



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_40W_5000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] JBE210303-D
[TESTLAB] STANDARD-TECH TESTING SERVICES
[TESTDATE] 15 March 2021
[ISSUEDATE] 2023-02-02
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO
[LUMCAT] BP-14-LS-8CS-DIM-UNV_40W_5000K
[OTHER] Input Voltage=120.1 PF=0.9933 THD=8.50

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	40
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)	1.15 m
Luminous Width (90-270)	0.23 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5421	5372	5379
55	5285	5225	5219
65	5081	5002	4979
75	4737	4663	4610
85	4074	3936	3972

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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	1494.733	1494.733	1494.733	1494.733	1494.733	1494.733	1494.733	1494.733	1494.733	1494.733
1	1494.545	1494.451	1493.604	1493.133	1494.074	1495.110	1494.922	1495.298	1494.545	1494.545
2	1494.263	1493.886	1493.039	1492.380	1493.039	1493.792	1493.415	1493.792	1493.792	1493.510
3	1493.321	1492.945	1492.662	1492.003	1492.474	1492.192	1491.627	1492.380	1492.474	1491.533
4	1491.909	1489.933	1490.121	1489.556	1490.027	1489.368	1489.556	1490.591	1491.627	1490.497
5	1488.897	1489.462	1488.050	1488.615	1488.050	1488.050	1485.885	1487.862	1488.144	1488.050
6	1486.638	1484.473	1485.414	1483.720	1484.755	1484.190	1483.626	1484.661	1484.943	1484.096
7	1484.285	1482.873	1482.308	1480.896	1481.461	1481.084	1479.766	1481.366	1482.402	1482.308
8	1478.919	1478.166	1477.319	1477.978	1478.448	1477.319	1475.342	1477.789	1479.013	1478.354
9	1476.095	1474.495	1474.495	1472.236	1474.118	1472.424	1471.200	1472.989	1474.212	1473.742
10	1470.635	1469.223	1469.506	1467.529	1469.035	1467.623	1466.117	1467.811	1469.506	1469.506
11	1464.799	1465.364	1462.916	1462.728	1463.293	1462.916	1461.034	1462.258	1463.858	1463.199
12	1460.657	1458.869	1458.398	1456.233	1456.986	1456.421	1454.633	1456.421	1458.304	1458.775
13	1453.691	1451.997	1452.091	1450.114	1451.715	1448.514	1448.420	1450.397	1452.750	1451.621
14	1447.573	1447.008	1444.184	1443.619	1443.713	1442.019	1441.642	1443.431	1445.125	1445.502
15	1440.419	1439.289	1437.218	1435.430	1437.218	1435.147	1434.018	1436.183	1437.595	1437.877
16	1432.794	1431.759	1429.876	1428.935	1428.652	1427.146	1426.487	1427.617	1430.347	1429.876
17	1424.322	1423.945	1421.592	1419.239	1420.839	1418.486	1418.392	1420.463	1422.345	1421.498
18	1416.227	1414.909	1413.026	1410.390	1412.179	1410.485	1409.261	1410.485	1413.591	1413.309
19	1407.284	1405.307	1403.801	1402.483	1402.766	1399.471	1399.283	1401.730	1404.083	1404.178
20	1398.436	1396.553	1393.541	1392.693	1393.374	1391.187	1390.999	1391.752	1394.764	1394.388
21	1388.457	1385.257	1384.033	1383.374	1383.468	1379.986	1381.021	1381.680	1384.504	1383.751
22	1378.197	1376.503	1372.737	1371.608	1373.208	1370.290	1369.631	1371.137	1373.773	1374.432
23	1366.430	1364.359	1361.347	1360.688	1361.630	1358.429	1359.559	1359.559	1362.477	1362.383
24	1356.546	1352.781	1349.298	1349.392	1349.769	1347.321	1347.416	1348.639	1350.616	1350.899
25	1343.274	1341.862	1337.249	1337.249	1338.379	1335.084	1336.026	1336.590	1339.414	1339.132
26	1331.978	1330.095	1325.671	1324.259	1325.859	1322.847	1323.694	1324.541	1325.953	1326.801
27	1318.705	1315.975	1311.551	1312.398	1312.210	1310.139	1310.610	1311.551	1314.187	1314.281
28	1306.656	1303.361	1299.031	1298.749	1299.879	1297.149	1297.431	1297.808	1299.126	1300.255
29	1292.913	1289.524	1285.194	1284.817	1285.947	1283.217	1283.782	1284.629	1287.077	1287.077
30	1278.605	1275.498	1270.509	1270.792	1272.204	1268.815	1269.756	1269.191	1271.733	1273.616
31	1264.296	1261.002	1255.730	1257.331	1257.048	1255.166	1255.166	1255.166	1258.084	1257.425
32	1249.706	1245.941	1241.705	1240.198	1242.740	1239.351	1240.010	1239.916	1242.552	1242.740
33	1234.080	1231.538	1225.514	1226.549	1227.114	1224.384	1225.514	1224.008	1226.832	1228.997
34	1218.736	1215.912	1209.323	1209.794	1211.206	1208.099	1208.382	1208.758	1211.582	1211.676
35	1203.016	1198.968	1193.603	1193.414	1195.015	1192.003	1191.908	1191.720	1195.485	1195.674
36	1186.449	1183.060	1177.130	1177.224	1178.730	1175.247	1175.247	1176.188	1178.071	1179.012
37	1170.070	1165.551	1159.150	1160.186	1160.562	1158.585	1158.209	1157.926	1161.692	1162.257
38	1152.843	1148.043	1142.677	1142.018	1144.371	1141.171	1141.547	1140.606	1143.524	1144.371
39	1134.958	1130.440	1125.451	1125.827	1126.392	1123.662	1122.250	1123.003	1126.110	1127.145
40	1116.790	1112.366	1107.377	1107.471	1107.189	1104.647	1104.177	1104.177	1107.660	1109.354
41	1097.399	1094.858	1088.174	1088.362	1089.021	1086.668	1085.350	1086.197	1089.586	1090.433
42	1079.420	1074.901	1069.442	1069.818	1070.289	1068.406	1066.806	1066.618	1070.007	1071.795
43	1060.405	1056.451	1051.651	1051.462	1051.839	1048.733	1047.415	1048.168	1051.274	1052.215
44	1041.296	1036.684	1031.789	1031.506	1030.753	1029.341	1028.306	1028.117	1032.353	1033.201
45	1020.399	1016.445	1011.268	1011.268	1012.491	1009.103	1008.161	1008.444	1011.738	1012.586
46	1001.101	995.359	991.123	991.688	991.217	989.052	987.923	987.829	991.217	992.818
47	979.922	975.591	971.355	970.885	970.979	968.249	967.873	967.590	971.544	972.014
48	959.212	954.976	949.517	949.611	950.176	948.199	947.069	946.222	950.364	952.341
49	938.437	933.335	928.986	929.730	929.231	926.680	925.645	925.437	928.845	929.937
50	917.314	912.080	908.174	908.578	907.308	905.284	903.881	904.041	907.759	908.390
51	895.983	890.674	885.469	886.382	886.372	883.699	882.635	882.108	885.695	886.909
52	873.231	869.410	864.534	864.920	864.138	860.392	860.608	859.441	863.809	864.637
53	851.600	846.808	842.582	842.507	841.951	838.911	837.932	838.459	841.678	842.723

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CANDELA TABULATION - (Cont.)

54	828.726	824.697	820.301	820.696	819.331	816.611	815.735	815.500	819.105	820.141
55	807.000	802.359	797.878	797.586	796.871	793.125	792.579	793.040	796.636	797.361
56	783.918	779.607	774.317	774.675	773.225	770.843	769.620	769.704	773.319	773.865
57	761.232	756.620	752.356	752.393	750.746	747.621	745.644	746.567	750.360	750.737
58	738.330	733.435	728.681	729.321	727.241	724.106	722.572	723.391	727.147	727.514
59	715.117	709.921	705.543	705.214	703.887	700.489	698.371	699.952	703.275	703.708
60	691.301	686.566	682.472	682.217	680.674	676.560	674.790	676.381	680.071	681.125
61	667.617	662.544	658.920	658.421	656.340	653.375	650.796	652.603	656.256	656.905
62	644.094	638.690	635.556	634.445	632.534	629.117	626.651	628.138	632.977	633.523
63	620.015	613.990	610.978	610.959	608.577	605.462	602.666	604.661	607.721	608.794
64	595.540	590.306	586.484	587.059	584.498	581.251	578.493	580.196	584.141	584.903
65	571.668	566.331	562.735	562.659	560.165	557.162	554.404	556.268	560.476	560.447
66	546.939	541.706	538.223	537.968	535.860	533.196	530.099	531.727	535.709	535.775
67	523.039	517.109	514.143	513.635	511.903	508.928	506.189	507.648	511.903	511.781
68	498.442	493.237	489.528	489.471	486.901	484.256	481.329	483.710	487.297	487.382
69	473.713	468.819	465.307	465.138	462.869	460.177	456.901	458.822	462.888	462.822
70	448.928	444.617	441.125	440.598	438.301	435.759	432.850	434.507	438.517	438.451
71	424.463	419.766	416.942	416.547	414.099	412.066	409.035	410.164	414.043	414.730
72	399.697	394.943	393.155	391.987	389.728	387.450	385.088	386.499	389.022	389.992
73	375.467	370.732	368.765	367.965	365.386	363.418	361.102	361.724	364.877	365.000
74	351.219	346.314	345.363	343.744	341.843	339.659	337.296	337.692	340.855	341.203
75	326.358	322.621	321.313	319.788	317.623	315.985	313.660	313.274	316.710	316.644
76	303.051	298.561	297.459	295.831	294.409	292.837	290.239	289.675	292.677	293.054
77	278.350	275.056	273.352	271.959	271.328	269.624	267.403	266.028	268.278	269.125
78	254.827	251.419	250.337	248.303	247.691	246.279	243.841	242.476	244.641	245.423
79	231.661	227.999	226.615	225.391	224.996	223.452	220.892	219.197	221.315	221.918
80	208.024	204.852	203.345	202.188	201.689	200.418	197.660	195.975	198.178	198.761
81	184.914	181.817	180.076	179.257	179.568	178.052	175.012	173.383	175.397	176.028
82	161.579	159.000	157.192	156.609	156.976	155.714	152.326	150.424	152.533	153.022
83	138.818	136.483	135.269	134.261	135.269	133.555	129.809	128.133	129.950	130.590
84	116.197	114.126	113.458	111.961	113.533	111.670	107.951	106.248	107.857	108.328
85	94.519	92.455	91.328	90.727	92.168	89.979	86.293	84.261	85.507	86.121
86	72.883	71.367	70.230	69.646	71.065	68.803	65.145	63.213	64.186	64.797
87	51.486	50.095	49.150	48.673	50.102	47.870	43.808	42.413	42.991	44.216
88	30.936	29.968	28.614	27.248	26.945	24.695	23.430	22.465	22.833	23.896
89	11.949	10.917	7.378	2.404	1.473	1.233	1.957	4.294	5.140	5.278
90	1.318	0.938	0.427	0.267	0.000	0.000	0.000	0.310	0.465	0.077
91	1.083	0.621	0.155	0.003	0.000	0.000	0.000	0.310	0.465	0.000
92	0.931	0.620	0.078	0.000	0.000	0.000	0.000	0.310	0.465	0.000
93	1.007	0.544	0.077	0.000	0.000	0.000	0.000	0.310	0.543	0.000
94	0.930	0.543	0.000	0.000	0.000	0.000	0.000	0.388	0.543	0.000
95	0.930	0.543	0.000	0.000	0.000	0.000	0.000	0.312	0.543	0.000
96	0.930	0.543	0.000	0.000	0.000	0.000	0.000	0.465	0.620	0.078
97	0.930	0.543	0.000	0.000	0.000	0.000	0.000	0.466	0.622	0.154
98	0.930	0.543	0.000	0.000	0.000	0.000	0.000	0.466	0.853	0.079
99	0.930	0.543	0.000	0.000	0.000	0.000	0.000	0.466	0.853	0.155
100	1.008	0.543	0.000	0.000	0.000	0.000	0.000	0.542	1.005	0.155
101	1.162	0.543	0.000	0.000	0.000	0.000	0.078	0.620	1.008	0.233
102	1.086	0.543	0.000	0.000	0.000	0.000	0.156	0.698	1.162	0.388
103	1.086	0.543	0.000	0.000	0.000	0.077	0.233	0.851	1.315	0.464
104	1.162	0.543	0.000	0.000	0.000	0.001	0.314	0.853	1.240	0.389
105	1.085	0.543	0.000	0.000	0.078	0.077	0.390	0.853	1.240	0.465
106	1.238	0.543	0.000	0.000	0.001	0.078	0.468	0.853	1.240	0.619
107	1.163	0.619	0.000	0.000	0.081	0.156	0.469	0.853	1.240	0.620
108	1.163	0.700	0.000	0.000	0.158	0.079	0.546	0.853	1.240	0.620
109	1.163	0.853	0.000	0.000	0.233	0.079	0.546	0.853	1.240	0.620

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CANDELA TABULATION - (Cont.)

110	1.163	1.008	0.000	0.000	0.157	0.159	0.549	0.853	1.163	0.620
111	1.163	0.931	0.078	0.000	0.157	0.314	0.702	0.853	1.240	0.620
112	1.163	0.931	0.078	0.000	0.159	0.237	0.627	0.853	1.085	0.620
113	1.239	0.931	0.078	0.000	0.234	0.391	0.781	0.853	1.008	0.620
114	1.086	0.931	0.155	0.000	0.158	0.392	0.782	0.853	1.008	0.620
115	0.853	0.931	0.312	0.000	0.237	0.548	0.938	0.853	1.008	0.620
116	0.853	0.931	0.465	0.000	0.314	0.471	1.015	0.853	1.008	0.620
117	0.542	0.777	0.390	0.000	0.314	0.628	0.938	0.853	1.008	0.620
118	0.389	0.776	0.544	0.000	0.392	0.628	0.937	0.853	1.084	0.620
119	0.078	0.776	0.701	0.000	0.392	0.784	0.937	0.853	0.776	0.620
120	0.000	0.776	0.777	0.002	0.394	0.707	0.937	0.853	0.392	0.620
121	0.000	0.776	0.704	0.154	0.549	0.863	0.937	0.853	0.232	0.620
122	0.000	0.853	0.934	0.079	0.549	0.785	0.937	0.853	0.078	0.622
123	0.000	0.932	0.934	0.159	0.549	0.785	0.937	0.853	0.078	0.775
124	0.000	1.008	1.090	0.312	0.549	0.785	0.937	0.931	0.000	0.776
125	0.000	1.008	1.090	0.313	0.550	0.785	0.937	0.931	0.000	0.852
126	0.000	1.085	1.090	0.391	0.629	0.785	0.937	1.163	0.000	1.008
127	0.000	1.086	1.245	0.470	0.708	0.785	1.015	1.241	0.000	1.088
128	0.000	1.086	1.245	0.393	0.783	0.785	1.015	1.241	0.000	1.240
129	0.000	1.086	1.245	0.392	0.706	0.785	1.017	1.474	0.000	1.317
130	0.000	1.086	1.245	0.392	0.706	0.785	1.170	1.474	0.000	1.241
131	0.000	1.086	1.245	0.392	0.706	0.785	1.093	1.705	0.000	1.241
132	0.000	1.086	1.323	0.392	0.706	0.785	1.173	1.863	0.000	1.315
133	0.000	1.086	1.323	0.392	0.706	0.785	1.328	1.940	0.000	1.163
134	0.000	1.086	1.323	0.392	0.706	0.785	1.406	2.018	0.000	1.163
135	0.000	1.086	1.323	0.392	0.706	0.862	1.482	2.170	0.076	1.163
136	0.000	1.086	1.323	0.392	0.707	0.785	1.405	2.172	0.000	1.163
137	0.000	1.086	1.323	0.392	0.785	0.939	1.405	2.172	0.000	1.163
138	0.000	1.086	1.323	0.392	0.861	1.019	1.405	2.172	0.076	1.163
139	0.000	1.086	1.322	0.393	0.786	1.020	1.405	2.328	0.001	1.163
140	0.000	1.086	1.245	0.547	0.863	1.020	1.405	2.328	0.230	1.163
141	0.000	1.086	1.245	0.548	0.942	1.177	1.405	2.405	0.232	1.163
142	0.000	1.086	1.245	0.549	1.019	1.177	1.405	2.405	0.157	1.163
143	0.000	1.086	1.245	0.704	0.941	1.177	1.405	2.482	0.308	1.163
144	0.000	1.086	1.245	0.627	0.941	1.177	1.484	2.483	0.310	1.163
145	0.000	1.086	1.245	0.781	0.942	1.177	1.563	2.483	0.386	1.163
146	0.000	1.086	1.245	0.939	1.020	1.255	1.640	2.561	0.388	1.163
147	0.000	1.086	1.245	0.862	1.098	1.255	1.717	2.637	0.465	1.163
148	0.000	1.086	1.245	0.940	1.098	1.255	1.795	2.638	0.465	1.163
149	0.000	1.086	1.245	0.940	1.098	1.255	1.795	2.638	0.542	1.163
150	0.000	1.086	1.245	1.018	1.098	1.255	1.795	2.638	0.466	1.163
151	0.000	1.086	1.245	1.018	1.098	1.255	1.795	2.637	0.620	1.236
152	0.000	1.086	1.245	1.018	1.098	1.255	1.795	2.561	0.544	0.856
153	0.000	1.086	1.246	1.019	1.099	1.255	1.795	2.560	0.697	0.698
154	0.000	1.086	1.480	1.096	1.176	1.255	1.795	2.560	0.775	0.464
155	0.000	1.086	1.557	1.097	1.176	1.255	1.795	2.560	0.928	0.312
156	0.000	1.086	1.482	1.097	1.178	1.255	1.795	2.560	1.009	0.233
157	0.000	1.086	1.634	1.174	1.255	1.255	1.795	2.560	1.161	0.233
158	0.000	1.086	1.558	1.175	1.255	1.255	1.795	2.560	1.395	0.233
159	0.000	1.086	1.712	1.175	1.255	1.255	1.795	2.558	1.473	0.233
160	0.000	1.086	1.635	1.175	1.255	1.255	1.795	2.176	1.549	0.233
161	0.000	1.162	1.635	1.175	1.333	1.255	1.795	2.171	1.629	0.233
162	0.000	1.163	1.712	1.175	1.333	1.255	1.795	2.096	1.704	0.233
163	0.000	1.240	1.713	1.175	1.333	1.255	1.795	2.095	1.782	0.233
164	0.000	1.164	1.790	1.175	1.333	1.255	1.795	2.095	1.784	0.233
165	0.000	1.163	2.181	1.175	1.333	1.255	1.796	2.172	1.937	0.233

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CANDELA TABULATION - (Cont.)

166	0.000	1.163	2.334	1.175	1.335	1.334	1.875	2.250	1.860	0.233
167	0.000	1.165	2.257	1.175	1.569	1.411	1.951	2.250	1.860	0.233
168	0.078	1.318	2.257	1.254	1.646	1.490	2.030	2.712	1.860	0.233
169	0.078	1.242	2.257	1.410	1.568	1.491	1.952	2.716	1.860	0.233
170	0.078	1.242	2.411	1.410	1.568	1.491	1.952	2.716	1.860	0.233
171	0.078	1.318	2.336	1.410	1.568	1.491	1.952	2.716	1.860	0.233
172	0.078	1.396	2.491	1.488	1.568	1.491	1.952	2.716	1.860	0.233
173	0.078	1.320	2.413	1.488	1.568	1.491	1.952	2.716	1.860	0.233
174	0.078	1.318	2.413	1.488	1.568	1.491	1.952	2.716	1.860	0.232
175	0.078	1.318	2.413	1.488	1.568	1.491	1.952	2.716	1.860	0.156
176	0.078	1.318	2.413	1.488	1.568	1.491	1.952	2.716	1.860	0.232
177	0.078	1.318	2.413	1.488	1.568	1.491	1.952	2.716	1.860	0.155
178	0.078	1.318	2.413	1.488	1.568	1.491	1.952	2.638	1.860	0.078
179	0.078	1.318	2.491	1.488	1.568	1.491	1.952	2.638	1.860	0.078
180	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077

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	1494.733	1494.733	1494.733	1494.733	1494.733	1494.733	1494.733
1	1493.039	1495.486	1493.792	1496.428	1495.298	1495.675	1494.545
2	1494.074	1493.886	1493.510	1493.980	1495.204	1494.922	1494.263
3	1492.851	1493.321	1492.757	1494.827	1494.545	1494.263	1493.321
4	1490.780	1491.815	1491.062	1493.133	1494.074	1492.474	1491.909
5	1487.956	1488.238	1487.956	1490.027	1491.062	1490.309	1488.897
6	1485.508	1486.167	1485.791	1488.709	1489.085	1487.767	1486.638
7	1480.990	1482.873	1482.214	1485.132	1486.638	1484.567	1484.285
8	1479.107	1479.578	1479.390	1482.120	1483.155	1482.025	1478.919
9	1473.271	1474.495	1474.965	1478.260	1479.860	1476.848	1476.095
10	1469.129	1470.071	1470.353	1473.742	1474.777	1473.083	1470.635
11	1464.517	1466.023	1464.799	1468.282	1471.294	1468.000	1464.799
12	1458.304	1460.092	1460.092	1463.293	1464.140	1461.693	1460.657
13	1452.091	1453.127	1452.844	1457.457	1459.810	1455.198	1453.691
14	1445.219	1446.631	1446.914	1450.773	1453.127	1450.020	1447.573
15	1438.442	1438.536	1438.913	1444.090	1446.067	1442.113	1440.419
16	1430.535	1431.570	1432.417	1437.406	1438.254	1434.582	1432.794
17	1420.839	1424.134	1423.287	1428.935	1430.535	1427.146	1424.322
18	1413.026	1414.626	1415.568	1421.122	1422.722	1418.674	1416.227
19	1403.895	1405.119	1407.190	1410.579	1413.120	1409.826	1407.284
20	1394.294	1396.459	1396.741	1402.954	1403.801	1399.753	1398.436
21	1384.316	1384.786	1387.799	1391.564	1394.011	1388.834	1388.457
22	1373.020	1375.655	1376.785	1381.492	1383.845	1378.479	1378.197
23	1362.948	1364.736	1365.583	1370.761	1372.737	1368.501	1366.430
24	1349.769	1352.687	1354.476	1359.653	1361.724	1357.864	1356.546
25	1338.567	1340.167	1342.427	1347.698	1349.204	1345.439	1343.274
26	1325.859	1329.060	1329.625	1334.802	1337.720	1332.919	1331.978
27	1313.528	1315.034	1317.576	1322.753	1325.200	1320.776	1318.705
28	1300.349	1303.267	1304.679	1309.668	1310.704	1306.750	1306.656
29	1286.512	1288.300	1290.654	1296.019	1297.996	1293.666	1292.913
30	1272.580	1275.122	1276.722	1281.523	1283.970	1280.017	1278.605
31	1258.648	1260.060	1262.508	1268.156	1269.191	1265.897	1264.296
32	1242.175	1245.564	1247.164	1252.436	1254.318	1250.553	1249.706
33	1226.737	1230.409	1232.385	1236.810	1239.351	1235.962	1234.080
34	1210.829	1214.877	1216.100	1221.748	1223.255	1219.960	1218.736
35	1195.768	1198.309	1200.474	1205.652	1206.970	1204.710	1203.016
36	1178.447	1181.366	1183.907	1188.614	1190.496	1187.861	1186.449

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CANDELA TABULATION - (Cont.)

37	1161.221	1164.516	1167.434	1171.576	1173.647	1170.164	1170.070
38	1144.183	1147.101	1149.549	1153.973	1155.479	1153.502	1152.843
39	1126.392	1130.063	1132.416	1136.370	1138.441	1135.711	1134.958
40	1108.507	1110.954	1113.119	1117.638	1119.991	1118.297	1116.790
41	1089.963	1092.881	1095.799	1100.035	1101.164	1098.999	1097.399
42	1072.172	1073.866	1076.125	1081.208	1082.997	1080.361	1079.420
43	1052.310	1054.945	1057.204	1060.687	1063.041	1060.970	1060.405
44	1032.730	1035.648	1037.907	1041.202	1042.990	1042.049	1041.296
45	1014.186	1015.033	1017.575	1021.528	1023.034	1021.434	1020.399
46	992.347	995.453	997.148	1001.760	1002.325	1002.607	1001.101
47	972.767	975.780	977.380	980.863	982.934	981.051	979.922
48	952.152	954.317	955.824	960.060	961.848	960.718	959.212
49	930.267	934.173	935.331	939.256	939.849	938.889	938.437
50	910.037	912.419	913.906	917.775	919.968	917.869	917.314
51	887.719	891.183	891.710	895.833	897.555	897.009	895.983
52	865.899	868.468	869.607	873.655	875.095	874.229	873.231
53	844.050	847.100	847.966	851.440	853.398	852.419	851.600
54	821.298	824.847	825.252	828.810	830.740	829.902	828.726
55	799.234	802.237	802.717	805.249	808.402	807.593	807.000
56	775.889	779.362	779.842	782.488	784.719	784.784	783.918
57	752.826	756.319	756.789	759.133	761.750	762.287	761.232
58	729.218	732.710	733.821	735.666	738.546	738.706	738.330
59	705.318	709.290	710.429	711.502	714.929	715.324	715.117
60	682.095	685.945	686.717	688.157	690.341	691.169	691.301
61	658.185	661.791	663.071	664.144	666.629	667.373	667.617
62	634.351	637.806	639.133	639.877	642.926	643.284	644.094
63	611.053	614.046	614.310	616.061	618.151	619.337	620.015
64	585.938	589.713	590.203	591.116	594.288	595.427	595.540
65	562.085	565.474	565.502	567.310	569.785	571.197	571.668
66	537.837	540.783	541.244	542.317	544.774	546.487	546.939
67	513.390	516.563	516.610	517.984	520.262	522.568	523.039
68	489.076	491.853	492.276	493.500	495.872	497.896	498.442
69	464.338	467.341	467.905	469.204	471.049	473.318	473.713
70	439.939	442.960	443.290	444.175	446.697	448.345	448.928
71	415.756	418.928	418.523	420.161	421.658	423.814	424.463
72	391.253	394.181	394.256	395.960	397.287	398.887	399.697
73	367.014	370.036	369.687	371.532	373.020	374.243	375.467
74	343.189	345.768	345.335	347.284	348.715	349.816	351.219
75	319.176	321.435	320.955	323.186	324.739	325.125	326.358
76	295.285	298.316	296.593	299.577	301.206	301.309	303.051
77	271.394	274.783	272.062	275.555	277.098	277.033	278.350
78	248.059	251.297	247.870	251.701	253.170	253.659	254.827
79	224.723	227.961	224.215	228.225	229.929	229.816	231.661
80	201.199	205.125	200.540	204.682	206.659	206.687	208.024
81	178.447	182.552	177.770	182.128	183.239	183.446	184.914
82	155.112	159.875	154.924	159.263	160.656	160.543	161.579
83	133.066	137.613	133.527	137.349	138.121	138.008	138.818
84	110.634	115.435	111.491	115.463	116.188	115.586	116.197
85	88.884	93.550	90.927	94.035	94.679	94.180	94.519
86	67.926	71.866	70.367	72.966	73.129	72.469	72.883
87	46.581	50.533	49.690	51.833	51.580	51.416	51.486
88	25.345	25.310	22.728	26.147	29.891	30.580	30.936
89	2.636	0.946	0.771	1.620	5.487	10.316	11.949
90	0.000	0.000	0.166	0.156	0.341	0.620	1.318
91	0.000	0.000	0.001	0.000	0.078	0.541	1.083
92	0.000	0.000	0.000	0.000	0.078	0.390	0.931

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CANDELA TABULATION - (Cont.)

93	0.000	0.000	0.000	0.000	0.000	0.310	1.007
94	0.000	0.000	0.000	0.000	0.000	0.310	0.930
95	0.000	0.000	0.000	0.000	0.000	0.310	0.930
96	0.000	0.000	0.000	0.000	0.000	0.310	0.930
97	0.000	0.000	0.000	0.000	0.000	0.310	0.930
98	0.000	0.000	0.000	0.000	0.000	0.233	0.930
99	0.000	0.000	0.000	0.000	0.000	0.233	0.930
100	0.000	0.000	0.000	0.000	0.000	0.233	1.008
101	0.000	0.000	0.000	0.000	0.000	0.233	1.162
102	0.000	0.000	0.000	0.000	0.000	0.233	1.086
103	0.000	0.000	0.000	0.000	0.000	0.312	1.086
104	0.000	0.000	0.000	0.000	0.000	0.465	1.162
105	0.000	0.000	0.000	0.000	0.000	0.466	1.085
106	0.154	0.000	0.000	0.000	0.000	0.466	1.238
107	0.156	0.001	0.000	0.000	0.000	0.543	1.163
108	0.156	0.078	0.000	0.000	0.000	0.701	1.163
109	0.311	0.078	0.000	0.000	0.000	0.928	1.163
110	0.234	0.080	0.000	0.000	0.000	1.086	1.163
111	0.311	0.157	0.000	0.000	0.000	1.009	1.163
112	0.313	0.234	0.000	0.000	0.000	1.009	1.163
113	0.466	0.157	0.000	0.000	0.000	1.086	1.239
114	0.545	0.235	0.000	0.000	0.000	1.086	1.086
115	0.468	0.313	0.000	0.000	0.078	1.159	0.853
116	0.622	0.313	0.000	0.000	0.155	0.776	0.853
117	0.623	0.313	0.000	0.000	0.312	0.697	0.542
118	0.623	0.313	0.000	0.000	0.236	0.543	0.389
119	0.623	0.313	0.000	0.000	0.389	0.543	0.078
120	0.623	0.313	0.000	0.000	0.546	0.543	0.000
121	0.623	0.392	0.000	0.000	0.469	0.543	0.000
122	0.623	0.392	0.000	0.000	0.703	0.625	0.000
123	0.623	0.392	0.000	0.000	0.857	0.929	0.000
124	0.623	0.470	0.000	0.000	0.936	1.008	0.000
125	0.623	0.470	0.000	0.078	0.859	1.086	0.000
126	0.700	0.470	0.000	0.079	0.859	1.086	0.000
127	0.778	0.470	0.000	0.156	0.859	1.086	0.000
128	0.778	0.470	0.000	0.157	0.859	1.086	0.000
129	0.856	0.470	0.000	0.157	0.859	1.086	0.000
130	0.856	0.470	0.000	0.157	0.859	1.086	0.000
131	0.856	0.548	0.000	0.157	0.859	1.086	0.000
132	0.934	0.548	0.000	0.157	0.859	1.086	0.000
133	0.934	0.549	0.000	0.157	0.859	1.086	0.000
134	0.934	0.626	0.000	0.157	0.859	1.086	0.000
135	1.011	0.549	0.000	0.157	0.859	1.086	0.000
136	1.012	0.705	0.000	0.157	0.859	1.086	0.000
137	1.088	0.705	0.000	0.235	0.859	1.086	0.000
138	1.013	0.705	0.000	0.235	0.859	1.086	0.000
139	1.012	0.862	0.000	0.313	0.859	1.086	0.000
140	1.012	0.862	0.000	0.314	0.859	1.086	0.000
141	1.167	1.018	0.000	0.314	0.859	1.086	0.000
142	1.092	1.020	0.076	0.314	0.859	1.086	0.000
143	1.244	1.096	0.078	0.392	0.859	1.086	0.000
144	1.246	1.097	0.078	0.393	0.859	1.087	0.000
145	1.323	1.097	0.078	0.471	0.859	1.164	0.000
146	1.325	1.175	0.078	0.549	0.859	1.164	0.000
147	1.552	1.175	0.078	0.549	0.859	1.164	0.000
148	1.712	1.331	0.078	0.549	0.937	1.164	0.000

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CANDELA TABULATION - (Cont.)

149	1.712	1.255	0.231	0.549	1.091	1.164	0.000
150	1.712	1.330	0.158	0.549	1.015	1.164	0.000
151	1.712	1.409	0.157	0.549	1.016	1.164	0.000
152	1.712	1.332	0.233	0.549	1.092	1.164	0.000
153	1.712	1.488	0.235	0.550	1.093	1.164	0.000
154	1.712	1.566	0.311	0.627	1.247	1.164	0.000
155	1.712	1.566	0.391	0.551	1.327	1.164	0.000
156	1.712	1.645	0.314	0.705	1.328	1.164	0.000
157	1.712	1.645	0.314	0.628	1.405	1.164	0.000
158	1.790	1.645	0.314	0.630	1.405	1.164	0.000
159	1.635	1.646	0.314	0.783	1.405	1.164	0.000
160	1.635	1.723	0.314	0.941	1.405	1.164	0.000
161	1.635	1.724	0.314	0.864	1.405	1.164	0.000
162	1.635	1.801	0.391	0.864	1.483	1.164	0.000
163	1.635	1.801	0.392	1.018	1.560	1.240	0.000
164	1.557	1.880	0.778	1.177	1.717	1.320	0.000
165	1.557	1.880	0.941	1.255	1.877	1.472	0.000
166	1.557	1.960	0.941	1.255	2.184	1.552	0.000
167	1.557	2.113	1.093	1.334	2.264	1.552	0.000
168	1.557	2.585	1.020	1.334	2.264	1.631	0.078
169	1.557	2.506	1.095	1.334	2.264	1.783	0.078
170	1.557	2.506	1.176	1.413	2.498	1.938	0.078
171	1.401	2.506	1.330	1.492	2.498	1.862	0.078
172	1.401	2.506	1.410	1.647	2.576	1.862	0.078
173	1.324	2.506	1.336	1.648	2.576	1.862	0.078
174	1.323	2.506	1.489	1.730	2.576	1.862	0.078
175	1.323	2.506	1.567	1.962	2.576	1.862	0.078
176	1.323	2.506	1.492	2.040	2.576	1.862	0.078
177	1.323	2.506	1.490	1.961	2.576	1.862	0.078
178	1.323	2.507	1.490	1.961	2.732	1.862	0.078
179	1.323	2.584	1.490	1.961	2.655	1.862	0.078
180	0.077	0.077	0.077	0.077	0.077	0.077	0.077

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	547.63	N.A.	12.40
0-30	1165.52	N.A.	26.40
0-40	1914.68	N.A.	43.40
0-60	3412.01	N.A.	77.30
0-80	4307.41	N.A.	97.60
0-90	4407.83	N.A.	99.90
10-90	4266.33	N.A.	96.70
20-40	1367.05	N.A.	31.00
20-50	2149.65	N.A.	48.70
40-70	2054.52	N.A.	46.60
60-80	895.39	N.A.	20.30
70-80	338.21	N.A.	7.70
80-90	100.42	N.A.	2.30
90-110	0.56	N.A.	0.00
90-120	1.05	N.A.	0.00
90-130	1.59	N.A.	0.00
90-150	2.83	N.A.	0.10
90-180	3.91	N.A.	0.10
110-180	3.35	N.A.	0.10
0-180	4411.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.50
10-20	406.13
20-30	617.89
30-40	749.16
40-50	782.60
50-60	714.74
60-70	557.18
70-80	338.21
80-90	100.42
90-100	0.21
100-110	0.35
110-120	0.49
120-130	0.54
130-140	0.62
140-150	0.63
150-160	0.53
160-170	0.39
170-180	0.16

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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_40W_5000K.IES

UGR TABLE - CORRECTED

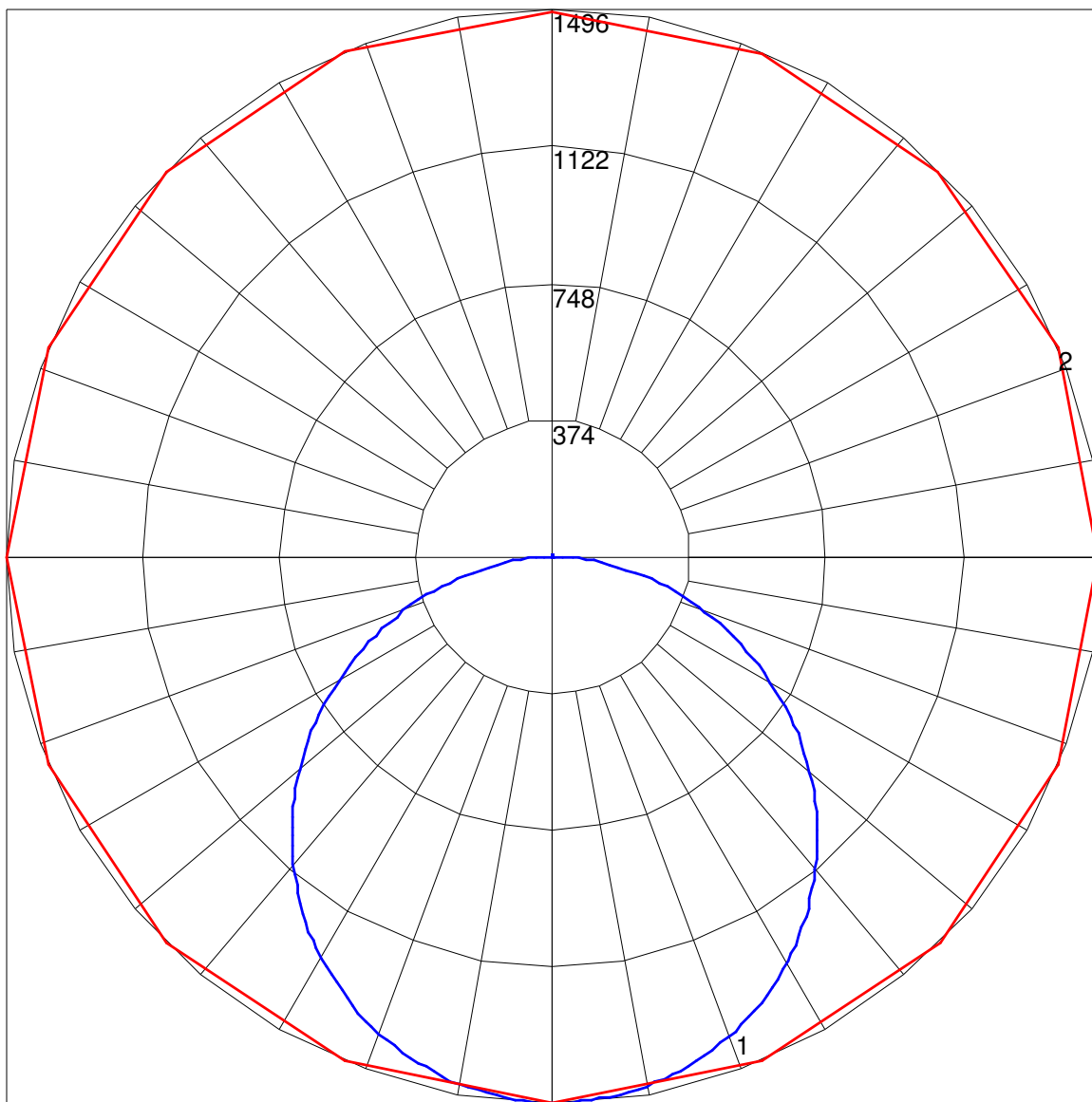
Reflectances

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	18.0	19.7	18.4	20.0	20.3	17.9	19.6	18.3	19.9	20.2
	3H	20.0	21.5	20.3	21.8	22.1	19.8	21.3	20.2	21.7	22.0
	4H	20.7	22.1	21.1	22.5	22.9	20.6	22.0	21.0	22.4	22.7
	6H	21.3	22.6	21.7	23.0	23.4	21.2	22.5	21.6	22.9	23.2
	8H	21.5	22.8	21.9	23.2	23.6	21.4	22.6	21.8	23.0	23.4
	12H	21.7	22.9	22.1	23.3	23.7	21.5	22.7	22.0	23.1	23.5
4H	2H	18.7	20.1	19.1	20.4	20.8	18.6	20.0	19.0	20.4	20.7
	3H	20.8	22.0	21.2	22.4	22.8	20.7	21.9	21.1	22.3	22.7
	4H	21.7	22.8	22.2	23.2	23.7	21.6	22.7	22.0	23.1	23.5
	6H	22.5	23.4	22.9	23.9	24.3	22.4	23.3	22.8	23.7	24.2
	8H	22.7	23.6	23.2	24.1	24.5	22.6	23.5	23.1	23.9	24.4
	12H	22.9	23.7	23.4	24.2	24.7	22.8	23.6	23.3	24.1	24.6
8H	4H	22.1	23.0	22.5	23.4	23.9	22.0	22.9	22.4	23.3	23.8
	6H	23.0	23.7	23.5	24.2	24.7	22.8	23.6	23.3	24.1	24.5
	8H	23.3	24.0	23.8	24.5	25.0	23.2	23.9	23.7	24.4	24.8
	12H	23.6	24.2	24.1	24.7	25.2	23.5	24.1	24.0	24.5	25.1
12H	4H	22.1	22.9	22.6	23.4	23.9	22.0	22.8	22.5	23.3	23.8
	6H	23.1	23.7	23.6	24.2	24.7	22.9	23.6	23.5	24.1	24.6
	8H	23.4	24.1	24.0	24.5	25.1	23.3	23.9	23.8	24.4	25.0

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 1496.428 Located At Horizontal Angle = 292.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)