



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_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\_25W\_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	3014
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	25
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	3703	3670	3674
55	3610	3570	3565
65	3471	3417	3401
75	3236	3186	3149
85	2783	2689	2714

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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	1021.108	1021.108	1021.108	1021.108	1021.108	1021.108	1021.108	1021.108	1021.108	1021.108
1	1020.979	1020.915	1020.336	1020.014	1020.657	1021.365	1021.236	1021.493	1020.979	1020.979
2	1020.786	1020.529	1019.950	1019.500	1019.950	1020.464	1020.207	1020.464	1020.464	1020.272
3	1020.143	1019.886	1019.693	1019.243	1019.564	1019.371	1018.985	1019.500	1019.564	1018.921
4	1019.178	1017.828	1017.957	1017.571	1017.892	1017.442	1017.571	1018.278	1018.985	1018.214
5	1017.121	1017.506	1016.542	1016.928	1016.542	1016.542	1015.063	1016.413	1016.606	1016.542
6	1015.577	1014.098	1014.741	1013.584	1014.291	1013.905	1013.519	1014.227	1014.420	1013.841
7	1013.970	1013.005	1012.619	1011.655	1012.040	1011.783	1010.883	1011.976	1012.684	1012.619
8	1010.304	1009.790	1009.211	1009.661	1009.983	1009.211	1007.861	1009.533	1010.369	1009.918
9	1008.375	1007.282	1007.282	1005.739	1007.025	1005.867	1005.031	1006.253	1007.089	1006.767
10	1004.645	1003.681	1003.874	1002.523	1003.552	1002.588	1001.559	1002.716	1003.874	1003.874
11	1000.658	1001.044	999.372	999.244	999.629	999.372	998.086	998.922	1000.015	999.565
12	997.829	996.607	996.286	994.807	995.321	994.935	993.713	994.935	996.221	996.543
13	993.070	991.913	991.977	990.627	991.720	989.534	989.469	990.820	992.427	991.656
14	988.890	988.505	986.575	986.190	986.254	985.096	984.839	986.061	987.219	987.476
15	984.003	983.232	981.817	980.595	981.817	980.402	979.630	981.110	982.074	982.267
16	978.795	978.087	976.801	976.158	975.965	974.936	974.486	975.258	977.123	976.801
17	973.007	972.750	971.142	969.535	970.628	969.020	968.956	970.370	971.657	971.078
18	967.477	966.576	965.290	963.490	964.712	963.554	962.718	963.554	965.676	965.483
19	961.368	960.017	958.988	958.088	958.281	956.030	955.902	957.574	959.181	959.246
20	955.323	954.037	951.979	951.400	951.786	950.371	950.243	950.757	952.815	952.558
21	948.507	946.320	945.484	945.034	945.098	942.719	943.426	943.877	945.806	945.291
22	941.497	940.340	937.768	936.996	938.089	936.096	935.645	936.674	938.475	938.925
23	933.459	932.044	929.987	929.536	930.180	927.993	928.765	928.765	930.758	930.694
24	926.707	924.135	921.755	921.820	922.077	920.405	920.469	921.305	922.656	922.849
25	917.640	916.675	913.524	913.524	914.296	912.045	912.688	913.074	915.003	914.810
26	909.923	908.637	905.615	904.650	905.743	903.686	904.264	904.843	905.808	906.386
27	900.856	898.991	895.969	896.548	896.419	895.004	895.326	895.969	897.770	897.834
28	892.625	890.374	887.416	887.223	887.995	886.130	886.323	886.580	887.481	888.252
29	883.236	880.921	877.963	877.706	878.478	876.613	876.999	877.578	879.250	879.250
30	873.462	871.340	867.932	868.125	869.089	866.774	867.417	867.031	868.768	870.054
31	863.688	861.437	857.836	858.929	858.736	857.450	857.450	857.450	859.443	858.993
32	853.720	851.148	848.254	847.225	848.962	846.647	847.097	847.032	848.833	848.962
33	843.046	841.309	837.194	837.901	838.287	836.422	837.194	836.165	838.094	839.573
34	832.564	830.635	826.133	826.455	827.419	825.297	825.490	825.747	827.677	827.741
35	821.825	819.060	815.394	815.266	816.359	814.301	814.237	814.108	816.680	816.809
36	810.507	808.192	804.141	804.205	805.234	802.855	802.855	803.498	804.784	805.427
37	799.318	796.231	791.858	792.566	792.823	791.472	791.215	791.022	793.595	793.980
38	787.550	784.270	780.605	780.155	781.762	779.576	779.833	779.190	781.184	781.762
39	775.332	772.245	768.837	769.094	769.480	767.615	766.651	767.165	769.287	769.994
40	762.921	759.898	756.490	756.555	756.362	754.625	754.304	754.304	756.683	757.841
41	749.674	747.938	743.372	743.501	743.951	742.343	741.443	742.022	744.337	744.915
42	737.392	734.305	730.575	730.832	731.154	729.868	728.775	728.646	730.961	732.183
43	724.402	721.701	718.421	718.293	718.550	716.428	715.528	716.042	718.164	718.807
44	711.348	708.197	704.853	704.660	704.146	703.181	702.474	702.345	705.239	705.818
45	697.072	694.371	690.834	690.834	691.670	689.355	688.712	688.905	691.156	691.735
46	683.889	679.967	677.073	677.459	677.137	675.658	674.887	674.822	677.137	678.230
47	669.421	666.463	663.569	663.247	663.312	661.447	661.189	660.997	663.697	664.019
48	655.273	652.380	648.650	648.714	649.100	647.750	646.978	646.399	649.229	650.579
49	641.081	637.596	634.625	635.133	634.792	633.049	632.342	632.201	634.528	635.274
50	626.651	623.076	620.407	620.683	619.815	618.433	617.475	617.584	620.124	620.555
51	612.079	608.453	604.896	605.520	605.514	603.687	602.961	602.601	605.051	605.880
52	596.537	593.926	590.595	590.859	590.325	587.765	587.913	587.116	590.100	590.666
53	581.759	578.486	575.599	575.547	575.168	573.091	572.422	572.782	574.981	575.695

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**CANDELA TABULATION - (Cont.)**

54	566.133	563.381	560.378	560.648	559.715	557.857	557.259	557.098	559.561	560.268
55	551.291	548.121	545.060	544.861	544.372	541.813	541.440	541.755	544.211	544.706
56	535.524	532.578	528.964	529.209	528.219	526.592	525.756	525.813	528.283	528.656
57	520.026	516.875	513.962	513.988	512.862	510.727	509.377	510.007	512.599	512.856
58	504.380	501.037	497.789	498.226	496.805	494.664	493.616	494.175	496.741	496.992
59	488.523	484.973	481.983	481.758	480.851	478.530	477.083	478.163	480.433	480.729
60	472.253	469.019	466.222	466.048	464.993	462.183	460.974	462.061	464.582	465.302
61	456.074	452.608	450.132	449.791	448.370	446.345	444.583	445.817	448.312	448.756
62	440.004	436.313	434.172	433.413	432.107	429.773	428.088	429.104	432.410	432.783
63	423.555	419.439	417.381	417.369	415.742	413.613	411.703	413.067	415.157	415.890
64	406.835	403.260	400.649	401.041	399.292	397.074	395.190	396.354	399.048	399.569
65	390.527	386.881	384.425	384.373	382.669	380.618	378.734	380.007	382.882	382.862
66	373.634	370.059	367.680	367.506	366.066	364.246	362.130	363.243	365.963	366.008
67	357.307	353.256	351.230	350.883	349.700	347.668	345.797	346.793	349.700	349.616
68	340.504	336.948	334.414	334.376	332.620	330.813	328.813	330.440	332.890	332.948
69	323.611	320.267	317.869	317.753	316.203	314.364	312.126	313.438	316.216	316.171
70	306.680	303.734	301.349	300.988	299.419	297.683	295.696	296.828	299.567	299.522
71	289.967	286.758	284.828	284.558	282.886	281.497	279.427	280.198	282.848	283.317
72	273.048	269.800	268.578	267.781	266.238	264.682	263.068	264.032	265.755	266.418
73	256.495	253.261	251.917	251.370	249.608	248.264	246.682	247.107	249.261	249.345
74	239.930	236.580	235.931	234.825	233.526	232.034	230.420	230.690	232.850	233.088
75	222.947	220.394	219.501	218.459	216.980	215.861	214.272	214.009	216.356	216.311
76	207.025	203.958	203.205	202.093	201.122	200.048	198.273	197.887	199.939	200.196
77	190.151	187.901	186.737	185.785	185.354	184.190	182.673	181.734	183.271	183.850
78	174.082	171.754	171.014	169.625	169.207	168.243	166.577	165.645	167.124	167.657
79	158.256	155.754	154.809	153.973	153.703	152.648	150.899	149.742	151.189	151.600
80	142.109	139.942	138.913	138.122	137.781	136.913	135.029	133.878	135.382	135.781
81	126.322	124.206	123.016	122.457	122.669	121.634	119.557	118.444	119.820	120.251
82	110.380	108.618	107.384	106.985	107.236	106.374	104.059	102.760	104.201	104.535
83	94.831	93.237	92.407	91.719	92.407	91.237	88.677	87.533	88.774	89.211
84	79.379	77.964	77.507	76.485	77.559	76.286	73.746	72.582	73.681	74.003
85	64.569	63.160	62.389	61.979	62.963	61.468	58.950	57.562	58.413	58.832
86	49.789	48.753	47.976	47.578	48.547	47.002	44.503	43.183	43.848	44.265
87	35.172	34.221	33.576	33.250	34.227	32.702	29.927	28.974	29.369	30.206
88	21.133	20.472	19.547	18.614	18.407	16.870	16.006	15.347	15.598	16.324
89	8.163	7.458	5.040	1.642	1.007	0.842	1.337	2.933	3.511	3.606
90	0.900	0.641	0.292	0.182	0.000	0.000	0.000	0.212	0.318	0.052
91	0.740	0.424	0.106	0.002	0.000	0.000	0.000	0.212	0.318	0.000
92	0.636	0.424	0.053	0.000	0.000	0.000	0.000	0.212	0.318	0.000
93	0.688	0.372	0.053	0.000	0.000	0.000	0.000	0.212	0.371	0.000
94	0.635	0.371	0.000	0.000	0.000	0.000	0.000	0.265	0.371	0.000
95	0.635	0.371	0.000	0.000	0.000	0.000	0.000	0.213	0.371	0.000
96	0.635	0.371	0.000	0.000	0.000	0.000	0.000	0.318	0.423	0.053
97	0.635	0.371	0.000	0.000	0.000	0.000	0.000	0.318	0.425	0.105
98	0.635	0.371	0.000	0.000	0.000	0.000	0.000	0.318	0.582	0.054
99	0.635	0.371	0.000	0.000	0.000	0.000	0.000	0.318	0.582	0.106
100	0.688	0.371	0.000	0.000	0.000	0.000	0.000	0.370	0.687	0.106
101	0.794	0.371	0.000	0.000	0.000	0.000	0.053	0.424	0.688	0.159
102	0.742	0.371	0.000	0.000	0.000	0.000	0.107	0.477	0.794	0.265
103	0.742	0.371	0.000	0.000	0.000	0.053	0.159	0.581	0.899	0.317
104	0.794	0.371	0.000	0.000	0.000	0.000	0.214	0.583	0.847	0.266
105	0.741	0.371	0.000	0.000	0.053	0.053	0.266	0.583	0.847	0.317
106	0.846	0.371	0.000	0.000	0.000	0.054	0.320	0.583	0.847	0.423
107	0.794	0.423	0.000	0.000	0.055	0.107	0.321	0.583	0.847	0.424
108	0.794	0.478	0.000	0.000	0.108	0.054	0.373	0.583	0.847	0.424
109	0.794	0.583	0.000	0.000	0.159	0.054	0.373	0.583	0.847	0.424

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**CANDELA TABULATION - (Cont.)**

110	0.794	0.688	0.000	0.000	0.107	0.108	0.375	0.583	0.795	0.424
111	0.794	0.636	0.053	0.000	0.107	0.214	0.480	0.583	0.847	0.424
112	0.794	0.636	0.053	0.000	0.109	0.162	0.428	0.583	0.741	0.424
113	0.847	0.636	0.053	0.000	0.160	0.267	0.533	0.583	0.689	0.424
114	0.742	0.636	0.106	0.000	0.108	0.268	0.534	0.583	0.688	0.424
115	0.582	0.636	0.213	0.000	0.162	0.375	0.641	0.583	0.688	0.424
116	0.582	0.636	0.317	0.000	0.214	0.322	0.693	0.583	0.688	0.424
117	0.370	0.531	0.266	0.000	0.214	0.429	0.641	0.583	0.689	0.424
118	0.266	0.530	0.371	0.000	0.268	0.429	0.640	0.583	0.741	0.424
119	0.053	0.530	0.479	0.000	0.268	0.536	0.640	0.583	0.530	0.424
120	0.000	0.530	0.531	0.001	0.269	0.483	0.640	0.583	0.268	0.424
121	0.000	0.530	0.481	0.105	0.375	0.589	0.640	0.583	0.158	0.424
122	0.000	0.582	0.638	0.054	0.375	0.536	0.640	0.583	0.053	0.425
123	0.000	0.636	0.638	0.108	0.375	0.536	0.640	0.583	0.053	0.530
124	0.000	0.688	0.744	0.213	0.375	0.536	0.640	0.636	0.000	0.530
125	0.000	0.689	0.744	0.214	0.376	0.536	0.640	0.636	0.000	0.582
126	0.000	0.741	0.744	0.267	0.430	0.536	0.640	0.795	0.000	0.689
127	0.000	0.742	0.851	0.321	0.484	0.536	0.693	0.848	0.000	0.743
128	0.000	0.742	0.851	0.269	0.535	0.536	0.693	0.848	0.000	0.847
129	0.000	0.742	0.851	0.268	0.482	0.536	0.695	1.007	0.000	0.900
130	0.000	0.742	0.851	0.268	0.482	0.536	0.800	1.007	0.000	0.848
131	0.000	0.742	0.851	0.268	0.482	0.536	0.747	1.165	0.000	0.848
132	0.000	0.742	0.904	0.268	0.482	0.536	0.802	1.273	0.000	0.898
133	0.000	0.742	0.904	0.268	0.482	0.536	0.907	1.325	0.000	0.795
134	0.000	0.742	0.904	0.268	0.482	0.536	0.961	1.379	0.000	0.795
135	0.000	0.742	0.904	0.268	0.482	0.589	1.013	1.482	0.052	0.795
136	0.000	0.742	0.904	0.268	0.483	0.536	0.960	1.484	0.000	0.795
137	0.000	0.742	0.904	0.268	0.536	0.642	0.960	1.484	0.000	0.795
138	0.000	0.742	0.904	0.268	0.588	0.696	0.960	1.484	0.052	0.795
139	0.000	0.742	0.903	0.268	0.537	0.697	0.960	1.590	0.001	0.795
140	0.000	0.742	0.851	0.374	0.590	0.697	0.960	1.590	0.157	0.795
141	0.000	0.742	0.851	0.375	0.643	0.804	0.960	1.643	0.159	0.795
142	0.000	0.742	0.851	0.375	0.696	0.804	0.960	1.643	0.107	0.795
143	0.000	0.742	0.851	0.481	0.643	0.804	0.960	1.696	0.211	0.795
144	0.000	0.742	0.851	0.429	0.643	0.804	1.014	1.696	0.212	0.795
145	0.000	0.742	0.851	0.534	0.644	0.804	1.068	1.696	0.264	0.795
146	0.000	0.742	0.851	0.642	0.697	0.858	1.121	1.749	0.265	0.795
147	0.000	0.742	0.851	0.589	0.750	0.858	1.173	1.801	0.318	0.795
148	0.000	0.742	0.851	0.642	0.750	0.858	1.226	1.802	0.318	0.795
149	0.000	0.742	0.851	0.642	0.750	0.858	1.227	1.802	0.370	0.795
150	0.000	0.742	0.851	0.696	0.750	0.858	1.227	1.802	0.319	0.795
151	0.000	0.742	0.851	0.696	0.750	0.858	1.227	1.802	0.423	0.845
152	0.000	0.742	0.851	0.696	0.750	0.858	1.227	1.750	0.371	0.585
153	0.000	0.742	0.851	0.696	0.751	0.858	1.227	1.749	0.476	0.477
154	0.000	0.742	1.011	0.749	0.803	0.858	1.227	1.749	0.530	0.317
155	0.000	0.742	1.063	0.749	0.803	0.858	1.227	1.749	0.634	0.213
156	0.000	0.742	1.012	0.749	0.804	0.858	1.227	1.749	0.689	0.159
157	0.000	0.742	1.116	0.802	0.857	0.858	1.227	1.749	0.793	0.159
158	0.000	0.742	1.064	0.803	0.857	0.858	1.227	1.749	0.953	0.159
159	0.000	0.742	1.169	0.803	0.857	0.858	1.227	1.748	1.006	0.159
160	0.000	0.742	1.117	0.803	0.857	0.858	1.227	1.487	1.058	0.159
161	0.000	0.794	1.117	0.803	0.911	0.858	1.227	1.483	1.113	0.159
162	0.000	0.795	1.170	0.803	0.911	0.858	1.227	1.432	1.164	0.159
163	0.000	0.847	1.170	0.803	0.911	0.858	1.227	1.431	1.217	0.159
164	0.000	0.795	1.223	0.803	0.911	0.858	1.227	1.431	1.218	0.159
165	0.000	0.795	1.490	0.803	0.911	0.858	1.227	1.484	1.323	0.159

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_5000K.IES**

**CANDELA TABULATION - (Cont.)**

166	0.000	0.795	1.595	0.803	0.912	0.912	1.281	1.537	1.271	0.159
167	0.000	0.796	1.542	0.803	1.072	0.964	1.333	1.537	1.271	0.159
168	0.053	0.900	1.542	0.857	1.124	1.018	1.386	1.852	1.271	0.159
169	0.053	0.849	1.542	0.963	1.071	1.018	1.333	1.855	1.271	0.159
170	0.053	0.848	1.647	0.963	1.071	1.018	1.333	1.855	1.271	0.159
171	0.053	0.901	1.596	0.963	1.071	1.018	1.333	1.855	1.271	0.159
172	0.053	0.953	1.701	1.017	1.071	1.018	1.333	1.855	1.271	0.159
173	0.053	0.901	1.649	1.017	1.071	1.018	1.333	1.855	1.271	0.159
174	0.053	0.901	1.648	1.017	1.071	1.018	1.333	1.855	1.271	0.158
175	0.053	0.901	1.648	1.017	1.071	1.018	1.333	1.855	1.271	0.106
176	0.053	0.901	1.648	1.017	1.071	1.018	1.333	1.855	1.271	0.158
177	0.053	0.901	1.648	1.017	1.071	1.018	1.333	1.855	1.271	0.106
178	0.053	0.901	1.649	1.017	1.071	1.018	1.333	1.802	1.271	0.053
179	0.053	0.901	1.701	1.017	1.071	1.018	1.333	1.802	1.271	0.053
180	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053

**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	1021.108	1021.108	1021.108	1021.108	1021.108	1021.108	1021.108
1	1019.950	1021.622	1020.464	1022.265	1021.493	1021.751	1020.979
2	1020.657	1020.529	1020.272	1020.593	1021.429	1021.236	1020.786
3	1019.821	1020.143	1019.757	1021.172	1020.979	1020.786	1020.143
4	1018.407	1019.114	1018.600	1020.014	1020.657	1019.564	1019.178
5	1016.478	1016.670	1016.478	1017.892	1018.600	1018.085	1017.121
6	1014.806	1015.256	1014.999	1016.992	1017.249	1016.349	1015.577
7	1011.719	1013.005	1012.555	1014.548	1015.577	1014.163	1013.970
8	1010.433	1010.754	1010.626	1012.491	1013.198	1012.426	1010.304
9	1006.446	1007.282	1007.603	1009.854	1010.947	1008.889	1008.375
10	1003.616	1004.259	1004.452	1006.767	1007.475	1006.317	1004.645
11	1000.465	1001.494	1000.658	1003.038	1005.095	1002.845	1000.658
12	996.221	997.443	997.443	999.629	1000.208	998.536	997.829
13	991.977	992.684	992.492	995.643	997.250	994.099	993.070
14	987.283	988.247	988.440	991.077	992.684	990.562	988.890
15	982.653	982.717	982.974	986.511	987.862	985.161	984.003
16	977.251	977.959	978.537	981.945	982.524	980.016	978.795
17	970.628	972.878	972.300	976.158	977.251	974.936	973.007
18	965.290	966.384	967.027	970.821	971.914	969.149	967.477
19	959.053	959.889	961.303	963.618	965.355	963.104	961.368
20	952.494	953.973	954.165	958.410	958.988	956.223	955.323
21	945.677	945.999	948.056	950.629	952.301	948.764	948.507
22	937.960	939.761	940.533	943.748	945.356	941.690	941.497
23	931.080	932.302	932.880	936.417	937.768	934.874	933.459
24	922.077	924.070	925.292	928.829	930.244	927.607	926.707
25	914.425	915.518	917.061	920.662	921.691	919.119	917.640
26	905.743	907.930	908.316	911.852	913.846	910.566	909.923
27	897.319	898.348	900.085	903.621	905.293	902.271	900.856
28	888.317	890.310	891.275	894.683	895.390	892.689	892.625
29	878.864	880.086	881.693	885.359	886.709	883.751	883.236
30	869.346	871.083	872.176	875.456	877.127	874.427	873.462
31	859.829	860.794	862.466	866.324	867.031	864.781	863.688
32	848.576	850.891	851.984	855.585	856.871	854.299	853.720
33	838.030	840.538	841.888	844.910	846.647	844.332	843.046
34	827.162	829.927	830.763	834.621	835.650	833.400	832.564
35	816.873	818.609	820.088	823.625	824.526	822.982	821.825
36	805.041	807.034	808.771	811.986	813.272	811.472	810.507

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

37	793.273	795.524	797.517	800.347	801.761	799.382	799.318
38	781.634	783.627	785.299	788.322	789.350	788.000	787.550
39	769.480	771.988	773.596	776.296	777.711	775.846	775.332
40	757.262	758.934	760.413	763.500	765.107	763.950	762.921
41	744.594	746.587	748.581	751.474	752.246	750.767	749.674
42	732.440	733.598	735.141	738.613	739.835	738.035	737.392
43	718.872	720.672	722.215	724.595	726.202	724.788	724.402
44	705.496	707.489	709.033	711.283	712.505	711.862	711.348
45	692.828	693.407	695.143	697.844	698.873	697.779	697.072
46	677.909	680.031	681.189	684.339	684.725	684.918	683.889
47	664.533	666.591	667.684	670.064	671.478	670.192	669.421
48	650.450	651.929	652.958	655.852	657.074	656.302	655.273
49	635.499	638.168	638.959	641.641	642.046	641.390	641.081
50	621.680	623.307	624.323	626.966	628.464	627.030	626.651
51	606.433	608.800	609.160	611.976	613.153	612.780	612.079
52	591.527	593.283	594.061	596.826	597.810	597.218	596.537
53	576.602	578.685	579.277	581.650	582.988	582.319	581.759
54	561.059	563.484	563.760	566.191	567.509	566.937	566.133
55	545.986	548.037	548.365	550.095	552.249	551.696	551.291
56	530.038	532.411	532.739	534.546	536.070	536.115	535.524
57	514.283	516.669	516.991	518.592	520.380	520.746	520.026
58	498.156	500.541	501.300	502.561	504.528	504.638	504.380
59	481.828	484.542	485.320	486.053	488.394	488.664	488.523
60	465.964	468.594	469.122	470.106	471.597	472.163	472.253
61	449.631	452.094	452.968	453.701	455.399	455.907	456.074
62	433.349	435.709	436.615	437.123	439.207	439.451	440.004
63	417.433	419.478	419.658	420.854	422.282	423.092	423.555
64	400.276	402.855	403.189	403.813	405.980	406.758	406.835
65	383.981	386.296	386.315	387.550	389.241	390.206	390.527
66	367.416	369.429	369.744	370.477	372.155	373.326	373.634
67	350.716	352.883	352.915	353.854	355.410	356.986	357.307
68	334.106	336.003	336.292	337.128	338.749	340.131	340.504
69	317.206	319.258	319.644	320.531	321.791	323.341	323.611
70	300.538	302.603	302.828	303.432	305.155	306.281	306.680
71	284.018	286.185	285.909	287.028	288.050	289.523	289.967
72	267.280	269.279	269.331	270.495	271.401	272.495	273.048
73	250.721	252.785	252.547	253.808	254.824	255.660	256.495
74	234.445	236.207	235.911	237.242	238.220	238.972	239.930
75	218.041	219.584	219.256	220.780	221.841	222.105	222.947
76	201.720	203.791	202.614	204.652	205.765	205.836	207.025
77	185.399	187.714	185.856	188.242	189.296	189.251	190.151
78	169.458	171.670	169.329	171.947	172.950	173.284	174.082
79	153.517	155.729	153.169	155.909	157.073	156.996	158.256
80	137.447	140.128	136.997	139.826	141.176	141.196	142.109
81	121.904	124.708	121.441	124.418	125.177	125.319	126.322
82	105.963	109.217	105.834	108.799	109.750	109.673	110.380
83	90.902	94.008	91.217	93.828	94.356	94.278	94.831
84	75.578	78.858	76.163	78.877	79.372	78.961	79.379
85	60.720	63.907	62.116	64.239	64.679	64.338	64.569
86	46.403	49.094	48.070	49.846	49.957	49.506	49.789
87	31.821	34.521	33.945	35.409	35.236	35.124	35.172
88	17.314	17.290	15.527	17.862	20.420	20.890	21.133
89	1.801	0.646	0.527	1.107	3.749	7.047	8.163
90	0.000	0.000	0.113	0.107	0.233	0.424	0.900
91	0.000	0.000	0.001	0.000	0.053	0.370	0.740
92	0.000	0.000	0.000	0.000	0.053	0.266	0.636

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

93	0.000	0.000	0.000	0.000	0.000	0.212	0.688
94	0.000	0.000	0.000	0.000	0.000	0.212	0.635
95	0.000	0.000	0.000	0.000	0.000	0.212	0.635
96	0.000	0.000	0.000	0.000	0.000	0.212	0.635
97	0.000	0.000	0.000	0.000	0.000	0.212	0.635
98	0.000	0.000	0.000	0.000	0.000	0.159	0.635
99	0.000	0.000	0.000	0.000	0.000	0.159	0.635
100	0.000	0.000	0.000	0.000	0.000	0.159	0.688
101	0.000	0.000	0.000	0.000	0.000	0.159	0.794
102	0.000	0.000	0.000	0.000	0.000	0.159	0.742
103	0.000	0.000	0.000	0.000	0.000	0.213	0.742
104	0.000	0.000	0.000	0.000	0.000	0.318	0.794
105	0.000	0.000	0.000	0.000	0.000	0.318	0.741
106	0.105	0.000	0.000	0.000	0.000	0.318	0.846
107	0.106	0.001	0.000	0.000	0.000	0.371	0.794
108	0.106	0.054	0.000	0.000	0.000	0.479	0.794
109	0.212	0.054	0.000	0.000	0.000	0.634	0.794
110	0.160	0.054	0.000	0.000	0.000	0.742	0.794
111	0.213	0.107	0.000	0.000	0.000	0.689	0.794
112	0.214	0.160	0.000	0.000	0.000	0.689	0.794
113	0.318	0.107	0.000	0.000	0.000	0.742	0.847
114	0.372	0.161	0.000	0.000	0.000	0.742	0.742
115	0.320	0.214	0.000	0.000	0.053	0.792	0.582
116	0.425	0.214	0.000	0.000	0.106	0.530	0.582
117	0.425	0.214	0.000	0.000	0.213	0.476	0.370
118	0.425	0.214	0.000	0.000	0.161	0.371	0.266
119	0.425	0.214	0.000	0.000	0.266	0.371	0.053
120	0.425	0.214	0.000	0.000	0.373	0.371	0.000
121	0.425	0.268	0.000	0.000	0.321	0.371	0.000
122	0.425	0.268	0.000	0.000	0.480	0.427	0.000
123	0.425	0.268	0.000	0.000	0.585	0.635	0.000
124	0.425	0.321	0.000	0.000	0.639	0.689	0.000
125	0.425	0.321	0.000	0.054	0.587	0.742	0.000
126	0.478	0.321	0.000	0.054	0.587	0.742	0.000
127	0.532	0.321	0.000	0.107	0.587	0.742	0.000
128	0.532	0.321	0.000	0.107	0.587	0.742	0.000
129	0.585	0.321	0.000	0.107	0.587	0.742	0.000
130	0.585	0.321	0.000	0.107	0.587	0.742	0.000
131	0.585	0.374	0.000	0.107	0.587	0.742	0.000
132	0.638	0.375	0.000	0.107	0.587	0.742	0.000
133	0.638	0.375	0.000	0.107	0.587	0.742	0.000
134	0.638	0.427	0.000	0.107	0.587	0.742	0.000
135	0.690	0.375	0.000	0.107	0.587	0.742	0.000
136	0.691	0.482	0.000	0.107	0.587	0.742	0.000
137	0.744	0.482	0.000	0.161	0.587	0.742	0.000
138	0.692	0.482	0.000	0.161	0.587	0.742	0.000
139	0.691	0.589	0.000	0.214	0.587	0.742	0.000
140	0.691	0.589	0.000	0.214	0.587	0.742	0.000
141	0.798	0.696	0.000	0.214	0.587	0.742	0.000
142	0.746	0.697	0.052	0.214	0.587	0.742	0.000
143	0.850	0.749	0.054	0.268	0.587	0.742	0.000
144	0.851	0.749	0.054	0.269	0.587	0.743	0.000
145	0.904	0.749	0.054	0.322	0.587	0.795	0.000
146	0.905	0.803	0.054	0.375	0.587	0.795	0.000
147	1.060	0.803	0.054	0.375	0.587	0.795	0.000
148	1.169	0.910	0.054	0.375	0.640	0.795	0.000

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

149	1.170	0.857	0.158	0.375	0.745	0.795	0.000
150	1.170	0.909	0.108	0.375	0.694	0.795	0.000
151	1.170	0.962	0.107	0.375	0.694	0.795	0.000
152	1.170	0.910	0.159	0.375	0.746	0.795	0.000
153	1.170	1.016	0.161	0.376	0.747	0.795	0.000
154	1.170	1.070	0.213	0.428	0.852	0.795	0.000
155	1.170	1.070	0.267	0.376	0.907	0.795	0.000
156	1.170	1.124	0.214	0.481	0.907	0.795	0.000
157	1.170	1.124	0.214	0.429	0.960	0.795	0.000
158	1.223	1.124	0.214	0.430	0.960	0.795	0.000
159	1.117	1.124	0.214	0.535	0.960	0.795	0.000
160	1.117	1.177	0.214	0.643	0.960	0.795	0.000
161	1.117	1.178	0.214	0.590	0.960	0.795	0.000
162	1.117	1.230	0.267	0.590	1.013	0.795	0.000
163	1.117	1.231	0.268	0.695	1.066	0.847	0.000
164	1.063	1.284	0.532	0.804	1.173	0.901	0.000
165	1.063	1.284	0.643	0.858	1.283	1.006	0.000
166	1.063	1.339	0.643	0.858	1.492	1.060	0.000
167	1.063	1.443	0.746	0.911	1.547	1.060	0.000
168	1.063	1.766	0.697	0.911	1.547	1.114	0.053
169	1.063	1.712	0.748	0.911	1.547	1.218	0.053
170	1.063	1.712	0.803	0.966	1.707	1.324	0.053
171	0.957	1.712	0.909	1.019	1.707	1.272	0.053
172	0.957	1.712	0.963	1.125	1.759	1.272	0.053
173	0.905	1.712	0.912	1.125	1.760	1.272	0.053
174	0.904	1.712	1.017	1.182	1.760	1.272	0.053
175	0.904	1.712	1.070	1.340	1.760	1.272	0.053
176	0.904	1.712	1.019	1.393	1.760	1.272	0.053
177	0.904	1.712	1.018	1.340	1.760	1.272	0.053
178	0.904	1.712	1.018	1.340	1.866	1.272	0.053
179	0.904	1.765	1.018	1.340	1.814	1.272	0.053
180	0.053	0.053	0.053	0.053	0.053	0.053	0.053



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

Zone	Lumens	%Lamp	%Fixt
0-20	374.10	N.A.	12.40
0-30	796.21	N.A.	26.40
0-40	1307.99	N.A.	43.40
0-60	2330.87	N.A.	77.30
0-80	2942.55	N.A.	97.60
0-90	3011.15	N.A.	99.90
10-90	2914.49	N.A.	96.70
20-40	933.88	N.A.	31.00
20-50	1468.5	N.A.	48.70
40-70	1403.52	N.A.	46.60
60-80	611.68	N.A.	20.30
70-80	231.04	N.A.	7.70
80-90	68.60	N.A.	2.30
90-110	0.38	N.A.	0.00
90-120	0.71	N.A.	0.00
90-130	1.08	N.A.	0.00
90-150	1.93	N.A.	0.10
90-180	2.67	N.A.	0.10
110-180	2.29	N.A.	0.10
0-180	3013.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.66
10-20	277.44
20-30	422.11
30-40	511.78
40-50	534.62
50-60	488.27
60-70	380.63
70-80	231.04
80-90	68.60
90-100	0.14
100-110	0.24
110-120	0.33
120-130	0.37
130-140	0.42
140-150	0.43
150-160	0.36
160-170	0.26
170-180	0.11

**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\_25W\_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

X=2H	Y=2H	16.6	18.3	17.0	18.6	18.9	16.5	18.2	16.9	18.5	18.8
	3H	18.6	20.1	18.9	20.4	20.7	18.4	19.9	18.8	20.3	20.6
	4H	19.3	20.7	19.7	21.1	21.5	19.2	20.6	19.6	21.0	21.3
	6H	19.9	21.2	20.3	21.6	22.0	19.8	21.1	20.2	21.5	21.8
	8H	20.1	21.4	20.5	21.8	22.2	20.0	21.2	20.4	21.6	22.0
	12H	20.3	21.5	20.7	21.9	22.3	20.1	21.3	20.6	21.7	22.1

UGR Viewed Endwise

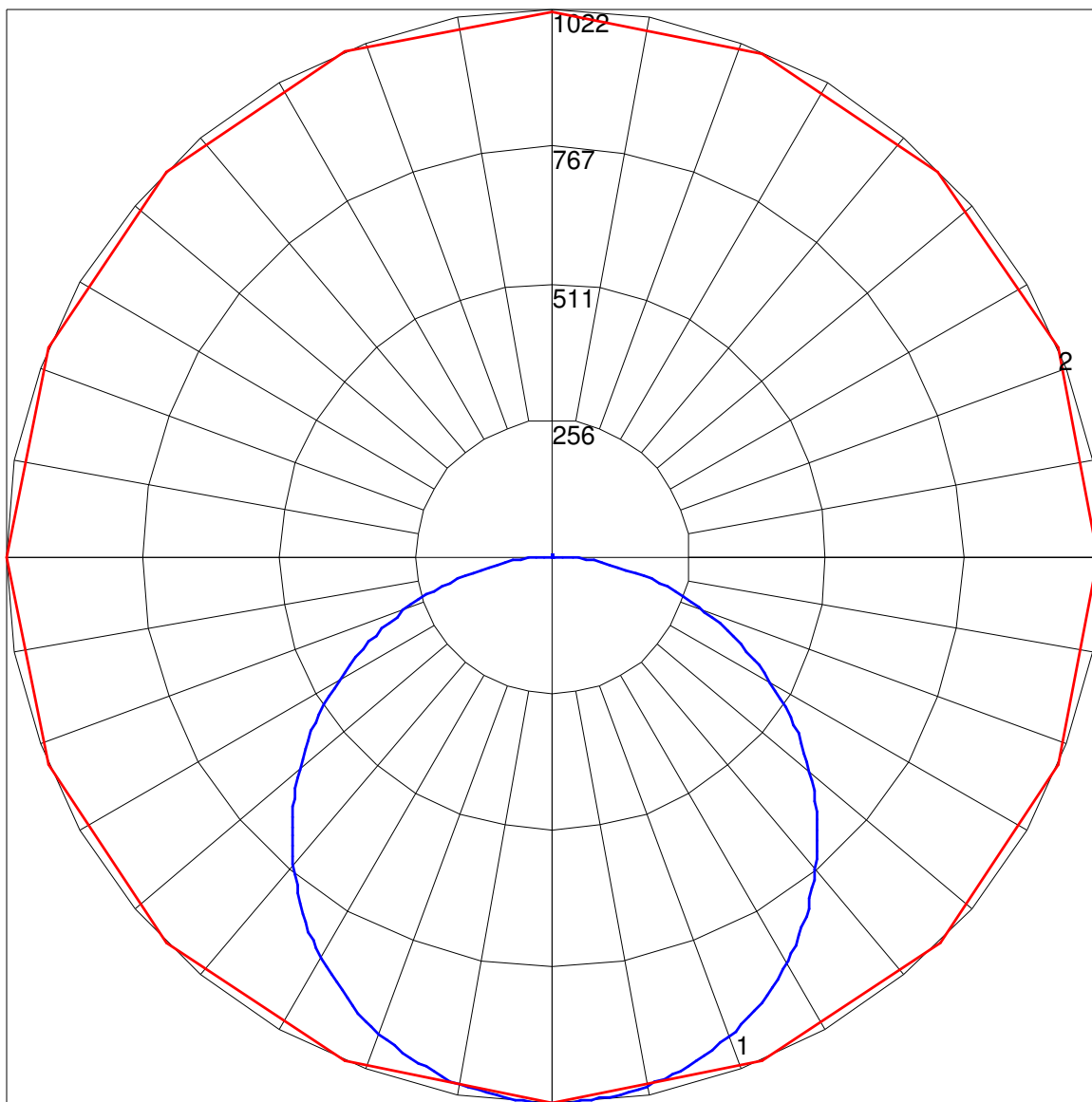
4H	2H	17.3	18.7	17.7	19.0	19.4	17.2	18.6	17.6	19.0	19.3
	3H	19.4	20.6	19.8	21.0	21.4	19.3	20.5	19.7	20.9	21.3
	4H	20.4	21.4	20.8	21.8	22.3	20.2	21.3	20.7	21.7	22.2
	6H	21.1	22.0	21.5	22.5	22.9	21.0	21.9	21.4	22.3	22.8
	8H	21.3	22.2	21.8	22.7	23.1	21.2	22.1	21.7	22.5	23.0
	12H	21.5	22.4	22.0	22.8	23.3	21.4	22.2	21.9	22.7	23.2

8H	4H	20.7	21.6	21.1	22.0	22.5	20.6	21.5	21.0	21.9	22.4
	6H	21.6	22.3	22.1	22.8	23.3	21.4	22.2	21.9	22.7	23.1
	8H	21.9	22.6	22.4	23.1	23.6	21.8	22.5	22.3	23.0	23.4
	12H	22.2	22.8	22.7	23.3	23.8	22.1	22.7	22.6	23.1	23.7

12H	4H	20.7	21.5	21.2	22.0	22.5	20.6	21.4	21.1	21.9	22.4
	6H	21.7	22.3	22.2	22.8	23.3	21.5	22.2	22.1	22.7	23.2
	8H	22.0	22.7	22.6	23.1	23.7	21.9	22.5	22.4	23.0	23.6

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 1022.265 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.)