000	0.000	0.062	0.121	0.363	0.660	0.960	0.480
108	0.900	0.542	0.000	0.000	0.122	0.061	0.423	0.660	0.960	0.480
109	0.900	0.660	0.000	0.000	0.181	0.061	0.423	0.660	0.959	0.480

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**CANDELA TABULATION - (Cont.)**

110	0.900	0.780	0.000	0.000	0.121	0.123	0.425	0.660	0.900	0.480
111	0.900	0.720	0.060	0.000	0.121	0.243	0.543	0.660	0.960	0.480
112	0.900	0.720	0.060	0.000	0.123	0.183	0.485	0.660	0.839	0.480
113	0.959	0.720	0.060	0.000	0.181	0.303	0.604	0.660	0.780	0.480
114	0.841	0.720	0.120	0.000	0.123	0.304	0.605	0.660	0.780	0.480
115	0.660	0.720	0.242	0.000	0.184	0.424	0.726	0.660	0.780	0.480
116	0.660	0.720	0.360	0.000	0.243	0.364	0.785	0.660	0.780	0.480
117	0.419	0.601	0.302	0.000	0.243	0.486	0.726	0.660	0.780	0.480
118	0.301	0.600	0.421	0.000	0.303	0.486	0.725	0.660	0.839	0.480
119	0.060	0.600	0.543	0.000	0.303	0.607	0.725	0.660	0.600	0.480
120	0.000	0.600	0.601	0.001	0.305	0.547	0.725	0.660	0.303	0.480
121	0.000	0.600	0.544	0.119	0.425	0.668	0.725	0.660	0.179	0.480
122	0.000	0.660	0.723	0.061	0.425	0.607	0.725	0.660	0.060	0.482
123	0.000	0.721	0.723	0.123	0.425	0.607	0.725	0.660	0.060	0.600
124	0.000	0.780	0.843	0.241	0.425	0.607	0.725	0.720	0.000	0.601
125	0.000	0.780	0.843	0.242	0.425	0.607	0.725	0.720	0.000	0.660
126	0.000	0.840	0.843	0.303	0.487	0.607	0.725	0.900	0.000	0.780
127	0.000	0.840	0.964	0.364	0.548	0.607	0.785	0.961	0.000	0.842
128	0.000	0.840	0.964	0.304	0.606	0.607	0.785	0.961	0.000	0.960
129	0.000	0.840	0.964	0.303	0.546	0.607	0.787	1.141	0.000	1.019
130	0.000	0.840	0.964	0.303	0.546	0.607	0.906	1.141	0.000	0.960
131	0.000	0.840	0.964	0.303	0.546	0.607	0.846	1.320	0.000	0.960
132	0.000	0.840	1.024	0.303	0.546	0.607	0.908	1.442	0.000	1.018
133	0.000	0.840	1.024	0.303	0.546	0.607	1.027	1.501	0.000	0.900
134	0.000	0.840	1.024	0.303	0.546	0.608	1.088	1.562	0.000	0.900
135	0.000	0.840	1.024	0.303	0.546	0.667	1.147	1.679	0.059	0.900
136	0.000	0.840	1.024	0.303	0.547	0.607	1.087	1.681	0.000	0.900
137	0.000	0.840	1.024	0.303	0.607	0.727	1.087	1.681	0.000	0.900
138	0.000	0.840	1.024	0.303	0.666	0.788	1.087	1.681	0.059	0.900
139	0.000	0.840	1.023	0.304	0.609	0.789	1.087	1.801	0.001	0.900
140	0.000	0.840	0.964	0.423	0.668	0.789	1.087	1.801	0.178	0.900
141	0.000	0.840	0.964	0.424	0.729	0.911	1.087	1.861	0.180	0.900
142	0.000	0.840	0.964	0.425	0.789	0.911	1.087	1.861	0.121	0.900
143	0.000	0.840	0.964	0.545	0.728	0.911	1.087	1.921	0.239	0.900
144	0.000	0.840	0.964	0.485	0.728	0.911	1.148	1.921	0.240	0.900
145	0.000	0.840	0.964	0.605	0.729	0.911	1.209	1.921	0.299	0.900
146	0.000	0.840	0.964	0.727	0.789	0.971	1.269	1.982	0.300	0.900
147	0.000	0.840	0.964	0.667	0.849	0.971	1.328	2.040	0.360	0.900
148	0.000	0.840	0.964	0.727	0.849	0.971	1.389	2.041	0.360	0.900
149	0.000	0.840	0.964	0.727	0.849	0.971	1.389	2.041	0.419	0.900
150	0.000	0.840	0.964	0.788	0.849	0.971	1.389	2.041	0.361	0.900
151	0.000	0.840	0.964	0.788	0.849	0.971	1.389	2.041	0.480	0.957
152	0.000	0.840	0.964	0.788	0.849	0.971	1.389	1.982	0.421	0.662
153	0.000	0.840	0.964	0.788	0.851	0.971	1.389	1.981	0.539	0.540
154	0.000	0.840	1.145	0.848	0.910	0.971	1.389	1.981	0.600	0.359
155	0.000	0.840	1.204	0.849	0.910	0.971	1.389	1.981	0.718	0.241
156	0.000	0.840	1.147	0.849	0.911	0.971	1.389	1.981	0.781	0.180
157	0.000	0.840	1.264	0.909	0.971	0.971	1.389	1.981	0.898	0.180
158	0.000	0.840	1.205	0.909	0.971	0.971	1.389	1.981	1.079	0.180
159	0.000	0.840	1.324	0.909	0.971	0.971	1.389	1.979	1.140	0.180
160	0.000	0.840	1.265	0.909	0.971	0.971	1.389	1.684	1.199	0.180
161	0.000	0.899	1.265	0.909	1.031	0.971	1.389	1.680	1.260	0.180
162	0.000	0.900	1.325	0.909	1.031	0.971	1.389	1.622	1.319	0.180
163	0.000	0.960	1.326	0.909	1.031	0.971	1.389	1.621	1.379	0.180
164	0.000	0.901	1.385	0.909	1.031	0.971	1.389	1.621	1.380	0.180
165	0.000	0.900	1.688	0.909	1.031	0.971	1.390	1.681	1.499	0.180

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_5000K.IES

## CANDELA TABULATION - (Cont.)

166	0.000	0.900	1.806	0.909	1.033	1.033	1.451	1.741	1.440	0.180
167	0.000	0.901	1.747	0.909	1.214	1.092	1.510	1.741	1.440	0.180
168	0.060	1.020	1.747	0.971	1.274	1.153	1.570	2.098	1.440	0.180
169	0.060	0.961	1.747	1.091	1.214	1.153	1.510	2.101	1.440	0.180
170	0.060	0.961	1.865	1.091	1.214	1.153	1.510	2.101	1.440	0.180
171	0.060	1.020	1.808	1.091	1.214	1.153	1.510	2.101	1.440	0.180
172	0.060	1.080	1.927	1.152	1.214	1.153	1.510	2.101	1.440	0.180
173	0.060	1.021	1.868	1.152	1.214	1.153	1.510	2.101	1.440	0.180
174	0.060	1.020	1.867	1.152	1.214	1.153	1.510	2.101	1.440	0.179
175	0.060	1.020	1.867	1.152	1.214	1.153	1.510	2.101	1.440	0.121
176	0.060	1.020	1.867	1.152	1.214	1.153	1.510	2.101	1.440	0.179
177	0.060	1.020	1.867	1.152	1.214	1.153	1.510	2.101	1.440	0.120
178	0.060	1.020	1.867	1.152	1.214	1.153	1.510	2.041	1.440	0.060
179	0.060	1.020	1.927	1.152	1.213	1.153	1.510	2.041	1.440	0.060
180	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060

## Vert. 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	1156.623	1156.623	1156.623	1156.623	1156.623	1156.623	1156.623
1	1155.312	1157.205	1155.894	1157.934	1157.060	1157.351	1156.477
2	1156.113	1155.967	1155.676	1156.040	1156.987	1156.768	1156.259
3	1155.166	1155.530	1155.093	1156.696	1156.477	1156.259	1155.530
4	1153.563	1154.365	1153.782	1155.384	1156.113	1154.875	1154.438
5	1151.378	1151.597	1151.378	1152.981	1153.782	1153.199	1152.107
6	1149.484	1149.994	1149.703	1151.961	1152.252	1151.233	1150.359
7	1145.988	1147.445	1146.935	1149.193	1150.359	1148.756	1148.538
8	1144.531	1144.896	1144.750	1146.862	1147.663	1146.789	1144.386
9	1140.015	1140.962	1141.326	1143.876	1145.114	1142.783	1142.200
10	1136.810	1137.539	1137.757	1140.379	1141.181	1139.870	1137.976
11	1133.241	1134.407	1133.460	1136.155	1138.486	1135.936	1133.460
12	1128.434	1129.818	1129.818	1132.294	1132.950	1131.056	1130.255
13	1123.626	1124.428	1124.209	1127.778	1129.599	1126.030	1124.865
14	1118.309	1119.402	1119.620	1122.607	1124.428	1122.024	1120.130
15	1113.065	1113.137	1113.429	1117.435	1118.965	1115.905	1114.594
16	1106.946	1107.747	1108.403	1112.263	1112.919	1110.078	1108.694
17	1099.444	1101.993	1101.337	1105.708	1106.946	1104.324	1102.139
18	1093.398	1094.636	1095.365	1099.662	1100.900	1097.768	1095.874
19	1086.332	1087.279	1088.882	1091.504	1093.471	1090.921	1088.955
20	1078.903	1080.578	1080.797	1085.604	1086.260	1083.127	1082.108
21	1071.182	1071.546	1073.877	1076.790	1078.684	1074.678	1074.387
22	1062.441	1064.480	1065.355	1068.997	1070.817	1066.666	1066.447
23	1054.647	1056.031	1056.687	1060.693	1062.222	1058.945	1057.342
24	1044.450	1046.708	1048.091	1052.098	1053.700	1050.714	1049.694
25	1035.782	1037.020	1038.768	1042.847	1044.012	1041.099	1039.424
26	1025.948	1028.425	1028.862	1032.868	1035.126	1031.411	1030.683
27	1016.406	1017.572	1019.538	1023.544	1025.438	1022.015	1020.412
28	1006.209	1008.467	1009.559	1013.420	1014.221	1011.162	1011.089
29	995.501	996.885	998.706	1002.858	1004.388	1001.037	1000.454
30	984.721	986.688	987.926	991.641	993.534	990.475	989.383
31	973.941	975.033	976.927	981.297	982.099	979.549	978.311
32	961.194	963.816	965.054	969.133	970.590	967.676	967.021
33	949.248	952.089	953.618	957.042	959.008	956.386	954.929
34	936.938	940.070	941.017	945.387	946.553	944.003	943.057
35	925.284	927.250	928.926	932.932	933.952	932.203	930.892
36	911.881	914.139	916.106	919.748	921.205	919.165	918.072

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

37	898.551	901.101	903.359	906.564	908.166	905.471	905.398
38	885.367	887.625	889.519	892.943	894.108	892.579	892.069
39	871.601	874.441	876.262	879.322	880.924	878.812	878.229
40	857.761	859.655	861.330	864.827	866.648	865.336	864.171
41	843.412	845.670	847.928	851.206	852.080	850.404	849.166
42	829.645	830.956	832.704	836.638	838.022	835.982	835.254
43	814.276	816.315	818.063	820.759	822.580	820.977	820.540
44	799.125	801.383	803.131	805.681	807.065	806.336	805.754
45	784.776	785.431	787.398	790.457	791.623	790.384	789.583
46	767.877	770.281	771.592	775.161	775.598	775.816	774.651
47	752.726	755.057	756.295	758.990	760.593	759.136	758.262
48	736.774	738.450	739.615	742.893	744.277	743.403	742.237
49	719.839	722.862	723.758	726.795	727.254	726.511	726.162
50	704.186	706.029	707.180	710.173	711.870	710.246	709.816
51	686.915	689.596	690.004	693.194	694.527	694.105	693.311
52	670.031	672.020	672.901	676.033	677.148	676.478	675.705
53	653.125	655.485	656.155	658.843	660.358	659.601	658.967
54	635.520	638.266	638.579	641.332	642.826	642.177	641.267
55	618.446	620.770	621.141	623.101	625.541	624.914	624.455
56	600.382	603.070	603.441	605.488	607.214	607.265	606.595
57	582.536	585.238	585.603	587.416	589.441	589.856	589.041
58	564.268	566.970	567.830	569.257	571.486	571.610	571.319
59	545.774	548.848	549.729	550.559	553.211	553.517	553.356
60	527.804	530.783	531.381	532.495	534.185	534.826	534.928
61	509.303	512.093	513.083	513.914	515.837	516.412	516.602
62	490.860	493.533	494.560	495.136	497.496	497.772	498.399
63	472.832	475.148	475.352	476.707	478.324	479.242	479.766
64	453.398	456.319	456.698	457.405	459.859	460.741	460.828
65	434.941	437.563	437.585	438.983	440.899	441.992	442.356
66	416.177	418.457	418.814	419.644	421.546	422.871	423.221
67	397.261	399.716	399.752	400.815	402.578	404.363	404.727
68	378.446	380.595	380.923	381.870	383.705	385.271	385.694
69	359.304	361.628	362.065	363.070	364.498	366.253	366.559
70	340.424	342.762	343.017	343.702	345.654	346.929	347.380
71	321.711	324.166	323.853	325.120	326.278	327.947	328.449
72	302.751	305.017	305.075	306.393	307.420	308.659	309.285
73	283.995	286.333	286.064	287.491	288.642	289.589	290.536
74	265.559	267.555	267.220	268.728	269.835	270.687	271.772
75	246.978	248.726	248.354	250.081	251.283	251.581	252.535
76	228.491	230.837	229.504	231.813	233.073	233.153	234.500
77	210.004	212.627	210.522	213.224	214.418	214.367	215.387
78	191.947	194.453	191.802	194.766	195.903	196.281	197.185
79	173.890	176.396	173.497	176.600	177.918	177.831	179.259
80	155.688	158.725	155.178	158.383	159.912	159.934	160.969
81	138.082	141.258	137.558	140.930	141.790	141.950	143.086
82	120.025	123.711	119.880	123.238	124.316	124.228	125.029
83	102.966	106.484	103.323	106.281	106.878	106.790	107.417
84	85.609	89.323	86.271	89.345	89.906	89.440	89.913
85	68.778	72.389	70.360	72.764	73.262	72.876	73.138
86	52.561	55.610	54.450	56.461	56.587	56.076	56.397
87	36.044	39.103	38.450	40.108	39.913	39.786	39.840
88	19.612	19.585	17.587	20.233	23.130	23.663	23.938
89	2.040	0.732	0.597	1.253	4.246	7.983	9.246
90	0.000	0.000	0.128	0.121	0.264	0.480	1.020
91	0.000	0.000	0.001	0.000	0.060	0.419	0.838
92	0.000	0.000	0.000	0.000	0.060	0.301	0.720

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**CANDELA TABULATION - (Cont.)**

93	0.000	0.000	0.000	0.000	0.000	0.240	0.779
94	0.000	0.000	0.000	0.000	0.000	0.240	0.720
95	0.000	0.000	0.000	0.000	0.000	0.240	0.720
96	0.000	0.000	0.000	0.000	0.000	0.240	0.720
97	0.000	0.000	0.000	0.000	0.000	0.240	0.720
98	0.000	0.000	0.000	0.000	0.000	0.180	0.720
99	0.000	0.000	0.000	0.000	0.000	0.180	0.720
100	0.000	0.000	0.000	0.000	0.000	0.180	0.780
101	0.000	0.000	0.000	0.000	0.000	0.180	0.899
102	0.000	0.000	0.000	0.000	0.000	0.180	0.840
103	0.000	0.000	0.000	0.000	0.000	0.241	0.841
104	0.000	0.000	0.000	0.000	0.000	0.360	0.899
105	0.000	0.000	0.000	0.000	0.000	0.360	0.840
106	0.119	0.000	0.000	0.000	0.000	0.360	0.958
107	0.120	0.001	0.000	0.000	0.000	0.420	0.900
108	0.120	0.061	0.000	0.000	0.000	0.542	0.900
109	0.241	0.061	0.000	0.000	0.000	0.718	0.900
110	0.181	0.062	0.000	0.000	0.000	0.840	0.900
111	0.241	0.122	0.000	0.000	0.000	0.781	0.900
112	0.242	0.181	0.000	0.000	0.000	0.781	0.900
113	0.361	0.121	0.000	0.000	0.000	0.840	0.959
114	0.422	0.182	0.000	0.000	0.000	0.840	0.841
115	0.362	0.242	0.000	0.000	0.060	0.897	0.660
116	0.482	0.242	0.000	0.000	0.120	0.600	0.660
117	0.482	0.242	0.000	0.000	0.242	0.540	0.419
118	0.482	0.242	0.000	0.000	0.182	0.420	0.301
119	0.482	0.242	0.000	0.000	0.301	0.420	0.060
120	0.482	0.242	0.000	0.000	0.422	0.420	0.000
121	0.482	0.303	0.000	0.000	0.363	0.420	0.000
122	0.482	0.303	0.000	0.000	0.544	0.483	0.000
123	0.482	0.303	0.000	0.000	0.663	0.719	0.000
124	0.482	0.364	0.000	0.000	0.724	0.780	0.000
125	0.482	0.364	0.000	0.061	0.664	0.840	0.000
126	0.542	0.364	0.000	0.061	0.664	0.840	0.000
127	0.602	0.364	0.000	0.121	0.664	0.840	0.000
128	0.602	0.364	0.000	0.121	0.664	0.840	0.000
129	0.663	0.364	0.000	0.121	0.664	0.840	0.000
130	0.663	0.364	0.000	0.121	0.664	0.840	0.000
131	0.663	0.424	0.000	0.121	0.664	0.840	0.000
132	0.723	0.424	0.000	0.121	0.664	0.840	0.000
133	0.723	0.425	0.000	0.121	0.664	0.840	0.000
134	0.723	0.484	0.000	0.121	0.664	0.840	0.000
135	0.782	0.425	0.000	0.121	0.664	0.840	0.000
136	0.783	0.545	0.000	0.121	0.664	0.840	0.000
137	0.842	0.545	0.000	0.182	0.664	0.840	0.000
138	0.784	0.545	0.000	0.182	0.664	0.840	0.000
139	0.783	0.667	0.000	0.242	0.664	0.840	0.000
140	0.783	0.667	0.000	0.243	0.664	0.840	0.000
141	0.903	0.788	0.000	0.243	0.664	0.840	0.000
142	0.845	0.789	0.059	0.243	0.664	0.840	0.000
143	0.963	0.848	0.061	0.303	0.664	0.840	0.000
144	0.964	0.849	0.061	0.304	0.664	0.841	0.000
145	1.024	0.849	0.061	0.364	0.664	0.900	0.000
146	1.025	0.909	0.061	0.425	0.664	0.901	0.000
147	1.201	0.909	0.061	0.425	0.664	0.901	0.000
148	1.324	1.030	0.061	0.425	0.725	0.901	0.000

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

149	1.325	0.971	0.179	0.425	0.844	0.901	0.000
150	1.325	1.030	0.123	0.425	0.786	0.901	0.000
151	1.325	1.090	0.121	0.425	0.786	0.901	0.000
152	1.325	1.031	0.181	0.425	0.845	0.901	0.000
153	1.325	1.151	0.182	0.426	0.846	0.901	0.000
154	1.325	1.212	0.241	0.485	0.965	0.901	0.000
155	1.325	1.212	0.303	0.426	1.027	0.901	0.000
156	1.325	1.273	0.243	0.545	1.028	0.901	0.000
157	1.325	1.273	0.243	0.486	1.087	0.901	0.000
158	1.385	1.273	0.243	0.487	1.087	0.901	0.000
159	1.265	1.273	0.243	0.606	1.087	0.901	0.000
160	1.265	1.333	0.243	0.728	1.087	0.901	0.000
161	1.265	1.334	0.243	0.668	1.087	0.901	0.000
162	1.265	1.393	0.303	0.668	1.148	0.901	0.000
163	1.265	1.394	0.303	0.788	1.207	0.960	0.000
164	1.205	1.455	0.602	0.911	1.329	1.021	0.000
165	1.205	1.455	0.728	0.971	1.453	1.139	0.000
166	1.205	1.517	0.728	0.971	1.690	1.201	0.000
167	1.205	1.635	0.845	1.032	1.752	1.201	0.000
168	1.205	2.000	0.790	1.032	1.752	1.262	0.060
169	1.205	1.939	0.847	1.032	1.752	1.380	0.060
170	1.205	1.939	0.910	1.094	1.933	1.500	0.060
171	1.084	1.939	1.030	1.154	1.933	1.441	0.060
172	1.084	1.939	1.091	1.275	1.993	1.441	0.060
173	1.025	1.939	1.034	1.275	1.993	1.441	0.060
174	1.024	1.939	1.152	1.339	1.993	1.441	0.060
175	1.024	1.939	1.213	1.518	1.993	1.441	0.060
176	1.024	1.939	1.154	1.578	1.993	1.441	0.060
177	1.024	1.939	1.153	1.518	1.993	1.441	0.060
178	1.024	1.940	1.153	1.518	2.114	1.441	0.060
179	1.024	1.999	1.153	1.518	2.055	1.441	0.060
180	0.060	0.060	0.060	0.060	0.060	0.060	0.060



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	423.75	N.A.	12.40
0-30	901.88	N.A.	26.40
0-40	1481.57	N.A.	43.40
0-60	2640.21	N.A.	77.30
0-80	3333.07	N.A.	97.60
0-90	3410.77	N.A.	99.90
10-90	3301.28	N.A.	96.70
20-40	1057.82	N.A.	31.00
20-50	1663.39	N.A.	48.70
40-70	1589.78	N.A.	46.60
60-80	692.85	N.A.	20.30
70-80	261.71	N.A.	7.70
80-90	77.71	N.A.	2.30
90-110	0.43	N.A.	0.00
90-120	0.81	N.A.	0.00
90-130	1.23	N.A.	0.00
90-150	2.19	N.A.	0.10
90-180	3.02	N.A.	0.10
110-180	2.59	N.A.	0.10
0-180	3413.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.49
10-20	314.26
20-30	478.12
30-40	579.70
40-50	605.57
50-60	553.06
60-70	431.15
70-80	261.71
80-90	77.71
90-100	0.16
100-110	0.27
110-120	0.38
120-130	0.42
130-140	0.48
140-150	0.48
150-160	0.41
160-170	0.30
170-180	0.12

**IES INDOOR REPORT**  
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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\_5000K.IES**

**UGR TABLE - CORRECTED**

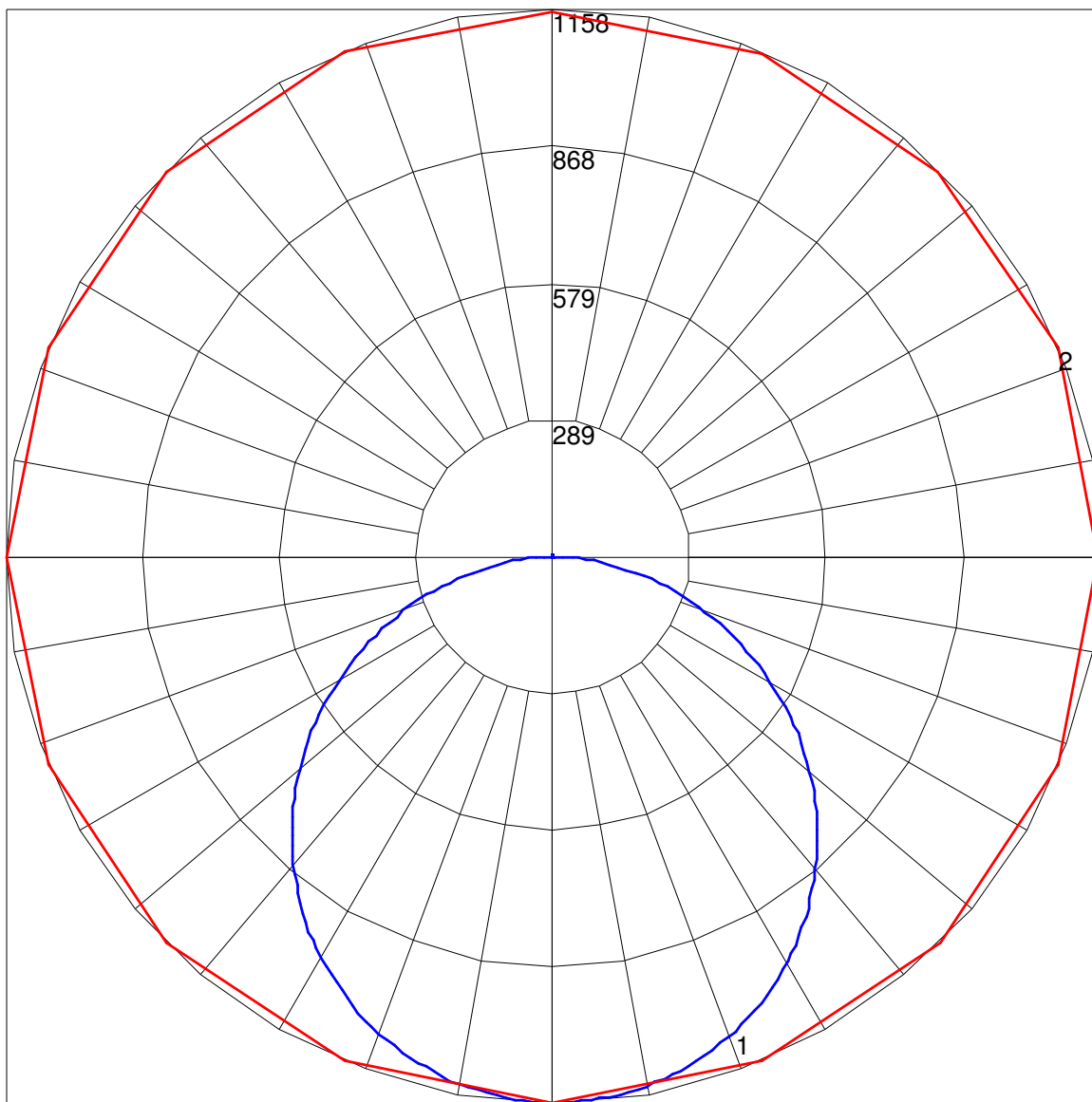
Reflectances

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 = 1157.934 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.)