



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_30W\_3500K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] JBE210303-E  
[TESTLAB] STANDARD-TECH TESTING SERVICES  
[TESTDATE] 20 March 2021  
[ISSUEDATE] 2022-02-18  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] BP-22-LS-8CS-DIM-UNV\_30W\_3500K  
[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	3354
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	29
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	3739	3748	3748
55	3613	3633	3633
65	3409	3447	3455
75	3011	3131	3177
85	2227	2319	2485

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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	1153.357	1153.357	1153.357	1153.357	1153.357	1153.357	1153.357	1153.357	1153.357	1153.357
1	1152.740	1152.432	1153.125	1153.202	1153.434	1152.971	1152.663	1153.357	1152.817	1152.432
2	1152.277	1152.586	1152.894	1152.046	1152.509	1153.280	1152.663	1152.355	1152.355	1152.046
3	1151.584	1151.430	1152.200	1151.275	1152.586	1152.046	1151.198	1151.198	1151.738	1151.430
4	1150.042	1149.657	1150.196	1149.888	1150.813	1150.736	1150.504	1149.348	1149.425	1148.963
5	1149.040	1148.654	1148.500	1148.809	1148.500	1148.654	1147.806	1147.498	1147.575	1147.421
6	1146.650	1145.725	1146.419	1146.265	1147.036	1145.879	1146.034	1146.034	1145.571	1145.340
7	1143.798	1143.875	1144.183	1143.798	1145.263	1144.183	1143.875	1142.873	1143.027	1142.333
8	1141.177	1141.640	1140.869	1140.946	1141.485	1141.023	1140.175	1139.867	1139.635	1139.173
9	1137.708	1137.862	1137.862	1137.092	1138.633	1138.094	1136.475	1136.629	1136.860	1136.012
10	1133.854	1133.854	1134.394	1134.008	1134.316	1134.162	1133.160	1132.312	1132.621	1131.927
11	1129.691	1129.923	1130.231	1129.614	1131.156	1129.846	1128.998	1128.150	1128.073	1127.225
12	1125.760	1125.220	1126.068	1124.989	1126.762	1125.529	1124.758	1123.910	1124.372	1123.062
13	1120.749	1121.058	1120.518	1120.595	1121.443	1120.441	1119.979	1118.745	1118.822	1118.899
14	1115.508	1115.353	1115.276	1115.585	1117.126	1115.199	1114.505	1113.041	1114.197	1112.270
15	1110.034	1109.726	1109.726	1109.803	1111.499	1109.572	1108.262	1107.799	1108.030	1106.720
16	1104.099	1104.330	1103.559	1104.484	1105.255	1103.251	1102.634	1101.478	1101.478	1100.168
17	1098.086	1097.547	1097.855	1096.930	1098.549	1096.082	1095.774	1095.080	1095.465	1093.769
18	1091.071	1090.917	1091.303	1090.763	1091.996	1090.609	1089.298	1087.680	1088.296	1086.677
19	1083.825	1084.134	1084.442	1083.979	1084.982	1083.054	1081.975	1080.588	1081.050	1079.971
20	1076.656	1076.194	1076.271	1075.731	1077.119	1075.654	1074.344	1073.496	1073.573	1071.183
21	1069.179	1068.639	1068.639	1068.871	1070.104	1067.560	1066.481	1064.785	1065.325	1064.168
22	1060.854	1060.931	1060.777	1060.468	1061.393	1059.929	1058.233	1056.383	1056.922	1055.612
23	1051.989	1051.912	1052.220	1052.297	1052.760	1051.449	1049.599	1047.826	1047.595	1046.901
24	1043.278	1043.124	1043.587	1042.507	1044.589	1041.737	1040.426	1038.961	1038.884	1037.651
25	1033.488	1033.797	1033.643	1033.951	1034.645	1032.795	1031.870	1029.326	1030.328	1027.784
26	1025.086	1023.698	1023.698	1023.776	1026.011	1023.313	1021.386	1019.921	1019.921	1018.457
27	1013.754	1013.446	1014.371	1014.371	1015.142	1013.061	1011.981	1009.900	1009.361	1008.744
28	1003.425	1003.194	1003.810	1003.194	1005.429	1002.962	1001.421	998.491	998.800	998.029
29	992.864	993.018	993.404	992.941	995.023	992.016	990.629	988.856	988.239	987.160
30	981.533	981.687	982.920	981.995	983.614	981.378	979.297	977.601	977.139	976.059
31	971.049	970.432	970.818	970.355	972.822	970.663	967.811	965.730	965.499	964.728
32	958.946	958.715	959.949	959.717	960.874	958.638	956.711	953.936	953.859	953.242
33	946.690	946.921	947.769	947.307	949.079	946.536	944.146	941.988	941.448	940.985
34	934.202	935.127	935.589	935.050	936.592	934.742	932.275	929.577	929.577	928.575
35	921.637	922.331	923.333	923.102	924.027	921.791	919.479	916.626	916.164	915.470
36	909.226	909.612	910.228	909.843	911.076	908.918	906.066	903.445	902.905	902.751
37	896.044	896.661	896.892	896.815	898.126	895.736	893.038	889.569	889.878	889.184
38	882.169	882.477	883.942	883.248	884.327	882.323	879.625	876.696	875.694	875.077
39	869.064	868.987	869.681	869.912	869.990	867.908	865.904	862.589	861.818	861.741
40	854.495	855.112	856.191	855.574	856.500	854.804	851.181	847.635	847.480	847.326
41	840.697	840.620	842.007	841.237	842.084	839.386	836.843	833.528	832.757	832.757
42	825.511	826.128	827.207	826.359	827.515	824.663	822.351	819.036	817.802	817.494
43	810.865	810.711	811.636	811.790	811.636	810.634	807.088	803.773	802.771	802.771
44	795.679	795.756	797.144	796.681	797.375	794.985	792.441	788.124	787.816	787.122
45	779.876	780.570	781.803	780.956	781.649	779.568	776.253	772.630	772.014	771.628
46	763.550	764.983	765.723	765.276	765.985	763.966	761.114	756.990	755.964	755.864
47	748.063	748.541	750.183	749.343	750.160	748.294	745.018	740.809	739.877	739.214
48	731.305	732.785	734.057	733.448	734.673	731.790	729.123	724.683	723.187	723.519
49	715.132	716.288	717.221	716.442	717.583	715.656	712.503	707.562	706.614	706.044
50	698.350	699.222	701.272	699.946	700.671	698.381	695.313	691.490	689.540	689.594
51	681.677	682.856	683.612	683.642	683.943	682.409	678.262	673.876	672.288	671.864
52	664.479	665.759	666.730	665.928	666.892	664.695	661.195	656.323	654.859	655.067
53	647.227	648.021	649.424	648.530	649.933	648.006	643.589	639.087	637.299	637.854

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**CANDELA TABULATION - (Cont.)**

54	629.166	630.692	632.242	631.533	632.296	630.029	626.229	621.180	619.014	619.345
55	611.367	612.808	614.682	614.111	614.628	612.408	608.337	603.712	601.330	602.240
56	593.298	595.279	596.397	596.004	596.713	594.909	590.862	585.297	582.668	583.601
57	575.229	577.195	578.706	577.981	579.268	576.771	572.901	566.850	564.136	565.293
58	557.083	558.825	560.575	559.596	560.968	558.694	554.455	548.396	545.428	546.969
59	538.197	540.086	541.997	541.543	542.375	540.795	536.170	529.733	526.334	527.783
60	519.820	521.678	523.435	523.189	524.545	521.971	517.438	511.101	507.563	509.082
61	501.119	502.761	505.043	504.557	505.744	503.701	498.652	491.884	488.454	489.880
62	482.372	484.468	486.303	486.249	486.920	485.062	479.743	472.744	469.113	470.747
63	463.486	465.621	467.494	467.378	468.419	466.214	460.818	453.503	449.865	451.584
64	444.176	446.766	448.947	448.593	449.695	447.251	441.794	434.586	430.925	432.173
65	424.927	427.340	429.761	429.599	430.747	428.473	422.561	415.492	411.815	413.218
66	405.456	408.146	410.528	410.828	411.877	409.503	403.498	396.005	392.220	393.931
67	385.937	388.728	391.549	391.603	393.207	390.855	384.465	376.911	373.342	374.675
68	366.219	369.456	372.578	372.694	374.120	371.777	365.379	357.755	354.194	355.581
69	346.778	349.784	353.477	353.908	355.057	352.852	346.177	338.499	335.107	336.525
70	327.383	330.590	334.436	335.508	336.471	334.090	327.206	319.782	315.951	317.578
71	307.711	310.956	315.026	315.974	317.377	315.142	308.243	300.519	296.980	298.692
72	287.954	291.407	295.801	297.150	298.676	296.256	289.357	282.072	278.087	279.760
73	268.790	271.897	276.892	278.310	279.628	277.647	271.026	263.124	259.301	260.804
74	249.295	252.494	257.991	260.026	261.436	259.255	252.132	244.847	240.839	242.489
75	229.908	233.554	239.020	241.325	242.512	240.500	233.608	225.969	222.138	223.680
76	211.014	214.298	219.818	222.577	224.042	222.223	215.331	208.085	204.239	205.873
77	191.774	195.143	200.901	204.084	205.295	203.630	197.270	190.086	186.355	187.950
78	173.520	176.650	182.578	185.330	186.285	184.736	179.140	172.202	168.586	170.028
79	155.551	158.388	164.162	166.736	167.954	166.397	161.780	154.680	150.996	152.815
80	138.030	140.820	145.877	148.513	149.847	148.190	144.274	137.382	134.168	135.571
81	121.048	123.777	127.662	130.244	132.187	129.859	126.243	120.323	116.901	118.573
82	104.266	106.941	109.863	112.561	114.264	112.337	108.544	103.711	100.458	101.969
83	87.878	90.360	92.565	94.877	97.221	95.155	90.961	87.323	84.532	85.742
84	72.276	74.699	75.777	77.934	80.439	78.281	74.383	71.684	69.190	70.238
85	57.242	58.947	59.620	61.041	63.881	61.660	57.761	55.698	53.961	54.018
86	43.064	43.933	44.461	45.372	48.058	45.489	42.142	40.305	39.503	38.877
87	28.967	29.290	29.421	29.747	32.030	29.632	26.597	25.190	24.957	23.921
88	15.873	15.951	15.589	15.577	16.980	14.942	13.071	12.022	12.072	10.973
89	4.224	4.243	4.226	3.729	4.629	3.276	2.638	1.824	1.839	1.464
90	0.125	0.190	0.252	0.253	0.000	0.057	0.049	0.015	0.039	0.024
91	0.000	0.125	0.126	0.189	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.064	0.124	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.062	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	0.063	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.002	0.063	0.126	0.127	0.063	0.126
106	0.000	0.000	0.000	0.000	0.068	0.064	0.254	0.128	0.127	0.127
107	0.064	0.064	0.127	0.065	0.192	0.064	0.192	0.190	0.065	0.127
108	0.064	0.064	0.128	0.127	0.254	0.187	0.315	0.253	0.249	0.251
109	0.127	0.126	0.191	0.135	0.256	0.191	0.318	0.317	0.254	0.192

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**CANDELA TABULATION - (Cont.)**

110	0.127	0.064	0.191	0.382	0.383	0.253	0.380	0.318	0.254	0.253
111	0.127	0.191	0.319	0.510	0.445	0.254	0.443	0.380	0.254	0.254
112	0.130	0.253	0.384	0.639	0.382	0.316	0.445	0.381	0.254	0.316
113	0.253	0.191	0.509	0.765	0.445	0.318	0.445	0.506	0.318	0.381
114	0.191	0.191	0.509	0.894	0.446	0.380	0.569	0.446	0.441	0.443
115	0.192	0.191	0.572	1.017	0.509	0.444	0.510	0.445	0.508	0.382
116	0.317	0.191	0.511	0.954	0.509	0.445	0.632	0.445	0.447	0.381
117	0.254	0.191	0.700	0.954	0.575	0.570	0.636	0.445	0.570	0.381
118	0.254	0.191	0.701	0.954	0.701	0.572	0.762	0.445	0.573	0.381
119	0.254	0.254	0.763	0.954	0.761	0.695	0.763	0.445	0.573	0.381
120	0.257	0.321	0.763	0.954	0.703	0.699	0.763	0.445	0.636	0.381
121	0.450	0.510	0.764	0.954	0.826	0.823	0.763	0.445	0.636	0.381
122	0.766	0.702	0.827	0.954	0.763	0.888	0.763	0.445	0.636	0.381
123	0.890	0.890	0.828	0.954	0.763	0.953	0.763	0.446	0.636	0.445
124	0.827	0.890	0.889	0.954	0.763	0.953	0.763	0.508	0.636	0.445
125	0.827	0.890	0.827	0.954	0.767	1.017	0.763	0.637	0.699	0.508
126	0.829	0.953	0.827	0.954	0.891	1.017	0.763	0.760	0.636	0.763
127	0.891	0.955	0.829	0.954	0.956	1.017	0.763	1.015	0.823	0.825
128	0.891	1.016	0.890	0.954	1.079	1.017	0.763	1.017	0.827	1.080
129	0.891	0.953	0.827	0.956	1.018	1.017	0.763	1.017	0.952	1.080
130	0.891	0.953	0.826	1.017	1.081	1.017	0.763	1.017	0.954	1.080
131	0.891	0.953	0.761	1.017	1.021	1.080	0.763	1.017	0.954	1.080
132	0.891	0.953	0.700	1.017	1.144	1.080	0.763	1.017	0.954	1.080
133	0.892	0.953	0.700	1.017	1.082	1.080	0.763	1.017	0.954	1.080
134	0.954	0.953	0.700	1.017	1.209	1.080	0.763	1.017	0.954	1.080
135	0.954	0.953	0.700	1.017	1.272	1.143	0.763	1.017	0.954	1.080
136	0.954	0.953	0.693	1.017	1.272	1.144	0.763	1.017	0.954	1.080
137	0.954	0.953	0.509	1.017	1.272	1.270	0.763	1.017	0.954	1.080
138	0.954	0.953	0.505	1.017	1.272	1.208	0.763	1.017	0.954	1.080
139	0.954	0.953	0.380	1.017	1.272	1.208	0.763	1.017	0.954	1.080
140	0.954	0.953	0.253	1.017	1.272	1.208	0.763	1.017	0.954	1.080
141	0.954	0.953	0.125	1.017	1.272	1.208	0.763	1.017	0.954	1.080
142	0.954	0.953	0.062	1.017	1.272	1.208	0.763	1.017	0.954	1.080
143	0.956	0.953	0.000	1.017	1.272	1.208	0.763	1.017	0.954	1.080
144	1.017	0.953	0.000	0.954	1.272	1.208	0.763	1.017	0.954	1.080
145	0.953	0.953	0.000	0.954	1.272	1.208	0.890	1.017	0.954	1.080
146	0.891	0.950	0.000	0.952	1.272	1.208	0.828	1.017	0.954	1.080
147	0.891	0.826	0.000	0.827	1.272	1.208	0.952	1.017	0.954	1.080
148	0.891	0.826	0.000	0.888	1.272	1.208	0.954	1.017	0.954	1.080
149	0.891	0.762	0.000	0.825	1.272	1.208	0.954	1.017	0.954	1.080
150	0.891	0.697	0.000	0.762	1.272	1.208	1.017	1.017	0.954	1.080
151	0.891	0.635	0.000	0.699	1.272	1.208	1.080	1.080	0.954	1.080
152	0.891	0.634	0.000	0.699	1.272	1.208	1.081	0.954	0.954	1.080
153	0.891	0.572	0.000	0.699	1.272	1.208	1.081	0.954	0.954	1.080
154	0.891	0.572	0.000	0.698	1.272	1.208	1.081	0.891	0.954	1.080
155	0.891	0.572	0.000	0.636	1.272	1.208	1.081	0.890	0.954	1.080
156	0.891	0.573	0.000	0.634	1.272	1.208	1.081	0.890	0.954	1.080
157	0.891	0.634	0.000	0.572	1.272	1.208	1.081	0.890	0.954	1.080
158	0.891	0.572	0.000	0.572	1.272	1.208	1.081	0.953	0.954	1.080
159	0.891	0.570	0.000	0.571	1.272	1.208	1.081	0.827	0.954	1.080
160	0.891	0.445	0.000	0.509	1.272	1.208	1.081	0.762	0.954	1.080
161	0.891	0.445	0.000	0.509	1.272	1.208	1.081	0.637	0.954	1.080
162	0.891	0.507	0.000	0.509	1.272	1.208	1.081	0.382	0.954	1.080
163	0.891	0.445	0.000	0.509	1.272	1.208	1.081	0.381	0.954	1.080
164	0.891	0.384	0.000	0.510	1.272	1.208	1.081	0.318	0.954	1.080
165	0.891	0.511	0.000	0.572	1.272	1.208	1.081	0.255	0.954	1.080

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_30W\_3500K.IES

## CANDELA TABULATION - (Cont.)

166	0.954	0.762	0.000	0.578	1.272	1.208	1.081	0.254	0.954	1.080
167	0.954	0.763	0.000	0.765	1.273	1.208	1.081	0.191	0.954	1.080
168	0.954	0.828	0.000	0.827	1.333	1.208	1.081	0.191	0.954	1.080
169	0.954	0.891	0.000	0.830	1.208	1.208	1.081	0.191	0.954	1.080
170	0.954	1.017	0.000	0.954	1.208	1.208	1.081	0.191	1.018	1.080
171	0.954	1.080	0.000	0.954	1.208	1.208	1.081	0.191	0.895	1.080
172	0.955	1.080	0.000	0.954	1.208	1.208	1.144	0.191	0.891	1.080
173	1.018	1.080	0.000	0.954	1.208	1.146	1.083	0.191	0.891	1.080
174	1.081	1.080	0.000	0.954	1.208	1.144	1.081	0.254	0.891	1.080
175	1.081	1.080	0.064	0.954	1.208	1.207	0.956	0.191	0.891	1.080
176	1.081	1.080	0.064	0.954	1.208	1.145	0.954	0.128	0.891	1.080
177	1.081	1.080	0.064	0.954	1.208	1.081	0.954	0.191	0.891	1.080
178	1.081	1.080	0.064	0.954	1.208	1.019	0.954	0.001	0.891	1.080
179	1.081	1.080	0.064	0.954	1.208	0.954	0.954	0.064	0.891	1.080
180	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081	1.081

## 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	1153.357	1153.357	1153.357	1153.357	1153.357	1153.357	1153.357
1	1153.434	1152.432	1152.817	1153.434	1153.896	1153.202	1152.740
2	1152.277	1152.509	1152.740	1152.740	1152.740	1151.969	1152.277
3	1151.661	1150.890	1151.815	1152.200	1151.892	1151.661	1151.584
4	1150.196	1149.194	1149.502	1150.582	1150.350	1150.659	1150.042
5	1148.038	1148.115	1148.269	1148.346	1148.423	1148.269	1149.040
6	1145.186	1145.648	1146.188	1146.265	1146.111	1146.727	1146.650
7	1143.490	1143.181	1143.336	1143.952	1144.183	1143.644	1143.798
8	1139.250	1140.406	1140.329	1140.946	1141.023	1141.023	1141.177
9	1136.783	1136.629	1136.937	1137.477	1137.400	1138.017	1137.708
10	1132.775	1133.083	1133.391	1133.469	1133.777	1133.700	1133.854
11	1128.843	1128.381	1129.152	1129.691	1129.691	1129.537	1129.691
12	1124.064	1124.064	1125.066	1125.606	1125.606	1125.452	1125.760
13	1119.208	1119.747	1119.439	1119.593	1120.364	1120.441	1120.749
14	1113.503	1113.966	1114.737	1114.891	1115.199	1115.970	1115.508
15	1107.953	1108.107	1109.109	1108.878	1109.880	1109.880	1110.034
16	1101.786	1102.095	1103.020	1103.636	1103.945	1103.713	1104.099
17	1095.311	1095.774	1096.313	1096.082	1097.470	1097.084	1098.086
18	1088.296	1088.605	1090.146	1090.146	1090.455	1090.455	1091.071
19	1081.436	1081.744	1082.900	1082.669	1083.748	1083.440	1083.825
20	1073.342	1074.113	1075.269	1075.038	1075.577	1075.423	1076.656
21	1065.171	1066.327	1067.560	1067.329	1068.100	1068.331	1069.179
22	1057.539	1058.233	1059.389	1059.389	1059.620	1059.775	1060.854
23	1048.058	1048.905	1050.370	1050.524	1051.141	1050.987	1051.989
24	1039.116	1040.503	1041.891	1041.351	1042.507	1042.662	1043.278
25	1030.251	1031.099	1032.024	1032.332	1032.872	1033.180	1033.488
26	1020.384	1021.155	1022.157	1022.003	1023.390	1023.313	1025.086
27	1010.363	1011.288	1011.827	1012.752	1013.138	1013.061	1013.754
28	1000.033	1000.264	1001.806	1002.423	1002.808	1002.962	1003.425
29	988.779	990.166	991.939	991.322	992.787	992.633	992.864
30	978.064	980.068	980.839	980.839	981.301	981.918	981.533
31	966.038	967.272	968.582	969.893	969.507	969.738	971.049
32	954.784	956.094	957.251	957.636	958.561	958.330	958.946
33	942.681	943.992	945.148	945.534	946.073	946.381	946.690
34	930.348	931.889	933.046	933.277	934.048	933.817	934.202
35	917.706	919.093	920.172	920.866	921.945	921.868	921.637
36	904.678	905.680	906.605	907.839	908.841	908.455	909.226

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

37	890.880	892.730	894.117	894.657	895.659	895.967	896.044
38	877.236	878.546	880.319	881.013	881.707	882.709	882.169
39	864.131	865.441	866.366	867.523	868.139	868.217	869.064
40	849.253	851.026	852.106	853.647	854.264	854.033	854.495
41	834.607	836.072	838.307	839.078	839.541	840.080	840.697
42	819.961	822.042	823.507	824.432	824.740	824.894	825.511
43	805.083	807.242	808.244	809.400	810.402	810.556	810.865
44	790.052	791.439	793.135	794.214	794.908	794.677	795.679
45	774.403	776.407	776.793	778.720	779.337	779.876	779.876
46	758.693	760.374	761.499	762.948	763.989	763.457	763.550
47	742.073	744.124	745.604	747.331	747.847	747.284	748.063
48	726.286	728.668	729.447	730.487	731.644	731.112	731.305
49	709.674	712.180	712.072	714.246	715.440	714.130	715.132
50	692.978	694.936	695.915	697.664	698.720	697.865	698.350
51	675.672	678.748	679.033	680.521	682.232	680.944	681.677
52	658.613	660.841	661.704	663.592	664.949	664.386	664.479
53	641.191	643.781	644.768	646.302	647.428	646.657	647.227
54	623.716	626.005	626.468	628.680	629.867	629.467	629.166
55	605.570	608.283	609.224	610.889	611.799	611.421	611.367
56	587.956	590.939	591.078	593.398	593.992	593.483	593.298
57	569.633	572.184	573.086	574.805	575.923	575.576	575.229
58	551.186	554.092	554.524	556.628	557.831	557.083	557.083
59	532.955	536.193	536.802	538.452	539.392	538.505	538.197
60	514.324	517.708	518.394	519.897	521.207	520.329	519.820
61	495.237	499.199	499.277	501.527	502.406	501.250	501.119
62	476.336	480.175	480.853	482.911	483.674	482.850	482.372
63	457.226	461.381	462.106	463.948	465.405	463.848	463.486
64	438.171	442.842	443.628	445.594	446.349	444.869	444.176
65	419.007	424.187	424.650	426.816	427.487	425.621	424.927
66	399.836	405.078	405.602	407.722	407.899	406.512	405.456
67	381.096	386.230	386.623	388.689	388.982	386.978	385.937
68	361.702	367.275	367.791	369.618	370.004	367.583	366.219
69	342.746	348.266	348.936	351.025	350.632	348.027	346.778
70	323.714	329.603	330.343	332.085	331.993	328.678	327.383
71	304.812	310.663	311.264	312.814	312.259	309.399	307.711
72	285.865	291.901	292.417	293.859	293.226	289.711	287.954
73	267.079	273.446	273.647	275.011	274.140	270.394	268.790
74	248.501	254.745	254.807	256.449	255.300	251.045	249.295
75	229.924	236.090	236.168	237.748	236.514	231.905	229.908
76	212.086	217.582	217.266	218.939	217.251	212.811	211.014
77	193.716	198.773	197.763	200.138	198.449	194.140	191.774
78	175.701	180.103	179.070	181.144	179.895	175.516	173.520
79	158.095	161.456	160.469	162.620	161.533	157.432	155.551
80	140.466	143.603	142.493	143.973	143.056	140.227	138.030
81	122.574	125.449	124.971	126.020	125.018	122.859	121.048
82	104.783	107.874	107.288	108.105	107.288	106.070	104.266
83	87.515	90.553	90.337	90.745	89.728	89.574	87.878
84	70.997	74.095	73.532	73.953	73.126	73.732	72.276
85	54.564	57.417	57.436	57.259	56.923	57.901	57.242
86	39.193	41.734	41.965	41.666	41.746	42.685	43.064
87	23.904	25.876	26.487	26.324	26.922	28.085	28.967
88	11.051	12.097	12.337	12.565	13.399	14.789	15.873
89	1.517	1.739	1.203	1.745	2.434	3.218	4.224
90	0.032	0.031	0.204	0.189	0.316	0.127	0.125
91	0.000	0.000	0.128	0.064	0.190	0.000	0.000
92	0.000	0.000	0.002	0.062	0.126	0.000	0.000

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

93	0.000	0.000	0.000	0.000	0.064	0.000	0.000
94	0.000	0.000	0.000	0.000	0.062	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	0.064	0.000	0.000
97	0.000	0.000	0.000	0.000	0.064	0.000	0.000
98	0.000	0.000	0.000	0.000	0.064	0.000	0.000
99	0.000	0.000	0.000	0.000	0.064	0.064	0.000
100	0.000	0.000	0.000	0.000	0.064	0.064	0.000
101	0.000	0.000	0.000	0.000	0.064	0.064	0.000
102	0.000	0.000	0.000	0.000	0.064	0.064	0.000
103	0.063	0.000	0.000	0.000	0.064	0.064	0.000
104	0.064	0.125	0.000	0.000	0.064	0.064	0.000
105	0.189	0.190	0.000	0.002	0.064	0.064	0.000
106	0.128	0.254	0.000	0.063	0.064	0.064	0.000
107	0.314	0.317	0.062	0.065	0.065	0.064	0.064
108	0.318	0.318	0.126	0.128	0.127	0.064	0.064
109	0.380	0.380	0.190	0.256	0.129	0.064	0.127
110	0.444	0.444	0.314	0.318	0.191	0.064	0.127
111	0.445	0.445	0.256	0.382	0.191	0.064	0.127
112	0.507	0.445	0.380	0.511	0.192	0.064	0.130
113	0.509	0.509	0.506	0.636	0.256	0.064	0.253
114	0.509	0.570	0.763	0.636	0.382	0.064	0.191
115	0.509	0.635	0.763	0.763	0.382	0.064	0.192
116	0.632	0.698	0.825	0.763	0.382	0.064	0.317
117	0.636	0.699	0.827	0.826	0.382	0.064	0.254
118	0.636	0.699	0.889	0.826	0.383	0.064	0.254
119	0.636	0.761	0.890	0.826	0.511	0.064	0.254
120	0.636	0.826	0.890	0.828	0.573	0.255	0.257
121	0.636	0.827	0.890	0.953	0.637	0.572	0.450
122	0.636	0.889	0.890	0.890	0.701	0.700	0.766
123	0.636	0.890	0.890	0.890	0.762	0.763	0.890
124	0.636	0.890	0.890	0.890	0.700	0.827	0.827
125	0.636	0.890	0.890	0.890	0.700	0.827	0.827
126	0.636	0.890	0.890	0.890	0.700	0.827	0.829
127	0.636	0.890	0.890	0.890	0.700	0.829	0.891
128	0.636	0.890	0.890	0.890	0.700	0.953	0.891
129	0.636	0.890	0.890	0.890	0.700	0.890	0.891
130	0.636	0.890	0.890	0.890	0.700	0.890	0.891
131	0.636	0.890	0.890	0.890	0.700	0.890	0.891
132	0.636	0.890	0.890	0.890	0.700	0.890	0.891
133	0.636	0.890	0.890	0.890	0.700	0.890	0.892
134	0.636	0.890	0.890	0.890	0.700	0.890	0.954
135	0.636	0.890	0.890	0.890	0.699	0.890	0.954
136	0.636	0.890	0.890	0.890	0.633	0.890	0.954
137	0.636	0.890	0.890	0.890	0.509	0.890	0.954
138	0.636	0.890	0.890	0.890	0.506	0.890	0.954
139	0.636	0.890	0.890	0.890	0.381	0.890	0.954
140	0.636	0.890	0.890	0.890	0.318	0.890	0.954
141	0.636	0.890	0.954	0.890	0.314	0.890	0.954
142	0.699	0.890	0.891	0.890	0.190	0.890	0.954
143	0.700	0.890	1.017	0.890	0.127	0.890	0.956
144	0.700	0.890	0.955	0.890	0.127	0.890	1.017
145	0.700	0.890	0.954	0.891	0.062	0.890	0.953
146	0.762	0.890	0.954	0.950	0.000	0.890	0.891
147	0.763	0.890	0.954	0.826	0.000	0.890	0.891
148	0.827	0.890	0.954	0.822	0.000	0.827	0.891

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_30W\_3500K.IES**

**CANDELA TABULATION - (Cont.)**

149	0.827	0.890	0.954	0.700	0.000	0.763	0.891
150	0.953	0.890	0.954	0.759	0.000	0.762	0.891
151	1.016	0.890	0.954	0.635	0.000	0.700	0.891
152	1.080	0.890	0.954	0.572	0.000	0.700	0.891
153	1.081	0.890	1.017	0.572	0.000	0.762	0.891
154	1.081	0.828	0.893	0.572	0.000	0.699	0.891
155	1.081	0.764	0.827	0.574	0.000	0.636	0.891
156	1.081	0.763	0.827	0.635	0.000	0.636	0.891
157	1.081	0.576	0.827	0.570	0.000	0.636	0.891
158	1.081	0.449	0.702	0.508	0.000	0.636	0.891
159	1.081	0.382	0.700	0.507	0.000	0.636	0.891
160	1.081	0.256	0.700	0.445	0.000	0.637	0.891
161	1.081	0.254	0.700	0.445	0.000	0.699	0.891
162	1.081	0.192	0.700	0.445	0.000	0.572	0.891
163	1.081	0.191	0.700	0.445	0.000	0.572	0.891
164	1.081	0.191	0.763	0.445	0.000	0.572	0.891
165	1.081	0.191	0.763	0.446	0.000	0.572	0.891
166	1.081	0.191	0.763	0.573	0.000	0.636	0.954
167	1.081	0.191	0.825	0.637	0.000	0.699	0.954
168	1.081	0.191	0.954	0.765	0.000	0.953	0.954
169	1.081	0.191	0.954	0.827	0.000	0.890	0.954
170	1.081	0.191	0.954	0.890	0.000	0.890	0.954
171	1.081	0.191	0.954	0.890	0.000	0.890	0.954
172	1.081	0.191	0.954	0.890	0.000	0.890	0.955
173	1.081	0.129	0.954	0.890	0.000	0.890	1.018
174	1.081	0.127	0.954	0.890	0.000	0.890	1.081
175	1.081	0.127	0.954	0.890	0.000	0.890	1.081
176	1.081	0.127	0.954	0.890	0.000	0.890	1.081
177	1.081	0.127	0.954	0.890	0.000	0.890	1.081
178	1.081	0.066	0.954	0.890	0.000	0.890	1.081
179	1.081	0.064	0.954	0.955	0.000	0.890	1.081
180	1.081	1.081	1.081	1.081	1.081	1.081	1.081



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_30W\_3500K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	422.17	N.A.	12.60
0-30	897.83	N.A.	26.80
0-40	1473.47	N.A.	43.90
0-60	2617.69	N.A.	78.10
0-80	3283.97	N.A.	97.90
0-90	3350.48	N.A.	99.90
10-90	3241.34	N.A.	96.70
20-40	1051.3	N.A.	31.30
20-50	1650.97	N.A.	49.20
40-70	1563.44	N.A.	46.60
60-80	666.27	N.A.	19.90
70-80	247.06	N.A.	7.40
80-90	66.51	N.A.	2.00
90-110	0.11	N.A.	0.00
90-120	0.57	N.A.	0.00
90-130	1.29	N.A.	0.00
90-150	2.53	N.A.	0.10
90-180	3.17	N.A.	0.10
110-180	3.06	N.A.	0.10
0-180	3353.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	109.14
10-20	313.03
20-30	475.66
30-40	575.64
40-50	599.67
50-60	544.55
60-70	419.21
70-80	247.06
80-90	66.51
90-100	0.02
100-110	0.09
110-120	0.46
120-130	0.72
130-140	0.70
140-150	0.53
150-160	0.36
160-170	0.20
170-180	0.08

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_30W\_3500K.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	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\_30W\_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

X=2H	Y=2H	16.7	18.3	17.0	18.6	18.9	UGR Viewed Endwise			
	3H	18.5	20.0	18.9	20.3	20.7	16.7	18.3	17.0	18.6
	4H	19.2	20.6	19.6	21.0	21.3	18.6	20.1	18.9	20.4
	6H	19.7	21.0	20.1	21.4	21.8	19.3	20.7	19.7	21.1
	8H	19.9	21.1	20.3	21.5	21.9	19.9	21.2	20.3	21.5
	12H	20.0	21.2	20.4	21.5	22.0	20.1	21.3	20.5	21.7

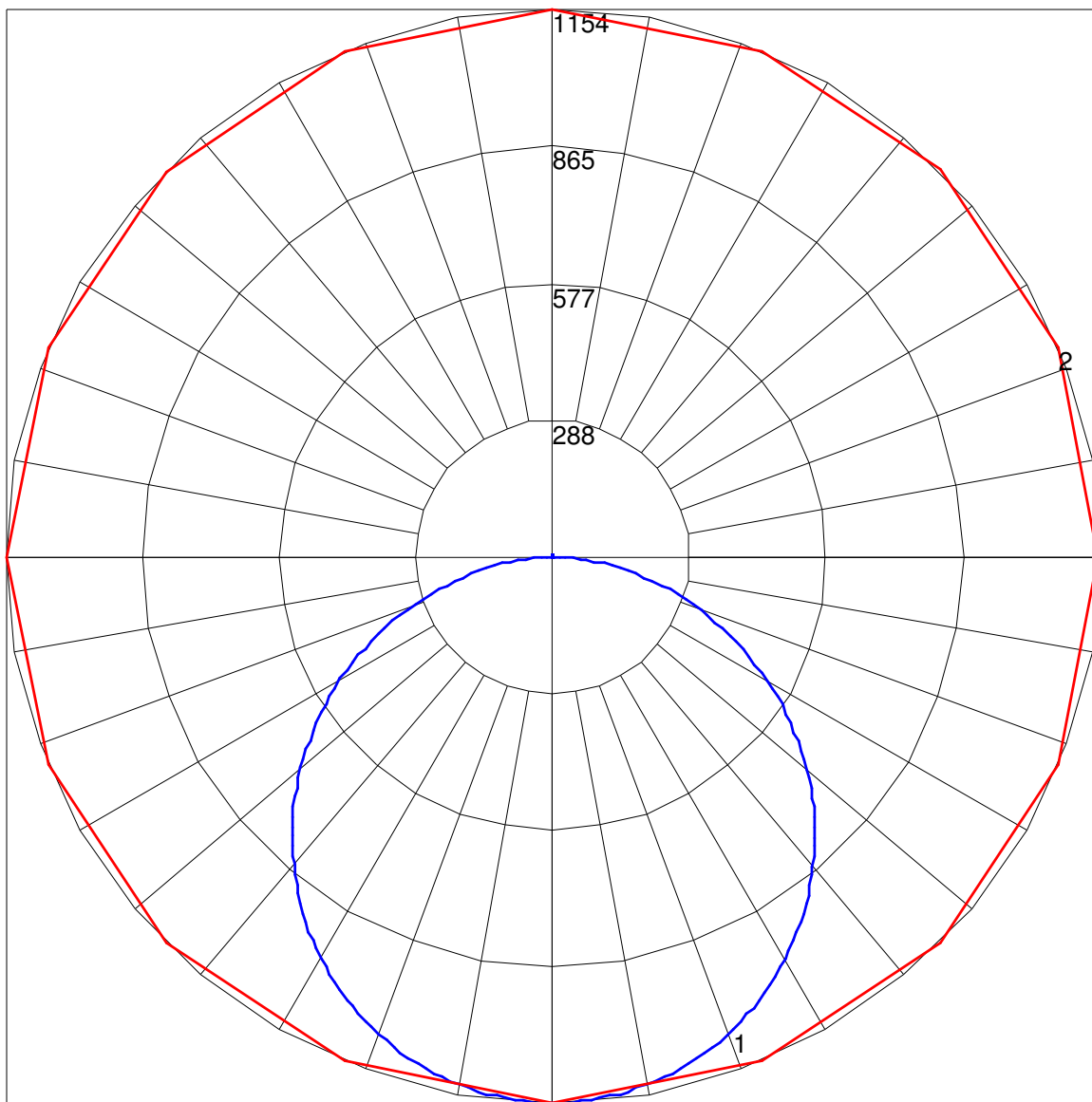
4H	2H	17.3	18.7	17.7	19.1	19.4	20.2	21.4	20.7	21.8
	3H	19.4	20.6	19.8	21.0	21.4	21.0	22.0	21.5	22.4
	4H	20.2	21.3	20.6	21.7	22.1	21.3	22.1	21.7	22.6
	6H	20.8	21.8	21.3	22.2	22.7	21.4	22.2	21.9	22.7
	8H	21.1	21.9	21.5	22.4	22.8	21.5	22.4	22.3	22.9
	12H	21.2	22.0	21.7	22.5	22.9	21.8	22.4	22.3	22.9

8H	4H	20.6	21.4	21.0	21.9	22.3	22.0	22.6	22.5	23.1
	6H	21.3	22.0	21.8	22.5	23.0	22.0	22.6	22.5	23.1
	8H	21.6	22.3	22.1	22.8	23.2	22.0	22.6	22.5	23.1
	12H	21.8	22.4	22.3	22.9	23.4	22.0	22.6	22.5	23.1

12H	4H	20.6	21.4	21.1	21.9	22.3	20.7	21.5	21.2	21.9
	6H	21.4	22.1	21.9	22.5	23.1	20.7	21.5	21.2	21.9
	8H	21.7	22.3	22.2	22.8	23.4	21.5	22.2	22.1	22.7

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1153.896 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.)