



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_40W\_4000K.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\_4000K  
[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	4665
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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)	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	5731	5680	5687
55	5588	5525	5518
65	5372	5289	5264
75	5008	4931	4874
85	4307	4162	4200

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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	1580.447	1580.447	1580.447	1580.447	1580.447	1580.447	1580.447	1580.447	1580.447	1580.447
1	1580.248	1580.148	1579.252	1578.755	1579.750	1580.845	1580.646	1581.044	1580.248	1580.248
2	1579.949	1579.551	1578.655	1577.958	1578.655	1579.451	1579.053	1579.451	1579.451	1579.153
3	1578.954	1578.556	1578.257	1577.560	1578.058	1577.759	1577.162	1577.958	1578.058	1577.063
4	1577.461	1575.371	1575.570	1574.973	1575.470	1574.773	1574.973	1576.067	1577.162	1575.968
5	1574.276	1574.873	1573.380	1573.977	1573.380	1573.380	1571.091	1573.181	1573.480	1573.380
6	1571.887	1569.598	1570.593	1568.802	1569.896	1569.299	1568.702	1569.797	1570.096	1569.200
7	1569.399	1567.906	1567.309	1565.816	1566.413	1566.015	1564.621	1566.313	1567.408	1567.309
8	1563.726	1562.929	1562.034	1562.730	1563.228	1562.034	1559.943	1562.531	1563.825	1563.128
9	1560.740	1559.048	1559.048	1556.659	1558.649	1556.858	1555.564	1557.455	1558.749	1558.251
10	1554.967	1553.474	1553.772	1551.682	1553.275	1551.782	1550.189	1551.981	1553.772	1553.772
11	1548.796	1549.393	1546.805	1546.606	1547.203	1546.805	1544.815	1546.109	1547.801	1547.104
12	1544.417	1542.526	1542.028	1539.739	1540.535	1539.938	1538.047	1539.938	1541.928	1542.426
13	1537.051	1535.260	1535.359	1533.269	1534.961	1531.577	1531.478	1533.568	1536.056	1534.862
14	1530.582	1529.985	1526.999	1526.402	1526.501	1524.710	1524.311	1526.203	1527.994	1528.392
15	1523.018	1521.823	1519.633	1517.742	1519.633	1517.444	1516.249	1518.539	1520.032	1520.330
16	1514.956	1513.861	1511.870	1510.875	1510.576	1508.984	1508.287	1509.481	1512.368	1511.870
17	1505.998	1505.600	1503.111	1500.623	1502.315	1499.827	1499.727	1501.917	1503.908	1503.012
18	1497.438	1496.045	1494.054	1491.267	1493.158	1491.367	1490.073	1491.367	1494.651	1494.353
19	1487.983	1485.893	1484.300	1482.907	1483.205	1479.722	1479.523	1482.110	1484.599	1484.698
20	1478.627	1476.636	1473.451	1472.556	1473.153	1470.963	1470.764	1471.560	1474.745	1474.347
21	1468.077	1464.693	1463.399	1462.702	1462.802	1459.119	1460.214	1460.910	1463.896	1463.100
22	1457.228	1455.436	1451.455	1450.261	1451.953	1448.867	1448.171	1449.763	1452.550	1453.247
23	1444.786	1442.597	1439.412	1438.715	1439.710	1436.326	1437.521	1437.521	1440.606	1440.507
24	1434.336	1430.355	1426.672	1426.771	1427.170	1424.582	1424.681	1425.975	1428.065	1428.364
25	1420.302	1418.809	1413.932	1413.932	1415.126	1411.643	1412.638	1413.235	1416.221	1415.923
26	1408.358	1406.368	1401.690	1400.197	1401.889	1398.704	1399.600	1400.495	1401.988	1402.884
27	1394.324	1391.438	1386.760	1387.656	1387.457	1385.267	1385.765	1386.760	1389.547	1389.647
28	1381.585	1378.101	1373.523	1373.224	1374.418	1371.532	1371.831	1372.229	1373.622	1374.816
29	1367.053	1363.470	1358.892	1358.493	1359.688	1356.801	1357.399	1358.294	1360.882	1360.882
30	1351.924	1348.640	1343.365	1343.663	1345.156	1341.573	1342.569	1341.971	1344.659	1346.649
31	1336.796	1333.312	1327.738	1329.430	1329.132	1327.141	1327.141	1327.141	1330.227	1329.530
32	1321.369	1317.387	1312.908	1311.316	1314.003	1310.420	1311.117	1311.017	1313.804	1314.003
33	1304.846	1302.159	1295.789	1296.884	1297.481	1294.595	1295.789	1294.197	1297.183	1299.472
34	1288.623	1285.637	1278.670	1279.168	1280.660	1277.376	1277.675	1278.073	1281.059	1281.158
35	1272.001	1267.721	1262.048	1261.849	1263.541	1260.356	1260.257	1260.058	1264.039	1264.238
36	1254.484	1250.901	1244.630	1244.730	1246.322	1242.640	1242.640	1243.635	1245.626	1246.621
37	1237.166	1232.388	1225.620	1226.715	1227.113	1225.023	1224.625	1224.326	1228.307	1228.905
38	1218.951	1213.875	1208.202	1207.505	1209.994	1206.610	1207.008	1206.013	1209.098	1209.994
39	1200.041	1195.263	1189.988	1190.386	1190.983	1188.097	1186.604	1187.400	1190.685	1191.780
40	1180.831	1176.153	1170.878	1170.978	1170.679	1167.992	1167.494	1167.494	1171.177	1172.968
41	1160.328	1157.641	1150.574	1150.773	1151.470	1148.981	1147.588	1148.484	1152.067	1152.963
42	1141.318	1136.540	1130.767	1131.165	1131.663	1129.673	1127.981	1127.781	1131.365	1133.256
43	1121.212	1117.032	1111.956	1111.757	1112.155	1108.871	1107.477	1108.273	1111.558	1112.553
44	1101.008	1096.131	1090.955	1090.657	1089.860	1088.367	1087.272	1087.073	1091.552	1092.448
45	1078.912	1074.732	1069.257	1069.257	1070.551	1066.968	1065.973	1066.272	1069.755	1070.651
46	1058.508	1052.437	1047.958	1048.555	1048.057	1045.768	1044.574	1044.474	1048.057	1049.749
47	1036.114	1031.535	1027.056	1026.559	1026.658	1023.772	1023.374	1023.075	1027.256	1027.753
48	1014.217	1009.738	1003.965	1004.065	1004.662	1002.572	1001.378	1000.482	1004.861	1006.951
49	992.251	986.856	982.258	983.044	982.517	979.819	978.724	978.505	982.108	983.263
50	969.916	964.382	960.252	960.679	959.336	957.196	955.713	955.882	959.814	960.480
51	947.362	941.749	936.245	937.210	937.200	934.374	933.249	932.691	936.484	937.768
52	923.306	919.265	914.109	914.517	913.691	909.730	909.959	908.725	913.343	914.219
53	900.434	895.367	890.899	890.819	890.232	887.017	885.982	886.539	889.943	891.048

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**CANDELA TABULATION - (Cont.)**

54	876.248	871.988	867.340	867.758	866.315	863.438	862.512	862.264	866.076	867.170
55	853.276	848.369	843.631	843.323	842.567	838.605	838.028	838.516	842.318	843.084
56	828.871	824.313	818.719	819.097	817.564	815.046	813.752	813.842	817.664	818.241
57	804.884	800.007	795.498	795.538	793.797	790.492	788.402	789.377	793.388	793.787
58	780.668	775.493	770.467	771.143	768.944	765.629	764.007	764.873	768.844	769.232
59	756.124	750.630	746.002	745.654	744.250	740.657	738.418	740.090	743.603	744.061
60	730.943	725.937	721.607	721.338	719.706	715.356	713.485	715.167	719.069	720.184
61	705.901	700.536	696.704	696.177	693.977	690.842	688.115	690.026	693.888	694.574
62	681.028	675.315	672.001	670.826	668.806	665.193	662.585	664.158	669.274	669.851
63	655.568	649.198	646.013	645.994	643.475	640.181	637.225	639.335	642.570	643.704
64	629.690	624.157	620.116	620.723	618.015	614.582	611.665	613.467	617.637	618.443
65	604.449	598.806	595.004	594.924	592.287	589.112	586.196	588.166	592.615	592.585
66	578.303	572.769	569.086	568.817	566.588	563.771	560.497	562.219	566.429	566.498
67	553.032	546.762	543.626	543.089	541.257	538.112	535.216	536.759	541.257	541.128
68	527.025	521.521	517.599	517.539	514.822	512.025	508.930	511.448	515.240	515.330
69	500.878	495.702	491.990	491.811	489.412	486.565	483.102	485.132	489.432	489.362
70	474.671	470.113	466.420	465.863	463.434	460.747	457.672	459.423	463.663	463.594
71	448.803	443.837	440.851	440.433	437.845	435.695	432.490	433.685	437.785	438.512
72	422.617	417.591	415.700	414.465	412.077	409.668	407.170	408.663	411.330	412.355
73	396.998	391.991	389.911	389.065	386.338	384.258	381.809	382.466	385.801	385.930
74	371.359	366.173	365.168	363.456	361.445	359.136	356.638	357.056	360.400	360.769
75	345.073	341.121	339.738	338.125	335.836	334.104	331.646	331.238	334.871	334.801
76	320.429	315.681	314.517	312.795	311.292	309.630	306.883	306.286	309.461	309.859
77	294.312	290.828	289.027	287.554	286.887	285.086	282.737	281.283	283.662	284.558
78	269.439	265.836	264.692	262.542	261.895	260.402	257.824	256.381	258.670	259.496
79	244.945	241.073	239.610	238.316	237.898	236.266	233.559	231.767	234.006	234.643
80	219.953	216.599	215.006	213.782	213.254	211.911	208.994	207.213	209.542	210.159
81	195.518	192.243	190.402	189.536	189.865	188.262	185.047	183.325	185.455	186.122
82	170.844	168.117	166.206	165.589	165.977	164.644	161.060	159.050	161.279	161.797
83	146.778	144.309	143.026	141.961	143.026	141.214	137.253	135.481	137.402	138.079
84	122.861	120.671	119.964	118.382	120.044	118.073	114.142	112.340	114.042	114.540
85	99.939	97.757	96.565	95.930	97.453	95.138	91.242	89.093	90.411	91.060
86	77.063	75.459	74.257	73.640	75.141	72.748	68.881	66.838	67.867	68.513
87	54.438	52.967	51.969	51.464	52.975	50.615	46.321	44.846	45.457	46.752
88	32.710	31.687	30.254	28.810	28.491	26.111	24.773	23.753	24.142	25.266
89	12.634	11.543	7.802	2.542	1.558	1.304	2.069	4.540	5.435	5.581
90	1.393	0.992	0.452	0.282	0.000	0.000	0.000	0.328	0.492	0.081
91	1.145	0.657	0.164	0.003	0.000	0.000	0.000	0.328	0.492	0.000
92	0.984	0.656	0.082	0.000	0.000	0.000	0.000	0.328	0.492	0.000
93	1.065	0.575	0.082	0.000	0.000	0.000	0.000	0.328	0.574	0.000
94	0.984	0.574	0.000	0.000	0.000	0.000	0.000	0.410	0.574	0.000
95	0.984	0.574	0.000	0.000	0.000	0.000	0.000	0.329	0.574	0.000
96	0.984	0.574	0.000	0.000	0.000	0.000	0.000	0.492	0.655	0.082
97	0.984	0.574	0.000	0.000	0.000	0.000	0.000	0.492	0.658	0.163
98	0.984	0.574	0.000	0.000	0.000	0.000	0.000	0.492	0.902	0.083
99	0.984	0.574	0.000	0.000	0.000	0.000	0.000	0.492	0.902	0.164
100	1.065	0.574	0.000	0.000	0.000	0.000	0.000	0.573	1.063	0.164
101	1.228	0.574	0.000	0.000	0.000	0.000	0.083	0.656	1.065	0.246
102	1.148	0.574	0.000	0.000	0.000	0.000	0.165	0.738	1.229	0.410
103	1.149	0.574	0.000	0.000	0.000	0.082	0.247	0.899	1.391	0.491
104	1.229	0.574	0.000	0.000	0.000	0.001	0.332	0.902	1.311	0.411
105	1.148	0.574	0.000	0.000	0.083	0.081	0.412	0.902	1.311	0.491
106	1.309	0.574	0.000	0.000	0.001	0.083	0.495	0.902	1.311	0.655
107	1.229	0.655	0.000	0.000	0.085	0.165	0.496	0.902	1.311	0.656
108	1.229	0.740	0.000	0.000	0.167	0.083	0.578	0.902	1.311	0.656
109	1.229	0.902	0.000	0.000	0.247	0.083	0.578	0.902	1.311	0.656

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**CANDELA TABULATION - (Cont.)**

110	1.229	1.066	0.000	0.000	0.166	0.168	0.580	0.902	1.230	0.656
111	1.229	0.984	0.082	0.000	0.166	0.332	0.742	0.902	1.311	0.656
112	1.230	0.984	0.082	0.000	0.168	0.250	0.663	0.902	1.147	0.656
113	1.311	0.984	0.082	0.000	0.247	0.414	0.825	0.902	1.066	0.656
114	1.149	0.984	0.164	0.000	0.167	0.415	0.826	0.902	1.065	0.656
115	0.902	0.984	0.330	0.000	0.251	0.580	0.991	0.902	1.065	0.656
116	0.902	0.984	0.491	0.000	0.332	0.498	1.073	0.902	1.065	0.656
117	0.573	0.822	0.412	0.000	0.332	0.664	0.992	0.902	1.066	0.656
118	0.411	0.820	0.575	0.000	0.415	0.664	0.991	0.902	1.146	0.656
119	0.082	0.820	0.742	0.000	0.415	0.829	0.991	0.902	0.820	0.656
120	0.000	0.820	0.822	0.002	0.416	0.747	0.991	0.902	0.415	0.656
121	0.000	0.820	0.744	0.163	0.580	0.912	0.991	0.902	0.245	0.656
122	0.000	0.901	0.987	0.083	0.580	0.830	0.991	0.902	0.082	0.658
123	0.000	0.985	0.988	0.168	0.580	0.830	0.991	0.902	0.082	0.820
124	0.000	1.066	1.152	0.330	0.580	0.830	0.991	0.984	0.000	0.821
125	0.000	1.066	1.152	0.331	0.581	0.830	0.991	0.984	0.000	0.901
126	0.000	1.148	1.152	0.414	0.665	0.830	0.991	1.230	0.000	1.066
127	0.000	1.148	1.317	0.497	0.748	0.830	1.073	1.313	0.000	1.150
128	0.000	1.148	1.317	0.416	0.828	0.830	1.073	1.313	0.000	1.311
129	0.000	1.148	1.317	0.414	0.746	0.830	1.075	1.559	0.000	1.393
130	0.000	1.148	1.317	0.414	0.746	0.830	1.237	1.559	0.000	1.312
131	0.000	1.148	1.317	0.414	0.746	0.830	1.156	1.803	0.000	1.312
132	0.000	1.148	1.399	0.414	0.746	0.830	1.241	1.970	0.000	1.391
133	0.000	1.148	1.399	0.414	0.746	0.830	1.404	2.051	0.000	1.230
134	0.000	1.148	1.399	0.414	0.746	0.830	1.487	2.134	0.000	1.230
135	0.000	1.148	1.399	0.414	0.746	0.911	1.567	2.294	0.081	1.230
136	0.000	1.148	1.399	0.414	0.747	0.830	1.486	2.297	0.000	1.230
137	0.000	1.148	1.399	0.414	0.830	0.993	1.486	2.297	0.000	1.230
138	0.000	1.148	1.399	0.414	0.911	1.077	1.486	2.297	0.080	1.230
139	0.000	1.148	1.398	0.416	0.832	1.078	1.486	2.461	0.002	1.230
140	0.000	1.148	1.317	0.579	0.913	1.078	1.486	2.461	0.243	1.230
141	0.000	1.148	1.317	0.580	0.996	1.244	1.486	2.543	0.246	1.230
142	0.000	1.148	1.317	0.581	1.078	1.244	1.486	2.543	0.166	1.230
143	0.000	1.148	1.317	0.744	0.995	1.244	1.486	2.625	0.326	1.230
144	0.000	1.148	1.317	0.663	0.995	1.244	1.569	2.625	0.328	1.230
145	0.000	1.148	1.317	0.826	0.996	1.244	1.653	2.625	0.408	1.230
146	0.000	1.148	1.317	0.993	1.079	1.327	1.734	2.708	0.410	1.230
147	0.000	1.148	1.317	0.912	1.161	1.327	1.815	2.788	0.492	1.230
148	0.000	1.148	1.317	0.994	1.161	1.327	1.898	2.789	0.492	1.230
149	0.000	1.148	1.317	0.994	1.161	1.327	1.898	2.789	0.573	1.230
150	0.000	1.148	1.317	1.077	1.161	1.327	1.898	2.789	0.493	1.230
151	0.000	1.148	1.317	1.077	1.161	1.327	1.898	2.788	0.655	1.307
152	0.000	1.148	1.317	1.077	1.161	1.327	1.898	2.708	0.575	0.905
153	0.000	1.148	1.318	1.077	1.162	1.327	1.898	2.707	0.737	0.738
154	0.000	1.148	1.565	1.159	1.244	1.327	1.898	2.707	0.820	0.491
155	0.000	1.148	1.646	1.159	1.244	1.327	1.898	2.707	0.981	0.329
156	0.000	1.148	1.567	1.159	1.245	1.327	1.898	2.707	1.067	0.246
157	0.000	1.148	1.728	1.242	1.327	1.327	1.898	2.707	1.227	0.246
158	0.000	1.148	1.647	1.242	1.327	1.327	1.898	2.707	1.475	0.246
159	0.000	1.148	1.810	1.242	1.327	1.327	1.898	2.705	1.558	0.246
160	0.000	1.148	1.728	1.242	1.327	1.327	1.898	2.301	1.638	0.246
161	0.000	1.229	1.728	1.242	1.409	1.327	1.898	2.296	1.722	0.246
162	0.000	1.230	1.810	1.242	1.409	1.327	1.898	2.216	1.802	0.246
163	0.000	1.311	1.812	1.242	1.409	1.327	1.898	2.215	1.884	0.246
164	0.000	1.230	1.893	1.242	1.409	1.327	1.898	2.215	1.886	0.246
165	0.000	1.230	2.306	1.242	1.409	1.327	1.899	2.297	2.048	0.246

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV\_40W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

166	0.000	1.230	2.468	1.242	1.412	1.411	1.982	2.379	1.967	0.246
167	0.000	1.232	2.387	1.242	1.659	1.492	2.063	2.379	1.967	0.246
168	0.082	1.394	2.387	1.326	1.740	1.576	2.146	2.867	1.967	0.246
169	0.082	1.313	2.387	1.491	1.658	1.576	2.064	2.871	1.967	0.246
170	0.082	1.313	2.549	1.491	1.658	1.576	2.064	2.871	1.967	0.246
171	0.082	1.394	2.470	1.491	1.658	1.576	2.064	2.871	1.967	0.246
172	0.082	1.476	2.633	1.573	1.658	1.576	2.064	2.871	1.967	0.246
173	0.082	1.395	2.552	1.573	1.658	1.576	2.064	2.871	1.967	0.246
174	0.082	1.394	2.551	1.573	1.658	1.576	2.064	2.871	1.967	0.245
175	0.082	1.394	2.551	1.573	1.658	1.576	2.064	2.871	1.967	0.165
176	0.082	1.394	2.551	1.573	1.658	1.576	2.064	2.871	1.967	0.245
177	0.082	1.394	2.551	1.573	1.658	1.576	2.064	2.871	1.967	0.164
178	0.082	1.394	2.552	1.573	1.658	1.576	2.064	2.790	1.967	0.082
179	0.082	1.394	2.633	1.573	1.658	1.576	2.064	2.789	1.967	0.082
180	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082

**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	1580.447	1580.447	1580.447	1580.447	1580.447	1580.447	1580.447
1	1578.655	1581.243	1579.451	1582.238	1581.044	1581.442	1580.248
2	1579.750	1579.551	1579.153	1579.650	1580.944	1580.646	1579.949
3	1578.456	1578.954	1578.357	1580.546	1580.248	1579.949	1578.954
4	1576.266	1577.361	1576.565	1578.755	1579.750	1578.058	1577.461
5	1573.281	1573.579	1573.281	1575.470	1576.565	1575.769	1574.276
6	1570.693	1571.389	1570.991	1574.077	1574.475	1573.081	1571.887
7	1565.915	1567.906	1567.209	1570.295	1571.887	1569.697	1569.399
8	1563.925	1564.422	1564.223	1567.110	1568.204	1567.010	1563.726
9	1557.754	1559.048	1559.545	1563.029	1564.721	1561.536	1560.740
10	1553.374	1554.370	1554.668	1558.251	1559.346	1557.555	1554.967
11	1548.497	1550.090	1548.796	1552.479	1555.664	1552.180	1548.796
12	1541.928	1543.819	1543.819	1547.203	1548.099	1545.511	1544.417
13	1535.359	1536.454	1536.156	1541.033	1543.521	1538.644	1537.051
14	1528.094	1529.587	1529.885	1533.966	1536.454	1533.170	1530.582
15	1520.927	1521.027	1521.425	1526.899	1528.989	1524.809	1523.018
16	1512.567	1513.662	1514.557	1519.833	1520.728	1516.847	1514.956
17	1502.315	1505.799	1504.903	1510.875	1512.567	1508.984	1505.998
18	1494.054	1495.746	1496.741	1502.614	1504.306	1500.026	1497.438
19	1484.400	1485.694	1487.883	1491.466	1494.154	1490.670	1487.983
20	1474.248	1476.537	1476.835	1483.404	1484.300	1480.020	1478.627
21	1463.697	1464.195	1467.380	1471.361	1473.949	1468.475	1468.077
22	1451.754	1454.540	1455.735	1460.711	1463.200	1457.526	1457.228
23	1441.104	1442.995	1443.891	1449.365	1451.455	1446.976	1444.786
24	1427.170	1430.255	1432.146	1437.620	1439.810	1435.729	1434.336
25	1415.325	1417.017	1419.406	1424.980	1426.572	1422.591	1420.302
26	1401.889	1405.273	1405.870	1411.344	1414.430	1409.354	1408.358
27	1388.850	1390.443	1393.130	1398.604	1401.192	1396.514	1394.324
28	1374.916	1378.001	1379.494	1384.770	1385.864	1381.684	1381.585
29	1360.285	1362.176	1364.664	1370.338	1372.428	1367.849	1367.053
30	1345.554	1348.242	1349.934	1355.010	1357.598	1353.417	1351.924
31	1330.824	1332.317	1334.905	1340.877	1341.971	1338.488	1336.796
32	1313.406	1316.989	1318.681	1324.255	1326.246	1322.264	1321.369
33	1297.083	1300.965	1303.055	1307.733	1310.420	1306.837	1304.846
34	1280.262	1284.542	1285.836	1291.808	1293.400	1289.917	1288.623
35	1264.337	1267.025	1269.314	1274.788	1276.182	1273.793	1272.001
36	1246.024	1249.109	1251.797	1256.773	1258.764	1255.977	1254.484

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

37	1227.810	1231.293	1234.379	1238.758	1240.948	1237.265	1237.166
38	1209.795	1212.880	1215.468	1220.146	1221.738	1219.648	1218.951
39	1190.983	1194.865	1197.353	1201.534	1203.723	1200.837	1200.041
40	1172.073	1174.660	1176.950	1181.727	1184.215	1182.424	1180.831
41	1152.465	1155.550	1158.636	1163.115	1164.309	1162.020	1160.328
42	1133.654	1135.445	1137.834	1143.209	1145.100	1142.313	1141.318
43	1112.653	1115.440	1117.828	1121.511	1123.999	1121.810	1121.212
44	1091.950	1095.036	1097.425	1100.908	1102.799	1101.804	1101.008
45	1072.343	1073.239	1075.926	1080.106	1081.699	1080.007	1078.912
46	1049.252	1052.536	1054.328	1059.205	1059.802	1060.101	1058.508
47	1028.549	1031.734	1033.426	1037.109	1039.299	1037.308	1036.114
48	1006.752	1009.041	1010.634	1015.113	1017.004	1015.810	1014.217
49	983.611	987.742	988.966	993.117	993.744	992.728	992.251
50	962.222	964.740	966.313	970.404	972.723	970.503	969.916
51	938.624	942.286	942.844	947.203	949.024	948.447	947.362
52	915.552	918.269	919.474	923.754	925.276	924.361	923.306
53	892.451	895.676	896.592	900.264	902.335	901.300	900.434
54	868.395	872.147	872.575	876.337	878.378	877.492	876.248
55	845.065	848.240	848.747	851.425	854.759	853.903	853.276
56	820.381	824.054	824.561	827.358	829.717	829.787	828.871
57	795.996	799.689	800.186	802.665	805.432	805.999	804.884
58	771.034	774.726	775.901	777.852	780.897	781.067	780.668
59	745.763	749.963	751.168	752.302	755.925	756.343	756.124
60	721.209	725.280	726.096	727.619	729.928	730.804	730.943
61	695.928	699.740	701.094	702.228	704.856	705.642	705.901
62	670.727	674.380	675.783	676.569	679.794	680.172	681.028
63	646.093	649.258	649.537	651.388	653.598	654.852	655.568
64	619.538	623.529	624.047	625.012	628.367	629.571	629.690
65	594.317	597.900	597.930	599.841	602.459	603.952	604.449
66	568.678	571.793	572.281	573.416	576.014	577.825	578.303
67	542.830	546.184	546.234	547.687	550.096	552.534	553.032
68	517.121	520.057	520.505	521.799	524.307	526.447	527.025
69	490.965	494.140	494.737	496.110	498.061	500.460	500.878
70	465.166	468.361	468.710	469.645	472.313	474.054	474.671
71	439.597	442.951	442.523	444.255	445.837	448.117	448.803
72	413.689	416.784	416.864	418.666	420.069	421.761	422.617
73	388.060	391.255	390.887	392.837	394.410	395.704	396.998
74	362.869	365.596	365.138	367.198	368.711	369.876	371.359
75	337.478	339.867	339.360	341.718	343.361	343.769	345.073
76	312.218	315.422	313.601	316.756	318.478	318.588	320.429
77	286.957	290.540	287.663	291.356	292.988	292.919	294.312
78	262.283	265.707	262.084	266.135	267.688	268.205	269.439
79	237.609	241.033	237.072	241.312	243.113	242.994	244.945
80	212.737	216.887	212.040	216.419	218.510	218.539	219.953
81	188.680	193.020	187.964	192.572	193.746	193.965	195.518
82	164.007	169.043	163.807	168.396	169.869	169.749	170.844
83	140.696	145.504	141.184	145.225	146.041	145.922	146.778
84	116.978	122.054	117.884	122.084	122.851	122.214	122.861
85	93.981	98.915	96.142	99.427	100.108	99.580	99.939
86	71.821	75.987	74.402	77.150	77.322	76.625	77.063
87	49.252	53.431	52.539	54.806	54.538	54.365	54.438
88	26.799	26.762	24.032	27.647	31.605	32.334	32.710
89	2.788	1.000	0.815	1.713	5.802	10.908	12.634
90	0.000	0.000	0.175	0.165	0.360	0.656	1.393
91	0.000	0.000	0.001	0.000	0.083	0.572	1.145
92	0.000	0.000	0.000	0.000	0.083	0.412	0.984

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

93	0.000	0.000	0.000	0.000	0.000	0.328	1.065
94	0.000	0.000	0.000	0.000	0.000	0.328	0.984
95	0.000	0.000	0.000	0.000	0.000	0.328	0.984
96	0.000	0.000	0.000	0.000	0.000	0.328	0.984
97	0.000	0.000	0.000	0.000	0.000	0.328	0.984
98	0.000	0.000	0.000	0.000	0.000	0.246	0.984
99	0.000	0.000	0.000	0.000	0.000	0.246	0.984
100	0.000	0.000	0.000	0.000	0.000	0.246	1.065
101	0.000	0.000	0.000	0.000	0.000	0.246	1.228
102	0.000	0.000	0.000	0.000	0.000	0.246	1.148
103	0.000	0.000	0.000	0.000	0.000	0.330	1.149
104	0.000	0.000	0.000	0.000	0.000	0.491	1.229
105	0.000	0.000	0.000	0.000	0.000	0.492	1.148
106	0.163	0.000	0.000	0.000	0.000	0.492	1.309
107	0.165	0.001	0.000	0.000	0.000	0.574	1.229
108	0.165	0.083	0.000	0.000	0.000	0.741	1.229
109	0.329	0.083	0.000	0.000	0.000	0.981	1.229
110	0.248	0.084	0.000	0.000	0.000	1.148	1.229
111	0.329	0.166	0.000	0.000	0.000	1.067	1.229
112	0.331	0.247	0.000	0.000	0.000	1.067	1.230
113	0.493	0.166	0.000	0.000	0.000	1.148	1.311
114	0.576	0.249	0.000	0.000	0.000	1.148	1.149
115	0.495	0.331	0.000	0.000	0.083	1.226	0.902
116	0.658	0.331	0.000	0.000	0.164	0.820	0.902
117	0.658	0.331	0.000	0.000	0.330	0.737	0.573
118	0.658	0.331	0.000	0.000	0.249	0.574	0.411
119	0.658	0.331	0.000	0.000	0.411	0.574	0.082
120	0.658	0.331	0.000	0.000	0.577	0.574	0.000
121	0.658	0.414	0.000	0.000	0.496	0.574	0.000
122	0.658	0.414	0.000	0.000	0.743	0.661	0.000
123	0.658	0.414	0.000	0.000	0.906	0.983	0.000
124	0.658	0.497	0.000	0.000	0.990	1.066	0.000
125	0.658	0.497	0.000	0.083	0.908	1.148	0.000
126	0.740	0.497	0.000	0.083	0.908	1.148	0.000
127	0.823	0.497	0.000	0.165	0.908	1.148	0.000
128	0.823	0.497	0.000	0.166	0.908	1.148	0.000
129	0.905	0.497	0.000	0.166	0.908	1.148	0.000
130	0.905	0.497	0.000	0.166	0.908	1.148	0.000
131	0.905	0.579	0.000	0.166	0.908	1.148	0.000
132	0.988	0.580	0.000	0.166	0.908	1.148	0.000
133	0.988	0.580	0.000	0.166	0.908	1.148	0.000
134	0.988	0.662	0.000	0.166	0.908	1.148	0.000
135	1.069	0.581	0.000	0.166	0.908	1.148	0.000
136	1.070	0.745	0.000	0.166	0.908	1.148	0.000
137	1.151	0.745	0.000	0.249	0.908	1.148	0.000
138	1.071	0.745	0.000	0.249	0.908	1.148	0.000
139	1.070	0.911	0.000	0.331	0.908	1.148	0.000
140	1.070	0.911	0.000	0.332	0.908	1.148	0.000
141	1.234	1.077	0.000	0.332	0.908	1.148	0.000
142	1.155	1.078	0.080	0.332	0.908	1.148	0.000
143	1.315	1.159	0.083	0.414	0.908	1.148	0.000
144	1.317	1.159	0.083	0.416	0.908	1.150	0.000
145	1.399	1.159	0.083	0.498	0.908	1.230	0.000
146	1.401	1.242	0.083	0.581	0.908	1.230	0.000
147	1.641	1.242	0.083	0.581	0.908	1.230	0.000
148	1.810	1.408	0.083	0.581	0.991	1.230	0.000

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

149	1.811	1.326	0.244	0.581	1.153	1.230	0.000
150	1.811	1.407	0.168	0.581	1.074	1.230	0.000
151	1.811	1.490	0.166	0.581	1.074	1.230	0.000
152	1.811	1.408	0.247	0.581	1.155	1.230	0.000
153	1.811	1.573	0.249	0.581	1.156	1.230	0.000
154	1.811	1.656	0.329	0.663	1.318	1.230	0.000
155	1.811	1.656	0.414	0.582	1.403	1.230	0.000
156	1.811	1.739	0.332	0.745	1.404	1.230	0.000
157	1.811	1.739	0.332	0.664	1.485	1.230	0.000
158	1.893	1.739	0.332	0.666	1.486	1.230	0.000
159	1.728	1.740	0.332	0.828	1.486	1.230	0.000
160	1.728	1.822	0.332	0.995	1.486	1.230	0.000
161	1.728	1.823	0.332	0.913	1.486	1.230	0.000
162	1.728	1.904	0.413	0.913	1.568	1.231	0.000
163	1.728	1.905	0.415	1.076	1.649	1.312	0.000
164	1.646	1.988	0.823	1.245	1.816	1.395	0.000
165	1.646	1.988	0.995	1.327	1.985	1.557	0.000
166	1.646	2.072	0.995	1.327	2.309	1.641	0.000
167	1.646	2.234	1.155	1.410	2.394	1.641	0.000
168	1.646	2.733	1.079	1.410	2.394	1.724	0.082
169	1.646	2.650	1.158	1.410	2.394	1.885	0.082
170	1.646	2.650	1.243	1.495	2.641	2.050	0.082
171	1.481	2.650	1.407	1.577	2.641	1.969	0.082
172	1.481	2.650	1.490	1.742	2.723	1.969	0.082
173	1.400	2.650	1.412	1.742	2.724	1.969	0.082
174	1.399	2.650	1.574	1.829	2.724	1.969	0.082
175	1.399	2.650	1.657	2.075	2.724	1.969	0.082
176	1.399	2.650	1.577	2.157	2.724	1.969	0.082
177	1.399	2.650	1.575	2.074	2.724	1.969	0.082
178	1.399	2.651	1.575	2.074	2.888	1.969	0.082
179	1.399	2.732	1.575	2.074	2.807	1.969	0.082
180	0.082	0.082	0.082	0.082	0.082	0.082	0.082



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	579.03	N.A.	12.40
0-30	1232.36	N.A.	26.40
0-40	2024.47	N.A.	43.40
0-60	3607.67	N.A.	77.30
0-80	4554.41	N.A.	97.60
0-90	4660.59	N.A.	99.90
10-90	4510.98	N.A.	96.70
20-40	1445.44	N.A.	31.00
20-50	2272.91	N.A.	48.70
40-70	2172.33	N.A.	46.60
60-80	946.74	N.A.	20.30
70-80	357.61	N.A.	7.70
80-90	106.18	N.A.	2.30
90-110	0.59	N.A.	0.00
90-120	1.11	N.A.	0.00
90-130	1.68	N.A.	0.00
90-150	2.99	N.A.	0.10
90-180	4.13	N.A.	0.10
110-180	3.54	N.A.	0.10
0-180	4664.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	149.62
10-20	429.42
20-30	653.32
30-40	792.12
40-50	827.47
50-60	755.73
60-70	589.13
70-80	357.61
80-90	106.18
90-100	0.22
100-110	0.37
110-120	0.51
120-130	0.57
130-140	0.65
140-150	0.66
150-160	0.56
160-170	0.41
170-180	0.17

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-14-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	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\_4000K.IES**

**UGR TABLE - CORRECTED**

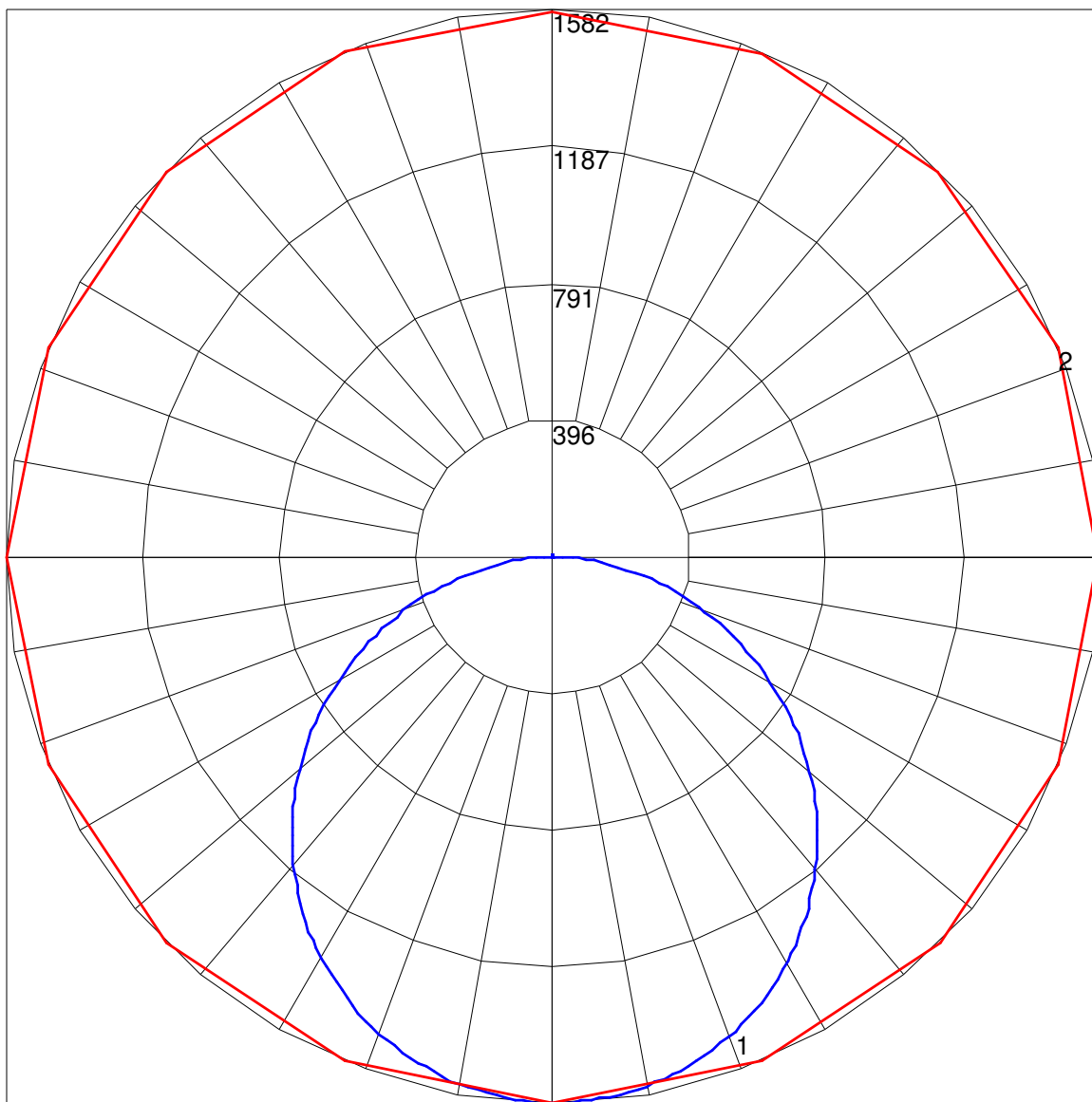
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.2	19.9	18.6	20.2	20.5	18.1	19.8	18.5	20.1	20.4
	3H	20.2	21.7	20.5	22.0	22.3	20.0	21.5	20.4	21.9	22.2
	4H	20.9	22.3	21.3	22.7	23.1	20.8	22.2	21.2	22.6	22.9
	6H	21.5	22.8	21.9	23.2	23.6	21.4	22.7	21.8	23.1	23.4
	8H	21.7	23.0	22.1	23.4	23.8	21.6	22.8	22.0	23.2	23.6
	12H	21.9	23.1	22.3	23.5	23.9	21.7	22.9	22.2	23.3	23.7
4H	2H	18.9	20.3	19.3	20.6	21.0	18.8	20.2	19.2	20.6	20.9
	3H	21.0	22.2	21.4	22.6	23.0	20.9	22.1	21.3	22.5	22.9
	4H	21.9	23.0	22.4	23.4	23.9	21.8	22.9	22.3	23.3	23.8
	6H	22.7	23.6	23.1	24.1	24.5	22.6	23.5	23.0	23.9	24.4
	8H	22.9	23.8	23.4	24.3	24.7	22.8	23.7	23.3	24.1	24.6
	12H	23.1	24.0	23.6	24.4	24.9	23.0	23.8	23.5	24.3	24.8
8H	4H	22.3	23.2	22.7	23.6	24.1	22.2	23.1	22.6	23.5	24.0
	6H	23.2	23.9	23.7	24.4	24.9	23.0	23.8	23.5	24.3	24.7
	8H	23.5	24.2	24.0	24.7	25.2	23.4	24.1	23.9	24.6	25.0
	12H	23.8	24.4	24.3	24.9	25.4	23.7	24.3	24.2	24.7	25.3
12H	4H	22.3	23.1	22.8	23.6	24.1	22.2	23.0	22.7	23.5	24.0
	6H	23.3	23.9	23.8	24.4	24.9	23.1	23.8	23.7	24.3	24.8
	8H	23.6	24.3	24.2	24.7	25.3	23.5	24.1	24.0	24.6	25.2

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 1582.238 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.)