



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_40W\_5000K.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\_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	4434
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	39
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	4943	4955	4954
55	4777	4803	4803
65	4506	4558	4568
75	3981	4139	4199
85	2944	3066	3285

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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	1524.741	1524.741	1524.741	1524.741	1524.741	1524.741	1524.741	1524.741	1524.741	1524.741
1	1523.926	1523.519	1524.436	1524.538	1524.843	1524.232	1523.824	1524.741	1524.028	1523.519
2	1523.315	1523.722	1524.130	1523.009	1523.621	1524.640	1523.824	1523.417	1523.417	1523.009
3	1522.398	1522.194	1523.213	1521.990	1523.722	1523.009	1521.888	1521.888	1522.601	1522.194
4	1520.359	1519.850	1520.563	1520.156	1521.379	1521.277	1520.971	1519.442	1519.544	1518.933
5	1519.035	1518.525	1518.321	1518.729	1518.321	1518.525	1517.404	1516.997	1517.098	1516.895
6	1515.876	1514.653	1515.570	1515.366	1516.385	1514.856	1515.060	1515.060	1514.449	1514.143
7	1512.105	1512.207	1512.614	1512.105	1514.041	1512.614	1512.207	1510.882	1511.086	1510.169
8	1508.640	1509.252	1508.232	1508.334	1509.048	1508.436	1507.315	1506.908	1506.602	1505.990
9	1504.054	1504.258	1504.258	1503.239	1505.277	1504.564	1502.424	1502.628	1502.933	1501.812
10	1498.959	1498.959	1499.672	1499.163	1499.570	1499.367	1498.042	1496.921	1497.328	1496.411
11	1493.456	1493.762	1494.169	1493.354	1495.392	1493.660	1492.539	1491.418	1491.316	1490.195
12	1488.259	1487.545	1488.666	1487.239	1489.583	1487.953	1486.934	1485.813	1486.424	1484.692
13	1481.635	1482.042	1481.329	1481.431	1482.552	1481.227	1480.616	1478.985	1479.087	1479.189
14	1474.705	1474.501	1474.399	1474.807	1476.845	1474.297	1473.380	1471.444	1472.972	1470.425
15	1467.469	1467.062	1467.062	1467.164	1469.406	1466.858	1465.126	1464.514	1464.820	1463.087
16	1459.623	1459.928	1458.909	1460.132	1461.151	1458.502	1457.686	1456.158	1456.158	1454.425
17	1451.674	1450.960	1451.368	1450.145	1452.285	1449.024	1448.617	1447.699	1448.209	1445.967
18	1442.400	1442.196	1442.706	1441.993	1443.623	1441.789	1440.056	1437.916	1438.731	1436.591
19	1432.821	1433.228	1433.636	1433.025	1434.349	1431.802	1430.375	1428.541	1429.152	1427.725
20	1423.343	1422.732	1422.834	1422.121	1423.955	1422.019	1420.286	1419.165	1419.267	1416.108
21	1413.458	1412.745	1412.745	1413.051	1414.681	1411.318	1409.892	1407.650	1408.363	1406.834
22	1402.452	1402.554	1402.350	1401.943	1403.166	1401.229	1398.988	1396.542	1397.255	1395.523
23	1390.733	1390.631	1391.039	1391.141	1391.752	1390.020	1387.574	1385.230	1384.924	1384.007
24	1379.217	1379.014	1379.625	1378.198	1380.950	1377.179	1375.447	1373.511	1373.409	1371.778
25	1366.275	1366.683	1366.479	1366.887	1367.804	1365.358	1364.135	1360.772	1362.097	1358.734
26	1355.167	1353.333	1353.333	1353.435	1356.390	1352.823	1350.276	1348.339	1348.339	1346.403
27	1340.187	1339.779	1341.002	1341.002	1342.021	1339.270	1337.843	1335.091	1334.378	1333.563
28	1326.531	1326.225	1327.041	1326.225	1329.181	1325.920	1323.882	1320.009	1320.417	1319.398
29	1312.570	1312.774	1313.283	1312.672	1315.423	1311.449	1309.615	1307.271	1306.455	1305.029
30	1297.589	1297.793	1299.424	1298.201	1300.341	1297.386	1294.634	1292.392	1291.781	1290.354
31	1283.730	1282.915	1283.424	1282.813	1286.074	1283.220	1279.450	1276.698	1276.393	1275.374
32	1267.731	1267.425	1269.055	1268.750	1270.278	1267.323	1264.775	1261.107	1261.005	1260.189
33	1251.527	1251.833	1252.954	1252.342	1254.686	1251.323	1248.164	1245.311	1244.598	1243.986
34	1235.018	1236.241	1236.853	1236.139	1238.177	1235.732	1232.471	1228.904	1228.904	1227.579
35	1218.407	1219.324	1220.649	1220.343	1221.566	1218.611	1215.554	1211.783	1211.172	1210.255
36	1202.000	1202.510	1203.325	1202.815	1204.446	1201.592	1197.822	1194.357	1193.644	1193.440
37	1184.574	1185.389	1185.695	1185.593	1187.325	1184.166	1180.600	1176.014	1176.421	1175.504
38	1166.231	1166.638	1168.574	1167.657	1169.084	1166.434	1162.868	1158.995	1157.670	1156.855
39	1148.906	1148.804	1149.722	1150.027	1150.129	1147.378	1144.728	1140.346	1139.327	1139.225
40	1129.646	1130.461	1131.888	1131.072	1132.295	1130.053	1125.264	1120.576	1120.372	1120.168
41	1111.404	1111.302	1113.137	1112.118	1113.239	1109.672	1106.309	1101.927	1100.908	1100.908
42	1091.328	1092.144	1093.570	1092.449	1093.978	1090.207	1087.150	1082.768	1081.138	1080.730
43	1071.966	1071.762	1072.985	1073.189	1072.985	1071.660	1066.973	1062.591	1061.266	1061.266
44	1051.890	1051.992	1053.826	1053.215	1054.132	1050.973	1047.610	1041.903	1041.496	1040.578
45	1030.999	1031.916	1033.547	1032.426	1033.343	1030.592	1026.210	1021.420	1020.605	1020.095
46	1009.415	1011.311	1012.289	1011.698	1012.635	1009.965	1006.195	1000.743	999.387	999.255
47	988.942	989.574	991.744	990.634	991.714	989.248	984.917	979.352	978.119	977.243
48	966.787	968.744	970.425	969.620	971.241	967.429	963.903	958.033	956.056	956.495
49	945.407	946.936	948.169	947.139	948.648	946.100	941.932	935.400	934.146	933.392
50	923.222	924.373	927.084	925.331	926.289	923.262	919.207	914.152	911.574	911.645
51	901.179	902.738	903.737	903.778	904.175	902.147	896.665	890.866	888.767	888.206
52	878.444	880.135	881.419	880.359	881.633	878.729	874.102	867.662	865.725	866.001
53	855.637	856.686	858.541	857.359	859.214	856.666	850.827	844.875	842.511	843.245

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**CANDELA TABULATION - (Cont.)**

54	831.760	833.777	835.826	834.888	835.897	832.901	827.877	821.202	818.338	818.777
55	808.229	810.135	812.611	811.857	812.540	809.605	804.224	798.110	794.961	796.163
56	784.342	786.961	788.439	787.919	788.857	786.472	781.122	773.764	770.289	771.522
57	760.455	763.054	765.051	764.093	765.795	762.493	757.377	749.378	745.790	747.319
58	736.466	738.769	741.082	739.788	741.602	738.596	732.991	724.981	721.057	723.096
59	711.498	713.995	716.523	715.921	717.022	714.933	708.818	700.309	695.815	697.731
60	687.204	689.660	691.983	691.657	693.451	690.047	684.055	675.678	671.000	673.008
61	662.481	664.652	667.668	667.026	668.595	665.895	659.220	650.272	645.738	647.623
62	637.697	640.469	642.894	642.823	643.710	641.254	634.222	624.969	620.169	622.329
63	612.730	615.552	618.029	617.876	619.252	616.337	609.204	599.533	594.723	596.995
64	587.202	590.626	593.510	593.041	594.498	591.268	584.053	574.524	569.684	571.335
65	561.755	564.945	568.145	567.931	569.449	566.443	558.627	549.282	544.421	546.276
66	536.014	539.570	542.719	543.117	544.502	541.364	533.425	523.520	518.516	520.778
67	510.211	513.900	517.629	517.701	519.820	516.712	508.264	498.277	493.559	495.322
68	484.143	488.423	492.550	492.703	494.588	491.490	483.032	472.953	468.245	470.079
69	458.442	462.416	467.297	467.868	469.386	466.472	457.647	447.497	443.013	444.888
70	432.802	437.041	442.126	443.543	444.816	441.668	432.567	422.753	417.689	419.839
71	406.795	411.085	416.466	417.719	419.574	416.619	407.498	397.287	392.609	394.872
72	380.676	385.241	391.050	392.833	394.851	391.651	382.531	372.900	367.632	369.843
73	355.342	359.448	366.052	367.927	369.670	367.051	358.297	347.851	342.797	344.784
74	329.569	333.798	341.064	343.755	345.620	342.736	333.319	323.689	318.390	320.571
75	303.939	308.760	315.985	319.032	320.601	317.942	308.831	298.732	293.667	295.705
76	278.962	283.303	290.600	294.248	296.184	293.779	284.669	275.089	270.004	272.165
77	253.526	257.979	265.592	269.800	271.400	269.199	260.792	251.294	246.362	248.471
78	229.394	233.531	241.368	245.006	246.270	244.222	236.823	227.651	222.872	224.778
79	205.639	209.390	217.022	220.426	222.036	219.978	213.873	204.488	199.617	202.022
80	182.476	186.165	192.850	196.335	198.098	195.907	190.730	181.620	177.370	179.225
81	160.026	163.633	168.769	172.183	174.751	171.674	166.894	159.068	154.543	156.754
82	137.840	141.376	145.239	148.805	151.058	148.510	143.496	137.106	132.806	134.803
83	116.175	119.456	122.371	125.428	128.526	125.795	120.251	115.441	111.752	113.352
84	95.550	98.753	100.177	103.029	106.341	103.487	98.335	94.767	91.469	92.855
85	75.675	77.928	78.818	80.697	84.451	81.515	76.360	73.633	71.336	71.412
86	56.931	58.080	58.777	59.982	63.532	60.137	55.712	53.283	52.223	51.396
87	38.295	38.722	38.895	39.326	42.344	39.173	35.161	33.301	32.993	31.624
88	20.984	21.088	20.609	20.593	22.447	19.753	17.280	15.894	15.959	14.507
89	5.584	5.609	5.587	4.930	6.119	4.331	3.488	2.412	2.432	1.935
90	0.165	0.251	0.333	0.335	0.000	0.075	0.065	0.020	0.051	0.031
91	0.000	0.165	0.166	0.250	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.084	0.164	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.083	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	0.083	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.002	0.083	0.167	0.168	0.083	0.166
106	0.000	0.000	0.000	0.000	0.089	0.084	0.336	0.169	0.168	0.168
107	0.084	0.084	0.168	0.086	0.253	0.084	0.254	0.251	0.086	0.168
108	0.085	0.085	0.169	0.168	0.336	0.247	0.416	0.335	0.329	0.332
109	0.168	0.166	0.252	0.179	0.339	0.252	0.420	0.419	0.336	0.254

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**CANDELA TABULATION - (Cont.)**

110	0.168	0.084	0.253	0.505	0.506	0.334	0.503	0.420	0.336	0.335
111	0.168	0.252	0.421	0.674	0.588	0.336	0.586	0.503	0.336	0.336
112	0.172	0.335	0.508	0.844	0.506	0.418	0.589	0.504	0.336	0.418
113	0.335	0.252	0.673	1.012	0.588	0.420	0.589	0.669	0.420	0.504
114	0.252	0.252	0.673	1.182	0.589	0.502	0.752	0.590	0.583	0.586
115	0.254	0.252	0.756	1.344	0.673	0.587	0.674	0.588	0.671	0.505
116	0.419	0.252	0.676	1.261	0.673	0.588	0.836	0.588	0.591	0.504
117	0.336	0.252	0.925	1.261	0.761	0.754	0.841	0.588	0.753	0.504
118	0.336	0.253	0.926	1.261	0.927	0.756	1.007	0.588	0.757	0.504
119	0.336	0.336	1.009	1.261	1.006	0.919	1.009	0.588	0.757	0.504
120	0.340	0.424	1.009	1.261	0.930	0.924	1.009	0.588	0.841	0.504
121	0.595	0.675	1.010	1.261	1.092	1.089	1.009	0.588	0.841	0.504
122	1.013	0.928	1.093	1.261	1.009	1.175	1.009	0.588	0.841	0.504
123	1.176	1.176	1.094	1.261	1.009	1.260	1.009	0.590	0.841	0.588
124	1.093	1.176	1.175	1.261	1.009	1.260	1.009	0.671	0.841	0.588
125	1.093	1.177	1.093	1.261	1.014	1.344	1.009	0.842	0.924	0.672
126	1.096	1.260	1.093	1.261	1.178	1.344	1.009	1.005	0.841	1.008
127	1.177	1.262	1.096	1.261	1.264	1.344	1.009	1.342	1.088	1.091
128	1.177	1.344	1.176	1.261	1.427	1.344	1.009	1.345	1.093	1.428
129	1.177	1.260	1.093	1.264	1.346	1.344	1.009	1.345	1.258	1.428
130	1.177	1.260	1.092	1.345	1.429	1.344	1.009	1.345	1.262	1.428
131	1.177	1.260	1.006	1.345	1.350	1.428	1.009	1.345	1.262	1.428
132	1.177	1.260	0.925	1.345	1.512	1.428	1.009	1.345	1.262	1.428
133	1.179	1.260	0.925	1.345	1.430	1.428	1.009	1.345	1.262	1.428
134	1.262	1.260	0.925	1.345	1.599	1.428	1.009	1.345	1.262	1.428
135	1.262	1.260	0.925	1.345	1.681	1.511	1.009	1.345	1.262	1.428
136	1.262	1.260	0.917	1.345	1.681	1.512	1.009	1.345	1.262	1.428
137	1.262	1.260	0.673	1.345	1.681	1.679	1.009	1.345	1.262	1.428
138	1.262	1.260	0.668	1.345	1.681	1.597	1.009	1.345	1.262	1.428
139	1.262	1.260	0.503	1.345	1.681	1.596	1.009	1.345	1.262	1.428
140	1.262	1.260	0.335	1.345	1.681	1.596	1.009	1.345	1.262	1.428
141	1.262	1.260	0.166	1.345	1.681	1.596	1.009	1.345	1.262	1.428
142	1.262	1.260	0.083	1.345	1.681	1.596	1.009	1.345	1.262	1.428
143	1.264	1.260	0.000	1.344	1.681	1.596	1.009	1.345	1.262	1.428
144	1.345	1.260	0.000	1.261	1.681	1.596	1.009	1.345	1.262	1.428
145	1.260	1.260	0.000	1.261	1.681	1.596	1.176	1.345	1.262	1.428
146	1.177	1.256	0.000	1.259	1.681	1.596	1.095	1.345	1.262	1.428
147	1.177	1.092	0.000	1.094	1.681	1.596	1.258	1.345	1.262	1.428
148	1.177	1.092	0.000	1.174	1.681	1.596	1.261	1.345	1.262	1.428
149	1.177	1.007	0.000	1.090	1.681	1.596	1.261	1.345	1.262	1.428
150	1.177	0.922	0.000	1.008	1.681	1.596	1.345	1.345	1.262	1.428
151	1.177	0.840	0.000	0.925	1.681	1.596	1.428	1.428	1.262	1.428
152	1.177	0.839	0.000	0.925	1.681	1.596	1.429	1.261	1.262	1.428
153	1.177	0.756	0.000	0.925	1.681	1.596	1.429	1.261	1.262	1.428
154	1.177	0.756	0.000	0.922	1.681	1.596	1.429	1.177	1.262	1.428
155	1.177	0.756	0.000	0.841	1.681	1.596	1.429	1.177	1.262	1.428
156	1.177	0.757	0.000	0.838	1.681	1.596	1.429	1.177	1.262	1.428
157	1.177	0.838	0.000	0.757	1.681	1.596	1.429	1.177	1.262	1.428
158	1.177	0.756	0.000	0.757	1.681	1.596	1.429	1.259	1.262	1.428
159	1.177	0.754	0.000	0.754	1.681	1.596	1.429	1.093	1.262	1.428
160	1.177	0.588	0.000	0.673	1.681	1.596	1.429	1.008	1.262	1.428
161	1.177	0.589	0.000	0.673	1.681	1.596	1.429	0.842	1.262	1.428
162	1.177	0.670	0.000	0.673	1.681	1.596	1.429	0.505	1.262	1.428
163	1.177	0.588	0.000	0.673	1.681	1.596	1.429	0.504	1.262	1.428
164	1.177	0.507	0.000	0.675	1.681	1.596	1.429	0.420	1.262	1.428
165	1.178	0.675	0.000	0.757	1.681	1.596	1.429	0.338	1.262	1.428

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_40W\_5000K.IES**

**CANDELA TABULATION - (Cont.)**

166	1.262	1.008	0.000	0.765	1.681	1.596	1.429	0.336	1.262	1.428
167	1.262	1.009	0.000	1.012	1.682	1.596	1.429	0.252	1.262	1.428
168	1.262	1.094	0.000	1.093	1.762	1.596	1.429	0.252	1.262	1.428
169	1.262	1.178	0.000	1.097	1.597	1.596	1.429	0.252	1.262	1.428
170	1.262	1.344	0.000	1.261	1.597	1.596	1.429	0.252	1.345	1.428
171	1.262	1.428	0.000	1.261	1.597	1.596	1.429	0.252	1.183	1.428
172	1.263	1.428	0.000	1.261	1.597	1.596	1.512	0.252	1.177	1.428
173	1.346	1.428	0.000	1.261	1.597	1.515	1.431	0.252	1.177	1.428
174	1.430	1.428	0.000	1.261	1.597	1.512	1.429	0.336	1.177	1.428
175	1.430	1.428	0.084	1.261	1.597	1.595	1.264	0.253	1.177	1.428
176	1.430	1.428	0.084	1.261	1.597	1.514	1.261	0.169	1.177	1.428
177	1.430	1.428	0.084	1.261	1.597	1.430	1.261	0.252	1.177	1.428
178	1.430	1.428	0.084	1.261	1.597	1.347	1.261	0.001	1.177	1.428
179	1.430	1.428	0.084	1.261	1.597	1.261	1.261	0.084	1.177	1.428
180	1.430	1.430	1.430	1.430	1.430	1.430	1.430	1.430	1.430	1.430

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1524.741	1524.741	1524.741	1524.741	1524.741	1524.741	1524.741
1	1524.843	1523.519	1524.028	1524.843	1525.455	1524.538	1523.926
2	1523.315	1523.621	1523.926	1523.926	1523.926	1522.907	1523.315
3	1522.500	1521.480	1522.703	1523.213	1522.805	1522.500	1522.398
4	1520.563	1519.238	1519.646	1521.073	1520.767	1521.175	1520.359
5	1517.710	1517.812	1518.016	1518.118	1518.219	1518.016	1519.035
6	1513.939	1514.551	1515.264	1515.366	1515.162	1515.977	1515.876
7	1511.697	1511.290	1511.494	1512.309	1512.614	1511.901	1512.105
8	1506.092	1507.621	1507.519	1508.334	1508.436	1508.436	1508.640
9	1502.831	1502.628	1503.035	1503.749	1503.647	1504.462	1504.054
10	1497.532	1497.940	1498.347	1498.449	1498.857	1498.755	1498.959
11	1492.335	1491.723	1492.743	1493.456	1493.456	1493.252	1493.456
12	1486.017	1486.017	1487.341	1488.055	1488.055	1487.851	1488.259
13	1479.596	1480.310	1479.902	1480.106	1481.125	1481.227	1481.635
14	1472.055	1472.667	1473.686	1473.890	1474.297	1475.316	1474.705
15	1464.718	1464.922	1466.247	1465.941	1467.266	1467.266	1467.469
16	1456.565	1456.973	1458.196	1459.011	1459.419	1459.113	1459.623
17	1448.005	1448.617	1449.330	1449.024	1450.858	1450.349	1451.674
18	1438.731	1439.139	1441.177	1441.177	1441.585	1441.585	1442.400
19	1429.662	1430.069	1431.598	1431.292	1432.719	1432.311	1432.821
20	1418.961	1419.980	1421.509	1421.203	1421.917	1421.713	1423.343
21	1408.159	1409.688	1411.318	1411.013	1412.032	1412.337	1413.458
22	1398.070	1398.988	1400.516	1400.516	1400.822	1401.026	1402.452
23	1385.536	1386.657	1388.593	1388.797	1389.612	1389.408	1390.733
24	1373.714	1375.549	1377.383	1376.670	1378.198	1378.402	1379.217
25	1361.995	1363.116	1364.339	1364.747	1365.460	1365.868	1366.275
26	1348.951	1349.970	1351.295	1351.091	1352.925	1352.823	1355.167
27	1335.703	1336.926	1337.639	1338.862	1339.372	1339.270	1340.187
28	1322.047	1322.353	1324.391	1325.206	1325.716	1325.920	1326.531
29	1307.169	1309.003	1311.347	1310.532	1312.468	1312.264	1312.570
30	1293.004	1295.653	1296.672	1296.672	1297.284	1298.099	1297.589
31	1277.106	1278.737	1280.469	1282.201	1281.692	1281.998	1283.730
32	1262.228	1263.960	1265.489	1265.998	1267.221	1266.915	1267.731
33	1246.228	1247.960	1249.489	1249.999	1250.712	1251.120	1251.527
34	1229.923	1231.961	1233.490	1233.795	1234.814	1234.509	1235.018
35	1213.210	1215.044	1216.471	1217.388	1218.815	1218.713	1218.407
36	1195.988	1197.312	1198.535	1200.166	1201.491	1200.981	1202.000

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_40W\_5000K.IES

## CANDELA TABULATION - (Cont.)

37	1177.746	1180.192	1182.026	1182.740	1184.064	1184.472	1184.574
38	1159.708	1161.441	1163.785	1164.702	1165.619	1166.944	1166.231
39	1142.384	1144.117	1145.340	1146.868	1147.683	1147.785	1148.906
40	1122.716	1125.060	1126.487	1128.525	1129.340	1129.034	1129.646
41	1103.354	1105.290	1108.245	1109.264	1109.876	1110.589	1111.404
42	1083.991	1086.743	1088.679	1089.902	1090.309	1090.513	1091.328
43	1064.323	1067.176	1068.501	1070.030	1071.355	1071.558	1071.966
44	1044.451	1046.285	1048.527	1049.954	1050.871	1050.565	1051.890
45	1023.764	1026.413	1026.923	1029.471	1030.286	1030.999	1030.999
46	1002.995	1005.217	1006.704	1008.620	1009.996	1009.293	1009.415
47	981.024	983.734	985.691	987.974	988.657	987.913	988.942
48	960.153	963.302	964.331	965.707	967.236	966.532	966.787
49	938.192	941.504	941.361	944.235	945.815	944.082	945.407
50	916.119	918.707	920.001	922.315	923.711	922.580	923.222
51	893.240	897.307	897.684	899.650	901.913	900.211	901.179
52	870.688	873.633	874.775	877.272	879.065	878.321	878.444
53	847.657	851.081	852.386	854.414	855.902	854.882	855.637
54	824.555	827.581	828.193	831.118	832.687	832.157	831.760
55	800.566	804.153	805.396	807.597	808.800	808.301	808.229
56	777.280	781.224	781.407	784.475	785.259	784.587	784.342
57	753.056	756.430	757.622	759.894	761.372	760.913	760.455
58	728.670	732.512	733.083	735.865	737.454	736.466	736.466
59	704.569	708.849	709.654	711.835	713.078	711.906	711.498
60	679.938	684.411	685.318	687.306	689.038	687.876	687.204
61	654.705	659.943	660.045	663.021	664.183	662.654	662.481
62	629.718	634.793	635.689	638.410	639.419	638.329	637.697
63	604.455	609.948	610.905	613.341	615.267	613.209	612.730
64	579.263	585.439	586.478	589.077	590.076	588.119	587.202
65	553.929	560.777	561.389	564.252	565.139	562.673	561.755
66	528.585	535.514	536.207	539.010	539.244	537.410	536.014
67	503.811	510.598	511.118	513.849	514.236	511.586	510.211
68	478.171	485.539	486.222	488.637	489.146	485.946	484.143
69	453.112	460.408	461.295	464.057	463.537	460.092	458.442
70	427.951	435.737	436.715	439.018	438.896	434.514	432.802
71	402.963	410.698	411.493	413.541	412.807	409.027	406.795
72	377.914	385.894	386.576	388.482	387.646	382.999	380.676
73	353.079	361.497	361.762	363.566	362.414	357.461	355.342
74	328.520	336.774	336.856	339.026	337.508	331.882	329.569
75	303.960	312.112	312.214	314.303	312.673	306.579	303.939
76	280.378	287.644	287.227	289.438	287.206	281.336	278.962
77	256.094	262.779	261.444	264.583	262.351	256.654	253.526
78	232.278	238.097	236.731	239.473	237.822	232.033	229.394
79	209.002	213.445	212.141	214.984	213.547	208.126	205.639
80	185.696	189.844	188.376	190.333	189.120	185.380	182.476
81	162.043	165.844	165.213	166.599	165.274	162.420	160.026
82	138.523	142.609	141.835	142.915	141.835	140.225	137.840
83	115.696	119.711	119.426	119.966	118.620	118.417	116.175
84	93.858	97.954	97.210	97.766	96.673	97.475	95.550
85	72.133	75.905	75.930	75.696	75.253	76.545	75.675
86	51.814	55.173	55.478	55.082	55.188	56.429	56.931
87	31.601	34.208	35.016	34.800	35.591	37.128	38.295
88	14.609	15.992	16.309	16.611	17.714	19.551	20.984
89	2.005	2.299	1.590	2.307	3.217	4.254	5.584
90	0.042	0.041	0.270	0.250	0.418	0.168	0.165
91	0.000	0.000	0.169	0.084	0.251	0.000	0.000
92	0.000	0.000	0.003	0.082	0.167	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_40W\_5000K.IES**

**CANDELA TABULATION - (Cont.)**

93	0.000	0.000	0.000	0.000	0.084	0.000	0.000
94	0.000	0.000	0.000	0.000	0.082	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	0.084	0.000	0.000
97	0.000	0.000	0.000	0.000	0.084	0.000	0.000
98	0.000	0.000	0.000	0.000	0.084	0.000	0.000
99	0.000	0.000	0.000	0.000	0.084	0.084	0.000
100	0.000	0.000	0.000	0.000	0.084	0.084	0.000
101	0.000	0.000	0.000	0.000	0.084	0.084	0.000
102	0.000	0.000	0.000	0.000	0.084	0.084	0.000
103	0.083	0.000	0.000	0.000	0.084	0.084	0.000
104	0.084	0.165	0.000	0.000	0.084	0.084	0.000
105	0.250	0.251	0.000	0.002	0.084	0.084	0.000
106	0.169	0.336	0.000	0.084	0.084	0.084	0.000
107	0.415	0.419	0.082	0.086	0.085	0.084	0.084
108	0.420	0.420	0.166	0.170	0.168	0.084	0.085
109	0.502	0.502	0.252	0.338	0.171	0.084	0.168
110	0.587	0.587	0.415	0.420	0.252	0.084	0.168
111	0.589	0.588	0.338	0.505	0.252	0.084	0.168
112	0.671	0.588	0.502	0.675	0.254	0.084	0.172
113	0.673	0.673	0.669	0.840	0.339	0.084	0.335
114	0.673	0.754	1.008	0.840	0.504	0.084	0.252
115	0.673	0.839	1.009	1.008	0.504	0.084	0.254
116	0.836	0.922	1.091	1.009	0.504	0.084	0.419
117	0.841	0.925	1.093	1.092	0.504	0.084	0.336
118	0.841	0.925	1.175	1.092	0.506	0.084	0.336
119	0.841	1.006	1.177	1.092	0.675	0.084	0.336
120	0.841	1.093	1.177	1.094	0.758	0.337	0.340
121	0.841	1.093	1.177	1.259	0.842	0.756	0.595
122	0.841	1.175	1.177	1.176	0.927	0.926	1.013
123	0.841	1.177	1.177	1.176	1.008	1.009	1.176
124	0.841	1.177	1.177	1.176	0.925	1.093	1.093
125	0.841	1.177	1.177	1.176	0.925	1.093	1.093
126	0.841	1.177	1.177	1.176	0.925	1.093	1.096
127	0.841	1.177	1.177	1.176	0.925	1.096	1.177
128	0.841	1.177	1.177	1.176	0.925	1.260	1.177
129	0.841	1.177	1.177	1.176	0.925	1.177	1.177
130	0.841	1.177	1.177	1.176	0.925	1.177	1.177
131	0.841	1.177	1.177	1.176	0.925	1.177	1.177
132	0.841	1.177	1.177	1.176	0.925	1.177	1.177
133	0.841	1.177	1.177	1.176	0.925	1.177	1.179
134	0.841	1.177	1.177	1.176	0.925	1.177	1.262
135	0.841	1.177	1.177	1.176	0.924	1.177	1.262
136	0.841	1.177	1.177	1.176	0.836	1.177	1.262
137	0.841	1.177	1.177	1.176	0.673	1.177	1.262
138	0.841	1.177	1.177	1.176	0.669	1.177	1.262
139	0.841	1.177	1.177	1.176	0.504	1.177	1.262
140	0.841	1.177	1.177	1.176	0.420	1.177	1.262
141	0.841	1.177	1.261	1.176	0.415	1.177	1.262
142	0.924	1.177	1.178	1.176	0.251	1.177	1.262
143	0.925	1.177	1.344	1.176	0.168	1.177	1.264
144	0.925	1.177	1.263	1.176	0.168	1.177	1.345
145	0.925	1.177	1.261	1.178	0.082	1.177	1.260
146	1.007	1.177	1.261	1.255	0.000	1.177	1.177
147	1.009	1.177	1.261	1.092	0.000	1.177	1.177
148	1.093	1.177	1.261	1.087	0.000	1.094	1.177

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

149	1.093	1.177	1.261	0.926	0.000	1.009	1.177
150	1.260	1.177	1.261	1.004	0.000	1.007	1.177
151	1.343	1.177	1.261	0.839	0.000	0.925	1.177
152	1.428	1.177	1.261	0.756	0.000	0.925	1.177
153	1.429	1.177	1.345	0.756	0.000	1.007	1.177
154	1.429	1.094	1.181	0.756	0.000	0.925	1.177
155	1.429	1.010	1.093	0.758	0.000	0.841	1.177
156	1.429	1.009	1.093	0.839	0.000	0.841	1.177
157	1.429	0.762	1.093	0.754	0.000	0.841	1.177
158	1.429	0.593	0.928	0.672	0.000	0.841	1.177
159	1.429	0.506	0.925	0.671	0.000	0.841	1.177
160	1.429	0.338	0.925	0.588	0.000	0.842	1.177
161	1.429	0.336	0.925	0.588	0.000	0.924	1.177
162	1.429	0.254	0.925	0.588	0.000	0.757	1.177
163	1.429	0.252	0.925	0.588	0.000	0.757	1.177
164	1.429	0.252	1.008	0.588	0.000	0.757	1.177
165	1.429	0.252	1.009	0.590	0.000	0.757	1.178
166	1.429	0.252	1.009	0.758	0.000	0.841	1.262
167	1.429	0.252	1.091	0.842	0.000	0.925	1.262
168	1.429	0.252	1.261	1.011	0.000	1.259	1.262
169	1.429	0.252	1.261	1.094	0.000	1.177	1.262
170	1.429	0.252	1.261	1.176	0.000	1.177	1.262
171	1.429	0.252	1.261	1.176	0.000	1.177	1.262
172	1.429	0.252	1.261	1.176	0.000	1.177	1.263
173	1.429	0.170	1.261	1.176	0.000	1.177	1.346
174	1.429	0.168	1.261	1.176	0.000	1.177	1.430
175	1.429	0.168	1.261	1.176	0.000	1.177	1.430
176	1.429	0.168	1.261	1.176	0.000	1.177	1.430
177	1.429	0.168	1.261	1.176	0.000	1.177	1.430
178	1.429	0.087	1.261	1.177	0.000	1.177	1.430
179	1.429	0.084	1.261	1.263	0.000	1.177	1.430
180	1.430	1.430	1.430	1.430	1.430	1.430	1.430



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_40W\_5000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	558.11	N.A.	12.60
0-30	1186.93	N.A.	26.80
0-40	1947.93	N.A.	43.90
0-60	3460.6	N.A.	78.10
0-80	4341.42	N.A.	97.90
0-90	4429.34	N.A.	99.90
10-90	4285.06	N.A.	96.70
20-40	1389.82	N.A.	31.30
20-50	2182.59	N.A.	49.20
40-70	2066.87	N.A.	46.60
60-80	880.82	N.A.	19.90
70-80	326.62	N.A.	7.40
80-90	87.93	N.A.	2.00
90-110	0.14	N.A.	0.00
90-120	0.76	N.A.	0.00
90-130	1.71	N.A.	0.00
90-150	3.34	N.A.	0.10
90-180	4.19	N.A.	0.10
110-180	4.04	N.A.	0.10
0-180	4433.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	144.29
10-20	413.83
20-30	628.82
30-40	761.00
40-50	792.77
50-60	719.90
60-70	554.20
70-80	326.62
80-90	87.93
90-100	0.02
100-110	0.12
110-120	0.61
120-130	0.95
130-140	0.93
140-150	0.71
150-160	0.48
160-170	0.27
170-180	0.10

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_40W\_5000K.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

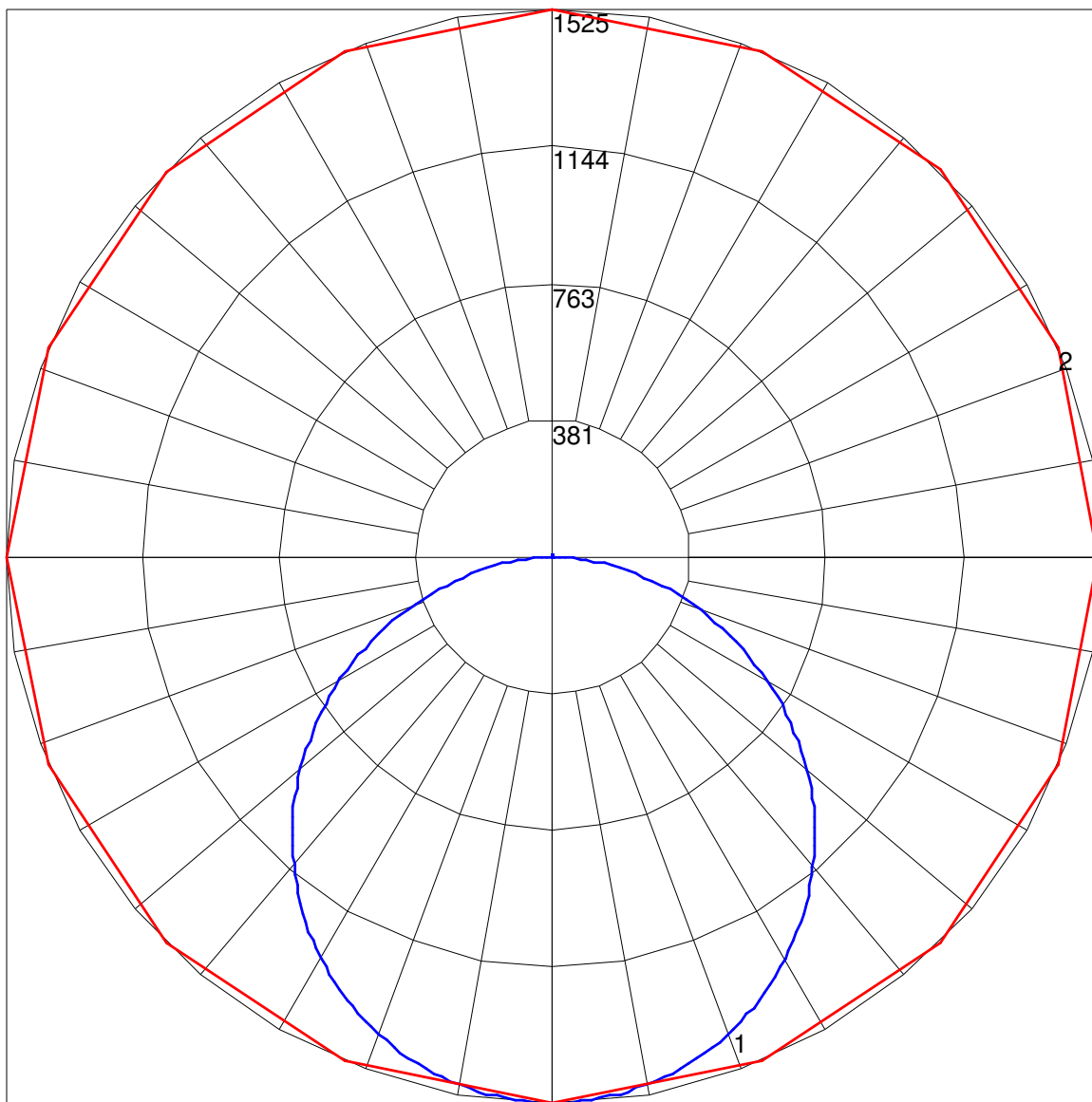
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_40W\_5000K.IES**

**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	17.7	19.3	18.0	19.6	19.9	17.7	19.3	18.0	19.6	19.9
	3H	19.5	21.0	19.9	21.3	21.7	19.6	21.1	19.9	21.4	21.7
	4H	20.2	21.6	20.6	22.0	22.3	20.3	21.7	20.7	22.1	22.4
	6H	20.7	22.0	21.1	22.4	22.8	20.9	22.2	21.3	22.5	22.9
	8H	20.9	22.1	21.3	22.5	22.9	21.1	22.3	21.5	22.7	23.1
	12H	21.0	22.2	21.4	22.5	23.0	21.2	22.4	21.6	22.7	23.2
4H	2H	18.3	19.7	18.7	20.1	20.4	18.3	19.7	18.7	20.1	20.5
	3H	20.4	21.6	20.8	22.0	22.4	20.4	21.6	20.8	22.0	22.4
	4H	21.2	22.3	21.6	22.7	23.1	21.3	22.4	21.7	22.8	23.2
	6H	21.8	22.8	22.3	23.2	23.7	22.0	23.0	22.5	23.4	23.8
	8H	22.1	22.9	22.5	23.4	23.8	22.3	23.1	22.7	23.6	24.0
	12H	22.2	23.0	22.7	23.5	23.9	22.4	23.2	22.9	23.7	24.2
8H	4H	21.6	22.4	22.0	22.9	23.3	21.7	22.5	22.1	23.0	23.4
	6H	22.3	23.0	22.8	23.5	24.0	22.5	23.2	22.9	23.7	24.2
	8H	22.6	23.3	23.1	23.8	24.2	22.8	23.4	23.3	23.9	24.4
	12H	22.8	23.4	23.3	23.9	24.4	23.0	23.6	23.5	24.1	24.7
12H	4H	21.6	22.4	22.1	22.9	23.3	21.7	22.5	22.2	22.9	23.4
	6H	22.4	23.1	22.9	23.5	24.1	22.5	23.2	23.1	23.7	24.2
	8H	22.7	23.3	23.2	23.8	24.4	22.9	23.5	23.4	24.0	24.5

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 1525.455 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.)