



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED45DMVXX50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUE DATE] 2017-5-4 14:21
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE] CPYRA12-LED45DMVxx50
 [LAMPCAT] L130-5070-Qµµ
 [LAMP] DIM45W12S-1120
 [VOLTAGE] 121.2 V
 [CURRENT] 0.372 A
 [POWERFACTOR] 0.987
 [TESTLAB]
 [TESTINST] GPM-1800B
 [TESTDIST] 11.672 m

CHARACTERISTICS

Lumens Per Lamp	5525.2 (1 lamp)
Total Lamp Lumens	5525.2
Luminaire Lumens	5525
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	44.53
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	1510.58	1509.93	1509.05	1508.49	1507.79	1507.28	1510.58	1509.93	1509.05	1508.49
1	1510.77	1509.98	1509.28	1508.53	1507.46	1506.53	1509.23	1508.81	1507.74	1508.44
2	1511.47	1510.16	1508.44	1507.37	1505.32	1504.76	1507.42	1507.18	1507.37	1507.88
3	1509.89	1508.81	1507.09	1505.88	1502.99	1502.57	1505.27	1505.32	1504.95	1506.06
4	1507.93	1507.32	1505.55	1504.11	1502.01	1500.66	1502.62	1503.13	1503.08	1504.25
5	1505.74	1504.76	1502.80	1501.59	1499.49	1497.86	1499.73	1499.17	1500.29	1501.64
6	1503.22	1502.10	1499.68	1497.58	1496.00	1494.23	1495.86	1496.33	1495.86	1497.07
7	1501.08	1498.66	1495.35	1494.32	1491.01	1488.87	1491.25	1491.06	1491.81	1493.34
8	1496.19	1494.42	1490.87	1489.06	1485.56	1484.02	1485.80	1486.26	1487.15	1488.73
9	1492.60	1489.90	1486.54	1484.77	1481.09	1479.36	1481.55	1481.83	1481.69	1483.28
10	1487.94	1485.89	1482.63	1480.58	1477.22	1474.19	1476.85	1477.36	1476.66	1478.57
11	1483.65	1480.90	1477.73	1475.87	1472.61	1469.67	1472.47	1472.75	1471.68	1472.70
12	1479.55	1478.25	1473.40	1471.16	1468.55	1464.59	1467.34	1468.32	1466.78	1467.95
13	1474.43	1474.47	1469.02	1466.64	1464.50	1460.03	1462.08	1464.50	1461.52	1464.22
14	1471.40	1471.16	1465.99	1462.50	1461.29	1455.28	1457.93	1460.12	1457.23	1459.89
15	1467.25	1467.86	1462.31	1458.86	1457.70	1451.69	1454.44	1456.30	1453.04	1455.74
16	1463.29	1464.83	1458.96	1455.88	1454.25	1447.91	1449.92	1452.29	1449.22	1452.06
17	1460.21	1462.64	1456.53	1452.90	1450.94	1444.46	1446.75	1448.38	1444.37	1447.96
18	1457.42	1460.21	1453.04	1450.20	1449.12	1441.53	1443.53	1446.65	1442.32	1444.56
19	1454.67	1458.40	1451.59	1447.54	1447.35	1438.64	1440.88	1444.28	1440.08	1442.41
20	1452.39	1456.81	1449.73	1446.52	1445.49	1435.98	1438.27	1441.53	1437.66	1440.41
21	1450.90	1454.90	1447.73	1445.02	1442.74	1433.79	1435.15	1438.69	1435.66	1438.17
22	1448.98	1453.64	1446.19	1442.79	1439.90	1431.79	1432.58	1436.36	1433.56	1436.12
23	1447.07	1452.06	1444.19	1440.78	1439.06	1429.32	1429.79	1433.84	1431.56	1434.73
24	1445.77	1450.06	1442.88	1438.97	1436.92	1426.39	1426.90	1431.51	1429.69	1433.42
25	1443.86	1447.73	1440.69	1436.73	1433.47	1424.24	1423.03	1428.48	1427.32	1431.42
26	1441.39	1446.00	1437.94	1433.47	1430.81	1420.19	1419.68	1425.13	1424.85	1428.39
27	1439.06	1442.79	1435.29	1430.63	1427.08	1417.67	1414.74	1420.98	1422.19	1425.92
28	1435.38	1439.01	1431.84	1425.73	1422.33	1413.06	1409.75	1415.67	1418.84	1423.96
29	1430.72	1435.52	1426.67	1420.56	1416.79	1407.33	1403.46	1409.94	1414.60	1419.12
30	1426.76	1430.91	1422.01	1414.04	1410.78	1400.48	1396.28	1403.32	1409.10	1413.11
31	1420.37	1423.68	1415.72	1406.26	1402.53	1393.49	1388.74	1396.80	1403.09	1409.10
32	1412.31	1416.41	1408.87	1398.94	1394.09	1384.64	1380.21	1389.11	1395.59	1400.71
33	1406.63	1408.54	1400.66	1390.65	1386.45	1375.83	1369.77	1380.12	1388.50	1392.65
34	1398.34	1400.29	1392.65	1382.03	1375.46	1365.81	1360.13	1369.07	1378.63	1383.80
35	1389.25	1390.74	1382.12	1370.05	1364.79	1354.72	1349.04	1359.43	1368.23	1374.66
36	1378.63	1379.42	1371.73	1358.54	1353.28	1343.73	1336.50	1347.87	1357.70	1364.37
37	1367.30	1367.58	1360.03	1346.38	1341.72	1331.24	1323.46	1334.64	1345.68	1352.67
38	1355.19	1354.35	1347.45	1332.40	1326.39	1316.05	1307.57	1319.50	1332.73	1338.23
39	1340.04	1339.48	1332.54	1316.33	1310.32	1301.65	1292.47	1304.77	1317.12	1323.92
40	1325.13	1324.39	1317.45	1300.16	1294.29	1285.25	1276.35	1289.21	1301.79	1308.59
41	1309.20	1308.73	1302.16	1283.20	1277.75	1269.45	1259.62	1273.18	1286.32	1292.28
42	1292.05	1292.84	1285.43	1266.05	1261.25	1252.35	1240.75	1254.45	1267.96	1272.11
43	1274.81	1275.79	1268.47	1248.67	1242.66	1231.85	1222.44	1238.14	1250.39	1254.91
44	1255.38	1257.38	1249.37	1228.68	1224.58	1213.58	1203.15	1220.34	1231.62	1236.32
45	1237.11	1240.00	1230.59	1210.00	1206.64	1195.22	1184.23	1201.47	1212.60	1217.31
46	1218.01	1221.88	1212.47	1191.17	1187.63	1173.70	1162.75	1180.41	1190.75	1195.60
47	1198.16	1202.54	1191.12	1171.00	1166.38	1154.73	1141.64	1161.40	1170.90	1175.51
48	1176.49	1181.81	1171.37	1148.86	1146.67	1133.81	1121.42	1141.69	1150.07	1154.87
49	1156.32	1162.10	1150.73	1128.55	1126.82	1113.54	1100.64	1120.76	1129.71	1134.23
50	1135.40	1141.78	1130.04	1106.88	1106.32	1091.97	1077.10	1099.00	1108.88	1112.89
51	1114.06	1121.88	1110.09	1085.49	1083.81	1068.81	1054.79	1076.69	1085.31	1088.75
52	1092.11	1099.66	1085.91	1061.08	1061.64	1046.17	1031.86	1055.81	1062.43	1066.62
53	1067.13	1077.62	1063.69	1038.29	1039.74	1023.29	1008.61	1033.30	1040.57	1044.58

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CANDELA TABULATION - (Cont.)

54	1043.93	1056.18	1040.53	1015.32	1017.14	999.66	982.28	1007.44	1014.71	1020.58
55	1021.42	1033.44	1017.04	991.56	993.56	975.76	957.31	983.17	991.09	995.70
56	997.05	1009.26	991.18	967.37	966.49	948.64	932.15	958.05	965.97	970.12
57	970.07	982.47	966.39	939.51	941.51	923.15	906.29	932.19	940.25	944.68
58	944.45	957.03	941.33	914.39	916.02	897.66	877.26	903.40	914.11	916.02
59	919.33	931.35	915.37	888.25	887.41	868.92	850.09	876.37	884.25	889.32
60	890.44	901.63	886.06	859.64	860.20	841.47	823.02	848.83	856.38	862.02
61	862.90	874.41	859.13	832.29	831.97	813.93	795.76	820.36	828.52	833.78
62	835.69	846.08	831.27	805.17	804.47	786.44	764.54	789.24	800.65	803.22
63	807.69	817.85	803.31	777.49	773.30	755.46	736.44	760.16	768.92	774.47
64	779.55	788.77	772.37	749.44	744.60	727.12	708.11	731.23	739.75	745.81
65	748.23	756.48	743.43	717.71	715.48	698.42	676.85	702.29	710.72	717.06
66	719.06	727.22	714.78	689.38	686.54	669.67	648.38	669.81	681.27	684.82
67	690.41	697.16	685.70	661.52	657.32	641.16	619.95	640.78	648.89	654.99
68	661.52	665.06	653.83	630.16	625.55	609.61	591.39	611.47	619.16	625.97
69	629.79	635.47	624.61	601.78	597.08	581.23	562.88	582.45	590.32	596.84
70	600.94	606.02	596.19	573.73	568.79	553.56	532.54	551.09	561.52	565.07
71	572.10	576.90	567.72	546.24	540.93	525.88	505.98	523.27	529.79	536.64
72	541.72	545.91	537.11	516.51	510.97	496.34	479.56	495.96	502.58	509.38
73	514.28	518.10	509.38	489.53	483.99	469.82	453.61	468.99	475.65	481.89
74	486.92	490.84	481.89	463.30	457.34	444.38	425.84	440.47	446.90	453.14
75	460.69	463.63	455.38	437.95	429.15	416.47	401.10	414.93	420.95	426.82
76	434.64	437.07	429.66	413.02	404.12	391.68	377.52	390.42	395.36	401.93
77	409.39	409.02	401.65	386.42	379.85	367.87	352.40	364.38	371.65	378.08
78	382.64	384.23	377.52	363.17	356.46	345.09	330.18	341.31	345.97	352.26
79	359.02	360.46	353.89	340.52	333.95	322.86	308.88	319.13	323.42	329.85
80	336.56	337.59	331.39	318.67	309.86	299.05	288.10	297.37	301.19	307.86
81	312.28	313.08	307.25	295.56	288.71	278.22	267.46	276.08	279.99	286.61
82	290.85	291.36	285.82	274.96	267.65	257.53	245.42	253.43	259.30	266.15
83	270.30	270.25	264.94	254.88	246.96	236.80	224.82	232.00	236.43	243.65
84	250.22	249.85	244.39	234.80	223.38	213.27	202.46	209.40	215.09	223.38
85	228.04	226.73	220.96	211.59	200.22	189.78	179.44	185.78	191.55	201.25
86	206.74	204.37	197.75	188.01	177.25	167.79	156.75	162.57	169.84	178.60
87	183.87	181.63	175.34	166.72	157.12	148.55	139.04	143.93	148.92	156.65
88	163.27	161.17	153.39	147.52	137.08	129.16	120.78	125.53	131.63	139.23
89	145.01	141.37	135.50	127.86	118.26	111.32	106.28	110.06	113.79	121.29
90	126.09	123.62	117.28	110.20	106.24	103.40	99.95	102.60	104.93	107.40
91	110.01	108.52	106.05	103.07	99.90	97.29	94.22	96.59	98.78	100.93
92	103.12	102.00	99.53	96.87	93.38	91.19	88.58	90.95	92.82	94.78
93	96.31	95.24	93.05	90.40	87.93	86.02	83.08	85.55	87.51	89.37
94	90.68	89.74	87.74	85.18	82.94	81.40	78.51	80.28	82.15	83.64
95	85.50	84.48	82.61	80.38	78.56	77.02	74.18	75.81	77.16	78.98
96	80.75	79.63	77.95	75.76	73.76	72.55	70.22	71.34	72.22	74.37
97	76.09	74.79	73.43	71.24	69.89	68.82	66.12	67.33	67.61	69.99
98	71.94	70.64	69.29	67.38	66.07	65.19	62.90	63.65	62.81	65.28
99	68.31	66.72	65.65	63.88	62.53	61.88	59.83	60.34	58.99	61.41
100	64.67	63.14	62.07	60.71	58.85	58.57	56.99	57.22	55.54	57.73
101	61.55	59.60	58.57	57.27	55.87	55.59	54.05	54.28	52.05	53.82
102	58.15	56.52	55.64	54.56	52.98	53.03	51.67	51.77	48.46	50.74
103	55.36	53.91	52.79	51.72	50.42	50.56	49.34	49.25	45.48	47.90
104	52.98	51.26	50.18	49.20	47.95	48.32	47.02	47.11	42.91	44.92
105	50.46	48.83	47.67	46.92	45.34	45.90	44.92	44.69	40.12	42.40
106	48.04	46.41	45.20	44.55	43.24	43.80	42.96	42.82	37.74	39.93
107	45.99	44.36	43.05	42.31	41.19	41.80	41.28	41.14	35.46	37.46
108	44.17	42.26	40.96	40.35	39.23	40.12	39.70	39.37	33.60	35.27
109	42.22	40.40	39.09	38.44	37.42	38.39	38.07	37.60	31.69	32.99

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110	40.35	38.44	37.00	36.53	35.74	36.81	36.53	36.20	30.10	30.85
111	38.72	36.95	35.41	33.18	34.11	35.46	35.13	34.57	28.47	29.08
112	37.18	35.41	33.78	29.73	32.24	33.88	33.55	33.13	27.12	27.26
113	35.69	34.20	32.15	27.68	30.75	32.52	32.34	31.82	25.63	24.98
114	34.20	32.62	30.66	26.37	29.22	31.22	31.08	30.57	24.51	23.16
115	32.71	31.27	29.03	25.35	27.77	29.91	29.82	29.31	23.58	21.81
116	31.36	29.96	27.72	23.95	26.61	28.61	28.56	28.14	22.60	20.60
117	30.29	28.75	26.37	22.93	25.07	27.44	27.54	26.93	21.76	19.62
118	28.98	27.40	24.88	21.90	24.04	26.33	26.37	25.77	21.11	18.73
119	27.72	26.37	23.62	20.78	22.83	25.21	25.49	24.93	20.22	17.89
120	26.42	25.25	22.65	19.90	21.95	24.42	24.46	24.04	19.62	17.38
121	25.44	24.37	21.67	19.01	20.87	23.44	23.44	22.88	19.06	16.68
122	24.37	23.48	20.64	18.27	19.94	22.51	22.60	22.09	18.27	16.17
123	23.34	22.46	19.66	17.43	19.06	21.85	21.76	21.25	17.94	15.70
124	22.32	21.81	18.68	16.68	18.22	21.11	20.92	20.50	17.24	15.33
125	21.39	20.97	17.99	16.03	17.43	20.32	20.22	19.90	16.73	14.77
126	20.60	20.04	17.29	15.38	16.73	19.66	19.38	19.20	16.12	14.35
127	19.80	19.34	16.54	14.63	16.22	18.82	18.87	18.50	15.89	13.93
128	19.06	18.59	15.98	14.17	15.75	18.27	18.13	17.99	15.47	13.65
129	18.45	17.94	15.47	13.79	15.28	17.66	16.82	17.43	15.10	13.42
130	17.43	17.29	14.86	13.37	14.63	17.05	15.66	16.63	14.63	13.23
131	15.98	16.73	14.49	12.86	14.26	16.59	14.96	16.40	14.30	13.00
132	15.24	16.36	14.03	12.67	13.89	15.98	14.54	15.94	14.17	12.81
133	14.72	15.75	13.84	12.39	13.61	15.47	14.21	15.28	13.75	12.49
134	14.30	15.28	13.56	12.02	13.33	15.05	13.98	14.77	13.37	12.25
135	13.89	14.82	13.37	11.93	13.14	14.72	13.70	14.49	13.23	12.21
136	13.56	14.49	13.09	11.93	12.91	14.21	13.51	14.07	13.00	11.88
137	13.42	14.03	12.77	11.88	12.63	13.70	13.28	13.79	13.00	11.88
138	13.00	13.75	12.53	11.88	12.53	13.51	12.95	13.56	12.77	11.88
139	12.91	13.23	12.35	11.70	12.39	13.28	12.77	13.28	12.63	11.84
140	12.77	13.09	12.25	11.74	12.21	13.00	12.58	13.09	12.44	11.84
141	12.44	12.81	12.11	11.70	12.21	12.77	12.44	12.86	12.25	11.60
142	12.39	12.53	12.02	11.74	11.93	12.67	12.44	12.53	12.25	11.74
143	12.39	12.30	12.02	11.84	12.02	12.53	12.30	12.63	12.07	11.88
144	12.30	12.39	11.98	11.98	11.84	12.30	12.25	12.58	12.11	11.84
145	12.30	12.16	12.11	12.02	11.74	12.44	12.25	12.39	12.11	11.74
146	12.30	12.25	12.02	12.07	11.98	12.35	12.02	12.44	12.16	11.79
147	12.16	12.21	12.02	12.30	11.98	12.35	12.02	12.25	12.16	11.84
148	12.21	12.25	12.07	12.35	12.16	12.58	12.07	12.49	12.25	11.93
149	12.53	12.39	12.30	12.21	12.25	12.58	12.16	12.35	12.30	12.16
150	12.67	12.49	12.35	12.39	12.30	12.77	12.53	12.63	12.39	12.25
151	12.77	12.58	12.53	12.49	12.39	12.86	12.49	12.77	12.39	12.44
152	12.86	12.63	12.53	12.49	12.63	13.05	12.72	12.72	12.58	12.39
153	12.95	12.81	12.58	12.81	12.67	13.14	12.67	12.86	12.72	12.53
154	12.86	12.86	12.72	12.81	12.72	13.09	12.81	12.86	12.81	12.49
155	12.86	13.09	12.86	12.81	12.81	13.09	12.91	13.00	12.81	12.77
156	13.05	13.05	12.81	12.95	13.05	13.28	12.86	13.28	12.95	12.77
157	13.37	13.19	12.95	13.00	12.91	13.28	12.95	13.09	12.86	12.86
158	13.42	13.28	13.05	13.05	12.95	13.61	13.09	13.23	13.09	13.14
159	13.28	13.42	13.23	13.23	12.95	13.61	13.14	13.28	13.19	13.09
160	13.42	13.47	13.19	13.37	13.23	13.61	13.19	13.42	13.33	13.14
161	13.51	13.56	13.33	13.33	13.33	13.70	13.33	13.51	13.33	13.28
162	13.61	13.65	13.37	13.47	13.19	13.75	13.51	13.75	13.47	13.47
163	13.65	13.89	13.47	13.56	13.37	13.84	13.51	13.70	13.61	13.47
164	13.84	13.84	13.51	13.75	13.61	13.93	13.61	13.79	13.65	13.51
165	13.98	13.79	13.75	13.65	13.84	14.03	13.75	13.84	13.56	13.79

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

166	14.12	13.98	13.79	13.65	13.65	14.07	13.70	13.98	13.79	13.65
167	14.07	14.03	13.61	13.79	13.79	14.12	13.84	14.21	13.79	13.65
168	14.12	14.07	13.84	13.89	13.75	14.17	13.93	13.98	13.79	13.61
169	14.40	14.17	13.89	13.93	13.93	14.26	14.03	14.12	13.84	13.70
170	14.21	14.26	13.84	13.93	14.03	14.35	14.03	14.21	13.89	13.75
171	14.44	14.26	13.89	14.07	14.03	14.21	13.98	14.17	14.03	13.89
172	14.58	14.40	14.07	14.03	14.03	14.35	14.07	14.07	14.12	14.03
173	14.44	14.44	14.12	14.17	14.12	14.44	14.17	14.26	14.21	14.12
174	14.40	14.40	14.17	14.26	14.26	14.54	14.35	14.26	14.49	14.12
175	14.63	14.49	14.21	13.98	14.07	14.44	14.49	14.30	14.40	14.21
176	14.63	14.49	14.17	14.12	14.12	14.49	14.35	14.30	14.49	14.21
177	14.58	14.40	14.26	13.93	14.26	14.54	14.44	14.40	14.35	14.17
178	14.54	14.35	14.49	14.30	14.26	14.72	14.68	14.30	14.40	14.35
179	14.68	14.58	14.35	14.26	14.30	14.54	14.68	14.30	14.58	14.35
180	14.77	14.58	14.49	14.30	14.21	14.82	14.63	14.54	14.77	14.40

Vert. Horizontal Angles

	<u>300</u>	<u>330</u>	<u>360</u>
0	1507.79	1507.28	1510.58
1	1507.97	1507.37	1510.77
2	1507.70	1507.42	1511.47
3	1505.27	1506.02	1509.89
4	1504.71	1504.81	1507.93
5	1502.06	1502.43	1505.74
6	1498.61	1499.49	1503.22
7	1495.07	1495.63	1501.08
8	1489.38	1490.83	1496.19
9	1485.14	1486.26	1492.60
10	1480.53	1481.18	1487.94
11	1475.82	1477.17	1483.65
12	1471.77	1472.66	1479.55
13	1467.53	1468.04	1474.43
14	1463.62	1463.66	1471.40
15	1460.03	1459.89	1467.25
16	1455.37	1456.44	1463.29
17	1452.62	1452.29	1460.21
18	1449.50	1449.59	1457.42
19	1446.79	1446.89	1454.67
20	1445.35	1444.93	1452.39
21	1444.37	1442.93	1450.90
22	1442.41	1440.04	1448.98
23	1441.06	1439.34	1447.07
24	1437.89	1437.43	1445.77
25	1435.89	1435.43	1443.86
26	1433.75	1433.05	1441.39
27	1431.56	1429.97	1439.06
28	1428.76	1427.64	1435.38
29	1424.57	1423.96	1430.72
30	1420.33	1418.79	1426.76
31	1414.27	1413.85	1420.37
32	1408.17	1406.44	1412.31
33	1401.32	1399.73	1406.63
34	1393.02	1393.07	1398.34
35	1383.19	1383.05	1389.25
36	1373.08	1373.87	1378.63

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CANDELA TABULATION - (Cont.)

37	1362.08	1362.69	1367.30
38	1349.69	1350.99	1355.19
39	1334.73	1336.18	1340.04
40	1319.73	1322.76	1325.13
41	1304.40	1307.85	1309.20
42	1286.13	1290.28	1292.05
43	1269.27	1273.83	1274.81
44	1252.30	1255.85	1255.38
45	1234.37	1237.49	1237.11
46	1215.96	1217.92	1218.01
47	1194.39	1197.14	1198.16
48	1174.82	1177.19	1176.49
49	1155.53	1156.83	1156.32
50	1136.05	1136.61	1135.40
51	1113.87	1114.01	1114.06
52	1092.95	1092.48	1092.11
53	1071.51	1070.58	1067.13
54	1048.87	1047.38	1043.93
55	1023.19	1021.84	1021.42
56	998.87	997.38	997.05
57	973.85	972.50	970.07
58	947.90	947.29	944.45
59	919.19	918.31	919.33
60	892.59	891.89	890.44
61	863.74	864.12	862.90
62	835.88	835.93	835.69
63	804.29	805.08	807.69
64	774.93	776.56	779.55
65	745.76	747.95	748.23
66	715.90	718.64	719.06
67	682.81	686.87	690.41
68	652.85	657.18	661.52
69	623.22	627.69	629.79
70	594.05	598.43	600.94
71	562.27	566.56	572.10
72	534.03	538.51	541.72
73	506.35	510.46	514.28
74	478.86	480.59	486.92
75	449.60	453.56	460.69
76	423.60	427.47	434.64
77	398.44	402.59	409.39
78	371.88	378.08	382.64
79	348.49	352.03	359.02
80	325.52	329.15	336.56
81	303.29	306.97	312.28
82	281.90	285.63	290.85
83	258.56	262.71	270.30
84	237.40	241.92	250.22
85	215.27	220.82	228.04
86	191.18	197.52	206.74
87	167.46	173.24	183.87
88	148.55	154.14	163.27
89	130.79	136.90	145.01
90	111.60	116.77	126.09
91	104.33	106.47	110.01
92	97.99	100.04	103.12

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CANDELA TABULATION - (Cont.)

93	92.17	94.17	96.31
94	86.67	88.11	90.68
95	81.12	82.75	85.50
96	76.04	77.95	80.75
97	71.24	73.43	76.09
98	66.63	69.57	71.94
99	62.07	65.37	68.31
100	58.06	61.79	64.67
101	54.42	58.90	61.55
102	50.79	55.64	58.15
103	47.76	52.98	55.36
104	44.69	50.42	52.98
105	41.89	48.13	50.46
106	39.14	45.80	48.04
107	36.76	43.89	45.99
108	34.76	42.12	44.17
109	32.71	40.12	42.22
110	30.80	38.77	40.35
111	29.26	37.18	38.72
112	27.96	35.65	37.18
113	26.42	34.34	35.69
114	25.39	32.85	34.20
115	24.28	31.41	32.71
116	23.30	30.01	31.36
117	22.37	28.94	30.29
118	21.57	27.72	28.98
119	20.83	26.56	27.72
120	20.08	25.58	26.42
121	19.38	24.56	25.44
122	18.68	23.62	24.37
123	18.08	22.51	23.34
124	17.52	21.62	22.32
125	17.05	20.97	21.39
126	16.68	20.08	20.60
127	16.17	19.38	19.80
128	15.84	18.78	19.06
129	15.38	17.99	18.45
130	14.91	17.52	17.43
131	14.54	16.82	15.98
132	14.35	16.36	15.24
133	13.98	15.80	14.72
134	13.70	15.42	14.30
135	13.33	14.86	13.89
136	13.09	14.58	13.56
137	12.81	14.17	13.42
138	12.67	13.79	13.00
139	12.49	13.51	12.91
140	12.30	13.23	12.77
141	12.11	13.00	12.44
142	12.02	12.67	12.39
143	11.93	12.58	12.39
144	11.74	12.35	12.30
145	11.70	12.02	12.30
146	11.70	11.88	12.30
147	11.74	11.88	12.16
148	11.84	11.84	12.21

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CANDELA TABULATION - (Cont.)

149	11.93	11.93	12.53
150	12.02	12.02	12.67
151	12.11	12.11	12.77
152	12.16	12.30	12.86
153	12.39	12.30	12.95
154	12.39	12.53	12.86
155	12.44	12.67	12.86
156	12.44	12.77	13.05
157	12.63	12.91	13.37
158	12.63	12.91	13.42
159	12.77	13.09	13.28
160	12.86	13.19	13.42
161	12.91	13.28	13.51
162	13.05	13.37	13.61
163	13.09	13.42	13.65
164	13.19	13.47	13.84
165	13.56	13.56	13.98
166	13.51	13.65	14.12
167	13.51	13.70	14.07
168	13.65	13.79	14.12
169	13.75	13.84	14.40
170	13.75	13.89	14.21
171	13.89	13.89	14.44
172	13.93	13.79	14.58
173	13.84	14.17	14.44
174	13.84	14.07	14.40
175	13.98	14.17	14.63
176	14.12	14.35	14.63
177	14.07	14.35	14.58
178	14.21	14.54	14.54
179	14.12	14.30	14.68
180	14.26	14.40	14.77

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	555.86	10.10	10.10
0-30	1218.48	22.10	22.10
0-40	2076.55	37.60	37.60
0-60	3907.48	70.70	70.70
0-80	5086.45	92.10	92.10
0-90	5312.57	96.20	96.20
10-90	5169.97	93.60	93.60
20-40	1520.69	27.50	27.50
20-50	2459.21	44.50	44.50
40-70	2546.39	46.10	46.10
60-80	1178.96	21.30	21.30
70-80	463.51	8.40	8.40
80-90	226.12	4.10	4.10
90-110	137.94	2.50	2.50
90-120	166.21	3.00	3.00
90-130	183.15	3.30	3.30
90-150	201.53	3.60	3.60
90-180	212.69	3.80	3.80
110-180	74.75	1.40	1.40
0-180	5525.25	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.59
10-20	413.27
20-30	662.61
30-40	858.07
40-50	938.52
50-60	892.41
60-70	715.46
70-80	463.51
80-90	226.12
90-100	88.87
100-110	49.07
110-120	28.27
120-130	16.94
130-140	10.70
140-150	7.67
150-160	5.93
160-170	3.87
170-180	1.35

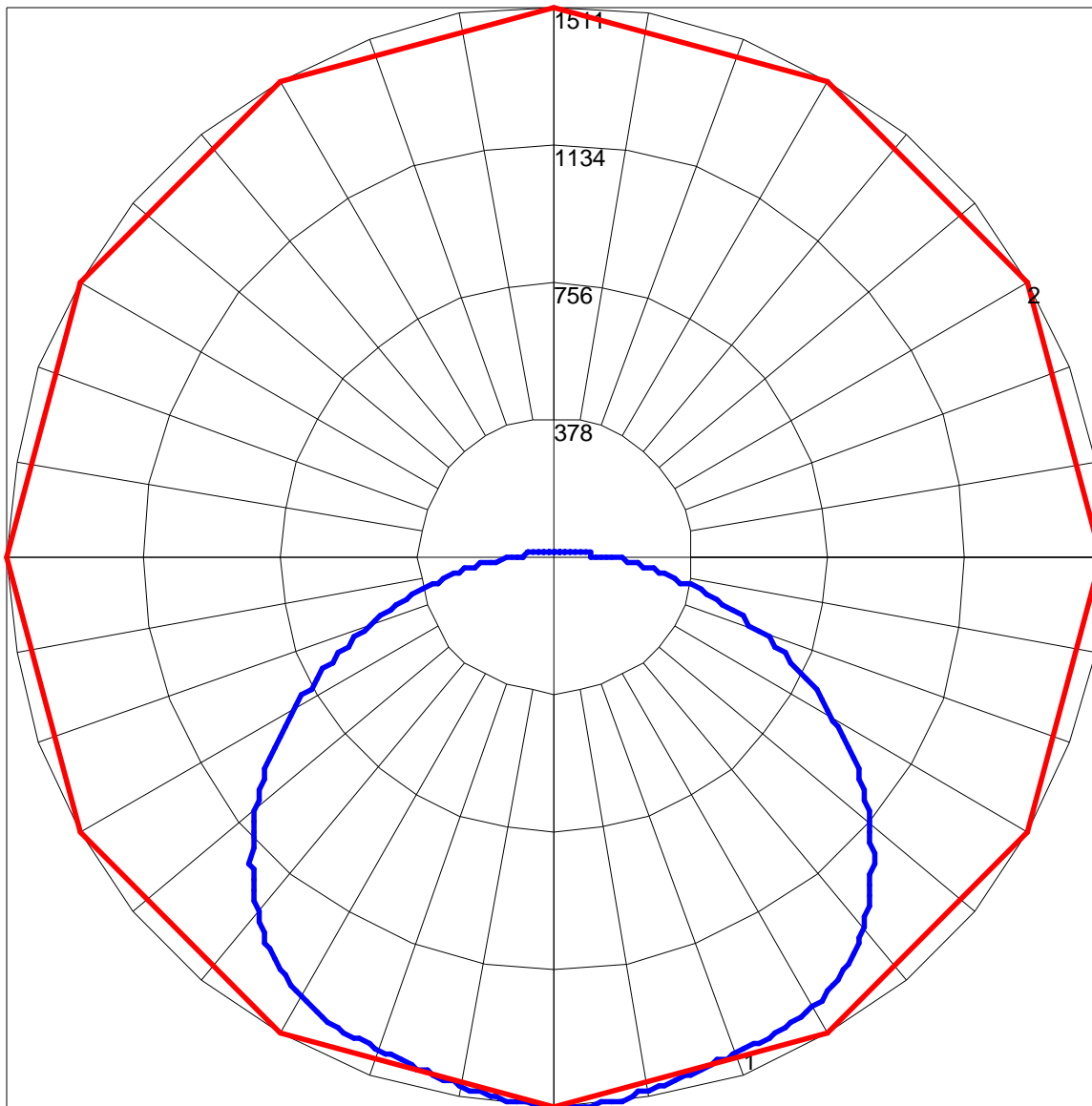
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	106	101	96	92	103	98	94	90	93	90	87	89	86	83	85	82	80	78
2	96	87	80	73	93	85	78	72	81	75	70	77	72	68	73	69	66	63
3	87	76	67	60	84	74	66	59	70	63	58	67	61	56	64	59	55	52
4	79	67	57	50	77	65	56	50	62	55	49	59	53	48	57	51	46	44
5	73	59	50	43	70	58	49	42	55	48	42	53	46	41	51	45	40	38
6	67	53	44	37	65	52	43	37	50	42	36	48	41	35	46	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	34	28	41	33	28	39	33	28	38	32	27	25
9	54	40	31	26	52	39	31	25	38	30	25	36	30	25	35	29	24	22
10	50	37	28	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 1511.47 Located At Horizontal Angle = 0, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)