



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_30W_4000K.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_4000K
[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	3549
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	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	3956	3966	3965
55	3824	3844	3844
65	3607	3648	3656
75	3187	3313	3361
85	2356	2454	2629

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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	1220.412	1220.412	1220.412	1220.412	1220.412	1220.412	1220.412	1220.412	1220.412	1220.412
1	1219.760	1219.433	1220.167	1220.249	1220.494	1220.004	1219.678	1220.412	1219.841	1219.433
2	1219.270	1219.596	1219.923	1219.026	1219.515	1220.331	1219.678	1219.352	1219.352	1219.026
3	1218.536	1218.373	1219.189	1218.210	1219.596	1219.026	1218.128	1218.128	1218.699	1218.373
4	1216.905	1216.497	1217.068	1216.742	1217.720	1217.639	1217.394	1216.171	1216.252	1215.763
5	1215.844	1215.437	1215.273	1215.600	1215.273	1215.437	1214.539	1214.213	1214.295	1214.131
6	1213.316	1212.337	1213.071	1212.908	1213.724	1212.500	1212.663	1212.663	1212.174	1211.929
7	1210.298	1210.379	1210.706	1210.298	1211.848	1210.706	1210.379	1209.319	1209.482	1208.748
8	1207.525	1208.014	1207.198	1207.280	1207.851	1207.361	1206.464	1206.138	1205.893	1205.404
9	1203.854	1204.017	1204.017	1203.201	1204.833	1204.262	1202.549	1202.712	1202.957	1202.059
10	1199.776	1199.776	1200.347	1199.939	1200.265	1200.102	1199.041	1198.144	1198.471	1197.736
11	1195.371	1195.616	1195.942	1195.289	1196.921	1195.534	1194.637	1193.740	1193.658	1192.761
12	1191.211	1190.640	1191.537	1190.395	1192.271	1190.966	1190.151	1189.253	1189.743	1188.356
13	1185.909	1186.235	1185.664	1185.746	1186.643	1185.583	1185.093	1183.788	1183.870	1183.952
14	1180.363	1180.199	1180.118	1180.444	1182.075	1180.036	1179.302	1177.752	1178.976	1176.937
15	1174.571	1174.245	1174.245	1174.327	1176.121	1174.082	1172.695	1172.206	1172.451	1171.064
16	1168.291	1168.535	1167.720	1168.698	1169.514	1167.393	1166.741	1165.517	1165.517	1164.131
17	1161.928	1161.357	1161.684	1160.705	1162.418	1159.808	1159.481	1158.747	1159.155	1157.361
18	1154.506	1154.343	1154.750	1154.179	1155.484	1154.016	1152.630	1150.917	1151.569	1149.856
19	1146.838	1147.165	1147.491	1147.001	1148.062	1146.023	1144.881	1143.412	1143.902	1142.760
20	1139.253	1138.763	1138.845	1138.274	1139.742	1138.192	1136.806	1135.908	1135.990	1133.461
21	1131.341	1130.770	1130.770	1131.014	1132.319	1129.628	1128.486	1126.691	1127.262	1126.039
22	1122.531	1122.613	1122.450	1122.123	1123.102	1121.552	1119.758	1117.800	1118.371	1116.985
23	1113.151	1113.069	1113.396	1113.477	1113.967	1112.580	1110.622	1108.746	1108.502	1107.768
24	1103.934	1103.771	1104.260	1103.118	1105.320	1102.302	1100.916	1099.366	1099.285	1097.979
25	1093.575	1093.901	1093.738	1094.064	1094.798	1092.841	1091.862	1089.170	1090.231	1087.539
26	1084.684	1083.216	1083.216	1083.297	1085.663	1082.808	1080.769	1079.219	1079.219	1077.669
27	1072.694	1072.367	1073.346	1073.346	1074.162	1071.959	1070.817	1068.615	1068.044	1067.392
28	1061.763	1061.519	1062.171	1061.519	1063.884	1061.274	1059.643	1056.543	1056.869	1056.054
29	1050.589	1050.752	1051.160	1050.670	1052.873	1049.691	1048.223	1046.347	1045.695	1044.553
30	1038.598	1038.761	1040.067	1039.088	1040.801	1038.435	1036.233	1034.438	1033.949	1032.807
31	1027.505	1026.853	1027.260	1026.771	1029.381	1027.097	1024.079	1021.877	1021.632	1020.817
32	1014.699	1014.454	1015.759	1015.515	1016.738	1014.373	1012.334	1009.397	1009.316	1008.663
33	1001.730	1001.975	1002.872	1002.382	1004.258	1001.567	999.038	996.754	996.183	995.694
34	988.516	989.495	989.984	989.413	991.044	989.087	986.477	983.622	983.622	982.561
35	975.220	975.955	977.015	976.770	977.749	975.384	972.937	969.919	969.429	968.695
36	962.088	962.496	963.148	962.741	964.046	961.762	958.744	955.970	955.400	955.236
37	948.140	948.793	949.037	948.956	950.342	947.814	944.959	941.288	941.615	940.881
38	933.458	933.784	935.334	934.600	935.742	933.621	930.766	927.667	926.606	925.954
39	919.591	919.510	920.244	920.489	920.570	918.368	916.247	912.740	911.924	911.843
40	904.175	904.828	905.970	905.317	906.296	904.501	900.668	896.916	896.753	896.589
41	889.575	889.493	890.961	890.146	891.043	888.188	885.496	881.989	881.173	881.173
42	873.506	874.158	875.300	874.403	875.627	872.609	870.162	866.654	865.349	865.023
43	858.008	857.845	858.824	858.987	858.824	857.763	854.011	850.504	849.443	849.443
44	841.939	842.021	843.489	843.000	843.734	841.205	838.513	833.946	833.619	832.885
45	825.218	825.952	827.257	826.360	827.094	824.892	821.384	817.551	816.898	816.490
46	807.942	809.459	810.242	809.769	810.519	808.382	805.364	801.000	799.916	799.810
47	791.555	792.061	793.798	792.909	793.774	791.800	788.333	783.879	782.893	782.191
48	773.822	775.388	776.734	776.090	777.387	774.336	771.514	766.816	765.233	765.584
49	756.709	757.933	758.920	758.096	759.303	757.264	753.928	748.699	747.696	747.093
50	738.952	739.874	742.044	740.641	741.407	738.985	735.738	731.693	729.629	729.686
51	721.309	722.557	723.356	723.389	723.707	722.084	717.696	713.054	711.374	710.926
52	703.111	704.465	705.493	704.645	705.664	703.340	699.637	694.482	692.932	693.152
53	684.857	685.697	687.181	686.235	687.720	685.680	681.007	676.243	674.351	674.938

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54	665.745	667.360	669.000	668.249	669.057	666.659	662.638	657.295	655.003	655.354
55	646.911	648.437	650.419	649.815	650.362	648.013	643.706	638.812	636.291	637.254
56	627.792	629.888	631.071	630.655	631.405	629.497	625.214	619.325	616.544	617.531
57	608.673	610.753	612.351	611.585	612.947	610.304	606.209	599.806	596.935	598.159
58	589.472	591.315	593.167	592.131	593.583	591.176	586.690	580.279	577.139	578.770
59	569.488	571.486	573.509	573.028	573.909	572.236	567.342	560.532	556.934	558.468
60	550.042	552.008	553.867	553.606	555.042	552.318	547.521	540.817	537.073	538.680
61	530.254	531.991	534.405	533.892	535.148	532.986	527.644	520.482	516.852	518.361
62	510.416	512.635	514.576	514.519	515.229	513.263	507.635	500.229	496.387	498.116
63	490.432	492.692	494.674	494.552	495.653	493.320	487.610	479.869	476.019	477.838
64	470.000	472.740	475.049	474.674	475.840	473.254	467.479	459.853	455.978	457.300
65	449.632	452.185	454.747	454.575	455.791	453.385	447.128	439.649	435.758	437.242
66	429.028	431.875	434.396	434.714	435.823	433.311	426.957	419.028	415.023	416.834
67	408.376	411.328	414.314	414.371	416.067	413.580	406.818	398.824	395.047	396.459
68	387.511	390.936	394.240	394.362	395.871	393.392	386.622	378.555	374.786	376.254
69	366.939	370.120	374.028	374.484	375.700	373.367	366.303	358.179	354.590	356.091
70	346.417	349.810	353.880	355.014	356.034	353.513	346.229	338.374	334.321	336.042
71	325.601	329.035	333.342	334.345	335.829	333.464	326.164	317.991	314.247	316.058
72	304.695	308.349	312.999	314.426	316.041	313.480	306.180	298.472	294.255	296.025
73	284.418	287.705	292.990	294.491	295.886	293.790	286.783	278.422	274.377	275.967
74	263.789	267.174	272.990	275.143	276.636	274.328	266.791	259.083	254.841	256.587
75	243.275	247.133	252.916	255.355	256.611	254.482	247.190	239.107	235.053	236.684
76	223.283	226.758	232.598	235.518	237.068	235.143	227.851	220.183	216.113	217.842
77	202.923	206.488	212.581	215.950	217.230	215.469	208.739	201.137	197.189	198.878
78	183.608	186.920	193.193	196.104	197.116	195.476	189.555	182.214	178.388	179.913
79	164.595	167.597	173.706	176.430	177.719	176.071	171.186	163.673	159.774	161.699
80	146.055	149.007	154.358	157.148	158.559	156.805	152.662	145.370	141.968	143.453
81	128.085	130.973	135.084	137.816	139.872	137.409	133.583	127.319	123.697	125.467
82	110.328	113.159	116.250	119.105	120.907	118.868	114.855	109.741	106.299	107.897
83	92.987	95.613	97.946	100.393	102.873	100.687	96.250	92.400	89.447	90.727
84	76.478	79.042	80.182	82.465	85.116	82.832	78.708	75.852	73.212	74.322
85	60.570	62.374	63.087	64.590	67.595	65.245	61.119	58.937	57.098	57.158
86	45.568	46.488	47.046	48.010	50.852	48.134	44.592	42.648	41.799	41.138
87	30.651	30.993	31.132	31.477	33.892	31.355	28.143	26.655	26.407	25.312
88	16.796	16.879	16.495	16.483	17.967	15.810	13.831	12.721	12.773	11.611
89	4.469	4.490	4.472	3.946	4.898	3.466	2.792	1.931	1.946	1.549
90	0.132	0.201	0.267	0.268	0.000	0.060	0.052	0.016	0.041	0.025
91	0.000	0.132	0.133	0.200	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.067	0.132	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.066	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	0.066	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.002	0.066	0.134	0.134	0.066	0.133
106	0.000	0.000	0.000	0.000	0.071	0.067	0.269	0.135	0.134	0.134
107	0.067	0.067	0.135	0.069	0.203	0.067	0.203	0.201	0.069	0.134
108	0.068	0.068	0.135	0.135	0.269	0.198	0.333	0.268	0.264	0.266
109	0.135	0.133	0.202	0.143	0.271	0.202	0.336	0.335	0.269	0.203

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CANDELA TABULATION - (Cont.)

110	0.135	0.067	0.203	0.404	0.405	0.268	0.402	0.336	0.269	0.268
111	0.135	0.202	0.337	0.540	0.471	0.269	0.469	0.403	0.269	0.269
112	0.138	0.268	0.406	0.676	0.405	0.335	0.471	0.404	0.269	0.335
113	0.268	0.202	0.538	0.810	0.471	0.336	0.471	0.535	0.336	0.404
114	0.202	0.202	0.539	0.946	0.472	0.402	0.602	0.472	0.467	0.469
115	0.203	0.202	0.605	1.076	0.538	0.470	0.539	0.471	0.537	0.404
116	0.336	0.202	0.541	1.009	0.539	0.471	0.669	0.471	0.473	0.403
117	0.269	0.202	0.740	1.009	0.609	0.603	0.673	0.471	0.603	0.403
118	0.269	0.202	0.741	1.009	0.742	0.605	0.806	0.471	0.606	0.403
119	0.269	0.269	0.808	1.009	0.805	0.736	0.808	0.471	0.606	0.403
120	0.272	0.339	0.808	1.009	0.744	0.740	0.808	0.471	0.673	0.403
121	0.477	0.540	0.809	1.009	0.874	0.871	0.808	0.471	0.673	0.403
122	0.811	0.743	0.875	1.009	0.807	0.940	0.808	0.471	0.673	0.403
123	0.941	0.941	0.876	1.009	0.807	1.009	0.808	0.472	0.673	0.471
124	0.875	0.941	0.940	1.009	0.807	1.009	0.808	0.537	0.673	0.471
125	0.875	0.942	0.875	1.009	0.812	1.076	0.808	0.674	0.740	0.538
126	0.877	1.008	0.875	1.009	0.943	1.076	0.808	0.805	0.673	0.807
127	0.942	1.010	0.877	1.009	1.011	1.076	0.808	1.074	0.871	0.873
128	0.942	1.076	0.942	1.009	1.142	1.076	0.808	1.076	0.875	1.143
129	0.942	1.008	0.875	1.012	1.078	1.076	0.808	1.076	1.007	1.143
130	0.942	1.008	0.874	1.077	1.144	1.076	0.808	1.076	1.010	1.143
131	0.942	1.008	0.806	1.077	1.081	1.143	0.808	1.076	1.010	1.143
132	0.942	1.008	0.740	1.077	1.210	1.143	0.808	1.076	1.010	1.143
133	0.943	1.008	0.740	1.077	1.145	1.143	0.808	1.076	1.010	1.143
134	1.010	1.008	0.740	1.077	1.280	1.143	0.808	1.076	1.010	1.143
135	1.010	1.008	0.740	1.077	1.346	1.210	0.808	1.076	1.010	1.143
136	1.010	1.008	0.734	1.077	1.346	1.210	0.808	1.076	1.010	1.143
137	1.010	1.008	0.538	1.077	1.346	1.344	0.808	1.076	1.010	1.143
138	1.010	1.008	0.535	1.077	1.346	1.278	0.808	1.076	1.010	1.143
139	1.010	1.008	0.403	1.077	1.346	1.278	0.808	1.076	1.010	1.143
140	1.010	1.008	0.268	1.077	1.346	1.278	0.808	1.076	1.010	1.143
141	1.010	1.008	0.133	1.077	1.346	1.278	0.808	1.076	1.010	1.143
142	1.010	1.008	0.066	1.077	1.346	1.278	0.808	1.076	1.010	1.143
143	1.012	1.008	0.000	1.076	1.346	1.278	0.808	1.076	1.010	1.143
144	1.076	1.008	0.000	1.009	1.346	1.278	0.808	1.076	1.010	1.143
145	1.008	1.008	0.000	1.009	1.346	1.278	0.941	1.076	1.010	1.143
146	0.942	1.005	0.000	1.008	1.346	1.278	0.876	1.076	1.010	1.143
147	0.942	0.874	0.000	0.875	1.346	1.278	1.007	1.076	1.010	1.143
148	0.942	0.874	0.000	0.940	1.346	1.278	1.009	1.076	1.010	1.143
149	0.942	0.806	0.000	0.873	1.346	1.278	1.009	1.076	1.010	1.143
150	0.942	0.738	0.000	0.806	1.346	1.278	1.076	1.077	1.010	1.143
151	0.942	0.672	0.000	0.740	1.346	1.278	1.143	1.143	1.010	1.143
152	0.942	0.671	0.000	0.740	1.346	1.278	1.144	1.009	1.010	1.143
153	0.942	0.605	0.000	0.740	1.346	1.278	1.144	1.009	1.010	1.143
154	0.942	0.605	0.000	0.738	1.346	1.278	1.144	0.942	1.010	1.143
155	0.942	0.605	0.000	0.673	1.346	1.278	1.144	0.942	1.010	1.143
156	0.942	0.606	0.000	0.671	1.346	1.278	1.144	0.942	1.010	1.143
157	0.942	0.671	0.000	0.606	1.346	1.278	1.144	0.942	1.010	1.143
158	0.942	0.605	0.000	0.606	1.346	1.278	1.144	1.008	1.010	1.143
159	0.942	0.603	0.000	0.604	1.346	1.278	1.144	0.875	1.010	1.143
160	0.942	0.471	0.000	0.538	1.346	1.278	1.144	0.807	1.010	1.143
161	0.942	0.471	0.000	0.538	1.346	1.278	1.144	0.674	1.010	1.143
162	0.942	0.537	0.000	0.538	1.346	1.278	1.144	0.404	1.010	1.143
163	0.942	0.470	0.000	0.538	1.346	1.278	1.144	0.404	1.010	1.143
164	0.942	0.406	0.000	0.540	1.346	1.278	1.144	0.336	1.010	1.143
165	0.943	0.541	0.000	0.606	1.346	1.278	1.144	0.270	1.010	1.143

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

166	1.010	0.807	0.000	0.612	1.346	1.278	1.144	0.269	1.010	1.143
167	1.010	0.808	0.000	0.810	1.347	1.278	1.144	0.202	1.010	1.143
168	1.010	0.876	0.000	0.875	1.411	1.278	1.144	0.202	1.010	1.143
169	1.010	0.943	0.000	0.878	1.278	1.278	1.144	0.202	1.010	1.143
170	1.010	1.076	0.000	1.009	1.278	1.278	1.144	0.202	1.077	1.143
171	1.010	1.143	0.000	1.009	1.278	1.278	1.144	0.202	0.947	1.143
172	1.011	1.143	0.000	1.009	1.278	1.278	1.210	0.202	0.942	1.143
173	1.078	1.143	0.000	1.009	1.278	1.212	1.146	0.202	0.942	1.143
174	1.144	1.143	0.000	1.009	1.278	1.210	1.144	0.269	0.942	1.143
175	1.144	1.143	0.067	1.009	1.278	1.277	1.011	0.202	0.942	1.143
176	1.144	1.143	0.067	1.009	1.278	1.212	1.009	0.135	0.942	1.143
177	1.144	1.143	0.067	1.009	1.278	1.144	1.009	0.202	0.942	1.143
178	1.144	1.143	0.067	1.009	1.278	1.078	1.009	0.001	0.942	1.143
179	1.144	1.143	0.067	1.009	1.278	1.009	1.009	0.067	0.942	1.143
180	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144

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	1220.412	1220.412	1220.412	1220.412	1220.412	1220.412	1220.412
1	1220.494	1219.433	1219.841	1220.494	1220.983	1220.249	1219.760
2	1219.270	1219.515	1219.760	1219.760	1219.760	1218.944	1219.270
3	1218.618	1217.802	1218.781	1219.189	1218.862	1218.618	1218.536
4	1217.068	1216.008	1216.334	1217.476	1217.231	1217.557	1216.905
5	1214.784	1214.866	1215.029	1215.110	1215.192	1215.029	1215.844
6	1211.766	1212.255	1212.826	1212.908	1212.745	1213.397	1213.316
7	1209.972	1209.645	1209.808	1210.461	1210.706	1210.135	1210.298
8	1205.485	1206.709	1206.627	1207.280	1207.361	1207.361	1207.525
9	1202.875	1202.712	1203.038	1203.609	1203.528	1204.180	1203.854
10	1198.634	1198.960	1199.286	1199.368	1199.694	1199.612	1199.776
11	1194.474	1193.984	1194.800	1195.371	1195.371	1195.208	1195.371
12	1189.417	1189.417	1190.477	1191.048	1191.048	1190.885	1191.211
13	1184.278	1184.849	1184.522	1184.686	1185.501	1185.583	1185.909
14	1178.242	1178.731	1179.547	1179.710	1180.036	1180.852	1180.363
15	1172.369	1172.532	1173.592	1173.348	1174.408	1174.408	1174.571
16	1165.844	1166.170	1167.149	1167.801	1168.127	1167.883	1168.291
17	1158.992	1159.481	1160.052	1159.808	1161.276	1160.868	1161.928
18	1151.569	1151.896	1153.527	1153.527	1153.853	1153.853	1154.506
19	1144.310	1144.636	1145.860	1145.615	1146.757	1146.430	1146.838
20	1135.745	1136.561	1137.784	1137.540	1138.111	1137.947	1139.253
21	1127.099	1128.323	1129.628	1129.383	1130.199	1130.443	1131.341
22	1119.024	1119.758	1120.981	1120.981	1121.226	1121.389	1122.531
23	1108.991	1109.888	1111.438	1111.601	1112.254	1112.091	1113.151
24	1099.529	1100.997	1102.466	1101.895	1103.118	1103.281	1103.934
25	1090.149	1091.046	1092.025	1092.351	1092.922	1093.249	1093.575
26	1079.708	1080.524	1081.584	1081.421	1082.889	1082.808	1084.684
27	1069.105	1070.083	1070.654	1071.633	1072.041	1071.959	1072.694
28	1058.175	1058.419	1060.051	1060.703	1061.111	1061.274	1061.763
29	1046.266	1047.734	1049.610	1048.957	1050.507	1050.344	1050.589
30	1034.928	1037.049	1037.864	1037.864	1038.354	1039.006	1038.598
31	1022.203	1023.508	1024.895	1026.282	1025.874	1026.119	1027.505
32	1010.294	1011.681	1012.905	1013.312	1014.291	1014.047	1014.699
33	997.488	998.875	1000.098	1000.506	1001.077	1001.404	1001.730
34	984.438	986.069	987.292	987.537	988.353	988.108	988.516
35	971.060	972.529	973.671	974.405	975.547	975.465	975.220
36	957.276	958.336	959.315	960.620	961.680	961.272	962.088

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CANDELA TABULATION - (Cont.)

37	942.675	944.633	946.101	946.672	947.732	948.058	948.140
38	928.238	929.624	931.500	932.234	932.968	934.029	933.458
39	914.371	915.758	916.737	917.960	918.613	918.694	919.591
40	898.629	900.505	901.647	903.278	903.930	903.686	904.175
41	883.131	884.681	887.046	887.862	888.351	888.922	889.575
42	867.633	869.835	871.385	872.364	872.690	872.853	873.506
43	851.890	854.174	855.235	856.458	857.519	857.682	858.008
44	835.985	837.453	839.247	840.389	841.124	840.879	841.939
45	819.427	821.547	821.955	823.994	824.647	825.218	825.218
46	802.803	804.581	805.772	807.306	808.407	807.844	807.942
47	785.217	787.387	788.953	790.780	791.327	790.731	791.555
48	768.512	771.033	771.856	772.958	774.181	773.618	773.822
49	750.934	753.585	753.471	755.771	757.036	755.649	756.709
50	733.267	735.339	736.375	738.226	739.344	738.438	738.952
51	714.955	718.210	718.511	720.086	721.896	720.534	721.309
52	696.904	699.261	700.175	702.173	703.609	703.014	703.111
53	678.470	681.211	682.255	683.878	685.069	684.253	684.857
54	659.979	662.401	662.890	665.231	666.488	666.063	665.745
55	640.778	643.649	644.644	646.406	647.368	646.969	646.911
56	622.139	625.296	625.443	627.898	628.526	627.988	627.792
57	602.751	605.451	606.405	608.224	609.407	609.040	608.673
58	583.232	586.307	586.764	588.990	590.263	589.472	589.472
59	563.941	567.367	568.011	569.757	570.752	569.814	569.488
60	544.226	547.807	548.533	550.123	551.510	550.580	550.042
61	524.030	528.223	528.304	530.686	531.616	530.392	530.254
62	504.030	508.092	508.810	510.987	511.795	510.922	510.416
63	483.809	488.206	488.972	490.922	492.463	490.816	490.432
64	463.646	468.589	469.421	471.501	472.300	470.734	470.000
65	443.368	448.849	449.339	451.631	452.340	450.367	449.632
66	423.082	428.629	429.183	431.427	431.614	430.146	429.028
67	403.253	408.686	409.102	411.288	411.598	409.477	408.376
68	382.731	388.628	389.175	391.108	391.516	388.954	387.511
69	362.673	368.514	369.223	371.434	371.018	368.261	366.939
70	342.534	348.766	349.549	351.393	351.295	347.787	346.417
71	322.534	328.725	329.361	331.001	330.413	327.387	325.601
72	302.485	308.871	309.418	310.943	310.274	306.555	304.695
73	282.607	289.344	289.556	291.000	290.078	286.114	284.418
74	262.949	269.556	269.621	271.359	270.143	265.641	263.789
75	243.291	249.817	249.898	251.570	250.265	245.388	243.275
76	224.417	230.232	229.898	231.668	229.882	225.183	223.283
77	204.979	210.330	209.261	211.774	209.987	205.428	202.923
78	185.917	190.574	189.481	191.675	190.354	185.721	183.608
79	167.287	170.843	169.799	172.075	170.925	166.585	164.595
80	148.632	151.952	150.777	152.344	151.373	148.379	146.055
81	129.700	132.743	132.237	133.346	132.286	130.002	128.085
82	110.875	114.145	113.526	114.390	113.526	112.237	110.328
83	92.604	95.817	95.589	96.021	94.945	94.781	92.987
84	75.124	78.403	77.807	78.253	77.377	78.019	76.478
85	57.736	60.755	60.775	60.587	60.233	61.267	60.570
86	41.472	44.161	44.405	44.088	44.173	45.166	45.568
87	25.293	27.381	28.027	27.854	28.487	29.717	30.651
88	11.694	12.800	13.054	13.295	14.178	15.649	16.796
89	1.605	1.840	1.272	1.847	2.575	3.405	4.469
90	0.033	0.033	0.216	0.200	0.334	0.134	0.132
91	0.000	0.000	0.135	0.067	0.201	0.000	0.000
92	0.000	0.000	0.002	0.066	0.133	0.000	0.000

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CANDELA TABULATION - (Cont.)

93	0.000	0.000	0.000	0.000	0.067	0.000	0.000
94	0.000	0.000	0.000	0.000	0.066	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	0.067	0.000	0.000
97	0.000	0.000	0.000	0.000	0.067	0.000	0.000
98	0.000	0.000	0.000	0.000	0.067	0.000	0.000
99	0.000	0.000	0.000	0.000	0.067	0.067	0.000
100	0.000	0.000	0.000	0.000	0.067	0.067	0.000
101	0.000	0.000	0.000	0.000	0.067	0.067	0.000
102	0.000	0.000	0.000	0.000	0.067	0.067	0.000
103	0.067	0.000	0.000	0.000	0.067	0.067	0.000
104	0.067	0.132	0.000	0.000	0.067	0.067	0.000
105	0.200	0.201	0.000	0.002	0.067	0.067	0.000
106	0.135	0.269	0.000	0.067	0.067	0.067	0.000
107	0.332	0.335	0.066	0.068	0.068	0.067	0.067
108	0.337	0.336	0.133	0.136	0.135	0.067	0.068
109	0.402	0.402	0.201	0.271	0.137	0.067	0.135
110	0.470	0.469	0.332	0.336	0.202	0.067	0.135
111	0.471	0.471	0.271	0.404	0.202	0.067	0.135
112	0.537	0.471	0.402	0.541	0.203	0.067	0.138
113	0.538	0.538	0.536	0.672	0.271	0.067	0.268
114	0.538	0.604	0.807	0.673	0.404	0.067	0.202
115	0.538	0.672	0.807	0.807	0.404	0.067	0.203
116	0.669	0.738	0.873	0.808	0.404	0.067	0.336
117	0.673	0.740	0.875	0.874	0.404	0.067	0.269
118	0.673	0.740	0.940	0.874	0.405	0.067	0.269
119	0.673	0.805	0.942	0.874	0.540	0.067	0.269
120	0.673	0.874	0.942	0.876	0.607	0.270	0.272
121	0.673	0.875	0.942	1.008	0.674	0.605	0.477
122	0.673	0.940	0.942	0.942	0.742	0.741	0.811
123	0.673	0.942	0.942	0.942	0.807	0.808	0.941
124	0.673	0.942	0.942	0.942	0.740	0.875	0.875
125	0.673	0.942	0.942	0.942	0.740	0.875	0.875
126	0.673	0.942	0.942	0.942	0.740	0.875	0.877
127	0.673	0.942	0.942	0.942	0.740	0.877	0.942
128	0.673	0.942	0.942	0.942	0.740	1.009	0.942
129	0.673	0.942	0.942	0.942	0.740	0.942	0.942
130	0.673	0.942	0.942	0.942	0.740	0.942	0.942
131	0.673	0.942	0.942	0.942	0.740	0.942	0.942
132	0.673	0.942	0.942	0.942	0.740	0.942	0.942
133	0.673	0.942	0.942	0.942	0.740	0.942	0.943
134	0.673	0.942	0.942	0.942	0.740	0.942	1.010
135	0.673	0.942	0.942	0.942	0.739	0.942	1.010
136	0.673	0.942	0.942	0.942	0.669	0.942	1.010
137	0.673	0.942	0.942	0.942	0.538	0.942	1.010
138	0.673	0.942	0.942	0.942	0.536	0.942	1.010
139	0.673	0.942	0.942	0.942	0.403	0.942	1.010
140	0.673	0.942	0.942	0.942	0.336	0.942	1.010
141	0.673	0.942	1.009	0.942	0.332	0.942	1.010
142	0.740	0.942	0.943	0.942	0.201	0.942	1.010
143	0.740	0.942	1.076	0.942	0.135	0.942	1.012
144	0.740	0.942	1.011	0.942	0.134	0.942	1.076
145	0.740	0.942	1.009	0.943	0.066	0.942	1.008
146	0.806	0.942	1.009	1.005	0.000	0.942	0.942
147	0.808	0.942	1.009	0.874	0.000	0.942	0.942
148	0.875	0.942	1.009	0.870	0.000	0.876	0.942

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CANDELA TABULATION - (Cont.)

149	0.875	0.942	1.009	0.741	0.000	0.807	0.942
150	1.008	0.942	1.009	0.804	0.000	0.806	0.942
151	1.075	0.942	1.009	0.672	0.000	0.740	0.942
152	1.143	0.942	1.009	0.605	0.000	0.741	0.942
153	1.144	0.942	1.076	0.605	0.000	0.806	0.942
154	1.144	0.876	0.945	0.605	0.000	0.740	0.942
155	1.144	0.808	0.875	0.607	0.000	0.673	0.942
156	1.144	0.807	0.875	0.672	0.000	0.673	0.942
157	1.144	0.610	0.875	0.603	0.000	0.673	0.942
158	1.144	0.475	0.743	0.538	0.000	0.673	0.942
159	1.144	0.405	0.740	0.537	0.000	0.673	0.942
160	1.144	0.271	0.740	0.471	0.000	0.674	0.942
161	1.144	0.269	0.740	0.471	0.000	0.740	0.942
162	1.144	0.203	0.740	0.471	0.000	0.606	0.942
163	1.144	0.202	0.740	0.471	0.000	0.606	0.942
164	1.144	0.202	0.807	0.471	0.000	0.606	0.942
165	1.144	0.202	0.807	0.472	0.000	0.606	0.943
166	1.144	0.202	0.807	0.607	0.000	0.673	1.010
167	1.144	0.202	0.873	0.674	0.000	0.740	1.010
168	1.144	0.202	1.009	0.809	0.000	1.008	1.010
169	1.144	0.202	1.009	0.876	0.000	0.942	1.010
170	1.144	0.202	1.009	0.942	0.000	0.942	1.010
171	1.144	0.202	1.009	0.942	0.000	0.942	1.010
172	1.144	0.202	1.009	0.942	0.000	0.942	1.011
173	1.144	0.136	1.009	0.942	0.000	0.942	1.078
174	1.144	0.135	1.009	0.942	0.000	0.942	1.144
175	1.144	0.135	1.009	0.942	0.000	0.942	1.144
176	1.144	0.135	1.009	0.942	0.000	0.942	1.144
177	1.144	0.135	1.009	0.942	0.000	0.942	1.144
178	1.144	0.069	1.009	0.942	0.000	0.942	1.144
179	1.144	0.067	1.009	1.011	0.000	0.942	1.144
180	1.144	1.144	1.144	1.144	1.144	1.144	1.144

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	446.72	N.A.	12.60
0-30	950.03	N.A.	26.80
0-40	1559.14	N.A.	43.90
0-60	2769.89	N.A.	78.10
0-80	3474.9	N.A.	97.90
0-90	3545.27	N.A.	99.90
10-90	3429.79	N.A.	96.70
20-40	1112.42	N.A.	31.30
20-50	1746.96	N.A.	49.20
40-70	1654.33	N.A.	46.60
60-80	705.01	N.A.	19.90
70-80	261.42	N.A.	7.40
80-90	70.38	N.A.	2.00
90-110	0.12	N.A.	0.00
90-120	0.61	N.A.	0.00
90-130	1.37	N.A.	0.00
90-150	2.67	N.A.	0.10
90-180	3.35	N.A.	0.10
110-180	3.23	N.A.	0.10
0-180	3548.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.49
10-20	331.23
20-30	503.31
30-40	609.11
40-50	634.54
50-60	576.21
60-70	443.58
70-80	261.42
80-90	70.38
90-100	0.02
100-110	0.10
110-120	0.49
120-130	0.76
130-140	0.74
140-150	0.56
150-160	0.38
160-170	0.21
170-180	0.08

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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_30W_4000K.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.9	18.5	17.2	18.8	19.1	UGR Viewed Endwise	16.9	18.5	17.2	18.8	19.1
	3H	18.7	20.2	19.1	20.5	20.9		18.7	20.3	19.1	20.6	20.9
	4H	19.4	20.8	19.8	21.2	21.5		19.5	20.9	19.9	21.3	21.6
	6H	19.9	21.2	20.3	21.6	22.0		20.1	21.4	20.5	21.7	22.1
	8H	20.1	21.3	20.5	21.7	22.1		20.3	21.5	20.7	21.9	22.3
	12H	20.2	21.4	20.6	21.7	22.2		20.4	21.6	20.8	21.9	22.4

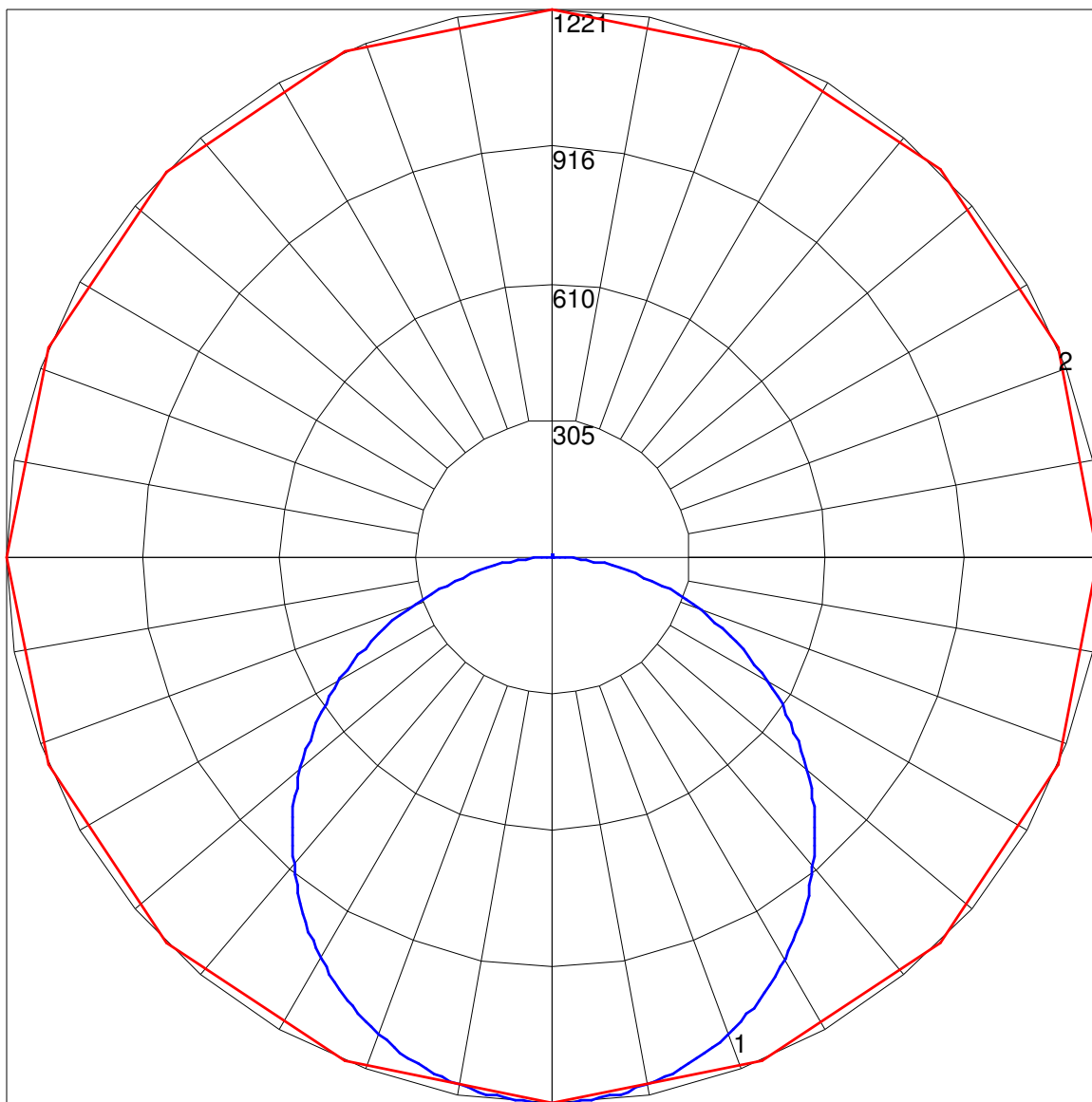
4H	2H	17.5	18.9	17.9	19.3	19.6	17.5	18.9	17.9	19.3	19.7
	3H	19.6	20.8	20.0	21.2	21.6	19.6	20.8	20.0	21.2	21.6
	4H	20.4	21.5	20.8	21.9	22.3	20.5	21.6	20.9	22.0	22.4
	6H	21.0	22.0	21.5	22.4	22.9	21.2	22.2	21.7	22.6	23.0
	8H	21.3	22.1	21.7	22.6	23.0	21.5	22.3	21.9	22.8	23.2
	12H	21.4	22.2	21.9	22.7	23.1	21.6	22.4	22.1	22.9	23.4

8H	4H	20.8	21.6	21.2	22.1	22.5	20.8	21.7	21.3	22.2	22.6
	6H	21.5	22.2	22.0	22.7	23.2	21.7	22.4	22.1	22.9	23.4
	8H	21.8	22.5	22.3	23.0	23.4	22.0	22.6	22.5	23.1	23.6
	12H	22.0	22.6	22.5	23.1	23.6	22.2	22.8	22.7	23.3	23.9

12H	4H	20.8	21.6	21.3	22.1	22.5	20.9	21.7	21.4	22.1	22.6
	6H	21.6	22.3	22.1	22.7	23.3	21.7	22.4	22.3	22.9	23.4
	8H	21.9	22.5	22.4	23.0	23.6	22.1	22.7	22.6	23.2	23.7

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1220.983 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.)