



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_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\_25W\_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	3002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	26
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	3688	3655	3660
55	3596	3555	3551
65	3457	3403	3388
75	3223	3173	3137
85	2772	2678	2703

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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	1017.042	1017.042	1017.042	1017.042	1017.042	1017.042	1017.042	1017.042	1017.042	1017.042
1	1016.914	1016.850	1016.273	1015.953	1016.594	1017.298	1017.170	1017.426	1016.914	1016.914
2	1016.722	1016.466	1015.889	1015.441	1015.889	1016.402	1016.145	1016.402	1016.402	1016.209
3	1016.081	1015.825	1015.633	1015.185	1015.505	1015.313	1014.928	1015.441	1015.505	1014.864
4	1015.121	1013.775	1013.904	1013.519	1013.840	1013.391	1013.519	1014.224	1014.928	1014.160
5	1013.071	1013.455	1012.494	1012.879	1012.494	1012.494	1011.021	1012.366	1012.559	1012.494
6	1011.534	1010.061	1010.701	1009.548	1010.253	1009.868	1009.484	1010.189	1010.381	1009.804
7	1009.933	1008.972	1008.587	1007.627	1008.011	1007.755	1006.858	1007.947	1008.652	1008.587
8	1006.282	1005.769	1005.193	1005.641	1005.961	1005.193	1003.848	1005.513	1006.346	1005.897
9	1004.360	1003.271	1003.271	1001.734	1003.015	1001.862	1001.030	1002.247	1003.079	1002.759
10	1000.645	999.685	999.877	998.532	999.557	998.596	997.571	998.724	999.877	999.877
11	996.674	997.059	995.393	995.265	995.649	995.393	994.112	994.945	996.034	995.585
12	993.856	992.639	992.319	990.846	991.358	990.974	989.757	990.974	992.255	992.575
13	989.116	987.964	988.028	986.683	987.771	985.594	985.530	986.875	988.476	987.707
14	984.953	984.569	982.647	982.263	982.327	981.174	980.918	982.135	983.288	983.544
15	980.085	979.317	977.908	976.691	977.908	976.499	975.730	977.203	978.164	978.356
16	974.897	974.193	972.912	972.271	972.079	971.054	970.606	971.375	973.232	972.912
17	969.133	968.877	967.276	965.674	966.763	965.162	965.098	966.507	967.788	967.212
18	963.625	962.728	961.447	959.654	960.871	959.718	958.885	959.718	961.831	961.639
19	957.540	956.195	955.170	954.274	954.466	952.224	952.096	953.761	955.362	955.426
20	951.519	950.238	948.189	947.612	947.997	946.588	946.459	946.972	949.021	948.765
21	944.730	942.552	941.720	941.271	941.336	938.966	939.670	940.119	942.040	941.528
22	937.749	936.596	934.034	933.265	934.354	932.369	931.920	932.945	934.738	935.187
23	929.743	928.333	926.284	925.836	926.476	924.298	925.067	925.067	927.052	926.988
24	923.017	920.455	918.086	918.150	918.406	916.740	916.805	917.637	918.982	919.174
25	913.986	913.026	909.887	909.887	910.656	908.414	909.055	909.439	911.360	911.168
26	906.300	905.019	902.009	901.048	902.137	900.088	900.664	901.241	902.201	902.778
27	897.269	895.412	892.402	892.978	892.850	891.441	891.761	892.402	894.195	894.259
28	889.071	886.829	883.883	883.691	884.460	882.602	882.794	883.050	883.947	884.716
29	879.720	877.414	874.468	874.212	874.980	873.123	873.507	874.084	875.749	875.749
30	869.984	867.871	864.476	864.668	865.629	863.323	863.964	863.579	865.309	866.590
31	860.249	858.007	854.420	855.509	855.317	854.036	854.036	854.036	856.022	855.573
32	850.321	847.759	844.877	843.852	845.582	843.276	843.724	843.660	845.453	845.582
33	839.689	837.960	833.860	834.565	834.949	833.092	833.860	832.836	834.757	836.230
34	829.249	827.327	822.844	823.164	824.125	822.011	822.203	822.460	824.381	824.445
35	818.553	815.798	812.148	812.020	813.108	811.059	810.995	810.867	813.429	813.557
36	807.280	804.974	800.939	801.003	802.028	799.658	799.658	800.299	801.579	802.220
37	796.135	793.061	788.706	789.410	789.666	788.321	788.065	787.873	790.435	790.819
38	784.414	781.148	777.497	777.049	778.650	776.472	776.728	776.088	778.073	778.650
39	772.245	769.170	765.776	766.032	766.416	764.559	763.598	764.111	766.224	766.929
40	759.883	756.873	753.478	753.542	753.350	751.621	751.301	751.301	753.670	754.823
41	746.689	744.960	740.412	740.540	740.989	739.387	738.491	739.067	741.373	741.949
42	734.456	731.381	727.666	727.923	728.243	726.962	725.873	725.745	728.051	729.268
43	721.518	718.828	715.561	715.433	715.689	713.575	712.679	713.191	715.305	715.945
44	708.516	705.377	702.047	701.854	701.342	700.381	699.677	699.549	702.431	703.007
45	694.297	691.607	688.084	688.084	688.916	686.611	685.970	686.162	688.404	688.980
46	681.166	677.259	674.377	674.761	674.441	672.968	672.200	672.135	674.441	675.530
47	666.755	663.809	660.927	660.607	660.671	658.813	658.557	658.365	661.055	661.375
48	652.664	649.782	646.067	646.131	646.516	645.171	644.402	643.826	646.644	647.989
49	638.529	635.057	632.098	632.604	632.265	630.529	629.824	629.683	632.002	632.745
50	624.156	620.595	617.937	618.212	617.348	615.970	615.016	615.125	617.655	618.084
51	609.642	606.030	602.488	603.109	603.103	601.284	600.560	600.201	602.642	603.468
52	594.162	591.561	588.243	588.506	587.974	585.425	585.573	584.778	587.750	588.314
53	579.443	576.183	573.307	573.256	572.878	570.809	570.143	570.502	572.692	573.403

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**CANDELA TABULATION - (Cont.)**

54	563.879	561.138	558.147	558.416	557.487	555.636	555.040	554.880	557.333	558.038
55	549.096	545.939	542.890	542.691	542.205	539.655	539.284	539.598	542.045	542.538
56	533.391	530.458	526.858	527.102	526.115	524.495	523.662	523.720	526.179	526.551
57	517.955	514.817	511.916	511.941	510.820	508.694	507.349	507.977	510.558	510.814
58	502.372	499.042	495.807	496.243	494.827	492.694	491.650	492.208	494.763	495.013
59	486.578	483.042	480.064	479.840	478.937	476.624	475.183	476.259	478.520	478.815
60	470.373	467.151	464.365	464.192	463.142	460.343	459.139	460.221	462.732	463.449
61	454.258	450.806	448.340	448.001	446.585	444.568	442.813	444.042	446.527	446.969
62	438.252	434.576	432.443	431.687	430.387	428.062	426.384	427.396	430.688	431.060
63	421.868	417.769	415.720	415.707	414.086	411.966	410.064	411.422	413.504	414.234
64	405.216	401.654	399.054	399.445	397.703	395.493	393.616	394.775	397.459	397.978
65	388.973	385.341	382.894	382.843	381.146	379.103	377.226	378.494	381.357	381.338
66	372.147	368.586	366.216	366.043	364.608	362.796	360.688	361.796	364.506	364.551
67	355.885	351.850	349.832	349.486	348.308	346.284	344.420	345.413	348.308	348.224
68	339.149	335.607	333.083	333.045	331.296	329.496	327.504	329.125	331.565	331.623
69	322.323	318.992	316.603	316.488	314.944	313.112	310.883	312.190	314.957	314.912
70	305.458	302.525	300.149	299.790	298.227	296.498	294.519	295.646	298.375	298.330
71	288.812	285.616	283.694	283.425	281.760	280.377	278.314	279.083	281.722	282.189
72	271.961	268.726	267.509	266.715	265.178	263.628	262.020	262.981	264.697	265.357
73	255.474	252.253	250.914	250.369	248.615	247.276	245.700	246.123	248.269	248.352
74	238.975	235.638	234.991	233.890	232.596	231.110	229.502	229.771	231.923	232.160
75	222.060	219.517	218.627	217.589	216.116	215.001	213.419	213.157	215.495	215.450
76	206.201	203.146	202.396	201.288	200.321	199.252	197.484	197.100	199.143	199.399
77	189.394	187.153	185.993	185.045	184.616	183.457	181.945	181.010	182.541	183.118
78	173.388	171.070	170.333	168.950	168.533	167.573	165.914	164.985	166.458	166.990
79	157.626	155.134	154.193	153.360	153.091	152.041	150.299	149.146	150.587	150.997
80	141.543	139.385	138.360	137.572	137.232	136.368	134.491	133.345	134.843	135.241
81	125.819	123.712	122.527	121.969	122.181	121.150	119.081	117.973	119.343	119.773
82	109.941	108.186	106.956	106.559	106.809	105.951	103.645	102.351	103.786	104.119
83	94.454	92.865	92.039	91.354	92.039	90.873	88.324	87.184	88.420	88.856
84	79.063	77.654	77.199	76.180	77.250	75.982	73.452	72.293	73.388	73.708
85	64.312	62.908	62.141	61.732	62.713	61.223	58.715	57.333	58.181	58.598
86	49.591	48.559	47.785	47.388	48.354	46.814	44.326	43.011	43.673	44.089
87	35.032	34.085	33.443	33.118	34.090	32.572	29.808	28.859	29.252	30.085
88	21.049	20.391	19.469	18.540	18.334	16.803	15.942	15.285	15.536	16.259
89	8.130	7.428	5.020	1.636	1.003	0.839	1.332	2.922	3.497	3.591
90	0.897	0.638	0.291	0.182	0.000	0.000	0.000	0.211	0.316	0.052
91	0.737	0.423	0.105	0.002	0.000	0.000	0.000	0.211	0.316	0.000
92	0.633	0.422	0.053	0.000	0.000	0.000	0.000	0.211	0.316	0.000
93	0.685	0.370	0.052	0.000	0.000	0.000	0.000	0.211	0.369	0.000
94	0.633	0.369	0.000	0.000	0.000	0.000	0.000	0.264	0.369	0.000
95	0.633	0.369	0.000	0.000	0.000	0.000	0.000	0.212	0.369	0.000
96	0.633	0.369	0.000	0.000	0.000	0.000	0.000	0.317	0.422	0.053
97	0.633	0.369	0.000	0.000	0.000	0.000	0.000	0.317	0.424	0.105
98	0.633	0.369	0.000	0.000	0.000	0.000	0.000	0.317	0.580	0.054
99	0.633	0.369	0.000	0.000	0.000	0.000	0.000	0.317	0.580	0.106
100	0.686	0.369	0.000	0.000	0.000	0.000	0.000	0.369	0.684	0.106
101	0.790	0.369	0.000	0.000	0.000	0.000	0.053	0.422	0.686	0.159
102	0.739	0.369	0.000	0.000	0.000	0.000	0.106	0.475	0.791	0.264
103	0.739	0.369	0.000	0.000	0.000	0.053	0.159	0.579	0.895	0.316
104	0.791	0.369	0.000	0.000	0.000	0.000	0.213	0.581	0.844	0.265
105	0.738	0.369	0.000	0.000	0.053	0.052	0.265	0.581	0.844	0.316
106	0.842	0.370	0.000	0.000	0.000	0.053	0.318	0.581	0.844	0.421
107	0.791	0.422	0.000	0.000	0.055	0.106	0.319	0.581	0.844	0.422
108	0.791	0.476	0.000	0.000	0.108	0.054	0.372	0.581	0.844	0.422
109	0.791	0.580	0.000	0.000	0.159	0.054	0.372	0.581	0.844	0.422

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**CANDELA TABULATION - (Cont.)**

110	0.791	0.686	0.000	0.000	0.107	0.108	0.373	0.581	0.792	0.422
111	0.791	0.633	0.053	0.000	0.107	0.213	0.478	0.581	0.844	0.422
112	0.791	0.633	0.053	0.000	0.108	0.161	0.426	0.581	0.738	0.422
113	0.843	0.633	0.053	0.000	0.159	0.266	0.531	0.581	0.686	0.422
114	0.739	0.633	0.106	0.000	0.108	0.267	0.532	0.581	0.686	0.422
115	0.580	0.633	0.212	0.000	0.161	0.373	0.638	0.581	0.686	0.422
116	0.580	0.633	0.316	0.000	0.213	0.320	0.690	0.581	0.686	0.422
117	0.369	0.529	0.265	0.000	0.213	0.427	0.638	0.581	0.686	0.422
118	0.265	0.528	0.370	0.000	0.267	0.427	0.637	0.581	0.738	0.422
119	0.053	0.528	0.477	0.000	0.267	0.534	0.637	0.581	0.528	0.422
120	0.000	0.528	0.529	0.001	0.268	0.481	0.637	0.581	0.267	0.422
121	0.000	0.528	0.479	0.105	0.373	0.587	0.637	0.581	0.158	0.422
122	0.000	0.580	0.635	0.053	0.373	0.534	0.637	0.581	0.053	0.424
123	0.000	0.634	0.636	0.108	0.373	0.534	0.637	0.581	0.053	0.528
124	0.000	0.686	0.741	0.212	0.373	0.534	0.637	0.634	0.000	0.528
125	0.000	0.686	0.741	0.213	0.374	0.534	0.637	0.634	0.000	0.580
126	0.000	0.738	0.741	0.266	0.428	0.534	0.638	0.792	0.000	0.686
127	0.000	0.739	0.847	0.320	0.482	0.534	0.691	0.845	0.000	0.740
128	0.000	0.739	0.847	0.268	0.533	0.534	0.691	0.845	0.000	0.844
129	0.000	0.739	0.847	0.266	0.480	0.534	0.692	1.003	0.000	0.896
130	0.000	0.739	0.847	0.266	0.480	0.534	0.796	1.003	0.000	0.844
131	0.000	0.739	0.847	0.266	0.480	0.534	0.744	1.160	0.000	0.844
132	0.000	0.739	0.900	0.266	0.480	0.534	0.798	1.268	0.000	0.895
133	0.000	0.739	0.900	0.266	0.480	0.534	0.903	1.320	0.000	0.792
134	0.000	0.739	0.900	0.266	0.480	0.534	0.957	1.373	0.000	0.792
135	0.000	0.739	0.900	0.266	0.480	0.586	1.009	1.476	0.052	0.792
136	0.000	0.739	0.900	0.266	0.481	0.534	0.956	1.478	0.000	0.792
137	0.000	0.739	0.900	0.266	0.534	0.639	0.956	1.478	0.000	0.792
138	0.000	0.739	0.900	0.266	0.586	0.693	0.956	1.478	0.052	0.792
139	0.000	0.739	0.900	0.267	0.535	0.694	0.956	1.584	0.001	0.792
140	0.000	0.739	0.847	0.372	0.587	0.694	0.956	1.584	0.156	0.792
141	0.000	0.739	0.847	0.373	0.641	0.801	0.956	1.637	0.158	0.792
142	0.000	0.739	0.847	0.374	0.693	0.801	0.956	1.637	0.107	0.792
143	0.000	0.739	0.847	0.479	0.640	0.801	0.956	1.689	0.210	0.792
144	0.000	0.739	0.847	0.427	0.640	0.801	1.010	1.689	0.211	0.792
145	0.000	0.739	0.847	0.532	0.641	0.801	1.063	1.689	0.263	0.792
146	0.000	0.739	0.847	0.639	0.694	0.854	1.116	1.742	0.264	0.792
147	0.000	0.739	0.847	0.587	0.747	0.854	1.168	1.794	0.316	0.792
148	0.000	0.739	0.847	0.640	0.747	0.854	1.222	1.795	0.316	0.792
149	0.000	0.739	0.847	0.640	0.747	0.854	1.222	1.795	0.369	0.792
150	0.000	0.739	0.847	0.693	0.747	0.854	1.222	1.795	0.317	0.792
151	0.000	0.739	0.847	0.693	0.747	0.854	1.222	1.794	0.422	0.841
152	0.000	0.739	0.847	0.693	0.747	0.854	1.222	1.743	0.370	0.582
153	0.000	0.739	0.848	0.693	0.748	0.854	1.222	1.742	0.474	0.475
154	0.000	0.739	1.007	0.746	0.800	0.854	1.222	1.742	0.528	0.316
155	0.000	0.739	1.059	0.746	0.800	0.854	1.222	1.742	0.631	0.212
156	0.000	0.739	1.008	0.746	0.801	0.854	1.222	1.742	0.686	0.158
157	0.000	0.739	1.112	0.799	0.854	0.854	1.222	1.742	0.790	0.158
158	0.000	0.739	1.060	0.799	0.854	0.854	1.222	1.742	0.949	0.158
159	0.000	0.739	1.165	0.799	0.854	0.854	1.222	1.741	1.002	0.158
160	0.000	0.739	1.112	0.799	0.854	0.854	1.222	1.481	1.054	0.158
161	0.000	0.791	1.112	0.799	0.907	0.854	1.222	1.477	1.108	0.158
162	0.000	0.792	1.165	0.799	0.907	0.854	1.222	1.426	1.160	0.158
163	0.000	0.844	1.166	0.799	0.907	0.854	1.222	1.425	1.213	0.158
164	0.000	0.792	1.218	0.799	0.907	0.854	1.222	1.426	1.214	0.158
165	0.000	0.792	1.484	0.799	0.907	0.854	1.222	1.478	1.318	0.158

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_3500K.IES

## CANDELA TABULATION - (Cont.)

166	0.000	0.792	1.588	0.799	0.909	0.908	1.276	1.531	1.266	0.158
167	0.000	0.793	1.536	0.799	1.067	0.960	1.327	1.531	1.266	0.158
168	0.053	0.897	1.536	0.854	1.120	1.014	1.381	1.845	1.266	0.158
169	0.053	0.845	1.536	0.959	1.067	1.014	1.328	1.848	1.266	0.158
170	0.053	0.845	1.640	0.959	1.067	1.014	1.328	1.848	1.266	0.158
171	0.053	0.897	1.590	0.960	1.067	1.014	1.328	1.848	1.266	0.158
172	0.053	0.950	1.695	1.013	1.067	1.014	1.328	1.848	1.266	0.158
173	0.053	0.898	1.642	1.013	1.067	1.014	1.328	1.848	1.266	0.158
174	0.053	0.897	1.642	1.013	1.067	1.014	1.328	1.848	1.266	0.158
175	0.053	0.897	1.642	1.013	1.067	1.014	1.328	1.848	1.266	0.106
176	0.053	0.897	1.642	1.013	1.067	1.014	1.328	1.848	1.266	0.158
177	0.053	0.897	1.642	1.013	1.067	1.014	1.328	1.848	1.266	0.106
178	0.053	0.897	1.642	1.013	1.067	1.014	1.328	1.795	1.266	0.053
179	0.053	0.897	1.695	1.013	1.067	1.014	1.328	1.795	1.266	0.053
180	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053

## 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	1017.042	1017.042	1017.042	1017.042	1017.042	1017.042	1017.042
1	1015.889	1017.554	1016.402	1018.195	1017.426	1017.683	1016.914
2	1016.594	1016.466	1016.209	1016.530	1017.362	1017.170	1016.722
3	1015.761	1016.081	1015.697	1017.106	1016.914	1016.722	1016.081
4	1014.352	1015.056	1014.544	1015.953	1016.594	1015.505	1015.121
5	1012.430	1012.623	1012.430	1013.840	1014.544	1014.032	1013.071
6	1010.765	1011.214	1010.957	1012.943	1013.199	1012.302	1011.534
7	1007.691	1008.972	1008.523	1010.509	1011.534	1010.125	1009.933
8	1006.410	1006.730	1006.602	1008.459	1009.164	1008.395	1006.282
9	1002.439	1003.271	1003.592	1005.833	1006.922	1004.873	1004.360
10	999.621	1000.261	1000.453	1002.759	1003.464	1002.311	1000.645
11	996.482	997.507	996.674	999.044	1001.094	998.852	996.674
12	992.255	993.472	993.472	995.649	996.226	994.561	993.856
13	988.028	988.732	988.540	991.678	993.280	990.141	989.116
14	983.352	984.313	984.505	987.131	988.732	986.619	984.953
15	978.740	978.804	979.061	982.583	983.928	981.238	980.085
16	973.360	974.065	974.641	978.036	978.612	976.114	974.897
17	966.763	969.005	968.428	972.271	973.360	971.054	969.133
18	961.447	962.536	963.176	966.955	968.044	965.290	963.625
19	955.234	956.067	957.476	959.782	961.511	959.269	957.540
20	948.701	950.174	950.366	954.594	955.170	952.416	951.519
21	941.912	942.232	944.282	946.844	948.509	944.986	944.730
22	934.226	936.019	936.788	939.990	941.592	937.941	937.749
23	927.373	928.590	929.166	932.689	934.034	931.152	929.743
24	918.406	920.391	921.608	925.131	926.540	923.914	923.017
25	910.784	911.873	913.410	916.997	918.021	915.460	913.986
26	902.137	904.315	904.699	908.222	910.207	906.941	906.300
27	893.747	894.772	896.501	900.024	901.689	898.679	897.269
28	884.780	886.765	887.726	891.121	891.825	889.135	889.071
29	875.365	876.581	878.183	881.834	883.179	880.232	879.720
30	865.885	867.615	868.703	871.970	873.635	870.945	869.984
31	856.406	857.367	859.032	862.875	863.579	861.338	860.249
32	845.197	847.503	848.592	852.179	853.460	850.898	850.321
33	834.693	837.191	838.536	841.546	843.276	840.970	839.689
34	823.869	826.623	827.455	831.298	832.323	830.082	829.249
35	813.621	815.350	816.823	820.346	821.243	819.706	818.553
36	801.836	803.821	805.551	808.753	810.034	808.241	807.280

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**CANDELA TABULATION - (Cont.)**

37	790.115	792.356	794.342	797.160	798.569	796.199	796.135
38	778.522	780.507	782.172	785.183	786.208	784.863	784.414
39	766.416	768.914	770.515	773.206	774.615	772.757	772.245
40	754.247	755.912	757.385	760.460	762.061	760.908	759.883
41	741.629	743.615	745.600	748.482	749.251	747.778	746.689
42	729.524	730.677	732.214	735.673	736.890	735.096	734.456
43	716.009	717.803	719.340	721.710	723.311	721.902	721.518
44	702.687	704.673	706.210	708.452	709.668	709.028	708.516
45	690.069	690.646	692.375	695.065	696.090	695.001	694.297
46	675.210	677.323	678.476	681.615	681.999	682.191	681.166
47	661.888	663.937	665.026	667.396	668.805	667.524	666.755
48	647.861	649.334	650.359	653.241	654.458	653.689	652.664
49	632.969	635.627	636.415	639.086	639.489	638.836	638.529
50	619.205	620.825	621.837	624.470	625.962	624.534	624.156
51	604.019	606.376	606.735	609.540	610.712	610.340	609.642
52	589.172	590.921	591.696	594.450	595.430	594.841	594.162
53	574.306	576.381	576.971	579.334	580.666	580.000	579.443
54	558.825	561.240	561.516	563.937	565.250	564.680	563.879
55	543.812	545.855	546.182	547.905	550.051	549.500	549.096
56	527.928	530.291	530.618	532.418	533.936	533.981	533.391
57	512.236	514.612	514.932	516.527	518.308	518.673	517.955
58	496.172	498.548	499.304	500.560	502.520	502.628	502.372
59	479.910	482.613	483.388	484.118	486.450	486.719	486.578
60	464.109	466.729	467.254	468.234	469.720	470.283	470.373
61	447.841	450.294	451.165	451.895	453.586	454.092	454.258
62	431.623	433.974	434.877	435.383	437.458	437.701	438.252
63	415.771	417.808	417.987	419.178	420.600	421.407	421.868
64	398.683	401.251	401.584	402.205	404.364	405.139	405.216
65	382.452	384.758	384.777	386.007	387.692	388.652	388.973
66	365.953	367.958	368.272	369.002	370.674	371.839	372.147
67	349.320	351.478	351.510	352.445	353.995	355.564	355.885
68	332.776	334.665	334.953	335.786	337.400	338.777	339.149
69	315.943	317.987	318.371	319.255	320.510	322.054	322.323
70	299.342	301.398	301.622	302.224	303.940	305.061	305.458
71	282.887	285.046	284.770	285.885	286.903	288.370	288.812
72	266.215	268.207	268.259	269.418	270.321	271.410	271.961
73	249.723	251.779	251.542	252.797	253.809	254.642	255.474
74	233.512	235.267	234.972	236.298	237.271	238.021	238.975
75	217.173	218.710	218.383	219.901	220.958	221.221	222.060
76	200.917	202.979	201.807	203.838	204.946	205.016	206.201
77	184.661	186.967	185.116	187.492	188.543	188.498	189.394
78	168.783	170.987	168.655	171.262	172.261	172.594	173.388
79	152.905	155.109	152.560	155.288	156.447	156.370	157.626
80	136.899	139.570	136.451	139.269	140.614	140.633	141.543
81	121.419	124.211	120.957	123.923	124.679	124.820	125.819
82	105.541	108.782	105.413	108.365	109.313	109.236	109.941
83	90.540	93.634	90.854	93.455	93.980	93.903	94.454
84	75.277	78.544	75.860	78.563	79.056	78.646	79.063
85	60.478	63.653	61.869	63.983	64.421	64.082	64.312
86	46.218	48.899	47.879	49.647	49.758	49.309	49.591
87	31.694	34.384	33.810	35.268	35.096	34.984	35.032
88	17.245	17.222	15.465	17.791	20.338	20.807	21.049
89	1.794	0.644	0.525	1.102	3.734	7.019	8.130
90	0.000	0.000	0.113	0.106	0.232	0.422	0.897
91	0.000	0.000	0.001	0.000	0.053	0.368	0.737
92	0.000	0.000	0.000	0.000	0.053	0.265	0.633

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**CANDELA TABULATION - (Cont.)**

93	0.000	0.000	0.000	0.000	0.000	0.211	0.685
94	0.000	0.000	0.000	0.000	0.000	0.211	0.633
95	0.000	0.000	0.000	0.000	0.000	0.211	0.633
96	0.000	0.000	0.000	0.000	0.000	0.211	0.633
97	0.000	0.000	0.000	0.000	0.000	0.211	0.633
98	0.000	0.000	0.000	0.000	0.000	0.158	0.633
99	0.000	0.000	0.000	0.000	0.000	0.158	0.633
100	0.000	0.000	0.000	0.000	0.000	0.158	0.686
101	0.000	0.000	0.000	0.000	0.000	0.158	0.790
102	0.000	0.000	0.000	0.000	0.000	0.158	0.739
103	0.000	0.000	0.000	0.000	0.000	0.212	0.739
104	0.000	0.000	0.000	0.000	0.000	0.316	0.791
105	0.000	0.000	0.000	0.000	0.000	0.317	0.738
106	0.105	0.000	0.000	0.000	0.000	0.317	0.842
107	0.106	0.001	0.000	0.000	0.000	0.369	0.791
108	0.106	0.053	0.000	0.000	0.000	0.477	0.791
109	0.212	0.053	0.000	0.000	0.000	0.631	0.791
110	0.159	0.054	0.000	0.000	0.000	0.739	0.791
111	0.212	0.107	0.000	0.000	0.000	0.687	0.791
112	0.213	0.159	0.000	0.000	0.000	0.686	0.791
113	0.317	0.107	0.000	0.000	0.000	0.739	0.843
114	0.371	0.160	0.000	0.000	0.000	0.739	0.739
115	0.319	0.213	0.000	0.000	0.053	0.789	0.580
116	0.423	0.213	0.000	0.000	0.106	0.528	0.580
117	0.424	0.213	0.000	0.000	0.212	0.474	0.369
118	0.424	0.213	0.000	0.000	0.160	0.370	0.265
119	0.424	0.213	0.000	0.000	0.265	0.370	0.053
120	0.424	0.213	0.000	0.000	0.371	0.370	0.000
121	0.424	0.266	0.000	0.000	0.319	0.370	0.000
122	0.424	0.266	0.000	0.000	0.478	0.425	0.000
123	0.424	0.266	0.000	0.000	0.583	0.632	0.000
124	0.424	0.320	0.000	0.000	0.637	0.686	0.000
125	0.424	0.320	0.000	0.053	0.584	0.739	0.000
126	0.477	0.320	0.000	0.054	0.584	0.739	0.000
127	0.530	0.320	0.000	0.106	0.584	0.739	0.000
128	0.530	0.320	0.000	0.107	0.584	0.739	0.000
129	0.583	0.320	0.000	0.107	0.584	0.739	0.000
130	0.583	0.320	0.000	0.107	0.584	0.739	0.000
131	0.583	0.373	0.000	0.107	0.584	0.739	0.000
132	0.636	0.373	0.000	0.107	0.584	0.739	0.000
133	0.636	0.373	0.000	0.107	0.584	0.739	0.000
134	0.636	0.426	0.000	0.107	0.584	0.739	0.000
135	0.688	0.374	0.000	0.107	0.584	0.739	0.000
136	0.689	0.480	0.000	0.107	0.584	0.739	0.000
137	0.741	0.480	0.000	0.160	0.584	0.739	0.000
138	0.689	0.480	0.000	0.160	0.584	0.739	0.000
139	0.688	0.586	0.000	0.213	0.584	0.739	0.000
140	0.688	0.586	0.000	0.214	0.584	0.739	0.000
141	0.794	0.693	0.000	0.214	0.584	0.739	0.000
142	0.743	0.694	0.052	0.214	0.584	0.739	0.000
143	0.846	0.746	0.053	0.267	0.584	0.739	0.000
144	0.848	0.746	0.053	0.268	0.584	0.740	0.000
145	0.900	0.746	0.053	0.320	0.584	0.792	0.000
146	0.902	0.799	0.053	0.374	0.584	0.792	0.000
147	1.056	0.799	0.053	0.374	0.584	0.792	0.000
148	1.165	0.906	0.053	0.374	0.638	0.792	0.000

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

149	1.165	0.854	0.157	0.374	0.742	0.792	0.000
150	1.165	0.905	0.108	0.374	0.691	0.792	0.000
151	1.165	0.959	0.107	0.374	0.691	0.792	0.000
152	1.165	0.906	0.159	0.374	0.743	0.792	0.000
153	1.165	1.012	0.160	0.374	0.744	0.792	0.000
154	1.165	1.066	0.212	0.427	0.848	0.792	0.000
155	1.165	1.066	0.266	0.375	0.903	0.792	0.000
156	1.165	1.119	0.213	0.480	0.904	0.792	0.000
157	1.165	1.119	0.213	0.427	0.956	0.792	0.000
158	1.218	1.119	0.213	0.429	0.956	0.792	0.000
159	1.112	1.120	0.213	0.533	0.956	0.792	0.000
160	1.112	1.172	0.213	0.640	0.956	0.792	0.000
161	1.112	1.173	0.213	0.588	0.956	0.792	0.000
162	1.112	1.225	0.266	0.588	1.009	0.792	0.000
163	1.112	1.226	0.267	0.693	1.061	0.844	0.000
164	1.059	1.279	0.529	0.801	1.168	0.898	0.000
165	1.059	1.279	0.640	0.854	1.277	1.002	0.000
166	1.059	1.334	0.640	0.854	1.486	1.056	0.000
167	1.059	1.438	0.743	0.908	1.540	1.056	0.000
168	1.059	1.759	0.694	0.908	1.540	1.109	0.053
169	1.059	1.705	0.745	0.908	1.540	1.213	0.053
170	1.059	1.705	0.800	0.962	1.700	1.319	0.053
171	0.953	1.705	0.905	1.015	1.700	1.267	0.053
172	0.953	1.705	0.959	1.121	1.752	1.267	0.053
173	0.901	1.705	0.909	1.121	1.753	1.267	0.053
174	0.900	1.705	1.013	1.177	1.753	1.267	0.053
175	0.900	1.705	1.066	1.335	1.753	1.267	0.053
176	0.900	1.705	1.015	1.388	1.753	1.267	0.053
177	0.900	1.705	1.014	1.335	1.753	1.267	0.053
178	0.900	1.706	1.014	1.335	1.859	1.267	0.053
179	0.900	1.758	1.014	1.335	1.807	1.267	0.053
180	0.053	0.053	0.053	0.053	0.053	0.053	0.053



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	372.62	N.A.	12.40
0-30	793.04	N.A.	26.40
0-40	1302.78	N.A.	43.40
0-60	2321.59	N.A.	77.30
0-80	2930.83	N.A.	97.60
0-90	2999.16	N.A.	99.90
10-90	2902.88	N.A.	96.70
20-40	930.16	N.A.	31.00
20-50	1462.66	N.A.	48.70
40-70	1397.93	N.A.	46.60
60-80	609.24	N.A.	20.30
70-80	230.12	N.A.	7.70
80-90	68.33	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	1.92	N.A.	0.10
90-180	2.66	N.A.	0.10
110-180	2.28	N.A.	0.10
0-180	3001.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.28
10-20	276.34
20-30	420.42
30-40	509.74
40-50	532.49
50-60	486.32
60-70	379.12
70-80	230.12
80-90	68.33
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

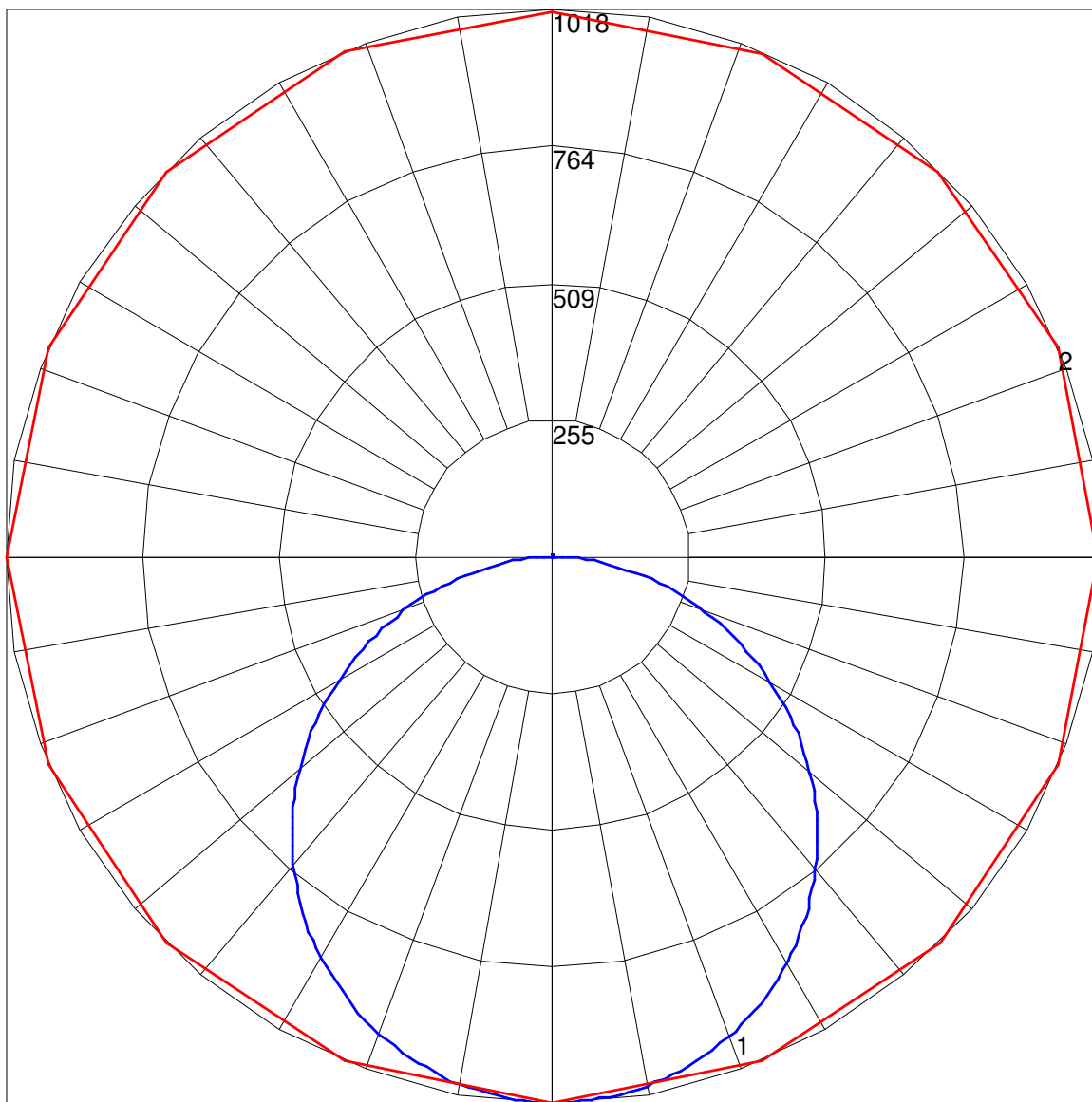
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_3500K.IES**

**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	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
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 = 1018.195 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.)