



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.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\_4000K  
[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	3558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	28
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	4371	4332	4338
55	4262	4214	4209
65	4098	4034	4015
75	3820	3761	3717
85	3285	3174	3203

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**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	1205.408	1205.408	1205.408	1205.408	1205.408	1205.408	1205.408	1205.408	1205.408	1205.408
1	1205.256	1205.181	1204.497	1204.118	1204.877	1205.712	1205.560	1205.864	1205.256	1205.256
2	1205.029	1204.725	1204.042	1203.510	1204.042	1204.649	1204.345	1204.649	1204.649	1204.421
3	1204.270	1203.966	1203.738	1203.207	1203.586	1203.359	1202.903	1203.510	1203.586	1202.827
4	1203.131	1201.537	1201.689	1201.233	1201.613	1201.081	1201.233	1202.068	1202.903	1201.992
5	1200.702	1201.157	1200.018	1200.474	1200.018	1200.018	1198.272	1199.867	1200.094	1200.018
6	1198.880	1197.134	1197.893	1196.527	1197.362	1196.906	1196.451	1197.286	1197.513	1196.830
7	1196.982	1195.843	1195.388	1194.249	1194.705	1194.401	1193.338	1194.629	1195.464	1195.388
8	1192.655	1192.048	1191.364	1191.896	1192.275	1191.364	1189.770	1191.744	1192.731	1192.200
9	1190.378	1189.087	1189.087	1187.265	1188.783	1187.417	1186.430	1187.873	1188.859	1188.480
10	1185.975	1184.836	1185.064	1183.470	1184.684	1183.546	1182.331	1183.697	1185.064	1185.064
11	1181.268	1181.724	1179.750	1179.598	1180.054	1179.750	1178.232	1179.219	1180.509	1179.978
12	1177.928	1176.486	1176.106	1174.360	1174.967	1174.512	1173.070	1174.512	1176.030	1176.410
13	1172.311	1170.944	1171.020	1169.426	1170.716	1168.135	1168.059	1169.654	1171.551	1170.640
14	1167.376	1166.921	1164.643	1164.188	1164.264	1162.897	1162.594	1164.036	1165.403	1165.706
15	1161.607	1160.696	1159.026	1157.584	1159.026	1157.356	1156.445	1158.191	1159.330	1159.557
16	1155.458	1154.623	1153.105	1152.346	1152.118	1150.903	1150.372	1151.283	1153.484	1153.105
17	1148.626	1148.322	1146.425	1144.527	1145.817	1143.919	1143.844	1145.514	1147.032	1146.349
18	1142.098	1141.035	1139.517	1137.391	1138.833	1137.467	1136.480	1137.467	1139.972	1139.744
19	1134.886	1133.292	1132.077	1131.014	1131.242	1128.585	1128.433	1130.407	1132.305	1132.381
20	1127.750	1126.232	1123.803	1123.120	1123.575	1121.905	1121.753	1122.360	1124.790	1124.486
21	1119.703	1117.122	1116.136	1115.604	1115.680	1112.871	1113.706	1114.238	1116.515	1115.908
22	1111.429	1110.063	1107.026	1106.115	1107.406	1105.052	1104.521	1105.736	1107.861	1108.393
23	1101.940	1100.270	1097.841	1097.309	1098.069	1095.488	1096.398	1096.398	1098.752	1098.676
24	1093.969	1090.933	1088.124	1088.200	1088.504	1086.530	1086.606	1087.593	1089.187	1089.415
25	1083.266	1082.127	1078.407	1078.407	1079.318	1076.661	1077.420	1077.876	1080.153	1079.926
26	1074.156	1072.638	1069.070	1067.931	1069.222	1066.793	1067.476	1068.159	1069.298	1069.981
27	1063.453	1061.251	1057.683	1058.366	1058.215	1056.545	1056.924	1057.683	1059.809	1059.885
28	1053.736	1051.079	1047.587	1047.359	1048.270	1046.069	1046.296	1046.600	1047.663	1048.574
29	1042.653	1039.920	1036.428	1036.124	1037.035	1034.834	1035.289	1035.972	1037.946	1037.946
30	1031.114	1028.609	1024.586	1024.813	1025.952	1023.219	1023.978	1023.523	1025.572	1027.091
31	1019.575	1016.918	1012.667	1013.958	1013.730	1012.212	1012.212	1012.212	1014.565	1014.034
32	1007.809	1004.773	1001.357	1000.142	1002.192	999.459	999.990	999.914	1002.040	1002.192
33	995.208	993.158	988.300	989.135	989.590	987.389	988.300	987.085	989.362	991.108
34	982.834	980.557	975.243	975.622	976.761	974.256	974.484	974.787	977.065	977.141
35	970.157	966.892	962.565	962.414	963.704	961.275	961.199	961.047	964.084	964.235
36	956.796	954.063	949.281	949.357	950.571	947.763	947.763	948.522	950.040	950.799
37	943.587	939.944	934.782	935.617	935.920	934.326	934.022	933.795	936.831	937.287
38	929.695	925.824	921.497	920.966	922.863	920.282	920.586	919.827	922.180	922.863
39	915.272	911.628	907.605	907.909	908.364	906.163	905.024	905.631	908.136	908.971
40	900.621	897.053	893.030	893.106	892.878	890.828	890.449	890.449	893.258	894.624
41	884.983	882.934	877.544	877.696	878.227	876.329	875.267	875.950	878.683	879.366
42	870.484	866.840	862.437	862.741	863.121	861.602	860.312	860.160	862.893	864.335
43	855.150	851.961	848.090	847.938	848.242	845.737	844.674	845.281	847.786	848.545
44	839.740	836.020	832.073	831.845	831.237	830.099	829.264	829.112	832.528	833.211
45	822.887	819.699	815.524	815.524	816.511	813.778	813.019	813.246	815.903	816.586
46	807.325	802.695	799.279	799.734	799.354	797.608	796.697	796.622	799.354	800.645
47	790.245	786.753	783.337	782.957	783.033	780.832	780.528	780.300	783.489	783.868
48	773.544	770.128	765.725	765.801	766.257	764.663	763.752	763.068	766.409	768.003
49	756.790	752.676	749.169	749.769	749.366	747.309	746.474	746.307	749.055	749.936
50	739.756	735.535	732.385	732.711	731.686	730.054	728.923	729.052	732.051	732.559
51	722.554	718.273	714.075	714.811	714.804	712.648	711.790	711.365	714.257	715.236
52	704.206	701.124	697.192	697.503	696.873	693.852	694.026	693.085	696.607	697.275
53	686.762	682.898	679.489	679.428	678.981	676.529	675.739	676.164	678.760	679.603

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

54	668.315	665.066	661.521	661.840	660.739	658.545	657.839	657.649	660.557	661.392
55	650.794	647.052	643.439	643.203	642.626	639.605	639.165	639.537	642.437	643.021
56	632.181	628.704	624.438	624.726	623.557	621.637	620.650	620.718	623.633	624.073
57	613.886	610.166	606.727	606.758	605.429	602.909	601.315	602.059	605.118	605.422
58	595.417	591.469	587.636	588.152	586.474	583.946	582.709	583.369	586.398	586.694
59	576.697	572.506	568.976	568.711	567.640	564.900	563.192	564.467	567.147	567.496
60	557.491	553.672	550.370	550.165	548.920	545.603	544.176	545.459	548.435	549.285
61	538.391	534.300	531.377	530.975	529.297	526.906	524.826	526.283	529.229	529.753
62	519.421	515.064	512.536	511.640	510.099	507.343	505.354	506.554	510.456	510.896
63	500.003	495.144	492.715	492.700	490.779	488.267	486.012	487.621	490.089	490.954
64	480.265	476.045	472.963	473.426	471.361	468.742	466.518	467.892	471.073	471.687
65	461.014	456.710	453.810	453.749	451.738	449.316	447.092	448.595	451.988	451.965
66	441.072	436.851	434.043	433.838	432.137	429.989	427.491	428.805	432.016	432.069
67	421.798	417.016	414.624	414.214	412.818	410.419	408.210	409.386	412.818	412.719
68	401.962	397.764	394.773	394.728	392.655	390.522	388.161	390.082	392.974	393.042
69	382.020	378.073	375.241	375.104	373.275	371.104	368.462	370.011	373.290	373.237
70	362.032	358.556	355.739	355.314	353.462	351.412	349.067	350.403	353.637	353.583
71	342.303	338.515	336.237	335.919	333.945	332.305	329.861	330.772	333.899	334.454
72	322.330	318.497	317.054	316.113	314.291	312.454	310.549	311.687	313.722	314.504
73	302.791	298.972	297.386	296.740	294.660	293.074	291.206	291.707	294.250	294.349
74	283.236	279.281	278.514	277.208	275.675	273.914	272.008	272.327	274.878	275.159
75	263.187	260.174	259.118	257.889	256.143	254.822	252.947	252.635	255.406	255.353
76	244.391	240.770	239.882	238.569	237.423	236.155	234.060	233.604	236.026	236.330
77	224.472	221.815	220.441	219.318	218.809	217.435	215.644	214.535	216.349	217.033
78	205.502	202.754	201.881	200.241	199.748	198.609	196.643	195.542	197.288	197.918
79	186.820	183.867	182.751	181.764	181.445	180.200	178.135	176.769	178.477	178.963
80	167.758	165.200	163.985	163.052	162.649	161.624	159.400	158.041	159.818	160.288
81	149.122	146.624	145.220	144.559	144.810	143.588	141.136	139.822	141.447	141.956
82	130.303	128.223	126.766	126.295	126.591	125.574	122.841	121.308	123.008	123.403
83	111.948	110.065	109.086	108.273	109.086	107.704	104.683	103.332	104.797	105.313
84	93.706	92.036	91.497	90.290	91.558	90.055	87.056	85.682	86.980	87.360
85	76.223	74.559	73.650	73.166	74.328	72.562	69.590	67.951	68.956	69.451
86	58.776	57.553	56.636	56.165	57.310	55.485	52.536	50.977	51.762	52.255
87	41.520	40.398	39.637	39.252	40.404	38.604	35.329	34.204	34.670	35.657
88	24.948	24.167	23.075	21.974	21.730	19.915	18.895	18.116	18.413	19.270
89	9.636	8.804	5.950	1.939	1.188	0.994	1.578	3.463	4.145	4.256
90	1.063	0.757	0.345	0.215	0.000	0.000	0.000	0.250	0.375	0.062
91	0.873	0.501	0.125	0.002	0.000	0.000	0.000	0.250	0.375	0.000
92	0.751	0.500	0.063	0.000	0.000	0.000	0.000	0.250	0.375	0.000
93	0.812	0.439	0.062	0.000	0.000	0.000	0.000	0.250	0.438	0.000
94	0.750	0.438	0.000	0.000	0.000	0.000	0.000	0.313	0.438	0.000
95	0.750	0.438	0.000	0.000	0.000	0.000	0.000	0.251	0.438	0.000
96	0.750	0.438	0.000	0.000	0.000	0.000	0.000	0.375	0.500	0.063
97	0.750	0.438	0.000	0.000	0.000	0.000	0.000	0.375	0.502	0.124
98	0.750	0.438	0.000	0.000	0.000	0.000	0.000	0.375	0.688	0.064
99	0.750	0.438	0.000	0.000	0.000	0.000	0.000	0.375	0.688	0.125
100	0.813	0.438	0.000	0.000	0.000	0.000	0.000	0.437	0.811	0.125
101	0.937	0.438	0.000	0.000	0.000	0.000	0.063	0.500	0.813	0.188
102	0.875	0.438	0.000	0.000	0.000	0.000	0.126	0.563	0.937	0.313
103	0.876	0.438	0.000	0.000	0.000	0.062	0.188	0.686	1.061	0.374
104	0.937	0.438	0.000	0.000	0.000	0.001	0.253	0.688	1.000	0.314
105	0.875	0.438	0.000	0.000	0.063	0.062	0.314	0.688	1.000	0.375
106	0.998	0.438	0.000	0.000	0.000	0.063	0.377	0.688	1.000	0.499
107	0.938	0.500	0.000	0.000	0.065	0.126	0.378	0.688	1.000	0.500
108	0.938	0.564	0.000	0.000	0.128	0.064	0.441	0.688	1.000	0.500
109	0.938	0.688	0.000	0.000	0.188	0.064	0.441	0.688	1.000	0.500

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

110	0.938	0.813	0.000	0.000	0.126	0.128	0.443	0.688	0.938	0.500
111	0.938	0.750	0.063	0.000	0.126	0.253	0.566	0.688	1.000	0.500
112	0.938	0.750	0.063	0.000	0.129	0.191	0.505	0.688	0.875	0.500
113	1.000	0.750	0.063	0.000	0.189	0.316	0.630	0.688	0.813	0.500
114	0.876	0.750	0.125	0.000	0.128	0.316	0.630	0.688	0.813	0.500
115	0.688	0.750	0.252	0.000	0.191	0.442	0.756	0.688	0.813	0.500
116	0.688	0.750	0.375	0.000	0.253	0.380	0.818	0.688	0.813	0.500
117	0.437	0.627	0.314	0.000	0.253	0.506	0.756	0.688	0.813	0.500
118	0.314	0.625	0.439	0.000	0.316	0.506	0.755	0.688	0.874	0.500
119	0.063	0.625	0.566	0.000	0.316	0.633	0.755	0.688	0.625	0.500
120	0.000	0.625	0.627	0.001	0.317	0.570	0.755	0.688	0.316	0.500
121	0.000	0.625	0.567	0.124	0.443	0.696	0.755	0.688	0.187	0.500
122	0.000	0.688	0.753	0.063	0.443	0.633	0.755	0.688	0.063	0.502
123	0.000	0.751	0.753	0.128	0.443	0.633	0.755	0.688	0.063	0.625
124	0.000	0.813	0.879	0.252	0.443	0.633	0.755	0.751	0.000	0.626
125	0.000	0.813	0.879	0.253	0.443	0.633	0.755	0.751	0.000	0.687
126	0.000	0.875	0.879	0.315	0.507	0.633	0.756	0.938	0.000	0.813
127	0.000	0.876	1.004	0.379	0.571	0.633	0.818	1.001	0.000	0.877
128	0.000	0.876	1.004	0.317	0.632	0.633	0.818	1.001	0.000	1.000
129	0.000	0.876	1.004	0.316	0.569	0.633	0.820	1.189	0.000	1.062
130	0.000	0.876	1.004	0.316	0.569	0.633	0.944	1.189	0.000	1.001
131	0.000	0.876	1.004	0.316	0.569	0.633	0.881	1.375	0.000	1.001
132	0.000	0.876	1.067	0.316	0.569	0.633	0.946	1.502	0.000	1.061
133	0.000	0.876	1.067	0.316	0.569	0.633	1.071	1.564	0.000	0.938
134	0.000	0.876	1.067	0.316	0.569	0.633	1.134	1.628	0.000	0.938
135	0.000	0.876	1.067	0.316	0.569	0.695	1.195	1.750	0.062	0.938
136	0.000	0.876	1.067	0.316	0.570	0.633	1.133	1.752	0.000	0.938
137	0.000	0.876	1.067	0.316	0.633	0.758	1.133	1.752	0.000	0.938
138	0.000	0.876	1.067	0.316	0.694	0.822	1.133	1.752	0.061	0.938
139	0.000	0.876	1.066	0.317	0.634	0.823	1.133	1.877	0.001	0.938
140	0.000	0.876	1.004	0.441	0.696	0.823	1.133	1.877	0.185	0.938
141	0.000	0.876	1.004	0.442	0.760	0.949	1.133	1.940	0.187	0.938
142	0.000	0.876	1.004	0.443	0.822	0.949	1.133	1.940	0.127	0.938
143	0.000	0.876	1.004	0.568	0.759	0.949	1.133	2.002	0.249	0.938
144	0.000	0.876	1.004	0.506	0.759	0.949	1.197	2.002	0.250	0.938
145	0.000	0.876	1.004	0.630	0.760	0.949	1.260	2.002	0.312	0.938
146	0.000	0.876	1.004	0.758	0.823	1.012	1.323	2.065	0.313	0.938
147	0.000	0.876	1.004	0.695	0.885	1.012	1.384	2.126	0.375	0.938
148	0.000	0.876	1.004	0.758	0.885	1.012	1.448	2.127	0.375	0.938
149	0.000	0.876	1.004	0.758	0.885	1.012	1.448	2.127	0.437	0.938
150	0.000	0.876	1.004	0.821	0.885	1.012	1.448	2.127	0.376	0.938
151	0.000	0.876	1.004	0.821	0.885	1.012	1.448	2.127	0.500	0.997
152	0.000	0.876	1.004	0.821	0.885	1.012	1.448	2.066	0.439	0.690
153	0.000	0.876	1.005	0.822	0.886	1.012	1.448	2.065	0.562	0.563
154	0.000	0.876	1.194	0.884	0.949	1.012	1.448	2.065	0.625	0.374
155	0.000	0.876	1.255	0.884	0.949	1.012	1.448	2.065	0.748	0.251
156	0.000	0.876	1.195	0.884	0.950	1.012	1.448	2.065	0.814	0.188
157	0.000	0.876	1.318	0.947	1.012	1.012	1.448	2.065	0.936	0.188
158	0.000	0.876	1.256	0.947	1.012	1.012	1.448	2.065	1.125	0.188
159	0.000	0.876	1.380	0.947	1.012	1.012	1.448	2.063	1.188	0.188
160	0.000	0.876	1.318	0.947	1.012	1.012	1.448	1.755	1.249	0.188
161	0.000	0.937	1.318	0.947	1.075	1.012	1.448	1.751	1.313	0.188
162	0.000	0.938	1.381	0.947	1.075	1.012	1.448	1.690	1.374	0.188
163	0.000	1.000	1.382	0.947	1.075	1.012	1.448	1.689	1.437	0.188
164	0.000	0.939	1.444	0.947	1.075	1.012	1.448	1.690	1.438	0.188
165	0.000	0.938	1.759	0.947	1.075	1.012	1.448	1.752	1.562	0.188

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

166	0.000	0.938	1.883	0.947	1.077	1.076	1.512	1.815	1.500	0.188
167	0.000	0.939	1.820	0.947	1.265	1.138	1.573	1.815	1.500	0.188
168	0.063	1.063	1.820	1.012	1.327	1.202	1.637	2.187	1.500	0.188
169	0.063	1.002	1.820	1.137	1.265	1.202	1.574	2.190	1.500	0.188
170	0.063	1.001	1.944	1.137	1.265	1.202	1.574	2.190	1.500	0.188
171	0.063	1.063	1.884	1.137	1.265	1.202	1.574	2.190	1.500	0.188
172	0.063	1.125	2.009	1.200	1.265	1.202	1.574	2.190	1.500	0.188
173	0.063	1.064	1.946	1.200	1.265	1.202	1.574	2.190	1.500	0.188
174	0.063	1.063	1.946	1.200	1.265	1.202	1.574	2.190	1.500	0.187
175	0.063	1.063	1.946	1.200	1.265	1.202	1.574	2.190	1.500	0.126
176	0.063	1.063	1.946	1.200	1.265	1.202	1.574	2.190	1.500	0.187
177	0.063	1.063	1.946	1.200	1.265	1.202	1.574	2.190	1.500	0.125
178	0.063	1.063	1.946	1.200	1.265	1.202	1.574	2.128	1.500	0.063
179	0.063	1.063	2.009	1.200	1.264	1.202	1.574	2.127	1.500	0.063
180	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062

**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	1205.408	1205.408	1205.408	1205.408	1205.408	1205.408	1205.408
1	1204.042	1206.016	1204.649	1206.775	1205.864	1206.167	1205.256
2	1204.877	1204.725	1204.421	1204.801	1205.788	1205.560	1205.029
3	1203.890	1204.270	1203.814	1205.484	1205.256	1205.029	1204.270
4	1202.220	1203.055	1202.448	1204.118	1204.877	1203.586	1203.131
5	1199.943	1200.170	1199.943	1201.613	1202.448	1201.840	1200.702
6	1197.969	1198.500	1198.197	1200.550	1200.854	1199.791	1198.880
7	1194.325	1195.843	1195.312	1197.665	1198.880	1197.210	1196.982
8	1192.807	1193.186	1193.035	1195.236	1196.071	1195.160	1192.655
9	1188.100	1189.087	1189.467	1192.124	1193.414	1190.985	1190.378
10	1184.760	1185.519	1185.747	1188.480	1189.315	1187.948	1185.975
11	1181.040	1182.255	1181.268	1184.077	1186.506	1183.849	1181.268
12	1176.030	1177.473	1177.473	1180.054	1180.737	1178.763	1177.928
13	1171.020	1171.855	1171.627	1175.347	1177.245	1173.525	1172.311
14	1165.478	1166.617	1166.845	1169.957	1171.855	1169.350	1167.376
15	1160.013	1160.089	1160.392	1164.568	1166.162	1162.973	1161.607
16	1153.636	1154.471	1155.154	1159.178	1159.861	1156.900	1155.458
17	1145.817	1148.474	1147.791	1152.346	1153.636	1150.903	1148.626
18	1139.517	1140.807	1141.566	1146.045	1147.335	1144.071	1142.098
19	1132.153	1133.140	1134.810	1137.543	1139.592	1136.936	1134.886
20	1124.410	1126.156	1126.384	1131.394	1132.077	1128.813	1127.750
21	1116.363	1116.743	1119.172	1122.209	1124.182	1120.007	1119.703
22	1107.254	1109.379	1110.290	1114.086	1115.984	1111.657	1111.429
23	1099.131	1100.574	1101.257	1105.432	1107.026	1103.610	1101.940
24	1088.504	1090.857	1092.299	1096.474	1098.144	1095.032	1093.969
25	1079.470	1080.761	1082.582	1086.834	1088.048	1085.012	1083.266
26	1069.222	1071.803	1072.258	1076.434	1078.787	1074.915	1074.156
27	1059.277	1060.492	1062.542	1066.717	1068.691	1065.123	1063.453
28	1048.650	1051.003	1052.142	1056.165	1057.000	1053.812	1053.736
29	1037.491	1038.933	1040.831	1045.158	1046.752	1043.260	1042.653
30	1026.256	1028.305	1029.596	1033.467	1035.441	1032.253	1031.114
31	1015.021	1016.159	1018.133	1022.688	1023.523	1020.866	1019.575
32	1001.736	1004.469	1005.759	1010.010	1011.529	1008.492	1007.809
33	989.286	992.247	993.841	997.409	999.459	996.726	995.208
34	976.457	979.722	980.708	985.263	986.478	983.821	982.834
35	964.311	966.361	968.107	972.282	973.345	971.523	970.157
36	950.344	952.697	954.746	958.542	960.060	957.935	956.796

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

37	936.452	939.109	941.462	944.802	946.472	943.663	943.587
38	922.712	925.065	927.039	930.606	931.821	930.227	929.695
39	908.364	911.325	913.223	916.411	918.081	915.879	915.272
40	893.941	895.915	897.661	901.304	903.202	901.836	900.621
41	878.986	881.339	883.693	887.109	888.020	886.274	884.983
42	864.639	866.005	867.827	871.926	873.369	871.243	870.484
43	848.621	850.747	852.569	855.378	857.275	855.605	855.150
44	832.832	835.185	837.007	839.664	841.106	840.347	839.740
45	817.877	818.560	820.610	823.798	825.013	823.722	822.887
46	800.265	802.770	804.137	807.857	808.312	808.540	807.325
47	784.476	786.905	788.195	791.004	792.674	791.156	790.245
48	767.851	769.597	770.811	774.228	775.670	774.759	773.544
49	750.201	753.352	754.285	757.451	757.929	757.155	756.790
50	733.888	735.808	737.008	740.128	741.897	740.204	739.756
51	715.889	718.683	719.108	722.433	723.822	723.382	722.554
52	698.293	700.365	701.284	704.548	705.709	705.011	704.206
53	680.673	683.133	683.831	686.633	688.212	687.422	686.762
54	662.325	665.187	665.514	668.383	669.939	669.264	668.315
55	644.532	646.953	647.340	649.382	651.926	651.273	650.794
56	625.705	628.507	628.894	631.027	632.826	632.879	632.181
57	607.107	609.923	610.303	612.193	614.303	614.736	613.886
58	588.068	590.885	591.780	593.268	595.591	595.720	595.417
59	568.794	571.998	572.916	573.782	576.545	576.864	576.697
60	550.067	553.171	553.794	554.955	556.717	557.385	557.491
61	530.785	533.692	534.725	535.590	537.594	538.194	538.391
62	511.564	514.350	515.420	516.020	518.480	518.768	519.421
63	492.776	495.190	495.402	496.814	498.500	499.456	500.003
64	472.522	475.567	475.961	476.698	479.256	480.174	480.265
65	453.286	456.019	456.042	457.499	459.496	460.635	461.014
66	433.731	436.107	436.479	437.345	439.326	440.708	441.072
67	414.017	416.575	416.613	417.722	419.559	421.418	421.798
68	394.409	396.648	396.990	397.977	399.890	401.522	401.962
69	374.459	376.881	377.336	378.384	379.872	381.701	382.020
70	354.783	357.220	357.485	358.199	360.233	361.562	362.032
71	335.281	337.839	337.513	338.834	340.041	341.779	342.303
72	315.521	317.882	317.943	319.317	320.387	321.678	322.330
73	295.974	298.410	298.130	299.617	300.817	301.804	302.791
74	276.760	278.840	278.491	280.063	281.216	282.105	283.236
75	257.395	259.217	258.830	260.629	261.882	262.193	263.187
76	238.129	240.573	239.184	241.590	242.904	242.987	244.391
77	218.862	221.595	219.401	222.217	223.462	223.409	224.472
78	200.044	202.655	199.892	202.981	204.166	204.560	205.502
79	181.225	183.836	180.815	184.049	185.423	185.332	186.820
80	162.255	165.420	161.723	165.063	166.657	166.680	167.758
81	143.907	147.216	143.360	146.875	147.770	147.938	149.122
82	125.088	128.929	124.936	128.436	129.559	129.468	130.303
83	107.309	110.976	107.681	110.763	111.386	111.295	111.948
84	89.219	93.091	89.910	93.114	93.698	93.212	93.706
85	71.679	75.442	73.327	75.833	76.352	75.950	76.223
86	54.778	57.955	56.747	58.843	58.974	58.442	58.776
87	37.564	40.752	40.072	41.800	41.596	41.464	41.520
88	20.439	20.411	18.329	21.086	24.105	24.661	24.948
89	2.126	0.763	0.622	1.306	4.425	8.319	9.636
90	0.000	0.000	0.134	0.126	0.275	0.500	1.063
91	0.000	0.000	0.001	0.000	0.063	0.437	0.873
92	0.000	0.000	0.000	0.000	0.063	0.314	0.751

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

93	0.000	0.000	0.000	0.000	0.000	0.250	0.812
94	0.000	0.000	0.000	0.000	0.000	0.250	0.750
95	0.000	0.000	0.000	0.000	0.000	0.250	0.750
96	0.000	0.000	0.000	0.000	0.000	0.250	0.750
97	0.000	0.000	0.000	0.000	0.000	0.250	0.750
98	0.000	0.000	0.000	0.000	0.000	0.188	0.750
99	0.000	0.000	0.000	0.000	0.000	0.188	0.750
100	0.000	0.000	0.000	0.000	0.000	0.188	0.813
101	0.000	0.000	0.000	0.000	0.000	0.188	0.937
102	0.000	0.000	0.000	0.000	0.000	0.188	0.875
103	0.000	0.000	0.000	0.000	0.000	0.251	0.876
104	0.000	0.000	0.000	0.000	0.000	0.375	0.937
105	0.000	0.000	0.000	0.000	0.000	0.375	0.875
106	0.124	0.000	0.000	0.000	0.000	0.375	0.998
107	0.126	0.001	0.000	0.000	0.000	0.438	0.938
108	0.126	0.063	0.000	0.000	0.000	0.565	0.938
109	0.251	0.063	0.000	0.000	0.000	0.748	0.938
110	0.189	0.064	0.000	0.000	0.000	0.875	0.938
111	0.251	0.127	0.000	0.000	0.000	0.814	0.938
112	0.252	0.189	0.000	0.000	0.000	0.814	0.938
113	0.376	0.126	0.000	0.000	0.000	0.876	1.000
114	0.439	0.190	0.000	0.000	0.000	0.876	0.876
115	0.378	0.253	0.000	0.000	0.063	0.935	0.688
116	0.502	0.253	0.000	0.000	0.125	0.626	0.688
117	0.502	0.253	0.000	0.000	0.252	0.562	0.437
118	0.502	0.253	0.000	0.000	0.190	0.438	0.314
119	0.502	0.253	0.000	0.000	0.314	0.438	0.063
120	0.502	0.253	0.000	0.000	0.440	0.438	0.000
121	0.502	0.316	0.000	0.000	0.379	0.438	0.000
122	0.502	0.316	0.000	0.000	0.567	0.504	0.000
123	0.502	0.316	0.000	0.000	0.691	0.749	0.000
124	0.502	0.379	0.000	0.000	0.755	0.813	0.000
125	0.502	0.379	0.000	0.063	0.693	0.876	0.000
126	0.565	0.379	0.000	0.063	0.693	0.876	0.000
127	0.628	0.379	0.000	0.126	0.693	0.876	0.000
128	0.628	0.379	0.000	0.127	0.693	0.876	0.000
129	0.690	0.379	0.000	0.127	0.693	0.876	0.000
130	0.690	0.379	0.000	0.127	0.693	0.876	0.000
131	0.690	0.442	0.000	0.127	0.693	0.876	0.000
132	0.753	0.442	0.000	0.127	0.693	0.876	0.000
133	0.753	0.442	0.000	0.127	0.693	0.876	0.000
134	0.754	0.505	0.000	0.127	0.693	0.876	0.000
135	0.815	0.443	0.000	0.127	0.693	0.876	0.000
136	0.816	0.568	0.000	0.127	0.693	0.876	0.000
137	0.878	0.568	0.000	0.190	0.693	0.876	0.000
138	0.817	0.568	0.000	0.190	0.693	0.876	0.000
139	0.816	0.695	0.000	0.252	0.693	0.876	0.000
140	0.816	0.695	0.000	0.253	0.693	0.876	0.000
141	0.941	0.821	0.000	0.253	0.693	0.876	0.000
142	0.881	0.822	0.061	0.253	0.693	0.876	0.000
143	1.003	0.884	0.063	0.316	0.693	0.876	0.000
144	1.004	0.884	0.063	0.317	0.693	0.877	0.000
145	1.067	0.884	0.063	0.380	0.693	0.938	0.000
146	1.069	0.947	0.063	0.443	0.693	0.939	0.000
147	1.252	0.947	0.063	0.443	0.693	0.939	0.000
148	1.380	1.074	0.063	0.443	0.756	0.939	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

149	1.381	1.012	0.186	0.443	0.880	0.939	0.000
150	1.381	1.073	0.128	0.443	0.819	0.939	0.000
151	1.381	1.136	0.126	0.443	0.819	0.939	0.000
152	1.381	1.074	0.188	0.443	0.881	0.939	0.000
153	1.381	1.200	0.190	0.443	0.882	0.939	0.000
154	1.381	1.263	0.251	0.506	1.005	0.939	0.000
155	1.381	1.263	0.315	0.444	1.070	0.939	0.000
156	1.381	1.326	0.253	0.568	1.071	0.939	0.000
157	1.381	1.326	0.253	0.506	1.133	0.939	0.000
158	1.444	1.326	0.253	0.508	1.133	0.939	0.000
159	1.318	1.327	0.253	0.632	1.133	0.939	0.000
160	1.318	1.389	0.253	0.759	1.133	0.939	0.000
161	1.318	1.391	0.253	0.696	1.133	0.939	0.000
162	1.318	1.452	0.315	0.696	1.196	0.939	0.000
163	1.318	1.453	0.316	0.821	1.258	1.000	0.000
164	1.255	1.516	0.628	0.949	1.385	1.064	0.000
165	1.255	1.516	0.759	1.012	1.514	1.187	0.000
166	1.255	1.581	0.759	1.012	1.761	1.251	0.000
167	1.255	1.704	0.881	1.076	1.826	1.251	0.000
168	1.255	2.084	0.823	1.076	1.826	1.315	0.063
169	1.255	2.021	0.883	1.076	1.826	1.438	0.063
170	1.255	2.021	0.948	1.140	2.015	1.563	0.063
171	1.130	2.021	1.073	1.203	2.015	1.502	0.063
172	1.130	2.021	1.137	1.328	2.077	1.502	0.063
173	1.068	2.021	1.077	1.329	2.077	1.502	0.063
174	1.067	2.021	1.201	1.395	2.077	1.502	0.063
175	1.067	2.021	1.264	1.582	2.077	1.502	0.063
176	1.067	2.021	1.203	1.645	2.077	1.502	0.063
177	1.067	2.021	1.201	1.582	2.077	1.502	0.063
178	1.067	2.022	1.201	1.582	2.203	1.502	0.063
179	1.067	2.084	1.201	1.582	2.141	1.502	0.063
180	0.062	0.062	0.062	0.062	0.062	0.062	0.062



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	441.63	N.A.	12.40
0-30	939.92	N.A.	26.40
0-40	1544.07	N.A.	43.40
0-60	2751.57	N.A.	77.30
0-80	3473.65	N.A.	97.60
0-90	3554.64	N.A.	99.90
10-90	3440.53	N.A.	96.70
20-40	1102.44	N.A.	31.00
20-50	1733.55	N.A.	48.70
40-70	1656.84	N.A.	46.60
60-80	722.08	N.A.	20.30
70-80	272.75	N.A.	7.70
80-90	80.99	N.A.	2.30
90-110	0.45	N.A.	0.00
90-120	0.84	N.A.	0.00
90-130	1.28	N.A.	0.00
90-150	2.28	N.A.	0.10
90-180	3.15	N.A.	0.10
110-180	2.70	N.A.	0.10
0-180	3557.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	114.11
10-20	327.52
20-30	498.29
30-40	604.15
40-50	631.12
50-60	576.39
60-70	449.33
70-80	272.75
80-90	80.99
90-100	0.17
100-110	0.28
110-120	0.39
120-130	0.44
130-140	0.50
140-150	0.50
150-160	0.43
160-170	0.31
170-180	0.13

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_30W\_4000K.IES**

**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\_4000K.IES**

**UGR TABLE - CORRECTED**

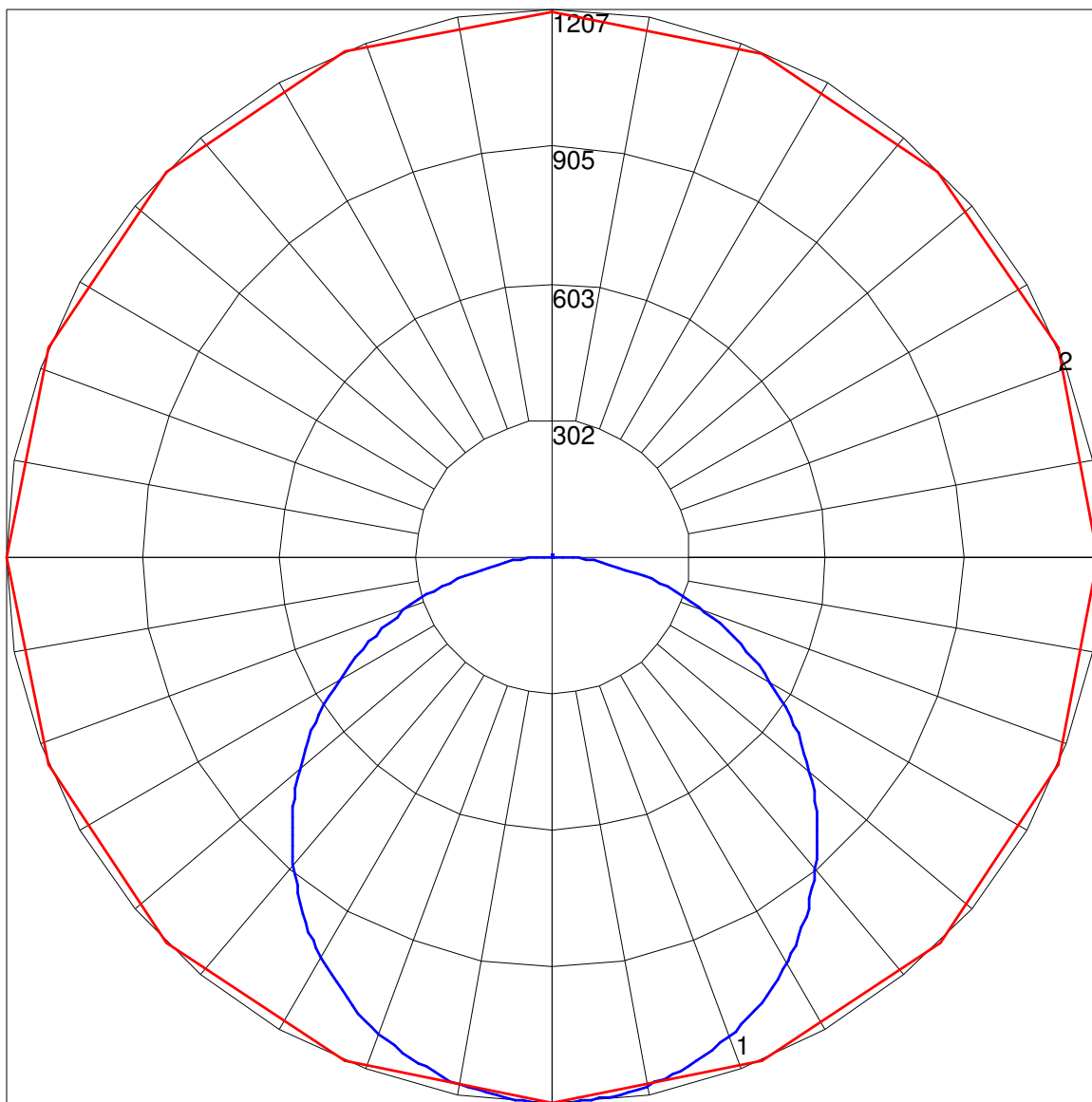
Reflectances

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	17.2	18.9	17.6	19.2	19.5	17.1	18.8	17.5	19.1	19.4
	3H	19.2	20.7	19.5	21.0	21.3	19.0	20.5	19.4	20.9	21.2
	4H	19.9	21.3	20.3	21.7	22.1	19.8	21.2	20.2	21.6	21.9
	6H	20.5	21.8	20.9	22.2	22.6	20.4	21.7	20.8	22.1	22.4
	8H	20.7	22.0	21.1	22.4	22.8	20.6	21.8	21.0	22.2	22.6
	12H	20.9	22.1	21.3	22.5	22.9	20.7	21.9	21.2	22.3	22.7
4H	2H	17.9	19.3	18.3	19.6	20.0	17.8	19.2	18.2	19.6	19.9
	3H	20.0	21.2	20.4	21.6	22.0	19.9	21.1	20.3	21.5	21.9
	4H	20.9	22.0	21.4	22.4	22.9	20.8	21.9	21.2	22.3	22.7
	6H	21.7	22.6	22.1	23.1	23.5	21.6	22.5	22.0	22.9	23.4
	8H	21.9	22.8	22.4	23.3	23.7	21.8	22.7	22.3	23.1	23.6
	12H	22.1	22.9	22.6	23.4	23.9	22.0	22.8	22.5	23.3	23.8
8H	4H	21.3	22.2	21.7	22.6	23.1	21.2	22.1	21.6	22.5	23.0
	6H	22.2	22.9	22.7	23.4	23.9	22.0	22.8	22.5	23.3	23.7
	8H	22.5	23.2	23.0	23.7	24.2	22.4	23.1	22.9	23.6	24.0
	12H	22.8	23.4	23.3	23.9	24.4	22.7	23.3	23.2	23.7	24.3
12H	4H	21.3	22.1	21.8	22.6	23.1	21.2	22.0	21.7	22.5	23.0
	6H	22.3	22.9	22.8	23.4	23.9	22.1	22.8	22.7	23.3	23.8
	8H	22.6	23.3	23.2	23.7	24.3	22.5	23.1	23.0	23.6	24.2

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1206.775 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.)