



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_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\_25W\_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	3123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	3837	3803	3807
55	3741	3699	3694
65	3597	3540	3524
75	3353	3301	3263
85	2884	2786	2812

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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	1058.035	1058.035	1058.035	1058.035	1058.035	1058.035	1058.035	1058.035	1058.035	1058.035
1	1057.902	1057.835	1057.236	1056.903	1057.569	1058.302	1058.169	1058.435	1057.902	1057.902
2	1057.702	1057.436	1056.836	1056.370	1056.836	1057.369	1057.103	1057.369	1057.369	1057.169
3	1057.036	1056.769	1056.569	1056.103	1056.436	1056.236	1055.837	1056.370	1056.436	1055.770
4	1056.036	1054.637	1054.770	1054.371	1054.704	1054.237	1054.371	1055.104	1055.837	1055.037
5	1053.904	1054.304	1053.305	1053.704	1053.305	1053.305	1051.772	1053.171	1053.371	1053.305
6	1052.305	1050.773	1051.439	1050.240	1050.972	1050.573	1050.173	1050.906	1051.106	1050.506
7	1050.639	1049.640	1049.240	1048.241	1048.640	1048.374	1047.441	1048.574	1049.307	1049.240
8	1046.841	1046.308	1045.709	1046.175	1046.508	1045.709	1044.309	1046.042	1046.908	1046.442
9	1044.842	1043.710	1043.710	1042.111	1043.443	1042.244	1041.378	1042.644	1043.510	1043.177
10	1040.978	1039.978	1040.178	1038.779	1039.845	1038.846	1037.780	1038.979	1040.178	1040.178
11	1036.847	1037.246	1035.514	1035.381	1035.781	1035.514	1034.181	1035.048	1036.180	1035.714
12	1033.915	1032.649	1032.316	1030.783	1031.316	1030.917	1029.651	1030.917	1032.249	1032.582
13	1028.984	1027.785	1027.851	1026.452	1027.585	1025.319	1025.253	1026.652	1028.318	1027.518
14	1024.653	1024.253	1022.254	1021.855	1021.921	1020.722	1020.455	1021.721	1022.921	1023.187
15	1019.589	1018.790	1017.324	1016.058	1017.324	1015.858	1015.058	1016.591	1017.590	1017.790
16	1014.192	1013.459	1012.127	1011.460	1011.260	1010.194	1009.728	1010.527	1012.460	1012.127
17	1008.195	1007.929	1006.263	1004.597	1005.730	1004.064	1003.998	1005.463	1006.796	1006.196
18	1002.465	1001.532	1000.200	998.334	999.600	998.401	997.534	998.401	1000.599	1000.399
19	996.135	994.736	993.670	992.737	992.937	990.605	990.471	992.204	993.870	993.936
20	989.872	988.539	986.407	985.807	986.207	984.741	984.608	985.141	987.273	987.007
21	982.809	980.543	979.677	979.211	979.277	976.812	977.545	978.011	980.010	979.477
22	975.546	974.347	971.681	970.882	972.015	969.949	969.483	970.549	972.414	972.881
23	967.217	965.751	963.619	963.153	963.819	961.554	962.353	962.353	964.419	964.352
24	960.221	957.556	955.090	955.157	955.423	953.691	953.758	954.624	956.023	956.223
25	950.826	949.826	946.562	946.562	947.361	945.029	945.695	946.095	948.094	947.894
26	942.830	941.498	938.366	937.366	938.499	936.367	936.967	937.566	938.566	939.165
27	933.435	931.503	928.371	928.971	928.838	927.372	927.705	928.371	930.237	930.304
28	924.906	922.574	919.509	919.309	920.109	918.177	918.377	918.643	919.576	920.376
29	915.178	912.780	909.715	909.448	910.248	908.315	908.715	909.315	911.047	911.047
30	905.050	902.852	899.320	899.520	900.519	898.121	898.787	898.387	900.186	901.519
31	894.922	892.590	888.859	889.992	889.792	888.459	888.459	888.459	890.525	890.058
32	884.595	881.929	878.931	877.865	879.664	877.265	877.732	877.665	879.531	879.664
33	873.534	871.735	867.470	868.203	868.603	866.671	867.470	866.404	868.403	869.936
34	862.673	860.674	856.010	856.343	857.342	855.144	855.344	855.610	857.609	857.676
35	851.546	848.680	844.882	844.749	845.882	843.750	843.683	843.550	846.215	846.348
36	839.818	837.420	833.222	833.289	834.355	831.889	831.889	832.556	833.888	834.555
37	828.225	825.026	820.495	821.228	821.495	820.096	819.829	819.629	822.295	822.694
38	816.031	812.633	808.835	808.369	810.034	807.769	808.035	807.369	809.435	810.034
39	803.371	800.173	796.642	796.908	797.308	795.376	794.376	794.909	797.108	797.841
40	790.511	787.380	783.848	783.915	783.715	781.916	781.583	781.583	784.048	785.248
41	776.785	774.986	770.256	770.389	770.855	769.190	768.257	768.856	771.255	771.855
42	764.059	760.861	756.996	757.263	757.596	756.263	755.130	754.997	757.396	758.662
43	750.599	747.801	744.403	744.269	744.536	742.337	741.404	741.937	744.136	744.803
44	737.073	733.808	730.344	730.144	729.611	728.611	727.878	727.745	730.743	731.343
45	722.281	719.483	715.818	715.818	716.684	714.285	713.619	713.819	716.151	716.751
46	708.622	704.557	701.559	701.959	701.626	700.093	699.293	699.227	701.626	702.758
47	693.630	690.565	687.566	687.233	687.300	685.368	685.101	684.901	687.700	688.033
48	678.971	675.973	672.108	672.175	672.574	671.175	670.376	669.776	672.708	674.107
49	664.266	660.654	657.576	658.102	657.749	655.943	655.210	655.064	657.476	658.249
50	649.313	645.609	642.844	643.130	642.231	640.798	639.805	639.919	642.550	642.997
51	634.215	630.457	626.772	627.419	627.412	625.520	624.767	624.393	626.932	627.792
52	618.110	615.405	611.953	612.227	611.674	609.022	609.175	608.349	611.440	612.027
53	602.798	599.407	596.415	596.362	595.969	593.816	593.123	593.497	595.775	596.515

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**CANDELA TABULATION - (Cont.)**

54	586.607	583.755	580.643	580.923	579.957	578.032	577.412	577.245	579.797	580.530
55	571.228	567.944	564.772	564.565	564.059	561.407	561.021	561.347	563.892	564.405
56	554.891	551.839	548.094	548.347	547.321	545.635	544.769	544.829	547.388	547.774
57	538.832	535.568	532.549	532.576	531.410	529.198	527.798	528.451	531.137	531.403
58	522.621	519.156	515.791	516.245	514.772	512.553	511.467	512.047	514.705	514.965
59	506.190	502.512	499.413	499.180	498.241	495.835	494.336	495.456	497.808	498.114
60	489.332	485.981	483.082	482.902	481.810	478.898	477.645	478.771	481.383	482.129
61	472.568	468.976	466.411	466.058	464.585	462.487	460.661	461.940	464.525	464.985
62	455.917	452.092	449.873	449.087	447.734	445.316	443.570	444.623	448.048	448.434
63	438.872	434.608	432.476	432.463	430.777	428.571	426.592	428.005	430.170	430.930
64	421.548	417.844	415.138	415.545	413.733	411.434	409.481	410.688	413.479	414.019
65	404.651	400.873	398.327	398.274	396.508	394.383	392.431	393.750	396.728	396.708
66	387.147	383.442	380.977	380.797	379.304	377.419	375.226	376.379	379.198	379.244
67	370.229	366.031	363.932	363.573	362.347	360.241	358.302	359.335	362.347	362.260
68	352.818	349.134	346.508	346.468	344.649	342.777	340.705	342.391	344.929	344.989
69	335.314	331.850	329.364	329.244	327.638	325.733	323.414	324.773	327.652	327.605
70	317.770	314.719	312.247	311.874	310.248	308.449	306.390	307.563	310.401	310.354
71	300.453	297.128	295.129	294.849	293.117	291.678	289.532	290.332	293.077	293.563
72	282.922	279.557	278.291	277.465	275.866	274.254	272.581	273.581	275.366	276.053
73	265.772	262.420	261.027	260.461	258.635	257.243	255.604	256.043	258.276	258.362
74	248.607	245.136	244.463	243.317	241.971	240.425	238.753	239.032	241.271	241.518
75	231.010	228.365	227.439	226.359	224.827	223.667	222.022	221.748	224.180	224.134
76	214.512	211.334	210.554	209.402	208.395	207.283	205.444	205.044	207.169	207.436
77	197.028	194.696	193.490	192.504	192.058	190.851	189.279	188.306	189.899	190.498
78	180.377	177.965	177.199	175.760	175.326	174.327	172.601	171.635	173.168	173.721
79	163.979	161.387	160.408	159.542	159.262	158.169	156.357	155.157	156.656	157.083
80	147.248	145.003	143.937	143.117	142.764	141.864	139.912	138.719	140.278	140.692
81	130.890	128.698	127.465	126.886	127.106	126.033	123.881	122.728	124.154	124.600
82	114.372	112.547	111.267	110.854	111.114	110.221	107.822	106.477	107.969	108.316
83	98.261	96.608	95.749	95.036	95.749	94.536	91.884	90.698	91.984	92.437
84	82.249	80.784	80.310	79.251	80.364	79.044	76.413	75.207	76.346	76.679
85	66.904	65.444	64.646	64.220	65.241	63.691	61.082	59.644	60.526	60.960
86	51.590	50.516	49.711	49.298	50.303	48.701	46.113	44.745	45.434	45.866
87	36.444	35.459	34.791	34.453	35.464	33.885	31.009	30.022	30.431	31.298
88	21.898	21.213	20.254	19.287	19.073	17.480	16.584	15.902	16.162	16.914
89	8.458	7.727	5.223	1.702	1.043	0.873	1.385	3.039	3.638	3.736
90	0.933	0.664	0.303	0.189	0.000	0.000	0.000	0.220	0.329	0.054
91	0.767	0.440	0.110	0.002	0.000	0.000	0.000	0.220	0.329	0.000
92	0.659	0.439	0.055	0.000	0.000	0.000	0.000	0.220	0.329	0.000
93	0.713	0.385	0.055	0.000	0.000	0.000	0.000	0.220	0.384	0.000
94	0.658	0.384	0.000	0.000	0.000	0.000	0.000	0.274	0.384	0.000
95	0.658	0.384	0.000	0.000	0.000	0.000	0.000	0.221	0.384	0.000
96	0.658	0.384	0.000	0.000	0.000	0.000	0.000	0.329	0.439	0.055
97	0.658	0.384	0.000	0.000	0.000	0.000	0.000	0.330	0.441	0.109
98	0.658	0.384	0.000	0.000	0.000	0.000	0.000	0.330	0.604	0.056
99	0.658	0.384	0.000	0.000	0.000	0.000	0.000	0.330	0.604	0.110
100	0.713	0.384	0.000	0.000	0.000	0.000	0.000	0.384	0.711	0.110
101	0.822	0.384	0.000	0.000	0.000	0.000	0.055	0.439	0.713	0.165
102	0.768	0.384	0.000	0.000	0.000	0.000	0.111	0.494	0.822	0.275
103	0.769	0.384	0.000	0.000	0.000	0.055	0.165	0.602	0.931	0.329
104	0.823	0.384	0.000	0.000	0.000	0.000	0.222	0.604	0.878	0.275
105	0.768	0.384	0.000	0.000	0.055	0.055	0.276	0.604	0.878	0.329
106	0.876	0.384	0.000	0.000	0.000	0.056	0.331	0.604	0.878	0.438
107	0.823	0.438	0.000	0.000	0.057	0.111	0.332	0.604	0.878	0.439
108	0.823	0.495	0.000	0.000	0.112	0.056	0.387	0.604	0.878	0.439
109	0.823	0.604	0.000	0.000	0.165	0.056	0.387	0.604	0.878	0.439

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**CANDELA TABULATION - (Cont.)**

110	0.823	0.713	0.000	0.000	0.111	0.112	0.389	0.604	0.824	0.439
111	0.823	0.659	0.055	0.000	0.111	0.222	0.497	0.604	0.878	0.439
112	0.823	0.659	0.055	0.000	0.113	0.167	0.444	0.604	0.768	0.439
113	0.877	0.659	0.055	0.000	0.166	0.277	0.553	0.604	0.714	0.439
114	0.769	0.659	0.110	0.000	0.112	0.278	0.553	0.604	0.713	0.439
115	0.604	0.659	0.221	0.000	0.168	0.388	0.664	0.604	0.713	0.439
116	0.604	0.659	0.329	0.000	0.222	0.333	0.718	0.604	0.713	0.439
117	0.383	0.550	0.276	0.000	0.222	0.444	0.664	0.604	0.714	0.439
118	0.275	0.549	0.385	0.000	0.278	0.444	0.663	0.604	0.768	0.439
119	0.055	0.549	0.496	0.000	0.278	0.555	0.663	0.604	0.549	0.439
120	0.000	0.549	0.550	0.001	0.279	0.500	0.663	0.604	0.278	0.439
121	0.000	0.549	0.498	0.109	0.389	0.611	0.663	0.604	0.164	0.439
122	0.000	0.604	0.661	0.056	0.389	0.555	0.663	0.604	0.055	0.441
123	0.000	0.659	0.661	0.112	0.389	0.555	0.663	0.604	0.055	0.549
124	0.000	0.713	0.771	0.221	0.389	0.555	0.663	0.659	0.000	0.549
125	0.000	0.714	0.771	0.222	0.389	0.555	0.663	0.659	0.000	0.603
126	0.000	0.768	0.771	0.277	0.445	0.555	0.663	0.823	0.000	0.714
127	0.000	0.769	0.882	0.333	0.501	0.555	0.718	0.879	0.000	0.770
128	0.000	0.769	0.882	0.278	0.554	0.555	0.718	0.879	0.000	0.878
129	0.000	0.769	0.882	0.277	0.500	0.555	0.720	1.043	0.000	0.933
130	0.000	0.769	0.882	0.277	0.500	0.555	0.828	1.043	0.000	0.879
131	0.000	0.769	0.882	0.277	0.500	0.555	0.774	1.207	0.000	0.878
132	0.000	0.769	0.937	0.277	0.500	0.555	0.831	1.319	0.000	0.931
133	0.000	0.769	0.937	0.277	0.500	0.555	0.940	1.373	0.000	0.823
134	0.000	0.769	0.937	0.277	0.500	0.556	0.995	1.429	0.000	0.823
135	0.000	0.769	0.937	0.277	0.500	0.610	1.049	1.536	0.054	0.823
136	0.000	0.769	0.937	0.277	0.500	0.556	0.995	1.538	0.000	0.823
137	0.000	0.769	0.937	0.277	0.555	0.665	0.995	1.538	0.000	0.823
138	0.000	0.769	0.937	0.277	0.610	0.721	0.995	1.538	0.054	0.823
139	0.000	0.769	0.936	0.278	0.557	0.722	0.995	1.648	0.001	0.823
140	0.000	0.769	0.882	0.387	0.611	0.722	0.995	1.648	0.163	0.823
141	0.000	0.769	0.882	0.388	0.667	0.833	0.995	1.702	0.165	0.823
142	0.000	0.769	0.882	0.389	0.721	0.833	0.995	1.702	0.111	0.823
143	0.000	0.769	0.882	0.498	0.666	0.833	0.995	1.757	0.218	0.823
144	0.000	0.769	0.882	0.444	0.666	0.833	1.050	1.757	0.220	0.823
145	0.000	0.769	0.882	0.553	0.667	0.833	1.106	1.757	0.273	0.823
146	0.000	0.769	0.882	0.665	0.722	0.889	1.161	1.813	0.274	0.823
147	0.000	0.769	0.882	0.610	0.777	0.889	1.215	1.866	0.329	0.823
148	0.000	0.769	0.882	0.665	0.777	0.889	1.271	1.867	0.329	0.823
149	0.000	0.769	0.882	0.665	0.777	0.889	1.271	1.867	0.383	0.823
150	0.000	0.769	0.882	0.721	0.777	0.889	1.271	1.867	0.330	0.823
151	0.000	0.769	0.882	0.721	0.777	0.889	1.271	1.867	0.439	0.875
152	0.000	0.769	0.882	0.721	0.777	0.889	1.271	1.813	0.385	0.606
153	0.000	0.769	0.882	0.721	0.778	0.889	1.271	1.812	0.493	0.494
154	0.000	0.769	1.048	0.776	0.833	0.889	1.271	1.812	0.549	0.329
155	0.000	0.769	1.102	0.776	0.833	0.889	1.271	1.812	0.657	0.221
156	0.000	0.769	1.049	0.776	0.834	0.889	1.271	1.812	0.714	0.165
157	0.000	0.769	1.157	0.831	0.888	0.889	1.271	1.812	0.822	0.165
158	0.000	0.769	1.102	0.832	0.888	0.889	1.271	1.812	0.987	0.165
159	0.000	0.769	1.212	0.832	0.888	0.889	1.271	1.811	1.043	0.165
160	0.000	0.769	1.157	0.832	0.888	0.889	1.271	1.541	1.097	0.165
161	0.000	0.822	1.157	0.832	0.944	0.889	1.271	1.537	1.153	0.165
162	0.000	0.823	1.212	0.832	0.944	0.889	1.271	1.483	1.206	0.165
163	0.000	0.878	1.213	0.832	0.944	0.889	1.271	1.483	1.261	0.165
164	0.000	0.824	1.267	0.832	0.944	0.889	1.271	1.483	1.262	0.165
165	0.000	0.823	1.544	0.832	0.944	0.889	1.271	1.538	1.371	0.165

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

166	0.000	0.823	1.652	0.832	0.945	0.944	1.327	1.593	1.317	0.165
167	0.000	0.825	1.598	0.832	1.110	0.999	1.381	1.593	1.317	0.165
168	0.055	0.933	1.598	0.888	1.165	1.055	1.437	1.919	1.317	0.165
169	0.055	0.879	1.598	0.998	1.110	1.055	1.381	1.922	1.317	0.165
170	0.055	0.879	1.706	0.998	1.110	1.055	1.381	1.922	1.317	0.165
171	0.055	0.933	1.654	0.998	1.110	1.055	1.381	1.922	1.317	0.165
172	0.055	0.988	1.763	1.053	1.110	1.055	1.381	1.922	1.317	0.165
173	0.055	0.934	1.708	1.053	1.110	1.055	1.381	1.922	1.317	0.165
174	0.055	0.933	1.708	1.053	1.110	1.055	1.381	1.922	1.317	0.164
175	0.055	0.933	1.708	1.053	1.110	1.055	1.381	1.922	1.317	0.110
176	0.055	0.933	1.708	1.053	1.110	1.055	1.381	1.922	1.317	0.164
177	0.055	0.933	1.708	1.053	1.110	1.055	1.381	1.922	1.317	0.110
178	0.055	0.933	1.708	1.053	1.110	1.055	1.381	1.867	1.317	0.055
179	0.055	0.933	1.763	1.053	1.110	1.055	1.381	1.867	1.317	0.055
180	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055

**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	1058.035	1058.035	1058.035	1058.035	1058.035	1058.035	1058.035
1	1056.836	1058.568	1057.369	1059.235	1058.435	1058.702	1057.902
2	1057.569	1057.436	1057.169	1057.502	1058.369	1058.169	1057.702
3	1056.703	1057.036	1056.636	1058.102	1057.902	1057.702	1057.036
4	1055.237	1055.970	1055.437	1056.903	1057.569	1056.436	1056.036
5	1053.238	1053.438	1053.238	1054.704	1055.437	1054.904	1053.904
6	1051.506	1051.972	1051.705	1053.771	1054.038	1053.105	1052.305
7	1048.307	1049.640	1049.173	1051.239	1052.305	1050.839	1050.639
8	1046.975	1047.308	1047.175	1049.107	1049.840	1049.040	1046.841
9	1042.843	1043.710	1044.043	1046.375	1047.508	1045.375	1044.842
10	1039.912	1040.578	1040.778	1043.177	1043.910	1042.710	1040.978
11	1036.647	1037.713	1036.847	1039.312	1041.444	1039.112	1036.847
12	1032.249	1033.515	1033.515	1035.781	1036.380	1034.648	1033.915
13	1027.851	1028.584	1028.385	1031.649	1033.315	1030.050	1028.984
14	1022.987	1023.987	1024.187	1026.919	1028.584	1026.386	1024.653
15	1018.190	1018.257	1018.523	1022.188	1023.587	1020.789	1019.589
16	1012.593	1013.326	1013.926	1017.457	1018.057	1015.458	1014.192
17	1005.730	1008.062	1007.462	1011.460	1012.593	1010.194	1008.195
18	1000.200	1001.332	1001.999	1005.930	1007.063	1004.197	1002.465
19	993.736	994.603	996.068	998.467	1000.266	997.934	996.135
20	986.940	988.472	988.672	993.070	993.670	990.805	989.872
21	979.877	980.210	982.342	985.008	986.740	983.075	982.809
22	971.881	973.747	974.547	977.878	979.544	975.746	975.546
23	964.752	966.018	966.617	970.282	971.681	968.683	967.217
24	955.423	957.489	958.755	962.420	963.886	961.154	960.221
25	947.494	948.627	950.226	953.958	955.024	952.358	950.826
26	938.499	940.765	941.164	944.829	946.895	943.496	942.830
27	929.770	930.837	932.636	936.300	938.033	934.901	933.435
28	920.442	922.508	923.507	927.039	927.772	924.973	924.906
29	910.647	911.913	913.579	917.377	918.776	915.711	915.178
30	900.786	902.585	903.718	907.116	908.848	906.050	905.050
31	890.925	891.924	893.656	897.654	898.387	896.055	894.922
32	879.264	881.663	882.796	886.527	887.860	885.194	884.595
33	868.337	870.935	872.334	875.466	877.265	874.866	873.534
34	857.076	859.941	860.807	864.805	865.871	863.539	862.673
35	846.415	848.214	849.747	853.411	854.344	852.745	851.546
36	834.155	836.220	838.019	841.351	842.684	840.818	839.818

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

37	821.961	824.293	826.359	829.291	830.757	828.291	828.225
38	809.901	811.967	813.699	816.831	817.897	816.498	816.031
39	797.308	799.906	801.572	804.371	805.837	803.904	803.371
40	784.648	786.380	787.913	791.111	792.777	791.578	790.511
41	771.522	773.587	775.653	778.651	779.451	777.918	776.785
42	758.928	760.128	761.727	765.325	766.591	764.725	764.059
43	744.869	746.735	748.334	750.799	752.465	750.999	750.599
44	731.010	733.075	734.675	737.007	738.273	737.606	737.073
45	717.884	718.483	720.282	723.081	724.147	723.014	722.281
46	702.425	704.624	705.823	709.088	709.488	709.688	708.622
47	688.566	690.698	691.831	694.296	695.762	694.429	693.630
48	673.974	675.506	676.572	679.571	680.837	680.037	678.971
49	658.482	661.247	662.067	664.845	665.265	664.585	664.266
50	644.163	645.849	646.901	649.640	651.192	649.707	649.313
51	628.365	630.817	631.190	634.108	635.328	634.941	634.215
52	612.920	614.739	615.545	618.410	619.429	618.816	618.110
53	597.454	599.613	600.226	602.685	604.071	603.378	602.798
54	581.350	583.862	584.148	586.667	588.033	587.440	586.607
55	565.731	567.857	568.197	569.989	572.221	571.648	571.228
56	549.207	551.666	552.005	553.878	555.457	555.504	554.891
57	532.882	535.354	535.687	537.347	539.199	539.579	538.832
58	516.171	518.643	519.429	520.735	522.774	522.888	522.621
59	499.254	502.065	502.872	503.631	506.057	506.336	506.190
60	482.816	485.541	486.087	487.107	488.653	489.239	489.332
61	465.891	468.443	469.350	470.109	471.868	472.395	472.568
62	449.020	451.466	452.405	452.932	455.090	455.344	455.917
63	432.529	434.648	434.835	436.074	437.553	438.393	438.872
64	414.752	417.424	417.770	418.417	420.662	421.468	421.548
65	397.868	400.266	400.286	401.566	403.318	404.318	404.651
66	380.704	382.789	383.116	383.875	385.614	386.827	387.147
67	363.399	365.645	365.678	366.651	368.263	369.896	370.229
68	346.189	348.154	348.454	349.320	350.999	352.432	352.818
69	328.678	330.803	331.203	332.123	333.429	335.035	335.314
70	311.407	313.546	313.779	314.406	316.191	317.357	317.770
71	294.290	296.535	296.249	297.408	298.467	299.993	300.453
72	276.946	279.018	279.071	280.277	281.217	282.349	282.922
73	259.788	261.927	261.680	262.986	264.039	264.905	265.772
74	242.924	244.749	244.443	245.822	246.835	247.615	248.607
75	225.926	227.525	227.185	228.765	229.864	230.137	231.010
76	209.015	211.161	209.941	212.054	213.206	213.280	214.512
77	192.104	194.503	192.577	195.049	196.142	196.095	197.028
78	175.586	177.878	175.453	178.165	179.204	179.551	180.377
79	159.068	161.361	158.709	161.547	162.753	162.673	163.979
80	142.417	145.196	141.951	144.883	146.282	146.302	147.248
81	126.313	129.218	125.833	128.918	129.704	129.851	130.890
82	109.795	113.166	109.661	112.733	113.719	113.639	114.372
83	94.190	97.408	94.516	97.221	97.768	97.688	98.261
84	78.312	81.710	78.918	81.730	82.243	81.816	82.249
85	62.916	66.219	64.362	66.562	67.018	66.664	66.904
86	48.081	50.870	49.809	51.648	51.764	51.297	51.590
87	32.972	35.770	35.173	36.690	36.511	36.395	36.444
88	17.940	17.916	16.088	18.508	21.158	21.646	21.898
89	1.866	0.670	0.546	1.147	3.884	7.302	8.458
90	0.000	0.000	0.117	0.111	0.241	0.439	0.933
91	0.000	0.000	0.001	0.000	0.055	0.383	0.767
92	0.000	0.000	0.000	0.000	0.055	0.276	0.659

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

93	0.000	0.000	0.000	0.000	0.000	0.220	0.713
94	0.000	0.000	0.000	0.000	0.000	0.220	0.658
95	0.000	0.000	0.000	0.000	0.000	0.220	0.658
96	0.000	0.000	0.000	0.000	0.000	0.220	0.658
97	0.000	0.000	0.000	0.000	0.000	0.220	0.658
98	0.000	0.000	0.000	0.000	0.000	0.165	0.658
99	0.000	0.000	0.000	0.000	0.000	0.165	0.658
100	0.000	0.000	0.000	0.000	0.000	0.165	0.713
101	0.000	0.000	0.000	0.000	0.000	0.165	0.822
102	0.000	0.000	0.000	0.000	0.000	0.165	0.768
103	0.000	0.000	0.000	0.000	0.000	0.221	0.769
104	0.000	0.000	0.000	0.000	0.000	0.329	0.823
105	0.000	0.000	0.000	0.000	0.000	0.330	0.768
106	0.109	0.000	0.000	0.000	0.000	0.330	0.876
107	0.110	0.001	0.000	0.000	0.000	0.384	0.823
108	0.110	0.055	0.000	0.000	0.000	0.496	0.823
109	0.220	0.055	0.000	0.000	0.000	0.657	0.823
110	0.166	0.056	0.000	0.000	0.000	0.768	0.823
111	0.220	0.111	0.000	0.000	0.000	0.714	0.823
112	0.221	0.166	0.000	0.000	0.000	0.714	0.823
113	0.330	0.111	0.000	0.000	0.000	0.769	0.877
114	0.386	0.167	0.000	0.000	0.000	0.769	0.769
115	0.332	0.222	0.000	0.000	0.055	0.821	0.604
116	0.441	0.222	0.000	0.000	0.110	0.549	0.604
117	0.441	0.222	0.000	0.000	0.221	0.494	0.383
118	0.441	0.222	0.000	0.000	0.167	0.384	0.275
119	0.441	0.222	0.000	0.000	0.275	0.384	0.055
120	0.441	0.222	0.000	0.000	0.386	0.384	0.000
121	0.441	0.277	0.000	0.000	0.332	0.384	0.000
122	0.441	0.277	0.000	0.000	0.498	0.442	0.000
123	0.441	0.277	0.000	0.000	0.607	0.658	0.000
124	0.441	0.333	0.000	0.000	0.662	0.713	0.000
125	0.441	0.333	0.000	0.056	0.608	0.769	0.000
126	0.496	0.333	0.000	0.056	0.608	0.769	0.000
127	0.551	0.333	0.000	0.110	0.608	0.769	0.000
128	0.551	0.333	0.000	0.111	0.608	0.769	0.000
129	0.606	0.333	0.000	0.111	0.608	0.769	0.000
130	0.606	0.333	0.000	0.111	0.608	0.769	0.000
131	0.606	0.388	0.000	0.111	0.608	0.769	0.000
132	0.661	0.388	0.000	0.111	0.608	0.769	0.000
133	0.661	0.388	0.000	0.111	0.608	0.769	0.000
134	0.661	0.443	0.000	0.111	0.608	0.769	0.000
135	0.715	0.389	0.000	0.111	0.608	0.769	0.000
136	0.716	0.499	0.000	0.111	0.608	0.769	0.000
137	0.770	0.499	0.000	0.167	0.608	0.769	0.000
138	0.717	0.499	0.000	0.167	0.608	0.769	0.000
139	0.716	0.610	0.000	0.221	0.608	0.769	0.000
140	0.716	0.610	0.000	0.222	0.608	0.769	0.000
141	0.826	0.721	0.000	0.222	0.608	0.769	0.000
142	0.773	0.722	0.054	0.222	0.608	0.769	0.000
143	0.881	0.776	0.056	0.277	0.608	0.769	0.000
144	0.882	0.776	0.056	0.278	0.608	0.770	0.000
145	0.937	0.776	0.056	0.333	0.608	0.824	0.000
146	0.938	0.832	0.056	0.389	0.608	0.824	0.000
147	1.099	0.832	0.056	0.389	0.608	0.824	0.000
148	1.212	0.942	0.056	0.389	0.663	0.824	0.000

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

149	1.212	0.888	0.164	0.389	0.772	0.824	0.000
150	1.212	0.942	0.112	0.389	0.719	0.824	0.000
151	1.212	0.997	0.111	0.389	0.719	0.824	0.000
152	1.212	0.943	0.165	0.389	0.773	0.824	0.000
153	1.212	1.053	0.167	0.389	0.774	0.824	0.000
154	1.212	1.109	0.220	0.444	0.883	0.824	0.000
155	1.212	1.109	0.277	0.390	0.939	0.824	0.000
156	1.212	1.164	0.222	0.499	0.940	0.824	0.000
157	1.212	1.164	0.222	0.444	0.994	0.824	0.000
158	1.267	1.164	0.222	0.446	0.995	0.824	0.000
159	1.157	1.165	0.222	0.554	0.995	0.824	0.000
160	1.157	1.219	0.222	0.666	0.995	0.824	0.000
161	1.157	1.221	0.222	0.611	0.995	0.824	0.000
162	1.157	1.275	0.277	0.611	1.050	0.824	0.000
163	1.157	1.275	0.278	0.721	1.104	0.878	0.000
164	1.102	1.331	0.551	0.833	1.216	0.934	0.000
165	1.102	1.331	0.666	0.889	1.329	1.042	0.000
166	1.102	1.387	0.666	0.889	1.546	1.098	0.000
167	1.102	1.496	0.773	0.944	1.602	1.098	0.000
168	1.102	1.829	0.722	0.944	1.602	1.154	0.055
169	1.102	1.774	0.775	0.944	1.602	1.262	0.055
170	1.102	1.774	0.832	1.001	1.768	1.372	0.055
171	0.992	1.774	0.942	1.056	1.768	1.318	0.055
172	0.992	1.774	0.998	1.166	1.823	1.318	0.055
173	0.937	1.774	0.945	1.166	1.823	1.318	0.055
174	0.937	1.774	1.054	1.225	1.823	1.318	0.055
175	0.937	1.774	1.109	1.389	1.823	1.318	0.055
176	0.937	1.774	1.056	1.444	1.823	1.318	0.055
177	0.937	1.774	1.055	1.388	1.823	1.318	0.055
178	0.937	1.774	1.055	1.388	1.934	1.318	0.055
179	0.937	1.829	1.055	1.388	1.879	1.318	0.055
180	0.055	0.055	0.055	0.055	0.055	0.055	0.055



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	387.63	N.A.	12.40
0-30	825.00	N.A.	26.40
0-40	1355.29	N.A.	43.40
0-60	2415.17	N.A.	77.30
0-80	3048.96	N.A.	97.60
0-90	3120.05	N.A.	99.90
10-90	3019.89	N.A.	96.70
20-40	967.65	N.A.	31.00
20-50	1521.61	N.A.	48.70
40-70	1454.27	N.A.	46.60
60-80	633.80	N.A.	20.30
70-80	239.40	N.A.	7.70
80-90	71.08	N.A.	2.30
90-110	0.40	N.A.	0.00
90-120	0.74	N.A.	0.00
90-130	1.12	N.A.	0.00
90-150	2.00	N.A.	0.10
90-180	2.77	N.A.	0.10
110-180	2.37	N.A.	0.10
0-180	3122.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	100.16
10-20	287.47
20-30	437.37
30-40	530.28
40-50	553.96
50-60	505.92
60-70	394.40
70-80	239.40
80-90	71.08
90-100	0.15
100-110	0.25
110-120	0.34
120-130	0.38
130-140	0.44
140-150	0.44
150-160	0.38
160-170	0.27
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

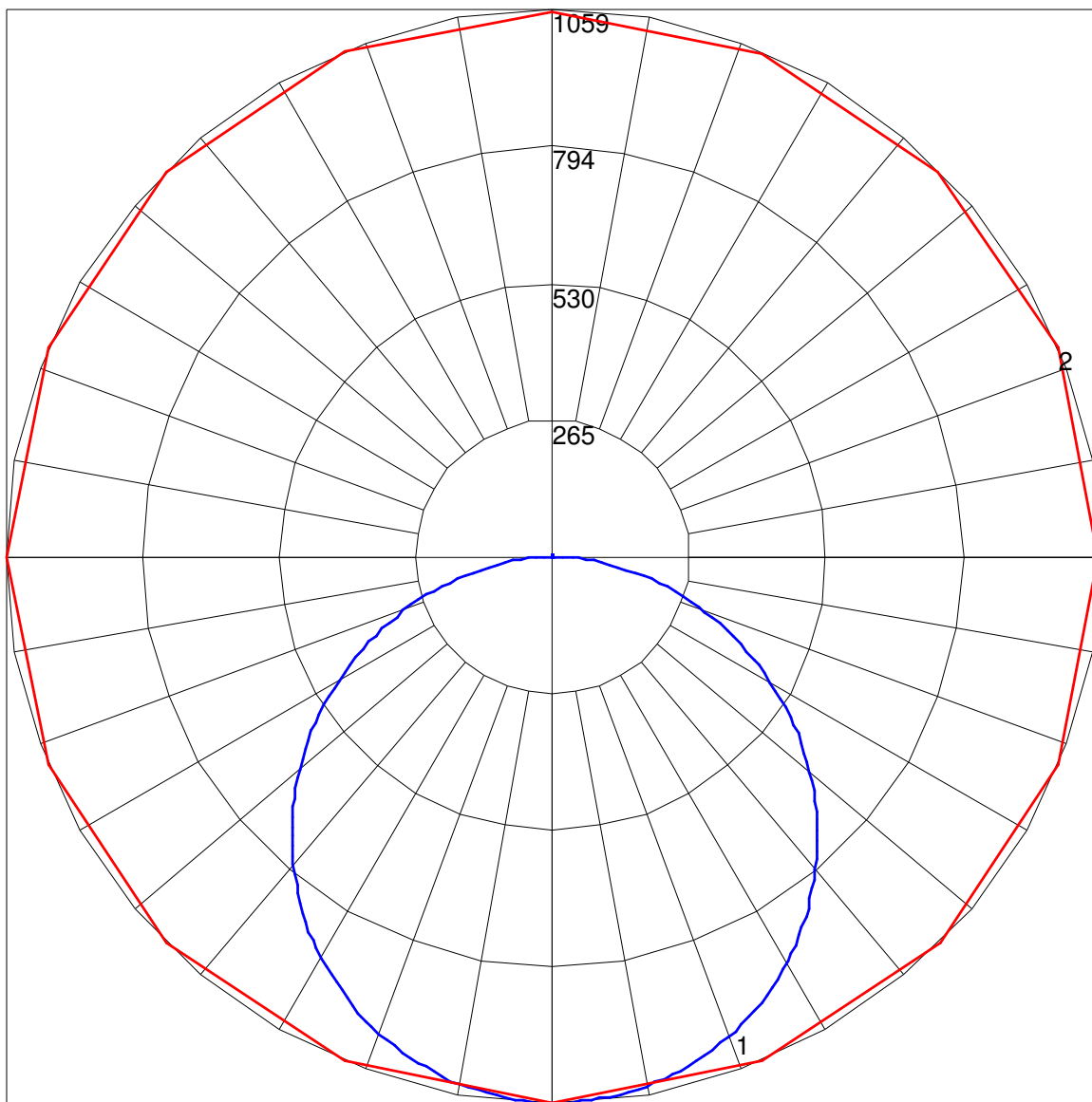
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**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	16.8	18.5	17.2	18.8	19.1	16.7	18.4	17.1	18.7	19.0
	3H	18.8	20.3	19.1	20.6	20.9	18.6	20.1	19.0	20.5	20.8
	4H	19.5	20.9	19.9	21.3	21.7	19.4	20.8	19.8	21.2	21.5
	6H	20.1	21.4	20.5	21.8	22.2	20.0	21.3	20.4	21.7	22.0
	8H	20.3	21.6	20.7	22.0	22.4	20.2	21.4	20.6	21.8	22.2
	12H	20.5	21.7	20.9	22.1	22.5	20.3	21.5	20.8	21.9	22.3
4H	2H	17.5	18.9	17.9	19.2	19.6	17.4	18.8	17.8	19.2	19.5
	3H	19.6	20.8	20.0	21.2	21.6	19.5	20.7	19.9	21.1	21.5
	4H	20.6	21.6	21.0	22.0	22.5	20.4	21.5	20.9	21.9	22.4
	6H	21.3	22.2	21.7	22.7	23.1	21.2	22.1	21.6	22.5	23.0
	8H	21.5	22.4	22.0	22.9	23.3	21.4	22.3	21.9	22.7	23.2
	12H	21.7	22.6	22.2	23.0	23.5	21.6	22.4	22.1	22.9	23.4
8H	4H	20.9	21.8	21.3	22.2	22.7	20.8	21.7	21.2	22.1	22.6
	6H	21.8	22.5	22.3	23.0	23.5	21.6	22.4	22.1	22.9	23.3
	8H	22.1	22.8	22.6	23.3	23.8	22.0	22.7	22.5	23.2	23.6
	12H	22.4	23.0	22.9	23.5	24.0	22.3	22.9	22.8	23.3	23.9
12H	4H	20.9	21.7	21.4	22.2	22.7	20.8	21.6	21.3	22.1	22.6
	6H	21.9	22.5	22.4	23.0	23.5	21.7	22.4	22.3	22.9	23.4
	8H	22.2	22.9	22.8	23.3	23.9	22.1	22.7	22.6	23.2	23.8

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1059.235 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.)