



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_25W_5000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] JBE210303-E
[TESTLAB] STANDARD-TECH TESTING SERVICES
[TESTDATE] 20 March 2021
[ISSUE DATE] 2022-02-18
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] BP-22-LS-8CS-DIM-UNV_25W_5000K
[OTHER] Input Voltage=120.1 PF=0.9935 THD=8.22

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3017
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)	0.54 m
Luminous Width (90-270)	0.54 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3363	3372	3371
55	3250	3268	3268
65	3066	3101	3108
75	2709	2816	2857
85	2003	2086	2235

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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	1037.471	1037.471	1037.471	1037.471	1037.471	1037.471	1037.471	1037.471	1037.471	1037.471
1	1036.916	1036.639	1037.263	1037.332	1037.540	1037.124	1036.847	1037.471	1036.985	1036.639
2	1036.500	1036.777	1037.055	1036.292	1036.708	1037.401	1036.847	1036.569	1036.569	1036.292
3	1035.876	1035.737	1036.431	1035.599	1036.777	1036.292	1035.529	1035.529	1036.015	1035.737
4	1034.489	1034.142	1034.628	1034.350	1035.183	1035.113	1034.905	1033.865	1033.934	1033.518
5	1033.588	1033.241	1033.102	1033.380	1033.102	1033.241	1032.478	1032.201	1032.270	1032.132
6	1031.438	1030.606	1031.230	1031.091	1031.785	1030.745	1030.883	1030.883	1030.467	1030.259
7	1028.873	1028.942	1029.219	1028.873	1030.190	1029.219	1028.942	1028.040	1028.179	1027.555
8	1026.515	1026.931	1026.238	1026.307	1026.792	1026.376	1025.614	1025.336	1025.128	1024.712
9	1023.395	1023.533	1023.533	1022.840	1024.227	1023.741	1022.285	1022.424	1022.632	1021.869
10	1019.928	1019.928	1020.413	1020.066	1020.344	1020.205	1019.304	1018.541	1018.818	1018.194
11	1016.183	1016.391	1016.669	1016.114	1017.501	1016.322	1015.559	1014.796	1014.727	1013.964
12	1012.647	1012.161	1012.924	1011.953	1013.548	1012.439	1011.745	1010.983	1011.399	1010.220
13	1008.140	1008.417	1007.932	1008.001	1008.764	1007.862	1007.446	1006.337	1006.406	1006.476
14	1003.425	1003.286	1003.217	1003.494	1004.881	1003.147	1002.523	1001.206	1002.246	1000.512
15	998.501	998.224	998.224	998.293	999.819	998.085	996.907	996.491	996.699	995.520
16	993.162	993.370	992.677	993.509	994.202	992.399	991.845	990.805	990.805	989.626
17	987.754	987.268	987.546	986.714	988.170	985.951	985.673	985.049	985.396	983.871
18	981.444	981.305	981.652	981.166	982.276	981.028	979.849	978.393	978.947	977.491
19	974.926	975.203	975.480	975.064	975.966	974.232	973.262	972.013	972.429	971.459
20	968.477	968.061	968.130	967.645	968.893	967.576	966.397	965.634	965.703	963.554
21	961.751	961.266	961.266	961.474	962.583	960.295	959.324	957.799	958.284	957.244
22	954.262	954.332	954.193	953.916	954.748	953.430	951.905	950.241	950.726	949.547
23	946.288	946.219	946.496	946.566	946.982	945.803	944.139	942.544	942.336	941.712
24	938.453	938.314	938.730	937.759	939.631	937.066	935.887	934.570	934.500	933.391
25	929.646	929.924	929.785	930.062	930.687	929.022	928.190	925.902	926.803	924.515
26	922.088	920.840	920.840	920.910	922.920	920.494	918.760	917.443	917.443	916.125
27	911.895	911.618	912.450	912.450	913.143	911.271	910.300	908.428	907.943	907.388
28	902.604	902.396	902.950	902.396	904.407	902.188	900.801	898.166	898.443	897.750
29	893.104	893.243	893.589	893.173	895.046	892.341	891.093	889.498	888.944	887.973
30	882.911	883.050	884.159	883.327	884.783	882.772	880.900	879.375	878.959	877.988
31	873.481	872.926	873.273	872.857	875.076	873.134	870.568	868.696	868.488	867.795
32	862.594	862.386	863.496	863.288	864.328	862.317	860.583	858.087	858.018	857.463
33	851.569	851.777	852.540	852.124	853.719	851.431	849.281	847.339	846.854	846.438
34	840.336	841.168	841.584	841.099	842.486	840.821	838.603	836.176	836.176	835.274
35	829.034	829.658	830.559	830.351	831.183	829.172	827.092	824.526	824.110	823.486
36	817.870	818.216	818.771	818.424	819.534	817.592	815.027	812.669	812.184	812.045
37	806.013	806.567	806.775	806.706	807.885	805.735	803.308	800.188	800.465	799.841
38	793.531	793.809	795.126	794.502	795.473	793.670	791.243	788.608	787.707	787.152
39	781.743	781.674	782.298	782.506	782.576	780.703	778.900	775.919	775.225	775.156
40	768.638	769.193	770.164	769.609	770.441	768.915	765.656	762.467	762.328	762.189
41	756.226	756.157	757.405	756.712	757.474	755.047	752.759	749.778	749.084	749.084
42	742.566	743.121	744.092	743.329	744.369	741.803	739.723	736.742	735.632	735.355
43	729.391	729.253	730.085	730.224	730.085	729.183	725.994	723.012	722.111	722.111
44	715.731	715.801	717.049	716.633	717.257	715.107	712.819	708.936	708.659	708.035
45	701.517	702.141	703.250	702.487	703.111	701.239	698.258	694.999	694.444	694.097
46	686.830	688.120	688.786	688.384	689.021	687.205	684.639	680.929	680.007	679.917
47	672.900	673.330	674.807	674.051	674.786	673.108	670.161	666.375	665.536	664.940
48	657.825	659.157	660.301	659.753	660.855	658.262	655.863	651.869	650.524	650.822
49	643.278	644.318	645.157	644.456	645.483	643.749	640.913	636.468	635.616	635.102
50	628.182	628.966	630.810	629.618	630.269	628.210	625.450	622.011	620.257	620.305
51	613.184	614.245	614.924	614.952	615.223	613.843	610.112	606.167	604.738	604.357
52	597.714	598.865	599.739	599.018	599.884	597.908	594.760	590.378	589.060	589.248
53	582.196	582.910	584.172	583.368	584.630	582.896	578.923	574.873	573.265	573.764

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54	565.949	567.322	568.716	568.078	568.764	566.726	563.307	558.766	556.817	557.115
55	549.939	551.235	552.920	552.407	552.872	550.875	547.213	543.053	540.910	541.729
56	533.685	535.467	536.473	536.119	536.757	535.134	531.494	526.488	524.123	524.962
57	517.432	519.200	520.559	519.907	521.065	518.819	515.338	509.894	507.454	508.494
58	501.109	502.676	504.250	503.370	504.604	502.558	498.745	493.294	490.625	492.012
59	484.121	485.819	487.539	487.130	487.879	486.457	482.297	476.507	473.449	474.753
60	467.590	469.261	470.842	470.620	471.840	469.525	465.447	459.748	456.565	457.931
61	450.768	452.245	454.297	453.861	454.928	453.091	448.549	442.461	439.375	440.658
62	433.904	435.790	437.441	437.392	437.995	436.324	431.540	425.244	421.978	423.448
63	416.916	418.837	420.522	420.418	421.354	419.371	414.517	407.936	404.664	406.210
64	399.546	401.876	403.838	403.519	404.511	402.313	397.404	390.920	387.627	388.750
65	382.232	384.402	386.580	386.434	387.467	385.422	380.103	373.745	370.437	371.699
66	364.717	367.136	369.279	369.550	370.493	368.357	362.955	356.215	352.811	354.350
67	347.160	349.670	352.208	352.256	353.698	351.583	345.835	339.040	335.829	337.029
68	329.422	332.335	335.143	335.247	336.530	334.422	328.666	321.809	318.605	319.853
69	311.935	314.639	317.960	318.349	319.382	317.399	311.394	304.487	301.436	302.712
70	294.489	297.373	300.833	301.797	302.664	300.521	294.329	287.652	284.205	285.668
71	276.793	279.712	283.373	284.226	285.488	283.477	277.271	270.323	267.141	268.680
72	259.021	262.127	266.080	267.293	268.666	266.489	260.283	253.730	250.145	251.650
73	241.783	244.577	249.071	250.347	251.532	249.750	243.794	236.686	233.247	234.599
74	224.247	227.124	232.068	233.899	235.168	233.206	226.799	220.246	216.640	218.124
75	206.808	210.087	215.004	217.077	218.145	216.335	210.136	203.264	199.818	201.205
76	189.812	192.766	197.731	200.213	201.531	199.894	193.695	187.177	183.717	185.187
77	172.505	175.535	180.715	183.579	184.667	183.170	177.449	170.986	167.630	169.066
78	156.085	158.900	164.233	166.708	167.568	166.174	161.140	154.899	151.647	152.944
79	139.922	142.474	147.667	149.983	151.079	149.678	145.525	139.138	135.824	137.460
80	124.161	126.671	131.220	133.591	134.791	133.300	129.777	123.578	120.687	121.949
81	108.885	111.340	114.835	117.158	118.905	116.811	113.559	108.233	105.155	106.659
82	93.790	96.196	98.824	101.251	102.783	101.050	97.638	93.291	90.364	91.723
83	79.048	81.281	83.264	85.344	87.452	85.594	81.822	78.549	76.039	77.127
84	65.014	67.194	68.163	70.103	72.357	70.415	66.909	64.482	62.238	63.181
85	51.491	53.024	53.630	54.908	57.462	55.465	51.957	50.102	48.539	48.590
86	38.737	39.519	39.993	40.813	43.229	40.918	37.908	36.255	35.533	34.971
87	26.057	26.347	26.465	26.758	28.812	26.654	23.925	22.659	22.449	21.518
88	14.278	14.349	14.023	14.012	15.274	13.440	11.758	10.814	10.859	9.871
89	3.800	3.817	3.801	3.354	4.164	2.947	2.373	1.641	1.655	1.317
90	0.113	0.171	0.227	0.228	0.000	0.051	0.044	0.013	0.035	0.021
91	0.000	0.112	0.113	0.170	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.057	0.112	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.001	0.056	0.114	0.114	0.056	0.113
106	0.000	0.000	0.000	0.000	0.061	0.057	0.228	0.115	0.114	0.114
107	0.057	0.057	0.114	0.058	0.172	0.057	0.173	0.171	0.058	0.114
108	0.058	0.058	0.115	0.114	0.229	0.168	0.283	0.228	0.224	0.226
109	0.114	0.113	0.172	0.122	0.231	0.172	0.286	0.285	0.229	0.173

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CANDELA TABULATION - (Cont.)

110	0.114	0.057	0.172	0.344	0.344	0.228	0.342	0.286	0.229	0.228
111	0.114	0.172	0.287	0.459	0.400	0.229	0.399	0.342	0.229	0.229
112	0.117	0.228	0.345	0.574	0.344	0.285	0.400	0.343	0.229	0.285
113	0.228	0.171	0.458	0.688	0.400	0.286	0.400	0.455	0.286	0.343
114	0.172	0.171	0.458	0.804	0.401	0.342	0.512	0.401	0.397	0.399
115	0.173	0.171	0.514	0.915	0.458	0.399	0.459	0.400	0.457	0.344
116	0.285	0.171	0.460	0.858	0.458	0.400	0.569	0.400	0.402	0.343
117	0.229	0.171	0.629	0.858	0.517	0.513	0.572	0.400	0.513	0.343
118	0.229	0.172	0.630	0.858	0.631	0.515	0.685	0.400	0.515	0.343
119	0.229	0.229	0.687	0.858	0.684	0.625	0.687	0.400	0.515	0.343
120	0.232	0.288	0.687	0.858	0.633	0.629	0.687	0.400	0.572	0.343
121	0.405	0.459	0.687	0.858	0.743	0.741	0.687	0.400	0.572	0.343
122	0.689	0.631	0.744	0.858	0.686	0.799	0.687	0.400	0.572	0.343
123	0.800	0.800	0.745	0.858	0.686	0.858	0.687	0.401	0.572	0.400
124	0.744	0.800	0.799	0.858	0.686	0.858	0.687	0.457	0.572	0.400
125	0.744	0.801	0.744	0.858	0.690	0.914	0.687	0.573	0.629	0.457
126	0.745	0.857	0.744	0.858	0.802	0.915	0.687	0.684	0.573	0.686
127	0.801	0.859	0.745	0.858	0.860	0.915	0.687	0.913	0.740	0.742
128	0.801	0.914	0.800	0.858	0.971	0.915	0.687	0.915	0.744	0.972
129	0.801	0.857	0.744	0.860	0.916	0.915	0.687	0.915	0.856	0.972
130	0.801	0.857	0.743	0.915	0.972	0.915	0.687	0.915	0.858	0.972
131	0.801	0.857	0.685	0.915	0.919	0.972	0.687	0.915	0.858	0.972
132	0.801	0.857	0.629	0.915	1.029	0.972	0.687	0.915	0.858	0.972
133	0.802	0.857	0.629	0.915	0.973	0.972	0.687	0.915	0.858	0.972
134	0.858	0.857	0.629	0.915	1.088	0.972	0.687	0.915	0.858	0.972
135	0.858	0.857	0.629	0.915	1.144	1.028	0.687	0.915	0.858	0.972
136	0.858	0.857	0.624	0.915	1.144	1.029	0.687	0.915	0.858	0.972
137	0.858	0.857	0.458	0.915	1.144	1.142	0.687	0.915	0.858	0.972
138	0.858	0.857	0.455	0.915	1.144	1.086	0.687	0.915	0.858	0.972
139	0.858	0.857	0.342	0.915	1.144	1.086	0.687	0.915	0.858	0.972
140	0.858	0.857	0.228	0.915	1.144	1.086	0.687	0.915	0.858	0.972
141	0.858	0.857	0.113	0.915	1.144	1.086	0.687	0.915	0.858	0.972
142	0.858	0.857	0.056	0.915	1.144	1.086	0.687	0.915	0.858	0.972
143	0.860	0.857	0.000	0.915	1.144	1.086	0.687	0.915	0.858	0.972
144	0.915	0.857	0.000	0.858	1.144	1.086	0.687	0.915	0.858	0.972
145	0.857	0.857	0.000	0.858	1.144	1.086	0.800	0.915	0.858	0.972
146	0.801	0.855	0.000	0.857	1.144	1.086	0.745	0.915	0.858	0.972
147	0.801	0.743	0.000	0.744	1.144	1.086	0.856	0.915	0.858	0.972
148	0.801	0.743	0.000	0.799	1.144	1.086	0.858	0.915	0.858	0.972
149	0.801	0.685	0.000	0.742	1.144	1.086	0.858	0.915	0.858	0.972
150	0.801	0.627	0.000	0.686	1.144	1.086	0.915	0.915	0.858	0.972
151	0.801	0.572	0.000	0.629	1.144	1.086	0.971	0.972	0.858	0.972
152	0.801	0.571	0.000	0.629	1.144	1.086	0.973	0.858	0.858	0.972
153	0.801	0.514	0.000	0.629	1.144	1.086	0.973	0.858	0.858	0.972
154	0.801	0.514	0.000	0.628	1.144	1.086	0.973	0.801	0.858	0.972
155	0.801	0.514	0.000	0.572	1.144	1.086	0.973	0.801	0.858	0.972
156	0.801	0.515	0.000	0.570	1.144	1.086	0.973	0.801	0.858	0.972
157	0.801	0.570	0.000	0.515	1.144	1.086	0.973	0.801	0.858	0.972
158	0.801	0.514	0.000	0.515	1.144	1.086	0.973	0.857	0.858	0.972
159	0.801	0.513	0.000	0.513	1.144	1.086	0.973	0.744	0.858	0.972
160	0.801	0.400	0.000	0.458	1.144	1.086	0.973	0.686	0.858	0.972
161	0.801	0.401	0.000	0.458	1.144	1.086	0.973	0.573	0.858	0.972
162	0.801	0.456	0.000	0.458	1.144	1.086	0.973	0.344	0.858	0.972
163	0.801	0.400	0.000	0.458	1.144	1.086	0.973	0.343	0.858	0.972
164	0.801	0.345	0.000	0.459	1.144	1.086	0.973	0.286	0.858	0.972
165	0.802	0.460	0.000	0.515	1.144	1.086	0.973	0.230	0.858	0.972

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_25W_5000K.IES

CANDELA TABULATION - (Cont.)

166	0.858	0.686	0.000	0.520	1.144	1.086	0.973	0.229	0.858	0.972
167	0.858	0.686	0.000	0.688	1.145	1.086	0.973	0.172	0.858	0.972
168	0.858	0.745	0.000	0.744	1.199	1.086	0.973	0.172	0.858	0.972
169	0.858	0.802	0.000	0.746	1.087	1.086	0.973	0.172	0.858	0.972
170	0.858	0.915	0.000	0.858	1.087	1.086	0.973	0.172	0.915	0.972
171	0.858	0.972	0.000	0.858	1.087	1.086	0.973	0.172	0.805	0.972
172	0.859	0.972	0.000	0.858	1.087	1.086	1.029	0.172	0.801	0.972
173	0.916	0.972	0.000	0.858	1.087	1.031	0.974	0.172	0.801	0.972
174	0.973	0.972	0.000	0.858	1.087	1.029	0.973	0.229	0.801	0.972
175	0.973	0.972	0.057	0.858	1.087	1.085	0.860	0.172	0.801	0.972
176	0.973	0.972	0.057	0.858	1.087	1.030	0.858	0.115	0.801	0.972
177	0.973	0.972	0.057	0.858	1.087	0.973	0.858	0.172	0.801	0.972
178	0.973	0.972	0.057	0.858	1.087	0.916	0.858	0.001	0.801	0.972
179	0.973	0.972	0.057	0.858	1.087	0.858	0.858	0.057	0.801	0.972
180	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973

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	1037.471	1037.471	1037.471	1037.471	1037.471	1037.471	1037.471
1	1037.540	1036.639	1036.985	1037.540	1037.956	1037.332	1036.916
2	1036.500	1036.708	1036.916	1036.916	1036.916	1036.223	1036.500
3	1035.945	1035.252	1036.084	1036.431	1036.153	1035.945	1035.876
4	1034.628	1033.726	1034.004	1034.974	1034.766	1035.044	1034.489
5	1032.686	1032.756	1032.894	1032.964	1033.033	1032.894	1033.588
6	1030.121	1030.537	1031.022	1031.091	1030.953	1031.507	1031.438
7	1028.595	1028.318	1028.456	1029.011	1029.219	1028.734	1028.873
8	1024.781	1025.822	1025.752	1026.307	1026.376	1026.376	1026.515
9	1022.563	1022.424	1022.701	1023.187	1023.117	1023.672	1023.395
10	1018.957	1019.234	1019.512	1019.581	1019.858	1019.789	1019.928
11	1015.420	1015.004	1015.698	1016.183	1016.183	1016.045	1016.183
12	1011.121	1011.121	1012.023	1012.508	1012.508	1012.370	1012.647
13	1006.753	1007.238	1006.961	1007.100	1007.793	1007.862	1008.140
14	1001.622	1002.038	1002.731	1002.870	1003.147	1003.841	1003.425
15	996.629	996.768	997.669	997.461	998.363	998.363	998.501
16	991.082	991.359	992.191	992.746	993.024	992.816	993.162
17	985.257	985.673	986.159	985.951	987.199	986.852	987.754
18	978.947	979.225	980.612	980.612	980.889	980.889	981.444
19	972.776	973.054	974.094	973.886	974.856	974.579	974.926
20	965.495	966.189	967.229	967.021	967.506	967.368	968.477
21	958.145	959.185	960.295	960.087	960.780	960.988	961.751
22	951.281	951.905	952.945	952.945	953.153	953.292	954.262
23	942.752	943.515	944.832	944.971	945.525	945.387	946.288
24	934.708	935.956	937.205	936.719	937.759	937.898	938.453
25	926.734	927.497	928.329	928.606	929.092	929.369	929.646
26	917.859	918.552	919.453	919.315	920.563	920.494	922.088
27	908.844	909.676	910.162	910.994	911.341	911.271	911.895
28	899.553	899.761	901.148	901.702	902.049	902.188	902.604
29	889.429	890.677	892.272	891.717	893.035	892.896	893.104
30	879.791	881.594	882.287	882.287	882.703	883.258	882.911
31	868.974	870.083	871.262	872.441	872.094	872.302	873.481
32	858.850	860.029	861.069	861.416	862.248	862.040	862.594
33	847.963	849.142	850.182	850.529	851.014	851.292	851.569
34	836.869	838.256	839.296	839.504	840.197	839.989	840.336
35	825.497	826.745	827.716	828.340	829.311	829.242	829.034
36	813.779	814.680	815.512	816.622	817.523	817.176	817.870

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

37	801.367	803.031	804.279	804.764	805.666	805.943	806.013
38	789.094	790.272	791.867	792.491	793.115	794.017	793.531
39	777.306	778.484	779.317	780.357	780.911	780.981	781.743
40	763.923	765.518	766.489	767.875	768.430	768.222	768.638
41	750.748	752.066	754.077	754.770	755.186	755.671	756.226
42	737.574	739.446	740.763	741.595	741.873	742.011	742.566
43	724.191	726.132	727.034	728.074	728.975	729.114	729.391
44	710.670	711.918	713.443	714.414	715.038	714.830	715.731
45	696.593	698.396	698.743	700.476	701.031	701.517	701.517
46	682.462	683.973	684.986	686.289	687.226	686.747	686.830
47	667.512	669.357	670.688	672.241	672.706	672.199	672.900
48	653.311	655.454	656.154	657.090	658.130	657.652	657.825
49	638.368	640.622	640.525	642.480	643.555	642.376	643.278
50	623.349	625.110	625.991	627.565	628.515	627.745	628.182
51	607.782	610.549	610.806	612.144	613.683	612.525	613.184
52	592.437	594.441	595.218	596.917	598.137	597.631	597.714
53	576.766	579.096	579.984	581.364	582.376	581.683	582.196
54	561.047	563.106	563.522	565.512	566.580	566.220	565.949
55	544.724	547.165	548.011	549.509	550.327	549.987	549.939
56	528.880	531.563	531.688	533.775	534.309	533.852	533.685
57	512.398	514.693	515.504	517.050	518.056	517.744	517.432
58	495.805	498.419	498.807	500.700	501.782	501.109	501.109
59	479.406	482.318	482.866	484.349	485.195	484.398	484.121
60	462.646	465.690	466.307	467.659	468.838	468.048	467.590
61	445.477	449.041	449.111	451.135	451.926	450.886	450.768
62	428.475	431.928	432.538	434.390	435.076	434.334	433.904
63	411.286	415.023	415.675	417.332	418.643	417.242	416.916
64	394.145	398.347	399.054	400.822	401.502	400.170	399.546
65	376.907	381.566	381.982	383.931	384.534	382.856	382.232
66	359.662	364.377	364.848	366.755	366.915	365.666	364.717
67	342.805	347.423	347.777	349.635	349.898	348.096	347.160
68	325.359	330.372	330.837	332.480	332.827	330.650	329.422
69	308.308	313.273	313.876	315.755	315.402	313.058	311.935
70	291.188	296.486	297.151	298.718	298.635	295.654	294.489
71	274.186	279.449	279.990	281.383	280.884	278.311	276.793
72	257.142	262.571	263.036	264.332	263.764	260.602	259.021
73	240.244	245.971	246.151	247.379	246.595	243.225	241.783
74	223.533	229.149	229.205	230.682	229.648	225.821	224.247
75	206.822	212.369	212.438	213.860	212.750	208.604	206.808
76	190.776	195.720	195.436	196.941	195.422	191.428	189.812
77	174.252	178.801	177.893	180.028	178.510	174.634	172.505
78	158.048	162.007	161.078	162.943	161.820	157.881	156.085
79	142.210	145.233	144.346	146.280	145.303	141.614	139.922
80	126.352	129.174	128.176	129.507	128.682	126.137	124.161
81	110.258	112.845	112.415	113.358	112.456	110.515	108.885
82	94.254	97.035	96.508	97.243	96.508	95.412	93.790
83	78.722	81.454	81.260	81.627	80.712	80.574	79.048
84	63.863	66.650	66.144	66.522	65.778	66.324	65.014
85	49.081	51.647	51.665	51.505	51.204	52.083	51.491
86	35.255	37.541	37.749	37.479	37.551	38.396	38.737
87	21.502	23.276	23.826	23.679	24.217	25.263	26.057
88	9.941	10.882	11.097	11.302	12.053	13.303	14.278
89	1.365	1.564	1.082	1.570	2.189	2.895	3.800
90	0.028	0.028	0.184	0.170	0.284	0.114	0.113
91	0.000	0.000	0.115	0.057	0.171	0.000	0.000
92	0.000	0.000	0.002	0.056	0.113	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

93	0.000	0.000	0.000	0.000	0.057	0.000	0.000
94	0.000	0.000	0.000	0.000	0.056	0.000	0.000
95	0.000	0.000	0.000	0.000	0.001	0.000	0.000
96	0.000	0.000	0.000	0.000	0.057	0.000	0.000
97	0.000	0.000	0.000	0.000	0.057	0.000	0.000
98	0.000	0.000	0.000	0.000	0.057	0.000	0.000
99	0.000	0.000	0.000	0.000	0.057	0.057	0.000
100	0.000	0.000	0.000	0.000	0.057	0.057	0.000
101	0.000	0.000	0.000	0.000	0.057	0.057	0.000
102	0.000	0.000	0.000	0.000	0.057	0.057	0.000
103	0.057	0.000	0.000	0.000	0.057	0.057	0.000
104	0.057	0.112	0.000	0.000	0.057	0.057	0.000
105	0.170	0.171	0.000	0.002	0.057	0.057	0.000
106	0.115	0.228	0.000	0.057	0.057	0.057	0.000
107	0.283	0.285	0.056	0.058	0.058	0.057	0.057
108	0.286	0.286	0.113	0.115	0.114	0.057	0.058
109	0.342	0.342	0.171	0.230	0.116	0.057	0.114
110	0.399	0.399	0.283	0.286	0.172	0.057	0.114
111	0.400	0.400	0.230	0.344	0.172	0.057	0.114
112	0.456	0.400	0.342	0.460	0.173	0.057	0.117
113	0.458	0.458	0.455	0.572	0.230	0.057	0.228
114	0.458	0.513	0.686	0.572	0.343	0.057	0.172
115	0.458	0.571	0.686	0.686	0.343	0.057	0.173
116	0.569	0.628	0.742	0.687	0.343	0.057	0.285
117	0.572	0.629	0.744	0.743	0.343	0.057	0.229
118	0.572	0.629	0.799	0.743	0.344	0.057	0.229
119	0.572	0.685	0.801	0.743	0.459	0.057	0.229
120	0.572	0.743	0.801	0.745	0.516	0.229	0.232
121	0.572	0.744	0.801	0.857	0.573	0.515	0.405
122	0.572	0.799	0.801	0.800	0.631	0.630	0.689
123	0.572	0.801	0.801	0.800	0.686	0.686	0.800
124	0.572	0.801	0.801	0.800	0.629	0.744	0.744
125	0.572	0.801	0.801	0.800	0.629	0.744	0.744
126	0.572	0.801	0.801	0.800	0.629	0.744	0.745
127	0.572	0.801	0.801	0.800	0.629	0.745	0.801
128	0.572	0.801	0.801	0.800	0.629	0.857	0.801
129	0.572	0.801	0.801	0.800	0.629	0.801	0.801
130	0.572	0.801	0.801	0.800	0.629	0.801	0.801
131	0.572	0.801	0.801	0.800	0.629	0.801	0.801
132	0.572	0.801	0.801	0.800	0.629	0.801	0.801
133	0.572	0.801	0.801	0.800	0.629	0.801	0.802
134	0.572	0.801	0.801	0.800	0.629	0.801	0.858
135	0.572	0.801	0.801	0.800	0.629	0.801	0.858
136	0.572	0.801	0.801	0.800	0.569	0.801	0.858
137	0.572	0.801	0.801	0.800	0.458	0.801	0.858
138	0.572	0.801	0.801	0.800	0.455	0.801	0.858
139	0.572	0.801	0.801	0.800	0.343	0.801	0.858
140	0.572	0.801	0.801	0.800	0.286	0.801	0.858
141	0.572	0.801	0.858	0.800	0.282	0.801	0.858
142	0.629	0.801	0.802	0.800	0.171	0.801	0.858
143	0.629	0.801	0.915	0.800	0.114	0.801	0.860
144	0.629	0.801	0.859	0.800	0.114	0.801	0.915
145	0.629	0.801	0.858	0.801	0.056	0.801	0.857
146	0.685	0.801	0.858	0.854	0.000	0.801	0.801
147	0.687	0.801	0.858	0.743	0.000	0.801	0.801
148	0.743	0.801	0.858	0.740	0.000	0.744	0.801

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CANDELA TABULATION - (Cont.)

149	0.744	0.801	0.858	0.630	0.000	0.686	0.801
150	0.857	0.801	0.858	0.683	0.000	0.686	0.801
151	0.914	0.801	0.858	0.571	0.000	0.629	0.801
152	0.972	0.801	0.858	0.515	0.000	0.630	0.801
153	0.973	0.801	0.915	0.515	0.000	0.685	0.801
154	0.973	0.745	0.803	0.515	0.000	0.629	0.801
155	0.973	0.687	0.744	0.516	0.000	0.572	0.801
156	0.973	0.686	0.744	0.571	0.000	0.572	0.801
157	0.973	0.518	0.744	0.513	0.000	0.572	0.801
158	0.973	0.404	0.632	0.457	0.000	0.572	0.801
159	0.973	0.344	0.629	0.456	0.000	0.572	0.801
160	0.973	0.230	0.629	0.400	0.000	0.573	0.801
161	0.973	0.229	0.629	0.400	0.000	0.629	0.801
162	0.973	0.172	0.629	0.400	0.000	0.515	0.801
163	0.973	0.172	0.629	0.400	0.000	0.515	0.801
164	0.973	0.172	0.686	0.400	0.000	0.515	0.801
165	0.973	0.172	0.686	0.401	0.000	0.515	0.802
166	0.973	0.172	0.686	0.516	0.000	0.573	0.858
167	0.973	0.172	0.742	0.573	0.000	0.629	0.858
168	0.973	0.172	0.858	0.688	0.000	0.857	0.858
169	0.973	0.172	0.858	0.744	0.000	0.801	0.858
170	0.973	0.172	0.858	0.800	0.000	0.801	0.858
171	0.973	0.172	0.858	0.800	0.000	0.801	0.858
172	0.973	0.172	0.858	0.800	0.000	0.801	0.859
173	0.973	0.116	0.858	0.800	0.000	0.801	0.916
174	0.973	0.114	0.858	0.800	0.000	0.801	0.973
175	0.973	0.114	0.858	0.800	0.000	0.801	0.973
176	0.973	0.114	0.858	0.800	0.000	0.801	0.973
177	0.973	0.114	0.858	0.800	0.000	0.801	0.973
178	0.973	0.059	0.858	0.801	0.000	0.801	0.973
179	0.973	0.057	0.858	0.859	0.000	0.801	0.973
180	0.973	0.973	0.973	0.973	0.973	0.973	0.973

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	379.75	N.A.	12.60
0-30	807.62	N.A.	26.80
0-40	1325.42	N.A.	43.90
0-60	2354.68	N.A.	78.10
0-80	2954.00	N.A.	97.90
0-90	3013.83	N.A.	99.90
10-90	2915.66	N.A.	96.70
20-40	945.66	N.A.	31.30
20-50	1485.09	N.A.	49.20
40-70	1406.35	N.A.	46.60
60-80	599.33	N.A.	19.90
70-80	222.24	N.A.	7.40
80-90	59.83	N.A.	2.00
90-110	0.10	N.A.	0.00
90-120	0.52	N.A.	0.00
90-130	1.16	N.A.	0.00
90-150	2.27	N.A.	0.10
90-180	2.85	N.A.	0.10
110-180	2.75	N.A.	0.10
0-180	3016.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.18
10-20	281.58
20-30	427.86
30-40	517.80
40-50	539.42
50-60	489.84
60-70	377.09
70-80	222.24
80-90	59.83
90-100	0.02
100-110	0.08
110-120	0.42
120-130	0.65
130-140	0.63
140-150	0.48
150-160	0.33
160-170	0.18
170-180	0.07

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

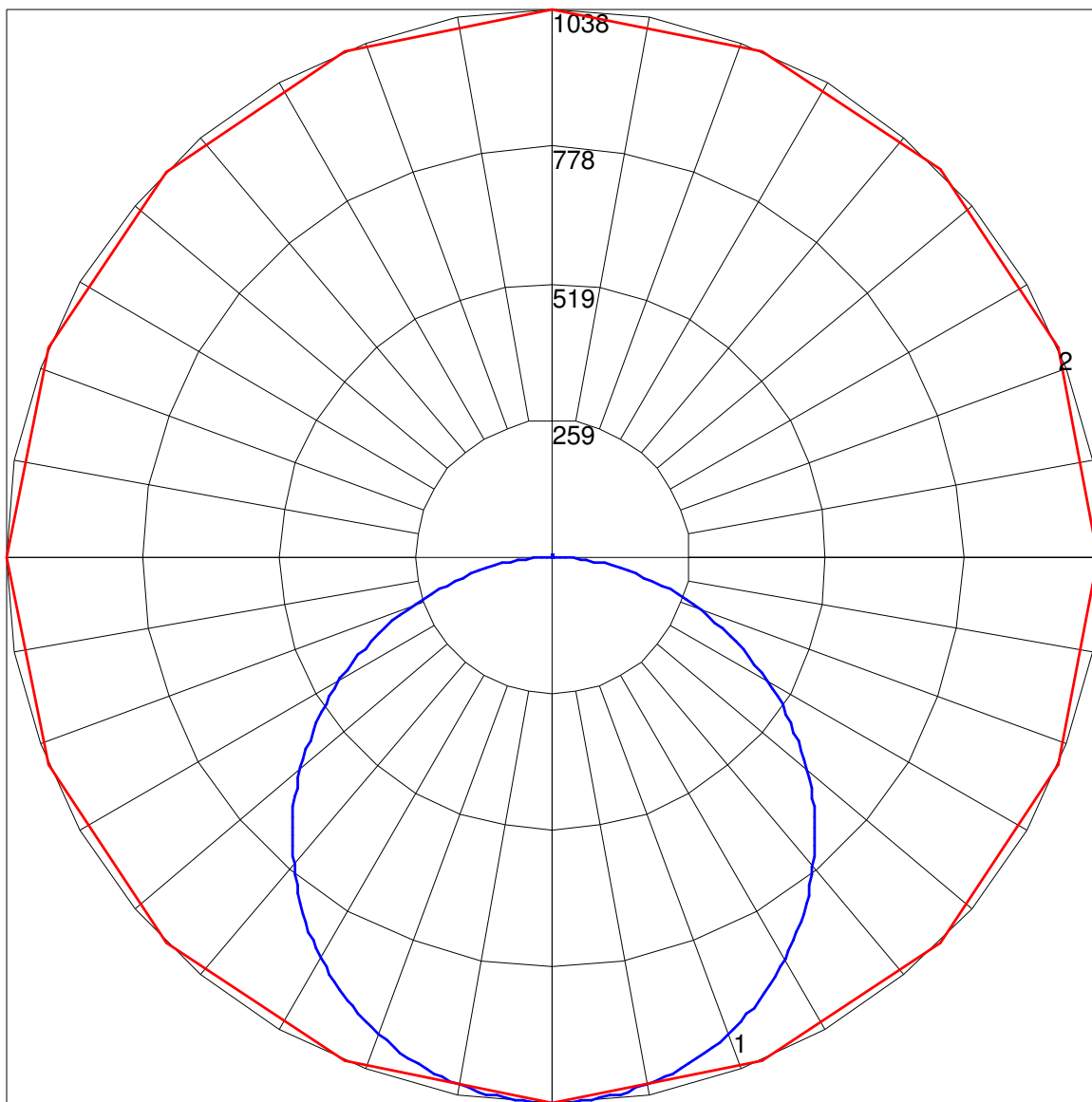
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_25W_5000K.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	16.3	17.9	16.6	18.2	18.5	16.3	17.9	16.6	18.2	18.6
	3H	18.1	19.6	18.5	19.9	20.3	18.2	19.7	18.5	20.0	20.3
	4H	18.8	20.2	19.2	20.6	20.9	18.9	20.3	19.3	20.7	21.0
	6H	19.3	20.6	19.7	21.0	21.4	19.5	20.8	19.9	21.1	21.5
	8H	19.5	20.7	19.9	21.1	21.5	19.7	20.9	20.1	21.3	21.7
	12H	19.6	20.8	20.0	21.1	21.6	19.8	21.0	20.2	21.3	21.8
4H	2H	16.9	18.3	17.3	18.7	19.0	16.9	18.3	17.3	18.7	19.1
	3H	19.0	20.2	19.4	20.6	21.0	19.0	20.2	19.4	20.6	21.0
	4H	19.8	20.9	20.2	21.3	21.7	19.9	21.0	20.3	21.4	21.8
	6H	20.4	21.4	20.9	21.8	22.3	20.6	21.6	21.1	22.0	22.4
	8H	20.7	21.5	21.1	22.0	22.4	20.9	21.7	21.3	22.2	22.6
	12H	20.8	21.6	21.3	22.1	22.5	21.0	21.8	21.5	22.3	22.8
8H	4H	20.2	21.0	20.6	21.5	21.9	20.3	21.1	20.7	21.6	22.0
	6H	20.9	21.6	21.4	22.1	22.6	21.1	21.8	21.5	22.3	22.8
	8H	21.2	21.9	21.7	22.4	22.8	21.4	22.0	21.9	22.5	23.0
	12H	21.4	22.0	21.9	22.5	23.0	21.6	22.2	22.1	22.7	23.3
12H	4H	20.2	21.0	20.7	21.5	21.9	20.3	21.1	20.8	21.5	22.0
	6H	21.0	21.7	21.5	22.1	22.7	21.1	21.8	21.7	22.3	22.8
	8H	21.3	21.9	21.8	22.4	23.0	21.5	22.1	22.0	22.6	23.1

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 1037.956 Located At Horizontal Angle = 315, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)