



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_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_40W_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	4163
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	38
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	4641	4652	4651
55	4485	4509	4509
65	4231	4279	4289
75	3738	3886	3943
85	2764	2878	3084

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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	1431.551	1431.551	1431.551	1431.551	1431.551	1431.551	1431.551	1431.551	1431.551	1431.551
1	1430.786	1430.403	1431.264	1431.360	1431.647	1431.073	1430.690	1431.551	1430.882	1430.403
2	1430.212	1430.595	1430.977	1429.925	1430.499	1431.456	1430.690	1430.308	1430.308	1429.925
3	1429.351	1429.159	1430.116	1428.968	1430.595	1429.925	1428.872	1428.872	1429.542	1429.159
4	1427.437	1426.959	1427.629	1427.246	1428.394	1428.298	1428.011	1426.576	1426.672	1426.098
5	1426.193	1425.715	1425.524	1425.906	1425.524	1425.715	1424.663	1424.280	1424.376	1424.184
6	1423.227	1422.079	1422.940	1422.749	1423.706	1422.271	1422.462	1422.462	1421.888	1421.601
7	1419.687	1419.783	1420.166	1419.687	1421.505	1420.166	1419.783	1418.539	1418.730	1417.869
8	1416.434	1417.008	1416.051	1416.147	1416.817	1416.243	1415.190	1414.808	1414.521	1413.947
9	1412.129	1412.320	1412.320	1411.363	1413.277	1412.607	1410.598	1410.789	1411.076	1410.024
10	1407.345	1407.345	1408.014	1407.536	1407.919	1407.727	1406.484	1405.431	1405.814	1404.953
11	1402.178	1402.465	1402.848	1402.082	1403.996	1402.369	1401.317	1400.264	1400.169	1399.116
12	1397.298	1396.629	1397.681	1396.342	1398.542	1397.011	1396.055	1395.002	1395.576	1393.950
13	1391.079	1391.462	1390.792	1390.888	1391.940	1390.696	1390.122	1388.592	1388.687	1388.783
14	1384.573	1384.382	1384.286	1384.669	1386.582	1384.190	1383.329	1381.511	1382.946	1380.554
15	1377.780	1377.397	1377.397	1377.493	1379.598	1377.206	1375.579	1375.005	1375.292	1373.666
16	1370.412	1370.700	1369.743	1370.891	1371.848	1369.360	1368.595	1367.159	1367.159	1365.533
17	1362.950	1362.280	1362.662	1361.514	1363.524	1360.462	1360.079	1359.218	1359.696	1357.591
18	1354.243	1354.051	1354.530	1353.860	1355.391	1353.669	1352.042	1350.033	1350.798	1348.789
19	1345.249	1345.632	1346.014	1345.440	1346.684	1344.292	1342.953	1341.230	1341.804	1340.465
20	1336.351	1335.777	1335.872	1335.203	1336.925	1335.107	1333.480	1332.428	1332.524	1329.557
21	1327.070	1326.400	1326.400	1326.687	1328.218	1325.061	1323.721	1321.616	1322.286	1320.851
22	1316.736	1316.832	1316.641	1316.258	1317.406	1315.588	1313.483	1311.187	1311.857	1310.230
23	1305.733	1305.638	1306.020	1306.116	1306.690	1305.064	1302.767	1300.567	1300.280	1299.419
24	1294.922	1294.730	1295.304	1293.965	1296.548	1293.008	1291.382	1289.564	1289.468	1287.937
25	1282.770	1283.153	1282.962	1283.344	1284.206	1281.909	1280.761	1277.604	1278.848	1275.690
26	1272.341	1270.619	1270.619	1270.715	1273.490	1270.141	1267.749	1265.931	1265.931	1264.113
27	1258.277	1257.894	1259.042	1259.042	1259.999	1257.415	1256.076	1253.493	1252.823	1252.057
28	1245.456	1245.168	1245.934	1245.168	1247.943	1244.881	1242.968	1239.332	1239.715	1238.758
29	1232.347	1232.539	1233.017	1232.443	1235.026	1231.295	1229.573	1227.372	1226.607	1225.267
30	1218.283	1218.474	1220.005	1218.857	1220.866	1218.091	1215.508	1213.403	1212.829	1211.489
31	1205.270	1204.505	1204.983	1204.409	1207.471	1204.792	1201.252	1198.668	1198.381	1197.425
32	1190.249	1189.962	1191.492	1191.205	1192.641	1189.866	1187.474	1184.030	1183.934	1183.168
33	1175.036	1175.323	1176.375	1175.801	1178.002	1174.844	1171.878	1169.199	1168.529	1167.955
34	1159.536	1160.684	1161.258	1160.588	1162.502	1160.205	1157.144	1153.795	1153.795	1152.551
35	1143.940	1144.801	1146.045	1145.758	1146.906	1144.131	1141.261	1137.721	1137.147	1136.286
36	1128.536	1129.014	1129.779	1129.301	1130.832	1128.153	1124.613	1121.360	1120.690	1120.499
37	1112.174	1112.940	1113.227	1113.131	1114.758	1111.792	1108.443	1104.137	1104.520	1103.659
38	1094.952	1095.335	1097.153	1096.292	1097.631	1095.144	1091.795	1088.159	1086.915	1086.150
39	1078.687	1078.591	1079.452	1079.739	1079.835	1077.252	1074.764	1070.650	1069.693	1069.597
40	1060.603	1061.369	1062.708	1061.943	1063.091	1060.986	1056.489	1052.088	1051.897	1051.705
41	1043.477	1043.381	1045.103	1044.147	1045.199	1041.850	1038.693	1034.579	1033.622	1033.622
42	1024.628	1025.393	1026.733	1025.681	1027.116	1023.576	1020.705	1016.591	1015.060	1014.677
43	1006.449	1006.258	1007.406	1007.597	1007.406	1006.162	1001.761	997.647	996.403	996.403
44	987.600	987.696	989.418	988.844	989.705	986.739	983.582	978.224	977.841	976.980
45	967.986	968.847	970.378	969.325	970.187	967.603	963.489	958.992	958.227	957.748
46	947.721	949.501	950.419	949.864	950.745	948.238	944.698	939.579	938.306	938.182
47	928.499	929.092	931.130	930.087	931.102	928.786	924.720	919.496	918.338	917.515
48	907.699	909.536	911.114	910.358	911.880	908.301	904.991	899.480	897.624	898.035
49	887.625	889.060	890.218	889.252	890.668	888.276	884.362	878.229	877.053	876.344
50	866.796	867.877	870.422	868.776	869.676	866.834	863.026	858.280	855.860	855.927
51	846.100	847.564	848.502	848.540	848.913	847.009	841.862	836.418	834.447	833.920
52	824.754	826.343	827.548	826.553	827.749	825.022	820.678	814.631	812.814	813.072
53	803.341	804.327	806.068	804.958	806.700	804.308	798.825	793.238	791.018	791.707

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

54	780.924	782.818	784.741	783.861	784.808	781.995	777.278	771.011	768.323	768.734
55	758.831	760.621	762.946	762.238	762.879	760.123	755.071	749.330	746.374	747.503
56	736.404	738.863	740.250	739.762	740.643	738.404	733.381	726.473	723.210	724.368
57	713.977	716.417	718.292	717.393	718.991	715.891	711.087	703.577	700.209	701.644
58	691.454	693.616	695.788	694.573	696.276	693.454	688.191	680.671	676.987	678.901
59	668.013	670.357	672.730	672.165	673.199	671.237	665.496	657.507	653.288	655.086
60	645.203	647.509	649.690	649.384	651.068	647.872	642.246	634.381	629.990	631.875
61	621.991	624.029	626.861	626.258	627.732	625.196	618.929	610.529	606.271	608.041
62	598.722	601.324	603.601	603.535	604.367	602.061	595.459	586.772	582.265	584.293
63	575.280	577.931	580.256	580.112	581.404	578.668	571.970	562.890	558.374	560.508
64	551.313	554.528	557.235	556.795	558.163	555.130	548.356	539.410	534.866	536.416
65	527.422	530.417	533.421	533.220	534.646	531.823	524.484	515.711	511.147	512.888
66	503.253	506.592	509.549	509.922	511.223	508.276	500.823	491.523	486.825	488.949
67	479.027	482.491	485.993	486.060	488.050	485.132	477.200	467.823	463.393	465.049
68	454.553	458.571	462.446	462.590	464.360	461.451	453.510	444.047	439.627	441.349
69	430.422	434.154	438.737	439.273	440.698	437.962	429.676	420.146	415.936	417.697
70	406.349	410.330	415.104	416.434	417.630	414.673	406.129	396.915	392.160	394.179
71	381.932	385.960	391.012	392.189	393.930	391.156	382.592	373.005	368.614	370.738
72	357.409	361.696	367.150	368.824	370.718	367.714	359.151	350.109	345.163	347.239
73	333.624	337.480	343.680	345.440	347.076	344.617	336.398	326.591	321.846	323.711
74	309.426	313.397	320.219	322.745	324.496	321.788	312.947	303.906	298.930	300.978
75	285.363	289.889	296.672	299.533	301.007	298.509	289.956	280.474	275.719	277.632
76	261.912	265.988	272.839	276.264	278.082	275.824	267.270	258.276	253.502	255.530
77	238.031	242.212	249.359	253.311	254.813	252.746	244.853	235.935	231.304	233.285
78	215.374	219.258	226.616	230.032	231.218	229.295	222.349	213.738	209.250	211.040
79	193.071	196.592	203.758	206.954	208.466	206.533	200.802	191.990	187.416	189.674
80	171.323	174.787	181.063	184.335	185.991	183.934	179.073	170.519	166.530	168.271
81	150.245	153.632	158.454	161.659	164.071	161.181	156.694	149.346	145.097	147.174
82	129.416	132.736	136.362	139.711	141.825	139.433	134.726	128.727	124.689	126.564
83	109.074	112.155	114.892	117.762	120.671	118.106	112.901	108.385	104.922	106.424
84	89.710	92.717	94.055	96.732	99.841	97.162	92.325	88.975	85.879	87.180
85	71.049	73.165	74.001	75.764	79.289	76.533	71.693	69.133	66.976	67.047
86	53.451	54.530	55.185	56.316	59.649	56.461	52.307	50.027	49.031	48.255
87	35.954	36.355	36.518	36.923	39.756	36.779	33.012	31.266	30.976	29.691
88	19.701	19.799	19.349	19.335	21.075	18.545	16.224	14.922	14.983	13.620
89	5.243	5.266	5.245	4.628	5.745	4.066	3.275	2.265	2.283	1.817
90	0.155	0.236	0.313	0.314	0.000	0.071	0.061	0.019	0.048	0.029
91	0.000	0.155	0.156	0.235	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.079	0.154	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.078	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	0.078	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.002	0.078	0.157	0.158	0.078	0.156
106	0.000	0.000	0.000	0.000	0.084	0.079	0.315	0.158	0.157	0.158
107	0.079	0.079	0.158	0.081	0.238	0.079	0.238	0.236	0.081	0.158
108	0.080	0.079	0.159	0.158	0.316	0.232	0.391	0.314	0.309	0.312
109	0.158	0.156	0.237	0.168	0.318	0.237	0.395	0.393	0.316	0.238

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CANDELA TABULATION - (Cont.)

110	0.158	0.079	0.238	0.474	0.475	0.314	0.472	0.395	0.316	0.314
111	0.158	0.237	0.395	0.633	0.552	0.316	0.550	0.472	0.316	0.315
112	0.161	0.314	0.477	0.793	0.475	0.393	0.553	0.474	0.316	0.393
113	0.315	0.237	0.632	0.950	0.553	0.394	0.553	0.628	0.395	0.473
114	0.237	0.237	0.632	1.110	0.553	0.471	0.706	0.554	0.547	0.550
115	0.238	0.237	0.710	1.262	0.631	0.551	0.633	0.552	0.630	0.474
116	0.394	0.237	0.634	1.184	0.632	0.552	0.785	0.552	0.555	0.473
117	0.316	0.237	0.868	1.184	0.714	0.708	0.789	0.552	0.707	0.473
118	0.316	0.237	0.870	1.184	0.871	0.710	0.946	0.552	0.711	0.473
119	0.316	0.315	0.947	1.184	0.944	0.863	0.947	0.552	0.711	0.473
120	0.320	0.398	0.947	1.184	0.873	0.868	0.947	0.552	0.789	0.473
121	0.559	0.633	0.949	1.184	1.025	1.022	0.947	0.552	0.790	0.473
122	0.951	0.871	1.026	1.184	0.947	1.103	0.947	0.552	0.790	0.473
123	1.104	1.104	1.028	1.184	0.947	1.183	0.947	0.553	0.790	0.552
124	1.026	1.104	1.103	1.184	0.947	1.183	0.947	0.630	0.790	0.552
125	1.026	1.105	1.026	1.184	0.952	1.262	0.947	0.790	0.868	0.631
126	1.029	1.183	1.026	1.184	1.106	1.262	0.947	0.944	0.790	0.947
127	1.105	1.185	1.029	1.184	1.186	1.262	0.947	1.260	1.022	1.024
128	1.105	1.262	1.105	1.184	1.340	1.262	0.947	1.263	1.026	1.341
129	1.105	1.183	1.026	1.187	1.264	1.262	0.947	1.263	1.181	1.341
130	1.105	1.183	1.025	1.263	1.342	1.262	0.947	1.263	1.184	1.341
131	1.105	1.183	0.945	1.263	1.268	1.341	0.947	1.263	1.184	1.341
132	1.105	1.183	0.868	1.263	1.420	1.341	0.947	1.263	1.184	1.341
133	1.107	1.183	0.868	1.263	1.343	1.341	0.947	1.263	1.184	1.341
134	1.184	1.183	0.868	1.263	1.501	1.341	0.947	1.263	1.184	1.341
135	1.184	1.183	0.868	1.263	1.579	1.419	0.947	1.263	1.184	1.341
136	1.184	1.183	0.861	1.263	1.579	1.420	0.947	1.263	1.184	1.341
137	1.184	1.183	0.632	1.263	1.579	1.576	0.947	1.263	1.184	1.341
138	1.184	1.183	0.627	1.263	1.579	1.499	0.947	1.263	1.184	1.341
139	1.184	1.183	0.472	1.263	1.579	1.499	0.947	1.263	1.184	1.341
140	1.184	1.183	0.314	1.263	1.579	1.499	0.947	1.263	1.184	1.341
141	1.184	1.183	0.156	1.263	1.579	1.499	0.947	1.263	1.184	1.341
142	1.184	1.183	0.077	1.263	1.579	1.499	0.947	1.263	1.184	1.341
143	1.187	1.183	0.000	1.262	1.579	1.499	0.947	1.263	1.184	1.341
144	1.262	1.183	0.000	1.184	1.579	1.499	0.947	1.263	1.184	1.341
145	1.183	1.183	0.000	1.184	1.579	1.499	1.104	1.263	1.184	1.341
146	1.105	1.179	0.000	1.182	1.579	1.499	1.028	1.263	1.184	1.341
147	1.105	1.025	0.000	1.027	1.579	1.499	1.181	1.263	1.184	1.341
148	1.105	1.025	0.000	1.103	1.579	1.499	1.184	1.263	1.184	1.341
149	1.105	0.945	0.000	1.024	1.579	1.499	1.184	1.263	1.184	1.341
150	1.105	0.866	0.000	0.946	1.579	1.499	1.262	1.263	1.184	1.341
151	1.105	0.789	0.000	0.868	1.579	1.499	1.340	1.341	1.184	1.341
152	1.105	0.787	0.000	0.868	1.579	1.499	1.342	1.184	1.184	1.341
153	1.105	0.710	0.000	0.868	1.579	1.499	1.342	1.184	1.184	1.341
154	1.105	0.710	0.000	0.866	1.579	1.499	1.342	1.105	1.184	1.341
155	1.105	0.710	0.000	0.789	1.579	1.499	1.342	1.105	1.184	1.341
156	1.105	0.711	0.000	0.787	1.579	1.499	1.342	1.105	1.184	1.341
157	1.105	0.787	0.000	0.710	1.579	1.499	1.342	1.105	1.184	1.341
158	1.105	0.710	0.000	0.710	1.579	1.499	1.342	1.182	1.184	1.341
159	1.105	0.708	0.000	0.708	1.579	1.499	1.342	1.026	1.184	1.341
160	1.105	0.552	0.000	0.631	1.579	1.499	1.342	0.946	1.184	1.341
161	1.105	0.553	0.000	0.631	1.579	1.499	1.342	0.791	1.184	1.341
162	1.105	0.629	0.000	0.631	1.579	1.499	1.342	0.474	1.184	1.341
163	1.105	0.552	0.000	0.631	1.579	1.499	1.342	0.474	1.184	1.341
164	1.105	0.476	0.000	0.634	1.579	1.499	1.342	0.395	1.184	1.341
165	1.106	0.634	0.000	0.710	1.579	1.499	1.342	0.317	1.184	1.341

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_4000K.IES

CANDELA TABULATION - (Cont.)

166	1.184	0.946	0.000	0.718	1.579	1.499	1.342	0.316	1.184	1.341
167	1.184	0.947	0.000	0.950	1.579	1.499	1.342	0.237	1.184	1.341
168	1.184	1.028	0.000	1.026	1.655	1.499	1.342	0.237	1.184	1.341
169	1.184	1.106	0.000	1.030	1.500	1.499	1.342	0.237	1.184	1.341
170	1.184	1.262	0.000	1.184	1.500	1.499	1.342	0.237	1.263	1.341
171	1.184	1.341	0.000	1.184	1.500	1.499	1.342	0.237	1.111	1.341
172	1.186	1.341	0.000	1.184	1.500	1.499	1.420	0.237	1.105	1.341
173	1.264	1.341	0.000	1.184	1.500	1.422	1.344	0.237	1.105	1.341
174	1.342	1.341	0.000	1.184	1.500	1.420	1.342	0.315	1.105	1.341
175	1.342	1.341	0.079	1.184	1.500	1.498	1.186	0.237	1.105	1.341
176	1.342	1.341	0.079	1.184	1.500	1.422	1.184	0.158	1.105	1.341
177	1.342	1.341	0.079	1.184	1.500	1.342	1.184	0.237	1.105	1.341
178	1.342	1.341	0.079	1.184	1.500	1.264	1.184	0.001	1.105	1.341
179	1.342	1.341	0.079	1.184	1.500	1.184	1.184	0.079	1.105	1.341
180	1.342	1.342	1.342	1.342	1.342	1.342	1.342	1.342	1.342	1.342

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	1431.551	1431.551	1431.551	1431.551	1431.551	1431.551	1431.551
1	1431.647	1430.403	1430.882	1431.647	1432.221	1431.360	1430.786
2	1430.212	1430.499	1430.786	1430.786	1430.786	1429.829	1430.212
3	1429.447	1428.490	1429.638	1430.116	1429.734	1429.447	1429.351
4	1427.629	1426.385	1426.768	1428.107	1427.820	1428.203	1427.437
5	1424.950	1425.045	1425.237	1425.332	1425.428	1425.237	1426.193
6	1421.409	1421.984	1422.653	1422.749	1422.558	1423.323	1423.227
7	1419.305	1418.922	1419.113	1419.879	1420.166	1419.496	1419.687
8	1414.042	1415.477	1415.382	1416.147	1416.243	1416.243	1416.434
9	1410.980	1410.789	1411.172	1411.842	1411.746	1412.511	1412.129
10	1406.005	1406.388	1406.771	1406.866	1407.249	1407.153	1407.345
11	1401.126	1400.551	1401.508	1402.178	1402.178	1401.987	1402.178
12	1395.193	1395.193	1396.437	1397.107	1397.107	1396.916	1397.298
13	1389.166	1389.835	1389.453	1389.644	1390.601	1390.696	1391.079
14	1382.085	1382.659	1383.616	1383.808	1384.190	1385.147	1384.573
15	1375.196	1375.388	1376.632	1376.345	1377.588	1377.588	1377.780
16	1367.542	1367.925	1369.073	1369.838	1370.221	1369.934	1370.412
17	1359.505	1360.079	1360.749	1360.462	1362.184	1361.706	1362.950
18	1350.798	1351.181	1353.095	1353.095	1353.477	1353.477	1354.243
19	1342.283	1342.666	1344.101	1343.814	1345.153	1344.770	1345.249
20	1332.237	1333.193	1334.628	1334.341	1335.011	1334.820	1336.351
21	1322.095	1323.530	1325.061	1324.774	1325.730	1326.017	1327.070
22	1312.622	1313.483	1314.919	1314.919	1315.206	1315.397	1316.736
23	1300.854	1301.906	1303.724	1303.915	1304.681	1304.490	1305.733
24	1289.755	1291.477	1293.199	1292.530	1293.965	1294.156	1294.922
25	1278.752	1279.804	1280.952	1281.335	1282.005	1282.388	1282.770
26	1266.505	1267.462	1268.706	1268.514	1270.236	1270.141	1272.341
27	1254.067	1255.215	1255.885	1257.033	1257.511	1257.415	1258.277
28	1241.246	1241.533	1243.446	1244.212	1244.690	1244.881	1245.456
29	1227.276	1228.999	1231.199	1230.434	1232.252	1232.060	1232.347
30	1213.977	1216.465	1217.422	1217.422	1217.996	1218.761	1218.283
31	1199.051	1200.582	1202.209	1203.835	1203.357	1203.644	1205.270
32	1185.082	1186.709	1188.144	1188.622	1189.770	1189.483	1190.249
33	1170.060	1171.687	1173.122	1173.600	1174.270	1174.653	1175.036
34	1154.752	1156.665	1158.100	1158.387	1159.344	1159.057	1159.536
35	1139.060	1140.783	1142.122	1142.983	1144.323	1144.227	1143.940
36	1122.891	1124.134	1125.283	1126.813	1128.057	1127.579	1128.536

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_4000K.IES

CANDELA TABULATION - (Cont.)

37	1105.764	1108.060	1109.782	1110.452	1111.696	1112.079	1112.174
38	1088.829	1090.455	1092.656	1093.517	1094.378	1095.622	1094.952
39	1072.563	1074.190	1075.338	1076.773	1077.539	1077.634	1078.687
40	1054.097	1056.298	1057.637	1059.551	1060.316	1060.029	1060.603
41	1035.918	1037.736	1040.511	1041.468	1042.042	1042.711	1043.477
42	1017.739	1020.322	1022.140	1023.289	1023.671	1023.863	1024.628
43	999.273	1001.952	1003.196	1004.631	1005.875	1006.066	1006.449
44	980.616	982.338	984.443	985.782	986.643	986.356	987.600
45	961.193	963.680	964.159	966.551	967.316	967.986	967.986
46	941.693	943.779	945.176	946.975	948.267	947.606	947.721
47	921.065	923.610	925.447	927.590	928.231	927.533	928.499
48	901.470	904.426	905.393	906.684	908.120	907.459	907.699
49	880.851	883.961	883.827	886.525	888.008	886.381	887.625
50	860.127	862.557	863.772	865.944	867.255	866.193	866.796
51	838.647	842.465	842.819	844.665	846.789	845.191	846.100
52	817.473	820.238	821.310	823.654	825.338	824.639	824.754
53	795.850	799.064	800.289	802.193	803.590	802.633	803.341
54	774.159	777.001	777.575	780.321	781.794	781.297	780.924
55	751.636	755.004	756.171	758.238	759.367	758.898	758.831
56	729.774	733.476	733.649	736.529	737.265	736.634	736.404
57	707.031	710.198	711.317	713.451	714.838	714.408	713.977
58	684.135	687.742	688.278	690.890	692.382	691.454	691.454
59	661.507	665.525	666.281	668.328	669.496	668.395	668.013
60	638.381	642.581	643.433	645.298	646.925	645.834	645.203
61	614.691	619.609	619.704	622.498	623.589	622.154	621.991
62	591.230	595.995	596.837	599.392	600.339	599.315	598.722
63	567.511	572.668	573.568	575.855	577.663	575.730	575.280
64	543.859	549.658	550.634	553.073	554.011	552.174	551.313
65	520.074	526.503	527.077	529.766	530.598	528.283	527.422
66	496.278	502.784	503.435	506.066	506.286	504.564	503.253
67	473.019	479.391	479.879	482.443	482.807	480.319	479.027
68	448.946	455.863	456.504	458.772	459.250	456.246	454.553
69	425.418	432.269	433.101	435.694	435.206	431.972	430.422
70	401.795	409.105	410.023	412.186	412.071	407.957	406.349
71	378.335	385.597	386.343	388.266	387.577	384.027	381.932
72	354.817	362.308	362.949	364.738	363.954	359.591	357.409
73	331.500	339.403	339.651	341.345	340.264	335.614	333.624
74	308.441	316.191	316.267	318.305	316.880	311.598	309.426
75	285.382	293.037	293.132	295.094	293.563	287.841	285.363
76	263.242	270.064	269.672	271.748	269.653	264.141	261.912
77	240.442	246.718	245.465	248.412	246.316	240.968	238.031
78	218.081	223.545	222.263	224.836	223.286	217.852	215.374
79	196.228	200.400	199.175	201.845	200.496	195.406	193.071
80	174.347	178.241	176.863	178.700	177.561	174.050	171.323
81	152.139	155.708	155.115	156.416	155.172	152.493	150.245
82	130.057	133.893	133.166	134.180	133.166	131.655	129.416
83	108.625	112.394	112.126	112.633	111.371	111.179	109.074
84	88.121	91.967	91.268	91.791	90.764	91.517	89.710
85	67.725	71.266	71.290	71.070	70.653	71.867	71.049
86	48.647	51.801	52.088	51.716	51.815	52.980	53.451
87	29.669	32.118	32.876	32.673	33.416	34.859	35.954
88	13.717	15.015	15.312	15.596	16.631	18.356	19.701
89	1.883	2.158	1.493	2.166	3.021	3.994	5.243
90	0.039	0.039	0.254	0.234	0.392	0.157	0.155
91	0.000	0.000	0.159	0.079	0.235	0.000	0.000
92	0.000	0.000	0.003	0.077	0.157	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_4000K.IES

CANDELA TABULATION - (Cont.)

93	0.000	0.000	0.000	0.000	0.079	0.000	0.000
94	0.000	0.000	0.000	0.000	0.077	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	0.079	0.000	0.000
97	0.000	0.000	0.000	0.000	0.079	0.000	0.000
98	0.000	0.000	0.000	0.000	0.079	0.000	0.000
99	0.000	0.000	0.000	0.000	0.079	0.079	0.000
100	0.000	0.000	0.000	0.000	0.079	0.079	0.000
101	0.000	0.000	0.000	0.000	0.079	0.079	0.000
102	0.000	0.000	0.000	0.000	0.079	0.079	0.000
103	0.078	0.000	0.000	0.000	0.079	0.079	0.000
104	0.079	0.155	0.000	0.000	0.079	0.079	0.000
105	0.234	0.236	0.000	0.002	0.079	0.079	0.000
106	0.158	0.315	0.000	0.079	0.079	0.079	0.000
107	0.390	0.393	0.077	0.080	0.080	0.079	0.079
108	0.395	0.395	0.156	0.159	0.158	0.079	0.080
109	0.471	0.471	0.236	0.318	0.160	0.079	0.158
110	0.551	0.551	0.390	0.395	0.237	0.079	0.158
111	0.553	0.552	0.318	0.474	0.237	0.079	0.158
112	0.630	0.552	0.471	0.634	0.238	0.079	0.161
113	0.632	0.631	0.628	0.789	0.318	0.079	0.315
114	0.632	0.708	0.946	0.789	0.474	0.079	0.237
115	0.632	0.788	0.947	0.947	0.474	0.079	0.238
116	0.785	0.866	1.024	0.948	0.474	0.079	0.394
117	0.789	0.868	1.026	1.025	0.474	0.079	0.316
118	0.789	0.868	1.103	1.025	0.475	0.079	0.316
119	0.789	0.945	1.105	1.025	0.634	0.079	0.316
120	0.789	1.026	1.105	1.027	0.711	0.316	0.320
121	0.789	1.026	1.105	1.182	0.790	0.710	0.559
122	0.789	1.103	1.105	1.104	0.870	0.869	0.951
123	0.789	1.105	1.105	1.104	0.946	0.947	1.104
124	0.789	1.105	1.105	1.104	0.868	1.026	1.026
125	0.789	1.105	1.105	1.104	0.868	1.026	1.026
126	0.789	1.105	1.105	1.104	0.868	1.026	1.029
127	0.789	1.105	1.105	1.104	0.868	1.029	1.105
128	0.789	1.105	1.105	1.104	0.868	1.183	1.105
129	0.789	1.105	1.105	1.104	0.868	1.105	1.105
130	0.789	1.105	1.105	1.104	0.868	1.105	1.105
131	0.789	1.105	1.105	1.104	0.868	1.105	1.105
132	0.789	1.105	1.105	1.104	0.868	1.105	1.105
133	0.789	1.105	1.105	1.104	0.868	1.105	1.107
134	0.789	1.105	1.105	1.104	0.868	1.105	1.184
135	0.789	1.105	1.105	1.104	0.867	1.105	1.184
136	0.789	1.105	1.105	1.104	0.785	1.105	1.184
137	0.789	1.105	1.105	1.104	0.632	1.105	1.184
138	0.789	1.105	1.105	1.104	0.628	1.105	1.184
139	0.789	1.105	1.105	1.104	0.473	1.105	1.184
140	0.789	1.105	1.105	1.104	0.395	1.105	1.184
141	0.789	1.105	1.184	1.104	0.390	1.105	1.184
142	0.867	1.105	1.106	1.104	0.235	1.105	1.184
143	0.868	1.105	1.262	1.104	0.158	1.105	1.187
144	0.868	1.105	1.186	1.104	0.157	1.105	1.262
145	0.868	1.105	1.184	1.106	0.077	1.105	1.183
146	0.946	1.105	1.184	1.179	0.000	1.105	1.105
147	0.947	1.105	1.184	1.025	0.000	1.105	1.105
148	1.026	1.105	1.184	1.021	0.000	1.027	1.105

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_4000K.IES

CANDELA TABULATION - (Cont.)

149	1.026	1.105	1.184	0.869	0.000	0.947	1.105
150	1.183	1.105	1.184	0.943	0.000	0.946	1.105
151	1.261	1.105	1.184	0.788	0.000	0.868	1.105
152	1.341	1.105	1.184	0.710	0.000	0.869	1.105
153	1.342	1.105	1.263	0.710	0.000	0.946	1.105
154	1.342	1.027	1.109	0.710	0.000	0.868	1.105
155	1.342	0.948	1.027	0.712	0.000	0.789	1.105
156	1.342	0.947	1.026	0.788	0.000	0.789	1.105
157	1.342	0.715	1.026	0.708	0.000	0.789	1.105
158	1.342	0.557	0.872	0.631	0.000	0.789	1.105
159	1.342	0.475	0.868	0.630	0.000	0.789	1.105
160	1.342	0.317	0.868	0.552	0.000	0.791	1.105
161	1.342	0.316	0.868	0.552	0.000	0.868	1.105
162	1.342	0.238	0.868	0.552	0.000	0.710	1.105
163	1.342	0.237	0.868	0.552	0.000	0.710	1.105
164	1.342	0.237	0.946	0.552	0.000	0.710	1.105
165	1.342	0.237	0.947	0.554	0.000	0.710	1.106
166	1.342	0.237	0.947	0.712	0.000	0.790	1.184
167	1.342	0.237	1.024	0.791	0.000	0.868	1.184
168	1.342	0.237	1.184	0.949	0.000	1.182	1.184
169	1.342	0.237	1.184	1.027	0.000	1.105	1.184
170	1.342	0.237	1.184	1.104	0.000	1.105	1.184
171	1.342	0.237	1.184	1.104	0.000	1.105	1.184
172	1.342	0.237	1.184	1.104	0.000	1.105	1.186
173	1.342	0.160	1.184	1.104	0.000	1.105	1.264
174	1.342	0.158	1.184	1.104	0.000	1.105	1.342
175	1.342	0.158	1.184	1.104	0.000	1.105	1.342
176	1.342	0.158	1.184	1.104	0.000	1.105	1.342
177	1.342	0.158	1.184	1.104	0.000	1.105	1.342
178	1.342	0.081	1.184	1.105	0.000	1.105	1.342
179	1.342	0.079	1.184	1.185	0.000	1.105	1.342
180	1.342	1.342	1.342	1.342	1.342	1.342	1.342

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_4000K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	524.00	N.A.	12.60
0-30	1114.39	N.A.	26.80
0-40	1828.88	N.A.	43.90
0-60	3249.09	N.A.	78.10
0-80	4076.07	N.A.	97.90
0-90	4158.63	N.A.	99.90
10-90	4023.16	N.A.	96.70
20-40	1304.87	N.A.	31.30
20-50	2049.19	N.A.	49.20
40-70	1940.55	N.A.	46.60
60-80	826.98	N.A.	19.90
70-80	306.65	N.A.	7.40
80-90	82.55	N.A.	2.00
90-110	0.14	N.A.	0.00
90-120	0.71	N.A.	0.00
90-130	1.60	N.A.	0.00
90-150	3.14	N.A.	0.10
90-180	3.93	N.A.	0.10
110-180	3.79	N.A.	0.10
0-180	4162.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.47
10-20	388.53
20-30	590.39
30-40	714.49
40-50	744.32
50-60	675.90
60-70	520.33
70-80	306.65
80-90	82.55
90-100	0.02
100-110	0.11
110-120	0.58
120-130	0.89
130-140	0.87
140-150	0.66
150-160	0.45
160-170	0.25
170-180	0.09

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_4000K.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_40W_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	17.5	19.1	17.8	19.4	19.7	UGR Viewed Endwise	17.5	19.1	17.8	19.4	19.8
	3H	19.3	20.8	19.7	21.1	21.5	19.4	20.9	19.7	21.2	21.5	
	4H	20.0	21.4	20.4	21.8	22.1	20.1	21.5	20.5	21.9	22.2	
	6H	20.5	21.8	20.9	22.2	22.6	20.7	22.0	21.1	22.3	22.7	
	8H	20.7	21.9	21.1	22.3	22.7	20.9	22.1	21.3	22.5	22.9	
	12H	20.8	22.0	21.2	22.3	22.8	21.0	22.2	21.4	22.6	23.0	

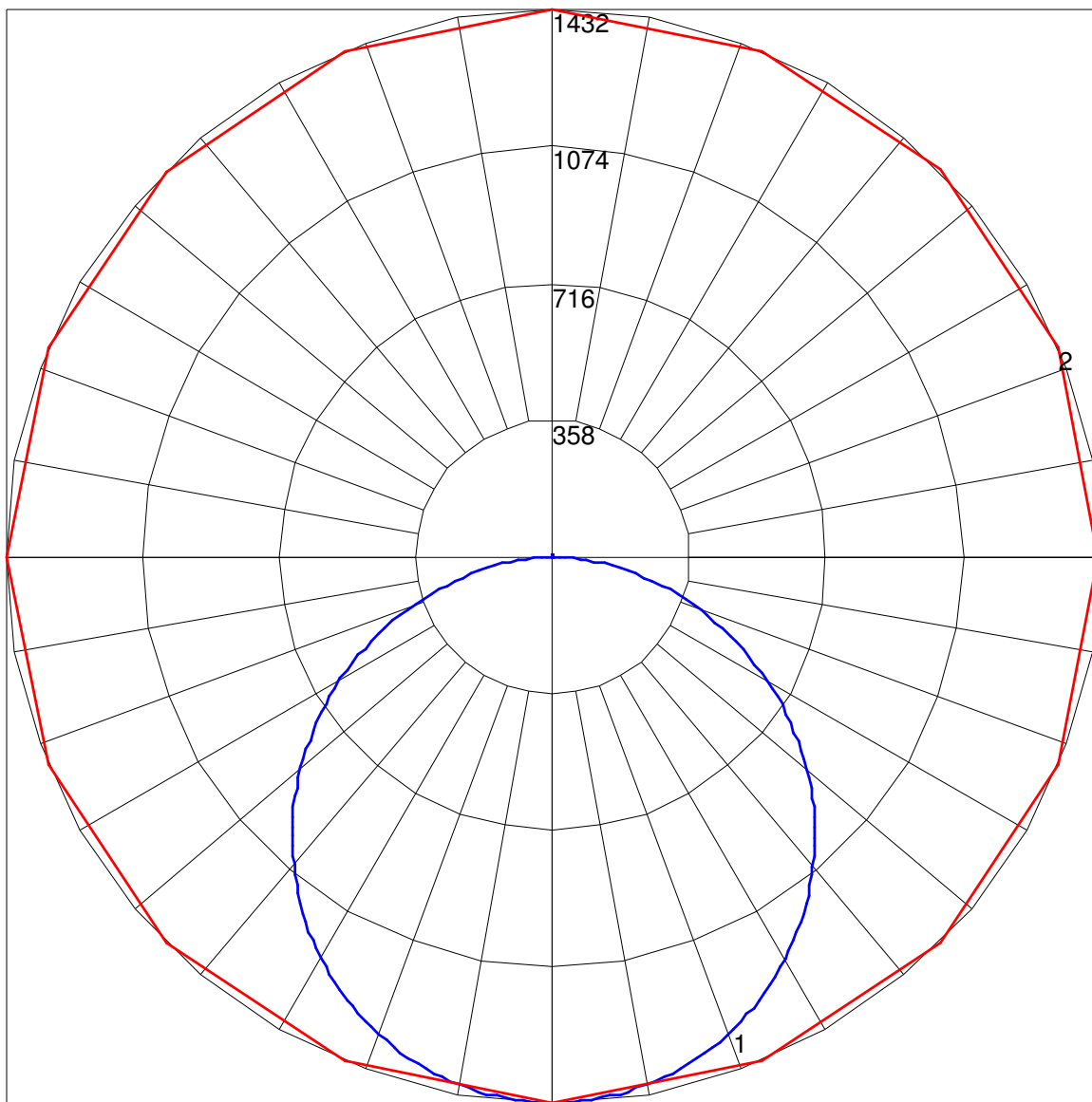
4H	2H	18.1	19.5	18.5	19.9	20.2	18.1	19.5	18.5	19.9	20.3	
	3H	20.2	21.4	20.6	21.8	22.2	20.2	21.4	20.6	21.8	22.2	
	4H	21.0	22.1	21.4	22.5	22.9	21.1	22.2	21.5	22.6	23.0	
	6H	21.6	22.6	22.1	23.0	23.5	21.8	22.8	22.3	23.2	23.6	
	8H	21.9	22.7	22.3	23.2	23.6	22.1	22.9	22.5	23.4	23.8	
	12H	22.0	22.8	22.5	23.3	23.7	22.2	23.0	22.7	23.5	24.0	

8H	4H	21.4	22.2	21.8	22.7	23.1	21.5	22.3	21.9	22.8	23.2	
	6H	22.1	22.8	22.6	23.3	23.8	22.3	23.0	22.7	23.5	24.0	
	8H	22.4	23.1	22.9	23.6	24.0	22.6	23.2	23.1	23.7	24.2	
	12H	22.6	23.2	23.1	23.7	24.2	22.8	23.4	23.3	23.9	24.5	

12H	4H	21.4	22.2	21.9	22.7	23.1	21.5	22.3	22.0	22.7	23.2	
	6H	22.2	22.9	22.7	23.3	23.9	22.3	23.0	22.9	23.5	24.0	
	8H	22.5	23.1	23.0	23.6	24.2	22.7	23.3	23.2	23.8	24.3	

Maximum UGR = 24.5

POLAR GRAPH



Maximum Candela = 1432.221 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.)