



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED45DMVXX40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUE DATE] 2017-5-18 16:46
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE] CPYRA12-LED45DMVxx40
 [LAMP CAT] L130-4070-Qμμ
 [LAMP] DIM45W12S-1120
 [VOLTAGE] 121.0 V
 [CURRENT] 0.357 A
 [POWERFACTOR] 0.993
 [TESTLAB]
 [TESTINST] GPM-1800B
 [TESTDIST] 11.672 m

CHARACTERISTICS

Lumens Per Lamp	5543.5 (1 lamp)
Total Lamp Lumens	5543.5
Luminaire Lumens	5543
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	42.96
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	1523.96	1523.86	1524.28	1523.72	1525.31	1523.35	1523.96	1523.86	1524.28	1523.72
1	1524.10	1523.91	1524.10	1524.70	1524.66	1523.30	1522.84	1522.93	1523.54	1523.35
2	1523.96	1522.98	1522.93	1523.40	1523.12	1521.77	1521.91	1521.30	1522.47	1522.84
3	1523.16	1521.91	1521.58	1521.81	1520.70	1519.39	1519.25	1519.58	1520.56	1521.77
4	1521.16	1520.04	1519.58	1519.16	1518.37	1516.08	1515.99	1516.69	1517.95	1519.67
5	1519.67	1518.27	1515.48	1516.13	1512.12	1512.26	1511.89	1513.10	1513.38	1516.55
6	1517.11	1515.76	1512.40	1509.56	1507.97	1505.83	1504.99	1509.14	1509.98	1513.24
7	1513.80	1513.52	1508.49	1505.27	1503.55	1501.22	1500.15	1504.48	1505.69	1509.05
8	1510.96	1509.37	1504.15	1500.43	1498.80	1496.42	1495.16	1497.40	1501.17	1504.57
9	1506.20	1504.95	1499.49	1495.86	1494.23	1491.81	1490.41	1492.55	1496.61	1499.68
10	1501.50	1500.33	1496.75	1492.55	1489.76	1487.43	1486.31	1488.64	1494.51	1496.33
11	1496.79	1495.77	1492.69	1487.85	1484.86	1484.72	1481.79	1484.54	1490.31	1491.90
12	1492.09	1489.06	1488.45	1483.23	1480.76	1480.90	1479.32	1481.09	1486.68	1487.75
13	1487.52	1484.96	1484.77	1479.09	1476.38	1477.04	1475.59	1478.76	1483.23	1483.88
14	1480.34	1480.62	1480.90	1475.08	1473.26	1473.68	1472.14	1475.17	1480.16	1480.06
15	1476.24	1476.43	1475.26	1470.09	1469.67	1470.65	1468.79	1471.54	1474.57	1473.77
16	1472.38	1472.38	1471.91	1466.88	1466.46	1466.92	1464.83	1468.28	1471.63	1470.74
17	1468.69	1469.77	1468.79	1463.80	1463.52	1464.73	1462.78	1465.62	1469.39	1468.04
18	1467.06	1466.41	1466.22	1461.15	1458.44	1463.29	1460.87	1462.45	1467.62	1466.04
19	1464.45	1463.24	1463.85	1458.72	1456.39	1461.52	1459.52	1460.35	1466.50	1465.62
20	1461.98	1460.54	1462.22	1455.83	1454.44	1460.07	1458.16	1458.68	1465.01	1463.94
21	1459.66	1457.28	1460.31	1453.83	1452.67	1457.74	1456.39	1457.33	1463.76	1462.54
22	1457.70	1455.14	1457.98	1451.83	1450.43	1456.30	1455.23	1455.18	1462.50	1461.19
23	1454.53	1452.76	1455.88	1449.96	1450.85	1454.62	1454.11	1453.64	1461.05	1459.66
24	1452.76	1450.24	1453.78	1449.31	1448.57	1454.48	1452.43	1451.69	1459.79	1457.70
25	1450.76	1446.89	1451.22	1446.98	1446.28	1452.20	1452.01	1449.92	1457.98	1456.11
26	1448.52	1444.14	1448.15	1444.37	1443.35	1449.40	1449.40	1447.21	1455.93	1454.16
27	1445.54	1440.92	1444.60	1441.20	1437.76	1446.10	1446.61	1445.02	1452.71	1452.29
28	1442.93	1437.06	1438.41	1434.87	1432.86	1441.58	1442.41	1440.69	1446.70	1448.43
29	1439.57	1431.79	1432.77	1429.32	1427.08	1435.75	1435.29	1435.33	1441.34	1444.65
30	1434.82	1426.57	1426.43	1423.36	1420.61	1426.43	1429.23	1427.13	1435.15	1439.57
31	1430.63	1419.91	1419.12	1416.32	1412.73	1418.79	1422.38	1420.89	1428.16	1434.87
32	1424.01	1412.50	1411.43	1408.68	1404.07	1410.36	1414.64	1413.25	1422.01	1428.16
33	1416.51	1404.63	1403.41	1400.06	1394.89	1400.57	1405.74	1404.81	1413.34	1420.00
34	1408.26	1393.02	1393.54	1390.18	1384.68	1391.02	1395.82	1395.35	1404.21	1411.20
35	1395.73	1383.24	1382.91	1379.04	1373.78	1379.60	1384.96	1385.33	1393.49	1401.55
36	1385.20	1372.80	1371.31	1365.95	1361.29	1367.02	1373.03	1373.17	1382.21	1387.80
37	1374.01	1361.20	1356.40	1352.95	1347.36	1350.99	1359.52	1359.75	1366.84	1376.44
38	1362.08	1348.38	1342.75	1339.07	1332.17	1335.80	1343.12	1345.12	1352.49	1363.67
39	1348.85	1334.36	1327.84	1324.06	1316.28	1319.68	1327.51	1327.42	1337.16	1349.74
40	1334.87	1318.89	1311.67	1307.94	1295.50	1302.12	1311.25	1311.01	1320.89	1334.27
41	1318.94	1302.63	1293.26	1289.21	1277.75	1284.41	1291.63	1294.29	1302.72	1317.45
42	1302.25	1285.48	1275.79	1271.83	1259.71	1266.05	1273.88	1274.06	1285.48	1300.86
43	1285.20	1265.58	1258.04	1253.98	1241.07	1244.85	1255.52	1255.71	1267.82	1283.66
44	1265.40	1247.92	1240.05	1235.34	1221.83	1226.12	1236.04	1236.42	1249.23	1263.63
45	1247.18	1229.43	1220.48	1216.57	1202.03	1206.55	1215.49	1216.52	1229.38	1244.94
46	1228.35	1210.37	1201.24	1196.25	1181.39	1186.00	1195.18	1196.48	1209.72	1225.51
47	1209.16	1187.86	1181.29	1176.17	1160.74	1166.43	1174.40	1175.51	1189.77	1205.57
48	1187.26	1167.73	1161.40	1155.90	1136.93	1145.83	1153.89	1155.25	1169.92	1182.27
49	1166.52	1146.95	1137.87	1131.30	1115.87	1125.38	1132.88	1133.90	1145.79	1161.91
50	1145.55	1125.70	1116.71	1109.77	1093.74	1100.12	1107.90	1111.96	1124.73	1141.45
51	1124.54	1103.24	1095.51	1087.50	1071.28	1078.08	1085.21	1085.40	1103.06	1120.02
52	1102.97	1080.79	1073.00	1064.90	1047.89	1055.02	1062.19	1062.43	1080.65	1098.35
53	1079.43	1057.91	1050.03	1041.41	1020.82	1030.93	1038.48	1038.48	1056.60	1074.87

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CANDELA TABULATION - (Cont.)

54	1057.16	1034.66	1025.43	1015.92	996.07	1006.89	1011.87	1013.78	1032.61	1051.15
55	1033.63	1010.38	1001.06	991.28	970.87	980.28	986.52	987.04	1007.77	1027.11
56	1009.31	981.49	975.99	965.65	944.91	954.47	960.06	960.85	981.96	1001.85
57	980.61	956.52	950.69	940.07	917.24	927.77	933.03	933.82	952.23	972.50
58	955.54	930.70	921.15	913.46	890.58	900.37	902.88	906.80	925.39	946.03
59	929.91	902.88	894.26	883.45	863.18	869.33	874.27	875.77	896.97	918.40
60	901.21	875.95	866.63	855.45	830.85	841.10	845.71	847.43	868.82	890.54
61	873.34	848.51	838.72	827.03	802.05	812.16	816.59	818.41	836.48	859.88
62	844.73	820.50	807.46	795.01	772.93	782.90	783.69	788.91	807.50	831.08
63	816.73	789.56	778.80	766.31	744.27	749.91	753.73	755.69	777.73	802.05
64	788.03	760.77	749.44	736.72	714.87	719.62	723.68	725.82	747.81	769.76
65	758.67	732.02	720.23	707.42	682.67	689.48	691.62	696.23	715.57	740.22
66	726.80	702.99	688.26	676.34	653.41	659.84	661.56	666.46	685.42	710.07
67	697.72	673.87	658.82	647.26	624.15	627.92	631.65	634.73	655.23	680.25
68	668.60	641.58	629.32	617.90	595.26	598.29	601.50	605.09	625.03	646.37
69	635.84	612.97	596.84	589.16	563.62	569.35	572.15	575.97	591.90	616.46
70	606.77	584.68	568.42	557.05	535.43	541.12	540.14	547.59	563.06	587.11
71	577.69	556.63	540.56	528.81	507.99	509.66	511.76	516.19	534.55	558.17
72	547.82	527.42	513.16	501.42	478.07	482.50	484.32	489.16	506.91	529.84
73	519.82	500.53	483.90	474.34	452.16	455.89	457.29	462.42	477.47	499.37
74	492.14	473.83	457.52	445.41	426.44	429.94	428.59	436.55	450.81	472.11
75	465.30	444.80	431.99	419.92	401.89	402.54	403.05	408.88	425.00	445.36
76	439.02	419.69	406.87	394.94	377.70	378.03	378.54	384.83	400.16	416.57
77	413.44	395.46	382.64	370.62	354.50	354.31	352.73	361.40	373.60	391.87
78	385.77	371.74	356.97	347.65	330.41	331.76	329.80	338.28	350.21	367.73
79	361.91	349.05	334.46	323.14	308.84	307.58	307.81	314.10	327.80	344.71
80	338.98	324.91	312.89	301.61	288.05	286.47	286.28	292.20	303.43	319.60
81	316.76	303.71	291.92	280.83	268.02	265.97	265.50	271.28	282.28	297.75
82	292.95	283.07	269.32	259.96	245.84	245.61	242.86	251.29	261.87	276.64
83	272.07	262.94	249.38	237.54	226.13	225.24	222.17	228.64	241.18	255.76
84	251.34	241.32	229.48	216.95	205.86	201.39	200.55	207.68	220.02	235.03
85	228.60	220.77	208.38	194.58	181.35	178.55	177.86	184.80	195.10	211.26
86	206.37	198.12	183.07	172.68	161.03	158.52	156.28	163.92	173.34	187.73
87	182.65	175.20	161.97	151.76	143.23	140.86	138.81	144.40	154.00	166.53
88	161.50	152.69	143.33	134.52	126.41	121.89	121.52	127.53	136.94	147.94
89	142.86	135.31	126.09	116.72	108.94	106.84	106.42	110.52	117.23	128.88
90	123.20	116.91	108.66	105.35	100.93	100.46	100.13	102.37	105.96	111.64
91	107.78	104.65	100.37	98.32	94.87	94.45	94.26	96.08	99.57	103.95
92	101.35	98.08	94.59	92.54	89.23	88.35	88.76	90.21	92.35	97.06
93	95.52	92.31	89.18	87.37	84.15	83.31	83.31	84.76	86.16	90.58
94	89.65	86.99	83.69	82.10	78.89	78.61	78.79	79.82	80.24	84.90
95	84.66	82.15	78.98	77.58	74.51	73.90	74.69	74.55	75.16	79.45
96	80.05	77.02	74.83	73.48	70.55	69.99	70.73	70.27	69.57	73.95
97	75.62	72.97	70.92	69.66	66.68	66.35	66.59	66.26	65.00	69.38
98	71.20	69.05	66.77	66.12	63.42	63.00	63.28	62.72	60.57	65.09
99	67.42	65.42	63.42	62.67	60.29	59.36	60.11	59.04	56.66	61.32
100	64.07	62.11	60.20	59.46	57.22	56.52	57.31	55.91	52.65	57.31
101	60.99	58.43	57.50	56.66	54.47	53.72	54.19	53.12	49.11	54.14
102	57.87	55.50	54.61	54.10	51.63	51.12	51.91	50.42	45.99	51.02
103	55.17	52.98	51.77	51.67	49.30	48.79	49.72	48.09	42.73	47.90
104	52.79	50.42	49.39	49.07	46.97	46.18	47.53	45.90	40.21	45.20
105	50.51	47.85	47.02	47.02	44.78	44.03	45.34	43.99	37.65	42.59
106	48.04	45.76	44.96	44.92	42.87	42.08	43.61	41.89	35.27	40.35
107	46.18	43.80	42.68	43.15	40.54	40.35	41.75	40.07	33.22	37.98
108	44.17	41.89	40.82	41.10	38.81	38.35	40.12	38.39	31.31	35.60
109	42.22	39.89	38.91	39.37	37.00	36.76	38.39	36.72	29.77	33.69

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CANDELA TABULATION - (Cont.)

110	40.58	38.12	37.04	37.74	35.32	35.27	36.76	35.18	28.42	31.69
111	38.95	36.44	35.13	35.88	33.69	33.83	35.46	33.83	26.84	29.73
112	37.23	34.99	33.55	32.62	32.06	32.38	33.83	32.52	25.58	27.17
113	35.83	33.60	32.10	29.50	30.52	30.94	32.43	31.03	24.51	25.53
114	34.43	32.06	30.52	27.58	29.08	29.63	30.99	29.87	23.67	23.95
115	32.85	30.94	29.08	26.37	27.63	28.42	29.82	28.66	22.74	22.60
116	31.55	29.73	27.63	25.30	26.14	27.35	28.42	27.40	22.09	21.53
117	30.47	28.33	26.47	24.14	24.84	26.19	27.12	26.33	21.11	20.74
118	29.12	27.31	25.30	23.11	23.67	24.98	26.14	25.25	20.36	20.04
119	28.05	26.33	24.09	22.23	22.41	24.09	25.02	24.18	19.80	19.29
120	26.89	25.39	22.79	21.20	21.29	23.11	23.81	23.20	19.20	18.55
121	25.63	24.28	21.76	20.22	20.60	22.18	22.97	22.27	18.64	18.03
122	24.74	23.34	21.06	19.38	19.57	21.25	22.04	21.48	17.99	17.29
123	23.62	22.46	20.18	18.73	18.68	20.50	21.06	20.74	17.47	16.82
124	22.65	21.67	19.24	17.85	17.89	19.90	20.36	19.94	17.05	16.12
125	21.81	20.92	18.50	17.10	17.29	19.10	19.48	19.15	16.54	15.70
126	21.01	20.22	17.89	16.49	16.49	18.45	18.78	18.55	16.08	15.33
127	20.27	19.34	17.29	15.84	16.08	17.85	17.99	17.85	15.56	14.86
128	19.48	18.68	16.63	15.33	15.42	17.10	17.29	17.24	15.28	14.54
129	18.73	18.22	16.17	14.68	14.86	16.63	15.75	16.68	15.05	14.26
130	18.03	17.47	15.66	14.40	14.44	15.89	14.91	16.22	14.58	13.79
131	17.10	17.10	15.19	13.89	13.93	15.42	14.44	15.66	14.40	13.56
132	15.61	16.45	14.86	13.70	13.56	15.33	13.84	15.24	13.98	13.42
133	15.14	15.94	14.68	13.33	13.37	14.77	13.47	14.77	13.79	12.91
134	14.63	15.47	14.26	13.09	13.14	14.17	13.23	14.30	13.61	12.67
135	14.35	15.05	14.07	12.67	12.86	13.89	13.09	14.07	13.37	12.53
136	13.93	14.58	13.89	12.86	12.81	13.56	12.77	13.79	13.09	12.35
137	13.42	14.17	13.61	12.72	12.67	13.28	12.53	13.28	13.00	12.16
138	13.09	13.79	13.42	12.63	12.53	13.09	12.39	12.77	12.81	12.16
139	12.91	13.75	13.14	12.49	12.35	12.91	12.39	12.63	12.53	11.98
140	12.72	13.28	13.09	12.49	12.25	12.53	12.11	12.44	12.39	11.88
141	12.49	12.95	12.81	12.35	12.21	12.67	11.93	12.25	12.35	11.88
142	12.30	12.81	12.63	12.44	12.11	12.53	11.88	12.11	12.25	11.93
143	12.21	12.77	12.58	12.35	12.11	12.58	11.70	12.11	12.07	11.93
144	11.88	12.58	12.63	12.21	12.07	12.35	11.79	12.07	12.02	12.02
145	12.11	12.39	12.39	12.35	12.02	12.53	12.07	11.98	11.88	11.98
146	11.93	12.30	12.02	12.53	12.02	12.49	11.88	12.02	12.11	12.07
147	12.02	12.30	12.07	12.67	12.21	12.58	12.02	12.21	12.16	12.11
148	12.25	12.35	12.07	12.81	12.25	12.91	12.11	12.25	12.21	12.16
149	12.30	12.30	12.39	12.81	12.30	12.95	12.16	12.25	12.21	12.44
150	12.35	12.44	12.49	12.81	12.53	13.09	12.25	12.35	12.35	12.49
151	12.35	12.39	12.58	12.91	12.53	13.19	12.44	12.58	12.63	12.58
152	12.53	12.58	12.63	13.05	12.63	13.42	12.63	12.63	12.58	12.67
153	12.67	12.63	12.77	13.14	12.67	13.33	12.86	12.81	12.63	12.77
154	12.86	12.72	12.86	13.23	12.81	13.47	12.86	13.00	12.81	12.86
155	12.81	13.00	12.95	13.28	13.05	13.51	13.00	13.05	12.95	13.00
156	13.14	12.95	13.09	13.33	13.14	13.61	13.14	13.05	12.95	13.14
157	13.14	13.00	13.19	13.47	13.19	13.61	13.09	13.19	13.09	13.14
158	13.14	13.14	13.19	13.70	13.28	13.79	13.14	13.19	13.19	13.28
159	13.28	13.33	13.51	13.70	13.51	13.89	13.28	13.42	13.23	13.19
160	13.42	13.37	13.47	13.79	13.42	13.84	13.28	13.42	13.33	13.33
161	13.56	13.51	13.51	13.84	13.51	13.93	13.47	13.61	13.65	13.47
162	13.51	13.65	13.70	13.98	13.56	14.07	13.47	13.70	13.65	13.51
163	13.61	13.75	13.65	13.98	13.61	14.26	13.79	13.79	13.47	13.61
164	13.75	13.75	13.79	13.98	13.79	14.07	13.65	13.79	13.65	13.84
165	13.84	13.89	13.89	14.17	13.84	14.07	13.79	13.84	13.75	13.93

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

166	13.79	13.79	13.98	14.17	13.79	14.12	13.89	13.79	13.75	13.93
167	13.89	13.79	13.98	14.44	13.93	14.17	14.07	13.98	13.89	13.98
168	14.17	14.17	14.07	14.35	14.17	14.40	13.98	13.98	14.03	14.17
169	14.12	14.17	14.21	14.44	14.12	14.49	14.07	14.21	14.03	14.17
170	14.30	14.12	14.26	14.49	14.17	14.63	14.12	14.35	14.17	14.26
171	14.40	14.21	14.12	14.54	14.21	14.54	14.17	14.30	14.12	14.21
172	14.40	14.21	14.30	14.68	14.49	14.58	14.17	14.40	14.40	14.35
173	14.35	14.30	14.40	14.68	14.49	14.72	14.30	14.40	14.40	14.49
174	14.54	14.30	14.49	14.72	14.44	14.72	14.30	14.40	14.44	14.44
175	14.63	14.35	14.63	14.77	14.54	14.82	14.30	14.44	14.35	14.44
176	14.54	14.54	14.68	14.82	14.44	14.72	14.30	14.40	14.35	14.68
177	14.58	14.49	14.68	14.96	14.54	14.72	14.40	14.44	14.40	14.86
178	14.68	14.58	14.68	15.05	14.68	14.68	14.63	14.35	14.49	14.91
179	14.68	14.72	14.72	15.05	14.58	14.72	14.77	14.63	14.35	14.77
180	14.72	14.77	14.63	14.82	14.58	14.86	14.63	14.63	14.40	14.91

Vert. Horizontal Angles

	<u>300</u>	<u>330</u>	<u>360</u>
0	1525.31	1523.35	1523.96
1	1525.59	1523.68	1524.10
2	1522.89	1523.72	1523.96
3	1522.09	1523.03	1523.16
4	1520.70	1521.81	1521.16
5	1518.27	1519.62	1519.67
6	1516.97	1517.01	1517.11
7	1513.38	1513.75	1513.80
8	1509.00	1509.61	1510.96
9	1504.43	1505.78	1506.20
10	1499.35	1501.08	1501.50
11	1494.79	1496.56	1496.79
12	1489.43	1492.09	1492.09
13	1485.10	1487.66	1487.52
14	1480.95	1481.51	1480.34
15	1476.99	1477.55	1476.24
16	1472.10	1473.91	1472.38
17	1468.60	1470.93	1468.69
18	1465.48	1469.16	1467.06
19	1462.78	1466.88	1464.45
20	1462.78	1464.87	1461.98
21	1460.63	1462.92	1459.66
22	1458.91	1461.05	1457.70
23	1457.28	1458.86	1454.53
24	1455.46	1457.05	1452.76
25	1450.85	1455.18	1450.76
26	1448.47	1452.76	1448.52
27	1446.14	1449.31	1445.54
28	1443.07	1446.47	1442.93
29	1440.22	1442.60	1439.57
30	1435.29	1437.66	1434.82
31	1429.32	1432.72	1430.63
32	1422.52	1425.41	1424.01
33	1414.97	1417.58	1416.51
34	1405.46	1408.87	1408.26
35	1395.87	1396.10	1395.73
36	1385.57	1385.47	1385.20

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CANDELA TABULATION - (Cont.)

37	1373.97	1373.83	1374.01
38	1358.96	1361.06	1362.08
39	1344.84	1346.89	1348.85
40	1329.70	1332.22	1334.87
41	1314.46	1316.09	1318.94
42	1297.87	1299.46	1302.25
43	1280.82	1280.54	1285.20
44	1262.60	1262.65	1265.40
45	1244.01	1244.10	1247.18
46	1221.27	1225.65	1228.35
47	1201.56	1206.36	1209.16
48	1181.53	1183.20	1187.26
49	1160.93	1163.31	1166.52
50	1139.22	1142.94	1145.55
51	1117.55	1121.98	1124.54
52	1095.70	1100.73	1102.97
53	1073.42	1078.74	1079.43
54	1047.98	1056.04	1057.16
55	1024.08	1029.11	1033.63
56	999.15	1004.60	1009.31
57	973.62	979.77	980.61
58	944.31	954.14	955.54
59	917.61	927.63	929.91
60	890.54	898.41	901.21
61	862.76	870.55	873.34
62	832.80	842.59	844.73
63	803.77	814.21	816.73
64	774.70	782.76	788.03
65	745.81	753.78	758.67
66	712.45	724.66	726.80
67	682.72	691.43	697.72
68	652.94	661.33	668.60
69	623.45	631.70	635.84
70	591.95	602.71	606.77
71	563.02	573.83	577.69
72	535.20	543.72	547.82
73	507.47	516.00	519.82
74	478.12	488.60	492.14
75	451.74	461.90	465.30
76	426.54	433.01	439.02
77	399.09	408.18	413.44
78	375.09	383.53	385.77
79	352.22	358.13	361.91
80	329.80	335.40	338.98
81	307.86	313.26	316.76
82	285.26	292.11	292.95
83	264.71	271.28	272.07
84	244.72	249.05	251.34
85	223.85	227.95	228.60
86	198.64	205.77	206.37
87	176.22	182.52	182.65
88	156.42	159.96	161.50
89	136.94	141.70	142.86
90	118.82	123.80	123.20
91	106.70	108.15	107.78
92	100.18	101.58	101.35

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CANDELA TABULATION - (Cont.)

93	93.38	95.57	95.52
94	86.67	89.88	89.65
95	80.94	84.66	84.66
96	75.53	79.26	80.05
97	70.13	74.74	75.62
98	65.42	70.50	71.20
99	61.27	66.17	67.42
100	57.41	62.62	64.07
101	53.40	59.46	60.99
102	49.95	56.15	57.87
103	46.74	53.35	55.17
104	43.85	50.93	52.79
105	40.91	48.65	50.51
106	38.44	46.32	48.04
107	36.16	44.36	46.18
108	34.25	42.36	44.17
109	32.29	40.54	42.22
110	30.71	38.77	40.58
111	29.17	37.23	38.95
112	27.72	35.69	37.23
113	26.42	34.11	35.83
114	25.49	32.90	34.43
115	24.74	31.59	32.85
116	23.72	30.38	31.55
117	22.93	28.98	30.47
118	22.32	27.96	29.12
119	21.29	26.84	28.05
120	20.78	25.91	26.89
121	20.08	24.70	25.63
122	19.48	23.86	24.74
123	18.78	22.93	23.62
124	18.13	21.99	22.65
125	17.61	21.20	21.81
126	17.05	20.50	21.01
127	16.59	19.71	20.27
128	16.08	19.06	19.48
129	15.66	18.36	18.73
130	15.28	17.66	18.03
131	14.77	17.05	17.10
132	14.49	16.40	15.61
133	14.30	16.03	15.14
134	13.98	15.47	14.63
135	13.75	14.91	14.35
136	13.51	14.63	13.93
137	13.23	14.07	13.42
138	13.14	13.56	13.09
139	12.72	13.33	12.91
140	12.58	13.00	12.72
141	12.39	12.72	12.49
142	12.25	12.49	12.30
143	12.21	12.35	12.21
144	12.21	12.30	11.88
145	12.02	12.16	12.11
146	12.07	12.07	11.93
147	12.07	11.88	12.02
148	12.16	11.98	12.25

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CANDELA TABULATION - (Cont.)

149	12.35	12.07	12.30
150	12.30	12.25	12.35
151	12.35	12.49	12.35
152	12.67	12.44	12.53
153	12.72	12.63	12.67
154	12.67	12.67	12.86
155	13.00	12.86	12.81
156	13.05	12.86	13.14
157	13.19	13.00	13.14
158	13.23	13.19	13.14
159	13.37	13.28	13.28
160	13.42	13.42	13.42
161	13.70	13.47	13.56
162	13.65	13.61	13.51
163	13.65	13.42	13.61
164	13.79	13.61	13.75
165	13.93	13.84	13.84
166	13.84	13.84	13.79
167	14.03	14.12	13.89
168	14.03	14.17	14.17
169	14.03	14.17	14.12
170	14.21	14.35	14.30
171	14.44	14.30	14.40
172	14.63	14.30	14.40
173	14.49	14.40	14.35
174	14.30	14.49	14.54
175	14.44	14.72	14.63
176	14.44	14.72	14.54
177	14.68	14.82	14.58
178	14.58	14.63	14.68
179	14.58	14.72	14.68
180	14.82	14.77	14.72

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	561.56	10.10	10.10
0-30	1232.01	22.20	22.20
0-40	2099.32	37.90	37.90
0-60	3940.67	71.10	71.10
0-80	5109.78	92.20	92.20
0-90	5332.59	96.20	96.20
10-90	5188.63	93.60	93.60
20-40	1537.76	27.70	27.70
20-50	2483.52	44.80	44.80
40-70	2552.98	46.10	46.10
60-80	1169.11	21.10	21.10
70-80	457.48	8.30	8.30
80-90	222.81	4.00	4.00
90-110	135.89	2.50	2.50
90-120	164.10	3.00	3.00
90-130	181.10	3.30	3.30
90-150	199.58	3.60	3.60
90-180	210.89	3.80	3.80
110-180	75.00	1.40	1.40
0-180	5543.47	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.95
10-20	417.61
20-30	670.46
30-40	867.30
40-50	945.76
50-60	895.59
60-70	711.63
70-80	457.48
80-90	222.81
90-100	87.45
100-110	48.44
110-120	28.21
120-130	17.00
130-140	10.76
140-150	7.72
150-160	6.00
160-170	3.92
170-180	1.38

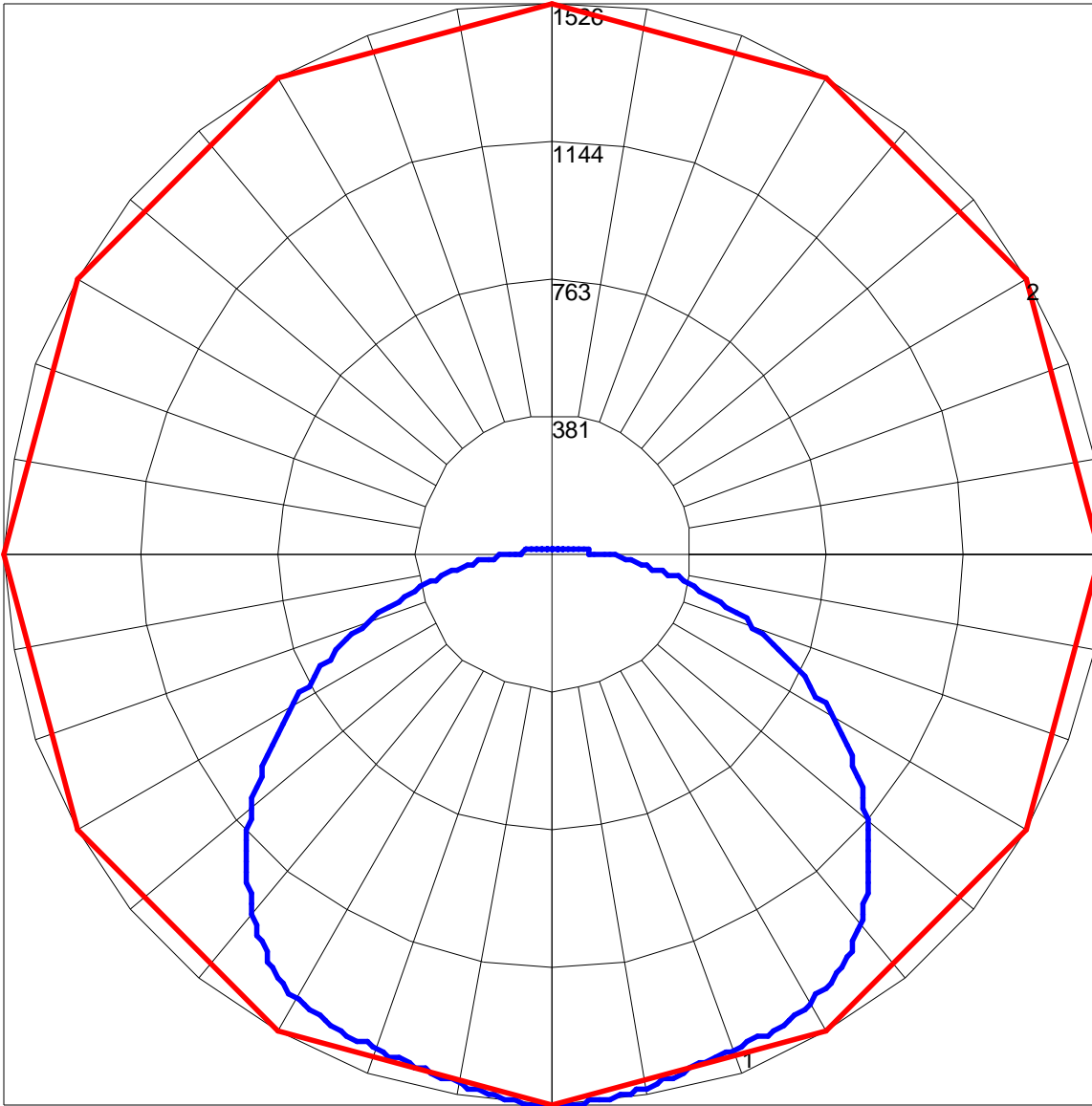
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	101	96	92	103	99	94	90	94	90	87	89	86	83	85	82	80	78
2	96	87	80	74	93	85	78	72	81	75	70	77	72	68	73	69	66	63
3	87	76	67	60	84	74	66	60	71	64	58	67	61	56	64	59	55	53
4	80	67	58	51	77	65	57	50	62	55	49	59	53	48	57	51	47	44
5	73	59	50	43	70	58	49	43	55	48	42	53	46	41	51	45	40	38
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	46	40	35	33
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	42	35	31	29
8	58	44	35	29	56	43	34	29	41	34	28	40	33	28	38	32	27	25
9	54	40	31	26	52	39	31	26	38	30	25	36	30	25	35	29	25	23
10	50	37	29	23	49	36	28	23	35	28	23	34	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 1525.59 Located At Horizontal Angle = 300, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (300 - 120) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)