



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.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_3500K
[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	4351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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)	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	4850	4862	4861
55	4688	4713	4713
65	4422	4472	4482
75	3907	4061	4121
85	2888	3008	3223

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

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	1496.200	1496.200	1496.200	1496.200	1496.200	1496.200	1496.200	1496.200	1496.200	1496.200
1	1495.400	1495.000	1495.900	1496.000	1496.300	1495.700	1495.300	1496.200	1495.500	1495.000
2	1494.800	1495.200	1495.600	1494.500	1495.100	1496.100	1495.300	1494.900	1494.900	1494.500
3	1493.900	1493.700	1494.700	1493.500	1495.200	1494.500	1493.400	1493.400	1494.100	1493.700
4	1491.900	1491.400	1492.100	1491.700	1492.900	1492.800	1492.500	1491.000	1491.100	1490.500
5	1490.600	1490.100	1489.900	1490.300	1489.900	1490.100	1489.000	1488.600	1488.700	1488.500
6	1487.500	1486.300	1487.200	1487.000	1488.000	1486.500	1486.700	1486.700	1486.100	1485.800
7	1483.800	1483.900	1484.300	1483.800	1485.700	1484.300	1483.900	1482.600	1482.800	1481.900
8	1480.400	1481.000	1480.000	1480.100	1480.800	1480.200	1479.100	1478.700	1478.400	1477.800
9	1475.900	1476.100	1476.100	1475.100	1477.100	1476.400	1474.300	1474.500	1474.800	1473.700
10	1470.900	1470.900	1471.600	1471.100	1471.500	1471.300	1470.000	1468.900	1469.300	1468.400
11	1465.500	1465.800	1466.200	1465.400	1467.400	1465.700	1464.600	1463.500	1463.400	1462.300
12	1460.400	1459.700	1460.800	1459.400	1461.700	1460.100	1459.100	1458.000	1458.600	1456.900
13	1453.900	1454.300	1453.600	1453.700	1454.800	1453.500	1452.900	1451.300	1451.400	1451.500
14	1447.100	1446.900	1446.800	1447.200	1449.200	1446.700	1445.800	1443.900	1445.400	1442.900
15	1440.000	1439.600	1439.600	1439.700	1441.900	1439.400	1437.700	1437.100	1437.400	1435.700
16	1432.300	1432.600	1431.600	1432.800	1433.800	1431.200	1430.400	1428.900	1428.900	1427.200
17	1424.500	1423.800	1424.200	1423.000	1425.100	1421.900	1421.500	1420.600	1421.100	1418.900
18	1415.400	1415.200	1415.700	1415.000	1416.600	1414.800	1413.100	1411.000	1411.800	1409.700
19	1406.000	1406.400	1406.800	1406.200	1407.500	1405.000	1403.600	1401.800	1402.400	1401.000
20	1396.700	1396.100	1396.200	1395.500	1397.300	1395.400	1393.700	1392.600	1392.700	1389.600
21	1387.000	1386.300	1386.300	1386.600	1388.200	1384.900	1383.500	1381.300	1382.000	1380.500
22	1376.200	1376.300	1376.100	1375.700	1376.900	1375.000	1372.800	1370.400	1371.100	1369.400
23	1364.700	1364.600	1365.000	1365.100	1365.700	1364.000	1361.600	1359.300	1359.000	1358.100
24	1353.400	1353.200	1353.800	1352.400	1355.100	1351.400	1349.700	1347.800	1347.700	1346.100
25	1340.700	1341.100	1340.900	1341.300	1342.200	1339.800	1338.600	1335.300	1336.600	1333.300
26	1329.800	1328.000	1328.000	1328.100	1331.000	1327.500	1325.000	1323.100	1323.100	1321.200
27	1315.100	1314.700	1315.900	1315.900	1316.900	1314.200	1312.800	1310.100	1309.400	1308.600
28	1301.700	1301.400	1302.200	1301.400	1304.300	1301.100	1299.100	1295.300	1295.700	1294.700
29	1288.000	1288.200	1288.700	1288.100	1290.800	1286.900	1285.100	1282.800	1282.000	1280.600
30	1273.300	1273.500	1275.100	1273.900	1276.000	1273.100	1270.400	1268.200	1267.600	1266.200
31	1259.700	1258.900	1259.400	1258.800	1262.000	1259.200	1255.500	1252.800	1252.500	1251.500
32	1244.000	1243.700	1245.300	1245.000	1246.500	1243.600	1241.100	1237.500	1237.400	1236.600
33	1228.100	1228.400	1229.500	1228.900	1231.200	1227.900	1224.800	1222.000	1221.300	1220.700
34	1211.900	1213.100	1213.700	1213.000	1215.000	1212.600	1209.400	1205.900	1205.900	1204.600
35	1195.600	1196.500	1197.800	1197.500	1198.700	1195.800	1192.800	1189.100	1188.500	1187.600
36	1179.500	1180.000	1180.800	1180.300	1181.900	1179.100	1175.400	1172.000	1171.300	1171.100
37	1162.400	1163.200	1163.500	1163.400	1165.100	1162.000	1158.500	1154.000	1154.400	1153.500
38	1144.400	1144.800	1146.700	1145.800	1147.200	1144.600	1141.100	1137.300	1136.000	1135.200
39	1127.400	1127.300	1128.200	1128.500	1128.600	1125.900	1123.300	1119.000	1118.000	1117.900
40	1108.500	1109.300	1110.700	1109.900	1111.100	1108.900	1104.200	1099.600	1099.400	1099.200
41	1090.600	1090.500	1092.300	1091.300	1092.400	1088.900	1085.600	1081.300	1080.300	1080.300
42	1070.900	1071.700	1073.100	1072.000	1073.500	1069.800	1066.800	1062.500	1060.900	1060.500
43	1051.900	1051.700	1052.900	1053.100	1052.900	1051.600	1047.000	1042.700	1041.400	1041.400
44	1032.200	1032.300	1034.100	1033.500	1034.400	1031.300	1028.000	1022.400	1022.000	1021.100
45	1011.700	1012.600	1014.200	1013.100	1014.000	1011.300	1007.000	1002.300	1001.500	1001.000
46	990.520	992.380	993.340	992.760	993.680	991.060	987.360	982.010	980.680	980.550
47	970.430	971.050	973.180	972.090	973.150	970.730	966.480	961.020	959.810	958.950
48	948.690	950.610	952.260	951.470	953.060	949.320	945.860	940.100	938.160	938.590
49	927.710	929.210	930.420	929.410	930.890	928.390	924.300	917.890	916.660	915.920
50	905.940	907.070	909.730	908.010	908.950	905.980	902.000	897.040	894.510	894.580
51	884.310	885.840	886.820	886.860	887.250	885.260	879.880	874.190	872.130	871.580
52	862.000	863.660	864.920	863.880	865.130	862.280	857.740	851.420	849.520	849.790
53	839.620	840.650	842.470	841.310	843.130	840.630	834.900	829.060	826.740	827.460

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

CANDELA TABULATION - (Cont.)

54	816.190	818.170	820.180	819.260	820.250	817.310	812.380	805.830	803.020	803.450
55	793.100	794.970	797.400	796.660	797.330	794.450	789.170	783.170	780.080	781.260
56	769.660	772.230	773.680	773.170	774.090	771.750	766.500	759.280	755.870	757.080
57	746.220	748.770	750.730	749.790	751.460	748.220	743.200	735.350	731.830	733.330
58	722.680	724.940	727.210	725.940	727.720	724.770	719.270	711.410	707.560	709.560
59	698.180	700.630	703.110	702.520	703.600	701.550	695.550	687.200	682.790	684.670
60	674.340	676.750	679.030	678.710	680.470	677.130	671.250	663.030	658.440	660.410
61	650.080	652.210	655.170	654.540	656.080	653.430	646.880	638.100	633.650	635.500
62	625.760	628.480	630.860	630.790	631.660	629.250	622.350	613.270	608.560	610.680
63	601.260	604.030	606.460	606.310	607.660	604.800	597.800	588.310	583.590	585.820
64	576.210	579.570	582.400	581.940	583.370	580.200	573.120	563.770	559.020	560.640
65	551.240	554.370	557.510	557.300	558.790	555.840	548.170	539.000	534.230	536.050
66	525.980	529.470	532.560	532.950	534.310	531.230	523.440	513.720	508.810	511.030
67	500.660	504.280	507.940	508.010	510.090	507.040	498.750	488.950	484.320	486.050
68	475.080	479.280	483.330	483.480	485.330	482.290	473.990	464.100	459.480	461.280
69	449.860	453.760	458.550	459.110	460.600	457.740	449.080	439.120	434.720	436.560
70	424.700	428.860	433.850	435.240	436.490	433.400	424.470	414.840	409.870	411.980
71	399.180	403.390	408.670	409.900	411.720	408.820	399.870	389.850	385.260	387.480
72	373.550	378.030	383.730	385.480	387.460	384.320	375.370	365.920	360.750	362.920
73	348.690	352.720	359.200	361.040	362.750	360.180	351.590	341.340	336.380	338.330
74	323.400	327.550	334.680	337.320	339.150	336.320	327.080	317.630	312.430	314.570
75	298.250	302.980	310.070	313.060	314.600	311.990	303.050	293.140	288.170	290.170
76	273.740	278.000	285.160	288.740	290.640	288.280	279.340	269.940	264.950	267.070
77	248.780	253.150	260.620	264.750	266.320	264.160	255.910	246.590	241.750	243.820
78	225.100	229.160	236.850	240.420	241.660	239.650	232.390	223.390	218.700	220.570
79	201.790	205.470	212.960	216.300	217.880	215.860	209.870	200.660	195.880	198.240
80	179.060	182.680	189.240	192.660	194.390	192.240	187.160	178.220	174.050	175.870
81	157.030	160.570	165.610	168.960	171.480	168.460	163.770	156.090	151.650	153.820
82	135.260	138.730	142.520	146.020	148.230	145.730	140.810	134.540	130.320	132.280
83	114.000	117.220	120.080	123.080	126.120	123.440	118.000	113.280	109.660	111.230
84	93.761	96.904	98.302	101.100	104.350	101.550	96.494	92.993	89.757	91.117
85	74.258	76.469	77.343	79.186	82.870	79.989	74.931	72.255	70.001	70.075
86	55.865	56.993	57.677	58.859	62.343	59.011	54.669	52.286	51.245	50.434
87	37.578	37.997	38.167	38.590	41.551	38.440	34.503	32.678	32.375	31.032
88	20.591	20.693	20.223	20.208	22.027	19.383	16.957	15.596	15.660	14.235
89	5.479	5.504	5.482	4.837	6.005	4.250	3.423	2.367	2.386	1.899
90	0.162	0.246	0.327	0.329	0.000	0.074	0.064	0.019	0.050	0.031
91	0.000	0.162	0.163	0.246	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.083	0.161	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.081	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	0.081	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.002	0.081	0.164	0.165	0.081	0.163
106	0.000	0.000	0.000	0.000	0.088	0.082	0.329	0.166	0.164	0.165
107	0.083	0.082	0.165	0.084	0.249	0.082	0.249	0.247	0.084	0.165
108	0.084	0.083	0.166	0.165	0.330	0.243	0.408	0.328	0.323	0.326
109	0.165	0.163	0.248	0.175	0.333	0.247	0.413	0.411	0.330	0.249

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

CANDELA TABULATION - (Cont.)

110	0.165	0.082	0.248	0.496	0.497	0.328	0.493	0.412	0.330	0.329
111	0.165	0.247	0.413	0.662	0.577	0.330	0.575	0.494	0.330	0.330
112	0.169	0.328	0.498	0.829	0.496	0.410	0.578	0.495	0.330	0.411
113	0.329	0.247	0.660	0.993	0.577	0.412	0.578	0.656	0.412	0.495
114	0.248	0.247	0.661	1.160	0.578	0.493	0.738	0.579	0.572	0.575
115	0.249	0.247	0.742	1.319	0.660	0.576	0.661	0.577	0.659	0.495
116	0.411	0.247	0.663	1.237	0.660	0.577	0.820	0.577	0.580	0.495
117	0.330	0.247	0.908	1.237	0.746	0.739	0.825	0.577	0.739	0.495
118	0.330	0.248	0.909	1.237	0.910	0.742	0.988	0.577	0.743	0.495
119	0.330	0.330	0.990	1.237	0.987	0.902	0.990	0.577	0.743	0.495
120	0.334	0.416	0.990	1.237	0.912	0.907	0.990	0.577	0.825	0.495
121	0.584	0.662	0.991	1.237	1.071	1.068	0.990	0.577	0.825	0.495
122	0.994	0.911	1.073	1.237	0.990	1.153	0.990	0.577	0.825	0.495
123	1.154	1.154	1.074	1.237	0.990	1.237	0.990	0.578	0.825	0.577
124	1.073	1.154	1.153	1.237	0.990	1.237	0.990	0.659	0.825	0.577
125	1.073	1.155	1.073	1.237	0.995	1.319	0.990	0.826	0.907	0.659
126	1.075	1.236	1.073	1.237	1.156	1.319	0.990	0.986	0.826	0.989
127	1.155	1.238	1.075	1.237	1.240	1.319	0.990	1.317	1.068	1.070
128	1.155	1.319	1.154	1.237	1.400	1.319	0.990	1.320	1.073	1.401
129	1.155	1.236	1.073	1.240	1.321	1.319	0.990	1.320	1.234	1.401
130	1.155	1.236	1.071	1.320	1.402	1.319	0.990	1.320	1.238	1.401
131	1.155	1.236	0.988	1.320	1.325	1.401	0.990	1.320	1.238	1.401
132	1.155	1.236	0.908	1.320	1.484	1.402	0.990	1.320	1.238	1.401
133	1.157	1.236	0.908	1.320	1.404	1.402	0.990	1.320	1.238	1.401
134	1.238	1.236	0.908	1.320	1.569	1.402	0.990	1.320	1.238	1.401
135	1.238	1.236	0.908	1.320	1.650	1.483	0.990	1.320	1.238	1.401
136	1.238	1.236	0.900	1.320	1.650	1.484	0.990	1.320	1.238	1.401
137	1.238	1.236	0.660	1.320	1.650	1.648	0.990	1.320	1.238	1.401
138	1.238	1.236	0.656	1.320	1.650	1.567	0.990	1.320	1.238	1.401
139	1.238	1.236	0.494	1.320	1.650	1.567	0.990	1.320	1.238	1.401
140	1.238	1.236	0.328	1.320	1.650	1.567	0.990	1.320	1.238	1.401
141	1.238	1.236	0.163	1.320	1.650	1.567	0.990	1.320	1.238	1.401
142	1.238	1.236	0.081	1.320	1.650	1.567	0.990	1.320	1.238	1.401
143	1.240	1.236	0.000	1.319	1.650	1.567	0.990	1.320	1.238	1.401
144	1.319	1.236	0.000	1.237	1.650	1.567	0.990	1.320	1.238	1.401
145	1.236	1.236	0.000	1.237	1.650	1.567	1.154	1.320	1.238	1.401
146	1.155	1.232	0.000	1.236	1.650	1.567	1.074	1.320	1.238	1.401
147	1.155	1.072	0.000	1.073	1.650	1.567	1.234	1.320	1.238	1.401
148	1.155	1.072	0.000	1.152	1.650	1.567	1.238	1.320	1.238	1.401
149	1.155	0.988	0.000	1.070	1.650	1.567	1.238	1.320	1.238	1.401
150	1.155	0.905	0.000	0.989	1.650	1.567	1.319	1.320	1.238	1.401
151	1.155	0.824	0.000	0.907	1.650	1.567	1.401	1.401	1.238	1.401
152	1.155	0.823	0.000	0.907	1.650	1.567	1.403	1.237	1.238	1.401
153	1.155	0.742	0.000	0.907	1.650	1.567	1.403	1.237	1.238	1.401
154	1.155	0.742	0.000	0.905	1.650	1.567	1.403	1.155	1.238	1.401
155	1.155	0.742	0.000	0.825	1.650	1.567	1.403	1.155	1.238	1.401
156	1.155	0.743	0.000	0.822	1.650	1.567	1.403	1.155	1.238	1.401
157	1.155	0.822	0.000	0.742	1.650	1.567	1.403	1.155	1.238	1.401
158	1.155	0.742	0.000	0.742	1.650	1.567	1.403	1.236	1.238	1.401
159	1.155	0.740	0.000	0.740	1.650	1.567	1.403	1.073	1.238	1.401
160	1.155	0.577	0.000	0.660	1.650	1.567	1.403	0.989	1.238	1.401
161	1.155	0.578	0.000	0.660	1.650	1.567	1.403	0.826	1.238	1.401
162	1.155	0.658	0.000	0.660	1.650	1.567	1.403	0.495	1.238	1.401
163	1.155	0.577	0.000	0.660	1.650	1.567	1.403	0.495	1.238	1.401
164	1.155	0.498	0.000	0.662	1.650	1.567	1.403	0.413	1.238	1.401
165	1.156	0.663	0.000	0.742	1.650	1.567	1.403	0.331	1.238	1.401

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

CANDELA TABULATION - (Cont.)

166	1.238	0.989	0.000	0.750	1.650	1.567	1.403	0.330	1.238	1.401
167	1.238	0.990	0.000	0.993	1.651	1.567	1.403	0.247	1.238	1.401
168	1.238	1.074	0.000	1.072	1.729	1.567	1.403	0.247	1.238	1.401
169	1.238	1.156	0.000	1.077	1.567	1.567	1.403	0.247	1.238	1.401
170	1.238	1.319	0.000	1.237	1.567	1.567	1.403	0.247	1.320	1.401
171	1.238	1.401	0.000	1.237	1.567	1.567	1.403	0.247	1.161	1.401
172	1.239	1.401	0.000	1.237	1.567	1.567	1.484	0.247	1.155	1.401
173	1.321	1.401	0.000	1.237	1.567	1.486	1.405	0.247	1.155	1.401
174	1.403	1.401	0.000	1.237	1.567	1.484	1.403	0.330	1.155	1.401
175	1.403	1.401	0.083	1.237	1.567	1.565	1.240	0.248	1.155	1.401
176	1.403	1.401	0.083	1.237	1.567	1.486	1.238	0.166	1.155	1.401
177	1.403	1.401	0.083	1.237	1.567	1.403	1.238	0.247	1.155	1.401
178	1.403	1.401	0.083	1.237	1.567	1.321	1.238	0.001	1.155	1.401
179	1.403	1.401	0.083	1.237	1.567	1.237	1.238	0.082	1.155	1.401
180	1.403	1.403	1.403	1.403	1.403	1.403	1.403	1.403	1.403	1.403

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	1496.200	1496.200	1496.200	1496.200	1496.200	1496.200	1496.200
1	1496.300	1495.000	1495.500	1496.300	1496.900	1496.000	1495.400
2	1494.800	1495.100	1495.400	1495.400	1495.400	1494.400	1494.800
3	1494.000	1493.000	1494.200	1494.700	1494.300	1494.000	1493.900
4	1492.100	1490.800	1491.200	1492.600	1492.300	1492.700	1491.900
5	1489.300	1489.400	1489.600	1489.700	1489.800	1489.600	1490.600
6	1485.600	1486.200	1486.900	1487.000	1486.800	1487.600	1487.500
7	1483.400	1483.000	1483.200	1484.000	1484.300	1483.600	1483.800
8	1477.900	1479.400	1479.300	1480.100	1480.200	1480.200	1480.400
9	1474.700	1474.500	1474.900	1475.600	1475.500	1476.300	1475.900
10	1469.500	1469.900	1470.300	1470.400	1470.800	1470.700	1470.900
11	1464.400	1463.800	1464.800	1465.500	1465.500	1465.300	1465.500
12	1458.200	1458.200	1459.500	1460.200	1460.200	1460.000	1460.400
13	1451.900	1452.600	1452.200	1452.400	1453.400	1453.500	1453.900
14	1444.500	1445.100	1446.100	1446.300	1446.700	1447.700	1447.100
15	1437.300	1437.500	1438.800	1438.500	1439.800	1439.800	1440.000
16	1429.300	1429.700	1430.900	1431.700	1432.100	1431.800	1432.300
17	1420.900	1421.500	1422.200	1421.900	1423.700	1423.200	1424.500
18	1411.800	1412.200	1414.200	1414.200	1414.600	1414.600	1415.400
19	1402.900	1403.300	1404.800	1404.500	1405.900	1405.500	1406.000
20	1392.400	1393.400	1394.900	1394.600	1395.300	1395.100	1396.700
21	1381.800	1383.300	1384.900	1384.600	1385.600	1385.900	1387.000
22	1371.900	1372.800	1374.300	1374.300	1374.600	1374.800	1376.200
23	1359.600	1360.700	1362.600	1362.800	1363.600	1363.400	1364.700
24	1348.000	1349.800	1351.600	1350.900	1352.400	1352.600	1353.400
25	1336.500	1337.600	1338.800	1339.200	1339.900	1340.300	1340.700
26	1323.700	1324.700	1326.000	1325.800	1327.600	1327.500	1329.800
27	1310.700	1311.900	1312.600	1313.800	1314.300	1314.200	1315.100
28	1297.300	1297.600	1299.600	1300.400	1300.900	1301.100	1301.700
29	1282.700	1284.500	1286.800	1286.000	1287.900	1287.700	1288.000
30	1268.800	1271.400	1272.400	1272.400	1273.000	1273.800	1273.300
31	1253.200	1254.800	1256.500	1258.200	1257.700	1258.000	1259.700
32	1238.600	1240.300	1241.800	1242.300	1243.500	1243.200	1244.000
33	1222.900	1224.600	1226.100	1226.600	1227.300	1227.700	1228.100
34	1206.900	1208.900	1210.400	1210.700	1211.700	1211.400	1211.900
35	1190.500	1192.300	1193.700	1194.600	1196.000	1195.900	1195.600
36	1173.600	1174.900	1176.100	1177.700	1179.000	1178.500	1179.500

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

CANDELA TABULATION - (Cont.)

37	1155.700	1158.100	1159.900	1160.600	1161.900	1162.300	1162.400
38	1138.000	1139.700	1142.000	1142.900	1143.800	1145.100	1144.400
39	1121.000	1122.700	1123.900	1125.400	1126.200	1126.300	1127.400
40	1101.700	1104.000	1105.400	1107.400	1108.200	1107.900	1108.500
41	1082.700	1084.600	1087.500	1088.500	1089.100	1089.800	1090.600
42	1063.700	1066.400	1068.300	1069.500	1069.900	1070.100	1070.900
43	1044.400	1047.200	1048.500	1050.000	1051.300	1051.500	1051.900
44	1024.900	1026.700	1028.900	1030.300	1031.200	1030.900	1032.200
45	1004.600	1007.200	1007.700	1010.200	1011.000	1011.700	1011.700
46	984.220	986.400	987.860	989.740	991.090	990.400	990.520
47	962.660	965.320	967.240	969.480	970.150	969.420	970.430
48	942.180	945.270	946.280	947.630	949.130	948.440	948.690
49	920.630	923.880	923.740	926.560	928.110	926.410	927.710
50	898.970	901.510	902.780	905.050	906.420	905.310	905.940
51	876.520	880.510	880.880	882.810	885.030	883.360	884.310
52	854.390	857.280	858.400	860.850	862.610	861.880	862.000
53	831.790	835.150	836.430	838.420	839.880	838.880	839.620
54	809.120	812.090	812.690	815.560	817.100	816.580	816.190
55	785.580	789.100	790.320	792.480	793.660	793.170	793.100
56	762.730	766.600	766.780	769.790	770.560	769.900	769.660
57	738.960	742.270	743.440	745.670	747.120	746.670	746.220
58	715.030	718.800	719.360	722.090	723.650	722.680	722.680
59	691.380	695.580	696.370	698.510	699.730	698.580	698.180
60	667.210	671.600	672.490	674.440	676.140	675.000	674.340
61	642.450	647.590	647.690	650.610	651.750	650.250	650.080
62	617.930	622.910	623.790	626.460	627.450	626.380	625.760
63	593.140	598.530	599.470	601.860	603.750	601.730	601.260
64	568.420	574.480	575.500	578.050	579.030	577.110	576.210
65	543.560	550.280	550.880	553.690	554.560	552.140	551.240
66	518.690	525.490	526.170	528.920	529.150	527.350	525.980
67	494.380	501.040	501.550	504.230	504.610	502.010	500.660
68	469.220	476.450	477.120	479.490	479.990	476.850	475.080
69	444.630	451.790	452.660	455.370	454.860	451.480	449.860
70	419.940	427.580	428.540	430.800	430.680	426.380	424.700
71	395.420	403.010	403.790	405.800	405.080	401.370	399.180
72	370.840	378.670	379.340	381.210	380.390	375.830	373.550
73	346.470	354.730	354.990	356.760	355.630	350.770	348.690
74	322.370	330.470	330.550	332.680	331.190	325.670	323.400
75	298.270	306.270	306.370	308.420	306.820	300.840	298.250
76	275.130	282.260	281.850	284.020	281.830	276.070	273.740
77	251.300	257.860	256.550	259.630	257.440	251.850	248.780
78	227.930	233.640	232.300	234.990	233.370	227.690	225.100
79	205.090	209.450	208.170	210.960	209.550	204.230	201.790
80	182.220	186.290	184.850	186.770	185.580	181.910	179.060
81	159.010	162.740	162.120	163.480	162.180	159.380	157.030
82	135.930	139.940	139.180	140.240	139.180	137.600	135.260
83	113.530	117.470	117.190	117.720	116.400	116.200	114.000
84	92.101	96.120	95.390	95.936	94.863	95.650	93.761
85	70.783	74.484	74.509	74.279	73.844	75.112	74.258
86	50.844	54.140	54.440	54.051	54.155	55.373	55.865
87	31.009	33.568	34.361	34.149	34.925	36.433	37.578
88	14.336	15.693	16.004	16.300	17.382	19.185	20.591
89	1.968	2.256	1.560	2.264	3.157	4.175	5.479
90	0.041	0.040	0.265	0.245	0.410	0.165	0.162
91	0.000	0.000	0.166	0.082	0.246	0.000	0.000
92	0.000	0.000	0.003	0.081	0.164	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

CANDELA TABULATION - (Cont.)

93	0.000	0.000	0.000	0.000	0.083	0.000	0.000
94	0.000	0.000	0.000	0.000	0.080	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	0.083	0.000	0.000
97	0.000	0.000	0.000	0.000	0.083	0.000	0.000
98	0.000	0.000	0.000	0.000	0.083	0.000	0.000
99	0.000	0.000	0.000	0.000	0.083	0.082	0.000
100	0.000	0.000	0.000	0.000	0.083	0.082	0.000
101	0.000	0.000	0.000	0.000	0.083	0.082	0.000
102	0.000	0.000	0.000	0.000	0.083	0.082	0.000
103	0.082	0.000	0.000	0.000	0.083	0.082	0.000
104	0.083	0.162	0.000	0.000	0.083	0.082	0.000
105	0.245	0.246	0.000	0.002	0.083	0.082	0.000
106	0.166	0.329	0.000	0.082	0.083	0.082	0.000
107	0.408	0.411	0.081	0.084	0.084	0.082	0.083
108	0.413	0.412	0.163	0.167	0.165	0.082	0.084
109	0.493	0.493	0.247	0.332	0.167	0.082	0.165
110	0.576	0.576	0.408	0.412	0.248	0.082	0.165
111	0.578	0.577	0.332	0.496	0.248	0.082	0.165
112	0.658	0.577	0.493	0.663	0.249	0.082	0.169
113	0.660	0.660	0.657	0.824	0.332	0.082	0.329
114	0.660	0.740	0.989	0.825	0.495	0.082	0.248
115	0.660	0.823	0.990	0.989	0.495	0.082	0.249
116	0.820	0.905	1.071	0.990	0.495	0.082	0.411
117	0.825	0.907	1.073	1.072	0.495	0.082	0.330
118	0.825	0.907	1.153	1.072	0.497	0.082	0.330
119	0.825	0.987	1.155	1.072	0.663	0.082	0.330
120	0.825	1.072	1.155	1.074	0.744	0.331	0.334
121	0.825	1.072	1.155	1.236	0.826	0.742	0.584
122	0.825	1.153	1.155	1.154	0.909	0.908	0.994
123	0.825	1.155	1.155	1.154	0.989	0.990	1.154
124	0.825	1.155	1.155	1.154	0.908	1.072	1.073
125	0.825	1.155	1.155	1.154	0.908	1.072	1.073
126	0.825	1.155	1.155	1.154	0.908	1.072	1.075
127	0.825	1.155	1.155	1.154	0.908	1.075	1.155
128	0.825	1.155	1.155	1.154	0.908	1.236	1.155
129	0.825	1.155	1.155	1.154	0.908	1.155	1.155
130	0.825	1.155	1.155	1.154	0.908	1.155	1.155
131	0.825	1.155	1.155	1.154	0.908	1.155	1.155
132	0.825	1.155	1.155	1.154	0.908	1.155	1.155
133	0.825	1.155	1.155	1.154	0.908	1.155	1.157
134	0.825	1.155	1.155	1.154	0.908	1.155	1.238
135	0.825	1.155	1.155	1.154	0.906	1.155	1.238
136	0.825	1.155	1.155	1.154	0.821	1.155	1.238
137	0.825	1.155	1.155	1.154	0.660	1.155	1.238
138	0.825	1.155	1.155	1.154	0.657	1.155	1.238
139	0.825	1.155	1.155	1.154	0.494	1.155	1.238
140	0.825	1.155	1.155	1.154	0.413	1.155	1.238
141	0.825	1.155	1.237	1.154	0.407	1.155	1.238
142	0.907	1.155	1.156	1.154	0.246	1.155	1.238
143	0.908	1.155	1.319	1.154	0.165	1.155	1.240
144	0.908	1.155	1.240	1.154	0.164	1.155	1.319
145	0.908	1.155	1.238	1.156	0.081	1.155	1.236
146	0.989	1.155	1.238	1.232	0.000	1.155	1.155
147	0.990	1.155	1.238	1.072	0.000	1.155	1.155
148	1.072	1.155	1.238	1.067	0.000	1.073	1.155

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

CANDELA TABULATION - (Cont.)

149	1.073	1.155	1.238	0.908	0.000	0.990	1.155
150	1.236	1.155	1.238	0.985	0.000	0.989	1.155
151	1.318	1.155	1.238	0.824	0.000	0.908	1.155
152	1.401	1.155	1.238	0.742	0.000	0.908	1.155
153	1.403	1.155	1.320	0.742	0.000	0.988	1.155
154	1.403	1.074	1.159	0.742	0.000	0.907	1.155
155	1.403	0.991	1.073	0.744	0.000	0.825	1.155
156	1.403	0.990	1.073	0.823	0.000	0.825	1.155
157	1.403	0.747	1.073	0.740	0.000	0.825	1.155
158	1.403	0.582	0.911	0.660	0.000	0.825	1.155
159	1.403	0.496	0.907	0.658	0.000	0.825	1.155
160	1.403	0.332	0.907	0.577	0.000	0.826	1.155
161	1.403	0.330	0.907	0.577	0.000	0.907	1.155
162	1.403	0.249	0.907	0.577	0.000	0.742	1.155
163	1.403	0.247	0.907	0.577	0.000	0.742	1.155
164	1.403	0.247	0.989	0.577	0.000	0.742	1.155
165	1.403	0.247	0.990	0.579	0.000	0.742	1.156
166	1.403	0.247	0.990	0.744	0.000	0.826	1.238
167	1.403	0.247	1.071	0.827	0.000	0.907	1.238
168	1.403	0.247	1.237	0.992	0.000	1.236	1.238
169	1.403	0.247	1.238	1.073	0.000	1.155	1.238
170	1.403	0.247	1.238	1.154	0.000	1.155	1.238
171	1.403	0.247	1.238	1.154	0.000	1.155	1.238
172	1.403	0.247	1.238	1.154	0.000	1.155	1.239
173	1.403	0.167	1.238	1.154	0.000	1.155	1.321
174	1.403	0.165	1.238	1.154	0.000	1.155	1.403
175	1.403	0.165	1.238	1.154	0.000	1.155	1.403
176	1.403	0.165	1.238	1.154	0.000	1.155	1.403
177	1.403	0.165	1.238	1.154	0.000	1.155	1.403
178	1.403	0.085	1.238	1.155	0.000	1.155	1.403
179	1.403	0.082	1.238	1.239	0.000	1.155	1.403
180	1.403	1.403	1.403	1.403	1.403	1.403	1.403

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	547.67	N.A.	12.60
0-30	1164.71	N.A.	26.80
0-40	1911.47	N.A.	43.90
0-60	3395.82	N.A.	78.10
0-80	4260.15	N.A.	97.90
0-90	4346.43	N.A.	99.90
10-90	4204.85	N.A.	96.70
20-40	1363.8	N.A.	31.30
20-50	2141.73	N.A.	49.20
40-70	2028.18	N.A.	46.60
60-80	864.33	N.A.	19.90
70-80	320.50	N.A.	7.40
80-90	86.28	N.A.	2.00
90-110	0.14	N.A.	0.00
90-120	0.74	N.A.	0.00
90-130	1.68	N.A.	0.00
90-150	3.28	N.A.	0.10
90-180	4.11	N.A.	0.10
110-180	3.97	N.A.	0.10
0-180	4350.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.59
10-20	406.08
20-30	617.05
30-40	746.75
40-50	777.93
50-60	706.42
60-70	543.83
70-80	320.50
80-90	86.28
90-100	0.02
100-110	0.12
110-120	0.60
120-130	0.93
130-140	0.91
140-150	0.69
150-160	0.47
160-170	0.26
170-180	0.10

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_3500K.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_3500K.IES

UGR TABLE - CORRECTED

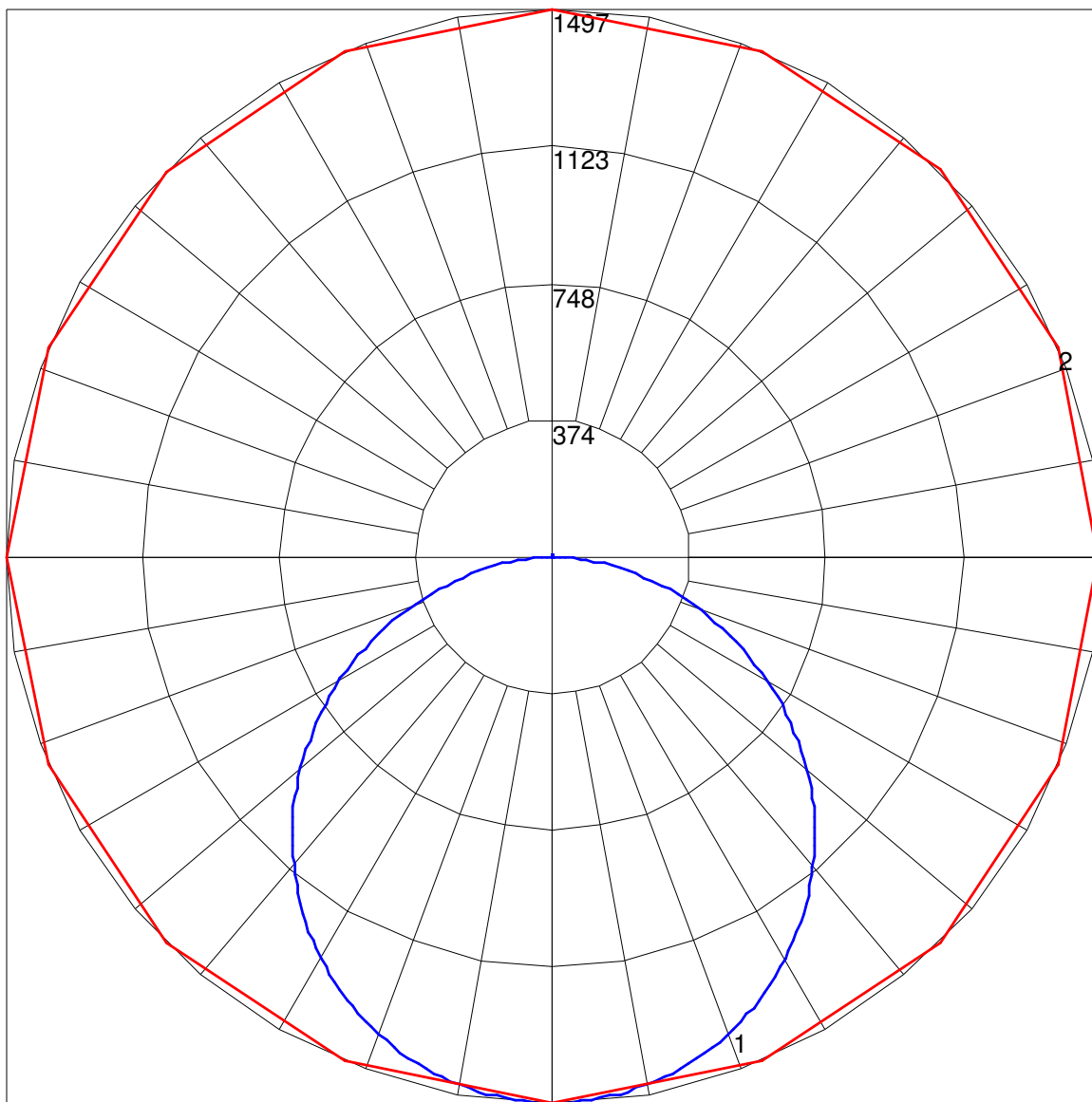
Reflectances

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	17.6	19.2	17.9	19.5	19.8	17.6	19.2	17.9	19.5	19.8
	3H	19.4	20.9	19.8	21.2	21.6	19.4	21.0	19.8	21.3	21.6
	4H	20.1	21.5	20.5	21.9	22.2	20.2	21.6	20.6	22.0	22.3
	6H	20.6	21.9	21.0	22.3	22.7	20.8	22.1	21.2	22.4	22.8
	8H	20.8	22.0	21.2	22.4	22.8	21.0	22.2	21.4	22.6	23.0
	12H	20.9	22.1	21.3	22.4	22.9	21.1	22.3	21.5	22.6	23.1
4H	2H	18.2	19.6	18.6	20.0	20.3	18.2	19.6	18.6	20.0	20.4
	3H	20.3	21.5	20.7	21.9	22.3	20.3	21.5	20.7	21.9	22.3
	4H	21.1	22.2	21.5	22.6	23.0	21.2	22.3	21.6	22.7	23.1
	6H	21.7	22.7	22.2	23.1	23.6	21.9	22.9	22.4	23.3	23.7
	8H	22.0	22.8	22.4	23.3	23.7	22.2	23.0	22.6	23.5	23.9
	12H	22.1	22.9	22.6	23.4	23.8	22.3	23.1	22.8	23.6	24.1
8H	4H	21.5	22.3	21.9	22.8	23.2	21.6	22.4	22.0	22.9	23.3
	6H	22.2	22.9	22.7	23.4	23.9	22.4	23.1	22.8	23.6	24.1
	8H	22.5	23.2	23.0	23.7	24.1	22.7	23.3	23.2	23.8	24.3
	12H	22.7	23.3	23.2	23.8	24.3	22.9	23.5	23.4	24.0	24.6
12H	4H	21.5	22.3	22.0	22.8	23.2	21.6	22.4	22.1	22.8	23.3
	6H	22.3	23.0	22.8	23.4	24.0	22.4	23.1	23.0	23.6	24.1
	8H	22.6	23.2	23.1	23.7	24.3	22.8	23.4	23.3	23.9	24.4

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 1496.9 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.)