



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S-LED4-44PS-8CSA_44W_35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4789877761_17
 [TESTLAB] UL-CCIC (Suzhou) Co.,Ltd
 [TESTDATE] 04/06/2021
 [ISSUEDATE] 06/10/2021
 [MANUFAC] Lamar LED
 [LUMCAT] S-LED4-44PS-8CSA_44W_35K
 [MORE] 120.09V
 [MORE] 0.3816A
 [MORE] 45.74W
 [MORE] PF 0.9980
 [MORE] ATHD 3.60%

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5914
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	45.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.06 m
Luminous Height	0.03 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19446	16536	16965
55	17972	15045	15844
65	15767	13271	14597
75	13005	12075	13957
85	8465	11655	13959

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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	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
1	1670.8	1668.5	1670.5	1684.4	1683.9	1677.0	1670.1	1671.7	1668.8	1669.3
2	1670.1	1664.0	1666.7	1683.2	1686.1	1685.2	1678.7	1675.3	1669.6	1665.2
3	1669.2	1660.5	1662.7	1679.9	1685.6	1689.6	1683.6	1677.2	1668.8	1662.0
4	1667.8	1657.7	1658.7	1676.3	1683.2	1691.9	1686.3	1677.7	1667.4	1658.8
5	1665.2	1654.3	1652.6	1671.6	1679.5	1693.1	1687.7	1677.3	1664.6	1654.7
6	1661.9	1650.7	1645.4	1665.8	1675.0	1691.6	1686.8	1674.8	1660.7	1651.7
7	1658.2	1647.1	1638.9	1659.6	1670.4	1686.9	1683.2	1670.0	1655.8	1648.5
8	1653.7	1643.1	1634.0	1654.5	1666.7	1680.7	1678.0	1664.5	1650.3	1645.3
9	1648.0	1638.9	1630.5	1650.0	1663.0	1673.6	1671.6	1658.7	1644.5	1641.4
10	1640.8	1634.1	1627.5	1645.9	1658.7	1666.2	1663.5	1651.5	1638.1	1636.8
11	1632.2	1628.3	1625.0	1641.9	1653.9	1658.0	1654.4	1643.0	1630.4	1631.3
12	1622.2	1620.7	1622.0	1637.6	1647.9	1648.9	1643.3	1632.1	1621.0	1623.7
13	1612.1	1611.3	1617.7	1633.4	1640.7	1638.7	1630.2	1619.4	1609.8	1613.7
14	1601.0	1600.8	1611.5	1629.9	1632.6	1628.6	1616.0	1605.4	1598.0	1603.2
15	1590.0	1589.6	1603.8	1625.7	1624.5	1618.7	1601.7	1591.3	1585.3	1592.7
16	1577.9	1578.6	1594.0	1620.0	1616.8	1608.3	1588.2	1576.9	1572.4	1581.7
17	1564.4	1567.1	1583.2	1612.6	1609.8	1597.9	1575.4	1563.0	1559.3	1570.7
18	1549.6	1555.0	1571.8	1603.2	1602.2	1588.2	1563.2	1548.9	1546.2	1558.9
19	1534.3	1542.7	1559.7	1591.3	1594.5	1578.4	1551.0	1534.9	1532.2	1546.3
20	1518.7	1529.3	1546.5	1577.9	1584.9	1568.1	1538.6	1520.0	1517.3	1532.2
21	1502.6	1514.4	1532.4	1563.3	1574.1	1557.5	1525.4	1504.3	1501.1	1517.3
22	1486.0	1498.4	1517.4	1548.0	1561.7	1546.4	1511.9	1488.2	1484.0	1501.5
23	1470.1	1481.0	1501.6	1532.7	1548.0	1534.5	1498.3	1472.0	1466.6	1484.8
24	1453.7	1463.3	1485.1	1518.2	1533.6	1522.1	1484.9	1455.2	1448.7	1468.5
25	1436.9	1445.7	1468.9	1504.6	1519.7	1508.9	1471.3	1438.9	1431.1	1452.1
26	1419.4	1428.2	1453.2	1491.4	1506.5	1495.7	1457.7	1422.6	1413.2	1435.9
27	1401.2	1410.9	1437.9	1479.1	1494.1	1482.2	1443.8	1406.2	1395.4	1419.6
28	1382.2	1393.6	1423.0	1466.6	1482.8	1468.7	1429.4	1389.7	1377.6	1403.2
29	1362.4	1376.3	1408.9	1454.3	1471.5	1455.3	1414.1	1372.6	1359.0	1386.3
30	1342.0	1358.4	1394.5	1442.2	1459.6	1442.0	1398.0	1354.9	1340.1	1368.6
31	1321.7	1340.2	1379.8	1430.0	1447.2	1427.9	1381.0	1336.1	1320.2	1350.0
32	1301.3	1320.8	1364.4	1417.4	1434.5	1413.7	1363.7	1316.4	1299.7	1330.5
33	1280.4	1301.0	1348.2	1403.9	1420.9	1398.9	1345.3	1295.7	1278.6	1310.3
34	1259.7	1280.3	1331.2	1389.9	1407.1	1383.4	1326.0	1274.5	1256.9	1289.7
35	1239.3	1259.0	1312.9	1374.6	1393.0	1367.9	1306.8	1253.0	1235.0	1269.0
36	1218.8	1236.8	1293.5	1358.4	1378.8	1351.8	1287.3	1231.0	1213.9	1248.0
37	1197.9	1214.7	1273.3	1341.0	1364.2	1336.0	1267.8	1209.1	1195.1	1226.8
38	1176.3	1192.0	1252.2	1322.6	1348.8	1320.0	1248.2	1187.3	1177.2	1205.0
39	1154.1	1169.3	1230.5	1303.4	1332.2	1303.5	1228.4	1167.4	1152.9	1183.2
40	1131.1	1146.3	1208.8	1284.2	1314.9	1286.7	1209.1	1149.3	1125.7	1161.5
41	1107.6	1123.2	1186.8	1265.1	1296.8	1268.9	1189.4	1128.2	1100.3	1140.7
42	1083.7	1100.0	1165.5	1245.6	1278.6	1250.0	1169.9	1102.0	1076.9	1120.6
43	1059.7	1076.8	1144.1	1226.5	1260.3	1230.7	1149.8	1076.8	1053.5	1100.4
44	1035.5	1053.9	1123.1	1207.6	1242.1	1210.9	1129.1	1053.4	1030.0	1076.6
45	1011.1	1030.8	1102.8	1188.8	1224.1	1191.0	1108.0	1031.0	1006.4	1051.8
46	986.6	1007.9	1082.8	1170.8	1206.2	1171.2	1086.3	1008.1	982.2	1028.0
47	962.0	985.0	1062.5	1152.8	1188.3	1151.7	1064.3	984.9	958.1	1005.0
48	937.5	962.3	1042.5	1134.9	1170.4	1131.8	1042.1	961.3	933.7	982.5
49	913.1	939.2	1022.5	1117.2	1152.6	1112.4	1019.8	937.2	909.0	959.1
50	888.6	916.2	1002.3	1098.9	1134.8	1093.1	997.5	911.9	884.2	935.7
51	864.1	893.1	981.7	1080.8	1117.4	1074.0	975.5	886.7	860.6	912.2
52	839.4	869.9	960.8	1062.0	1099.8	1055.1	953.3	860.9	833.8	888.4
53	814.8	846.4	939.9	1043.1	1081.9	1036.2	931.4	834.6	806.5	864.5

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CANDELA TABULATION - (Cont.)

54	790.2	822.3	918.3	1023.3	1063.1	1016.8	908.9	808.2	780.3	840.4
55	764.6	797.4	896.2	1002.7	1044.1	997.3	886.3	782.8	754.2	816.2
56	738.6	772.2	873.5	981.6	1024.0	977.1	863.3	757.2	727.8	791.9
57	712.0	746.2	850.5	960.3	1003.7	956.7	840.8	732.2	701.6	768.1
58	685.1	720.3	827.4	938.6	983.0	935.9	818.6	707.8	675.5	743.8
59	658.4	694.2	804.4	917.5	962.2	915.1	796.7	683.8	649.4	719.6
60	631.4	668.2	781.8	896.3	941.5	894.3	775.0	659.8	623.6	694.8
61	604.9	642.4	759.5	875.1	921.0	873.9	753.3	636.2	597.5	670.2
62	578.1	616.8	737.0	854.2	900.9	853.5	732.1	612.6	571.5	645.2
63	552.1	591.7	714.9	833.6	880.6	833.5	711.2	589.0	545.7	620.5
64	526.6	567.2	693.3	813.3	860.9	813.7	691.1	565.3	519.7	595.8
65	501.4	543.3	672.0	793.2	841.4	794.1	671.0	541.6	493.6	571.2
66	476.3	519.7	651.1	773.6	822.2	774.8	651.3	518.1	467.5	547.2
67	451.5	496.9	630.5	754.4	803.3	755.8	631.8	494.8	441.8	523.5
68	426.9	474.7	610.6	735.8	784.9	737.8	612.5	471.8	416.3	500.8
69	402.9	453.4	591.6	717.8	767.2	720.2	593.7	449.5	391.1	478.7
70	379.0	432.6	572.8	700.0	749.8	703.1	575.0	427.9	366.4	457.3
71	355.2	412.2	554.7	682.6	732.7	686.1	556.6	407.0	342.3	436.4
72	331.5	392.0	537.1	665.3	715.6	669.0	538.4	386.7	318.9	416.2
73	307.9	372.5	519.5	647.7	698.6	651.8	520.6	367.2	295.6	396.2
74	284.3	352.6	502.1	630.5	681.7	634.7	503.3	348.4	272.6	376.4
75	261.3	333.1	485.0	613.5	664.8	617.5	486.3	330.1	250.1	357.3
76	238.6	313.9	468.0	596.5	648.0	600.7	469.8	312.5	227.9	338.4
77	216.3	295.4	451.4	580.1	631.5	584.1	453.6	295.2	206.2	320.2
78	194.7	277.9	435.2	563.9	615.0	567.7	437.7	278.3	184.8	302.9
79	173.5	261.3	419.6	548.1	598.8	551.6	421.8	261.8	165.2	285.4
80	154.8	244.9	404.5	532.6	582.8	535.8	406.6	245.6	144.9	268.6
81	135.3	229.2	389.5	517.3	566.8	520.2	391.8	229.9	125.3	252.2
82	116.7	214.3	374.9	502.6	551.2	504.5	377.3	215.1	106.4	236.5
83	98.9	199.9	360.3	487.6	536.0	489.3	363.2	200.4	88.3	221.2
84	81.8	186.2	346.0	472.7	520.4	474.1	349.1	186.8	71.5	206.2
85	65.8	173.8	331.9	458.0	505.0	459.2	335.1	174.1	55.9	191.9
86	51.1	162.1	318.2	443.1	490.0	444.5	320.8	162.8	42.3	178.3
87	38.2	150.3	304.9	428.7	475.0	430.3	306.8	150.9	30.5	166.9
88	27.2	139.1	292.0	414.5	460.4	416.3	293.9	139.9	21.1	155.1
89	18.6	128.7	279.5	400.6	445.9	402.4	281.6	129.6	14.7	144.0
90	13.0	119.1	267.4	386.8	431.6	388.7	269.4	120.1	10.8	133.5
91	11.0	110.2	255.5	373.2	417.4	375.4	257.8	111.2	10.7	123.8
92	11.1	101.9	244.1	360.0	403.8	362.4	246.8	103.2	10.8	114.7
93	11.1	94.3	233.4	347.2	390.5	349.6	236.2	95.9	11.0	106.5
94	11.1	87.7	223.3	334.7	377.7	337.3	226.1	89.3	11.3	98.9
95	11.1	81.6	213.6	323.2	365.3	325.7	216.7	83.3	11.2	91.6
96	11.3	76.0	204.2	311.8	353.6	314.5	207.6	77.6	11.2	85.0
97	11.4	70.9	195.2	301.1	341.8	303.5	198.8	72.2	11.4	78.8
98	11.4	65.6	186.6	290.3	330.5	292.8	190.3	66.9	11.4	72.4
99	11.4	59.6	178.5	279.7	319.2	282.2	181.7	60.7	11.4	65.1
100	11.5	52.5	172.0	269.5	307.8	271.8	174.0	54.1	11.5	56.3
101	11.5	44.6	164.3	259.3	296.6	261.5	166.5	46.8	11.7	49.4
102	11.7	40.8	156.8	249.3	285.8	251.2	158.7	43.7	11.7	46.4
103	11.8	38.5	149.4	239.5	274.9	241.2	151.2	41.3	11.8	43.3
104	12.0	35.8	142.2	229.7	264.2	231.3	143.6	39.3	11.8	40.0
105	12.1	31.9	134.1	220.2	253.8	221.9	135.5	37.5	11.8	36.8
106	12.2	30.5	125.0	210.9	243.9	212.5	126.9	35.7	11.9	33.7
107	12.2	28.9	115.2	201.8	234.1	203.5	117.9	34.2	11.9	30.9
108	12.3	27.4	103.6	193.0	224.5	194.6	108.3	32.8	11.8	28.8
109	12.4	25.9	89.7	183.4	215.0	184.8	97.8	31.6	11.7	27.2

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CANDELA TABULATION - (Cont.)

110	12.5	24.6	76.3	173.0	205.3	174.8	87.8	30.6	11.8	25.7
111	12.5	23.5	69.2	163.8	194.6	165.6	83.3	29.6	12.0	24.3
112	12.5	22.5	63.9	152.8	183.6	154.8	79.7	28.7	12.1	23.3
113	12.6	21.6	59.3	141.1	172.5	143.3	76.4	28.0	12.4	22.2
114	12.6	20.9	55.1	128.6	162.0	131.1	73.3	27.5	12.5	21.3
115	12.8	20.3	50.7	115.1	149.6	117.4	70.3	26.9	12.6	20.6
116	12.8	20.0	46.6	105.8	136.0	109.1	67.4	26.4	12.7	19.9
117	12.9	19.7	44.1	100.4	122.2	104.7	64.6	25.9	13.0	19.4
118	12.9	19.4	42.3	94.4	114.5	100.3	61.8	25.4	13.0	18.9
119	13.0	19.1	40.4	87.9	109.7	96.0	59.3	24.9	13.1	18.6
120	13.2	18.8	38.2	81.4	105.2	91.9	56.9	24.3	13.3	18.1
121	13.6	18.3	36.2	75.5	100.7	88.0	54.7	24.0	13.6	17.9
122	13.7	18.1	34.4	70.2	96.3	84.3	52.5	23.6	13.7	17.8
123	13.9	17.9	32.9	65.2	92.2	80.6	50.5	23.3	13.9	17.7
124	14.0	17.8	31.6	60.7	88.1	77.3	48.6	22.8	14.1	17.6
125	14.2	17.9	30.5	56.2	84.1	74.0	46.6	22.5	14.4	17.6
126	14.4	18.0	29.5	51.3	80.5	70.5	44.9	22.0	14.6	17.7
127	14.6	18.2	28.6	47.0	77.0	67.0	43.5	21.8	14.7	17.8
128	14.8	18.3	27.6	44.1	73.0	64.1	42.0	21.5	14.6	17.8
129	14.9	18.3	26.5	41.2	69.0	61.3	40.4	21.3	14.7	17.9
130	15.2	18.5	25.5	38.8	65.7	58.7	38.8	21.1	14.9	17.9
131	15.6	18.6	24.7	36.8	62.6	56.4	37.3	21.0	15.0	17.9
132	16.0	18.7	24.1	34.9	60.0	54.2	36.1	21.0	15.3	17.9
133	16.2	18.7	23.5	33.0	57.5	52.1	35.2	20.8	15.7	17.9
134	16.4	18.8	23.2	31.3	55.2	50.3	34.1	20.7	16.0	17.6
135	16.7	18.7	23.0	29.7	52.9	48.5	33.2	20.7	16.4	17.5
136	16.9	18.9	22.9	28.0	50.9	46.4	32.2	20.6	16.8	17.4
137	17.2	18.8	22.8	26.0	48.8	43.9	31.3	20.5	17.0	17.5
138	17.4	18.9	22.6	24.2	46.2	41.6	30.6	20.6	17.3	17.5
139	17.6	18.9	22.5	23.0	42.9	39.9	29.9	20.7	17.5	17.5
140	17.9	18.9	22.3	22.2	40.5	38.3	29.3	20.7	17.7	17.6
141	18.1	18.9	22.3	21.5	38.7	36.8	28.7	20.6	17.9	17.7
142	18.4	19.1	22.3	20.9	37.3	35.5	28.1	20.6	18.2	17.7
143	18.6	19.2	22.2	20.2	35.9	34.2	27.5	20.6	18.5	17.8
144	18.9	19.4	21.9	19.6	34.4	33.0	26.9	20.6	18.8	17.9
145	19.1	19.6	21.8	18.9	32.8	31.9	26.4	20.5	18.9	18.0
146	19.4	19.6	21.5	18.3	31.4	30.7	25.9	20.5	19.0	18.1
147	19.5	19.9	21.4	17.7	30.0	29.6	25.3	20.3	19.3	18.2
148	19.8	20.0	21.1	17.3	28.7	28.8	24.5	20.2	19.5	18.5
149	20.0	20.1	20.8	16.9	27.4	27.9	24.0	20.2	19.7	18.7
150	20.3	20.3	20.6	16.6	26.3	27.1	23.4	20.3	19.8	18.9
151	20.5	20.6	20.5	16.3	25.5	26.2	23.0	20.3	20.1	19.2
152	20.8	20.9	20.3	15.9	24.6	25.3	22.7	20.5	20.4	19.4
153	21.1	21.1	20.3	15.5	23.6	24.4	22.4	20.6	20.8	19.6
154	21.3	21.0	20.1	15.1	22.4	23.5	22.2	20.8	21.1	19.7
155	21.7	21.1	20.1	14.7	20.5	22.5	22.0	21.1	21.6	19.8
156	22.1	21.2	20.0	14.5	16.4	21.9	22.0	21.1	22.0	19.8
157	22.4	21.2	20.0	14.4	12.1	21.3	21.9	21.3	22.3	19.8
158	22.7	21.2	20.0	14.5	11.7	20.7	21.8	21.4	22.5	19.8
159	23.0	21.1	20.1	14.5	11.6	20.3	21.7	21.4	22.6	20.1
160	23.3	20.9	20.3	14.8	11.5	19.8	21.5	21.3	22.8	20.4
161	23.6	20.9	20.4	14.8	11.5	19.4	21.3	21.2	23.0	20.6
162	23.8	21.4	20.6	14.9	11.4	19.2	21.2	21.1	23.1	21.0
163	24.3	21.8	20.6	15.1	11.4	19.0	21.2	21.2	23.4	21.4
164	24.6	22.6	20.6	15.2	11.1	19.1	21.1	21.3	23.7	21.8
165	24.9	23.3	20.7	15.4	10.9	19.1	21.1	21.7	23.8	22.2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S-LED4-44PS-8CSA_44W_35K.IES

CANDELA TABULATION - (Cont.)

166	25.3	23.8	20.8	15.4	10.9	18.9	21.1	22.4	24.2	22.6
167	25.5	24.3	20.7	15.4	10.9	18.5	21.1	23.0	24.6	22.8
168	25.7	24.4	20.6	15.4	11.0	18.3	20.6	23.5	24.8	23.2
169	25.9	24.4	20.2	15.4	11.1	17.9	20.0	23.9	25.1	23.4
170	26.0	24.4	20.4	15.2	11.0	17.8	19.7	24.2	25.3	23.8
171	25.9	24.5	20.8	14.9	10.9	17.2	20.1	24.4	25.4	24.1
172	25.8	24.5	21.0	14.9	10.6	16.7	20.6	24.4	25.4	24.3
173	25.7	24.7	21.4	15.5	10.7	16.7	21.1	24.4	25.5	24.2
174	25.6	24.7	22.0	16.3	11.1	17.1	21.4	24.3	25.4	24.1
175	25.7	25.0	22.2	16.8	11.5	17.2	21.7	24.1	25.2	24.0
176	25.6	25.2	22.2	17.0	11.5	17.1	21.6	24.1	25.1	24.0
177	25.6	25.0	22.2	17.1	11.3	17.3	21.3	24.4	25.0	24.2
178	26.1	24.8	22.2	17.4	11.3	17.5	21.3	24.5	25.1	24.5
179	26.2	25.0	22.3	17.5	11.6	17.5	21.5	24.5	25.5	24.5
180	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

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	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8	1673.8
1	1671.5	1686.5	1686.8	1679.9	1673.0	1671.6	1668.5
2	1668.2	1684.7	1688.9	1687.5	1680.2	1675.6	1669.1
3	1664.8	1682.1	1688.9	1692.8	1685.5	1678.0	1668.8
4	1660.0	1678.2	1686.5	1697.5	1690.3	1679.0	1667.6
5	1653.0	1673.0	1681.9	1699.2	1692.5	1678.9	1665.0
6	1646.5	1668.2	1678.3	1697.6	1692.3	1676.8	1661.4
7	1641.2	1663.5	1675.0	1693.8	1690.3	1673.8	1657.7
8	1637.1	1659.9	1672.3	1688.9	1686.2	1669.8	1652.6
9	1633.8	1655.2	1668.6	1681.6	1679.8	1664.0	1646.6
10	1631.4	1650.9	1664.6	1673.1	1671.1	1656.5	1639.6
11	1629.4	1646.3	1659.5	1663.9	1660.7	1647.3	1631.1
12	1626.8	1642.5	1653.5	1654.8	1649.6	1636.5	1621.7
13	1623.0	1639.5	1647.0	1646.6	1638.2	1625.6	1611.7
14	1617.6	1637.0	1640.5	1638.2	1626.2	1613.6	1601.1
15	1610.6	1633.9	1633.8	1629.8	1614.2	1600.9	1589.8
16	1602.1	1629.6	1627.1	1620.8	1601.4	1587.4	1577.3
17	1592.1	1623.3	1620.7	1611.1	1588.3	1572.6	1564.0
18	1580.3	1614.1	1614.0	1601.1	1575.2	1557.3	1549.3
19	1567.2	1601.6	1606.0	1591.3	1562.5	1541.6	1534.2
20	1553.2	1587.3	1596.5	1581.5	1549.8	1526.0	1518.2
21	1538.5	1572.6	1586.1	1571.6	1537.6	1511.0	1502.3
22	1523.8	1558.4	1574.6	1561.7	1525.5	1496.0	1486.2
23	1509.7	1545.0	1562.2	1551.3	1514.0	1481.3	1470.1
24	1495.1	1532.8	1549.8	1540.7	1502.5	1466.6	1453.5
25	1480.7	1521.2	1537.1	1529.1	1490.5	1451.7	1436.4
26	1466.5	1509.8	1525.1	1516.7	1477.9	1436.3	1418.5
27	1452.6	1498.1	1513.4	1503.4	1464.4	1420.4	1400.0
28	1438.7	1486.5	1501.8	1490.2	1450.1	1403.7	1380.9
29	1424.9	1474.1	1490.2	1476.6	1434.4	1385.9	1361.1
30	1410.6	1461.7	1478.6	1462.6	1418.2	1367.7	1341.3
31	1396.0	1449.5	1466.3	1448.8	1401.7	1349.1	1321.3
32	1380.8	1437.2	1453.7	1435.1	1384.6	1330.3	1301.5
33	1365.0	1424.4	1441.1	1421.2	1367.5	1311.1	1281.4
34	1348.2	1411.8	1428.3	1407.4	1350.2	1291.7	1260.9
35	1331.0	1398.1	1416.1	1393.3	1332.5	1272.2	1240.7
36	1313.3	1383.5	1403.5	1379.2	1314.7	1252.2	1219.7

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

37	1294.6	1367.8	1390.2	1364.8	1296.8	1231.2	1198.4
38	1275.2	1350.9	1376.0	1350.1	1278.5	1209.8	1176.3
39	1255.0	1332.7	1360.6	1335.0	1260.0	1187.8	1153.9
40	1234.5	1314.2	1343.7	1318.9	1241.6	1166.0	1130.5
41	1213.8	1295.4	1325.8	1301.6	1222.8	1144.2	1106.8
42	1193.0	1276.4	1307.8	1283.4	1203.9	1122.7	1082.7
43	1172.8	1257.4	1289.6	1264.7	1184.7	1101.0	1058.9
44	1152.3	1239.0	1272.0	1245.3	1164.4	1079.1	1034.8
45	1132.5	1220.5	1254.2	1225.7	1143.8	1057.2	1010.7
46	1112.9	1202.4	1236.5	1206.1	1122.3	1034.6	986.7
47	1093.6	1184.9	1218.7	1187.0	1100.7	1011.8	962.6
48	1074.3	1167.4	1200.8	1167.8	1079.0	988.4	938.4
49	1054.7	1149.9	1183.2	1148.5	1057.4	965.2	914.3
50	1034.7	1132.5	1165.7	1129.8	1035.9	941.7	890.2
51	1014.0	1114.8	1148.5	1110.9	1014.5	918.1	866.1
52	993.1	1096.3	1131.0	1092.4	993.2	894.4	841.5
53	972.0	1077.4	1113.2	1073.7	971.7	870.2	816.3
54	950.3	1057.5	1094.9	1054.8	950.5	845.2	790.8
55	928.2	1036.9	1075.5	1035.8	929.4	820.3	764.9
56	906.3	1015.9	1055.3	1016.1	908.0	795.3	738.0
57	884.5	994.6	1035.0	995.9	886.6	770.6	711.0
58	862.8	973.9	1014.3	975.3	865.3	746.0	683.8
59	841.4	952.9	993.8	954.6	843.6	721.9	656.9
60	820.1	932.1	973.5	934.3	821.9	697.8	630.2
61	798.6	911.6	953.3	913.8	800.4	674.0	603.8
62	777.2	891.4	933.3	893.5	779.4	650.5	577.7
63	755.8	871.1	913.4	873.5	758.4	627.3	552.0
64	734.4	851.0	893.7	853.7	738.0	604.6	526.6
65	713.2	831.1	874.3	834.2	717.7	582.0	501.9
66	691.6	811.5	855.3	814.9	697.8	559.6	477.2
67	670.4	792.3	836.9	796.4	678.2	537.5	452.7
68	649.6	773.0	818.7	777.9	659.0	515.5	428.6
69	629.0	753.9	800.8	759.7	640.2	494.0	404.2
70	609.3	734.8	782.5	742.2	621.3	472.3	379.7
71	590.4	716.0	764.3	724.3	602.8	450.9	355.6
72	572.5	697.7	746.2	706.4	584.5	429.9	331.2
73	554.8	679.7	728.2	688.5	566.3	409.1	307.2
74	537.4	662.4	710.3	671.0	548.5	388.9	283.5
75	520.3	645.7	692.9	653.8	531.3	369.4	260.2
76	503.8	629.2	676.1	636.8	514.3	350.4	237.8
77	487.7	613.3	659.6	619.9	497.9	332.0	215.9
78	471.8	597.8	643.3	603.8	481.3	314.2	194.6
79	456.2	582.4	627.5	587.8	465.2	297.2	174.2
80	440.8	567.1	612.2	572.1	449.4	280.8	155.7
81	425.5	551.7	596.9	556.9	433.9	264.9	136.4
82	410.2	536.3	581.7	541.4	418.9	249.2	117.8
83	394.9	520.8	566.5	526.1	404.1	234.2	99.7
84	379.6	505.1	551.1	510.4	389.5	219.5	82.3
85	364.5	489.5	535.3	494.6	374.7	205.1	66.0
86	350.3	474.0	519.6	479.1	360.1	191.2	51.1
87	336.2	459.0	504.2	463.9	345.3	177.7	37.8
88	322.7	444.3	489.1	449.0	331.4	166.3	26.9
89	309.7	429.9	474.2	434.7	318.3	154.4	18.6
90	297.0	416.1	459.8	421.1	305.8	143.6	13.1
91	284.7	402.5	445.7	407.7	293.3	133.3	11.4
92	273.0	389.8	431.8	394.7	281.4	123.9	11.7

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CANDELA TABULATION - (Cont.)

93	261.9	377.2	418.7	382.0	270.1	115.2	11.7
94	251.0	365.0	405.9	369.6	259.1	107.1	11.7
95	240.4	353.3	393.5	357.6	248.5	99.8	11.7
96	230.1	341.8	381.6	346.1	238.6	93.1	11.7
97	220.3	330.4	369.9	334.8	229.0	87.0	11.7
98	210.9	319.5	358.0	323.7	219.5	81.0	11.8
99	201.7	308.1	346.0	312.4	210.1	74.3	11.8
100	192.9	296.8	334.0	301.0	200.6	66.5	11.8
101	184.3	285.5	322.1	289.5	191.3	56.4	11.8
102	175.7	274.4	310.4	278.4	182.4	49.2	11.9
103	168.7	263.7	299.1	267.5	174.1	46.0	11.9
104	160.0	253.2	287.9	257.0	166.4	43.6	12.0
105	150.5	243.0	276.9	246.7	157.2	41.2	12.0
106	140.2	233.0	266.7	236.9	147.5	39.2	12.1
107	128.1	223.5	256.6	227.2	137.3	37.3	12.1
108	113.2	214.0	246.7	217.6	126.1	35.5	12.2
109	96.5	203.8	236.9	207.5	113.1	33.9	12.2
110	84.0	192.6	226.8	196.7	99.2	32.2	12.2
111	77.4	181.3	215.8	185.5	92.1	30.9	12.2
112	71.6	170.2	204.2	175.0	87.9	29.7	12.2
113	66.6	156.1	192.1	161.7	84.0	28.9	12.3
114	61.9	140.6	178.6	146.7	80.4	27.9	12.4
115	57.9	124.5	164.8	130.7	77.0	27.1	12.5
116	54.2	115.8	148.6	119.9	73.8	26.3	12.7
117	50.5	108.7	132.5	114.6	70.6	25.6	12.8
118	46.9	101.3	124.5	109.6	67.6	25.1	13.1
119	44.2	94.5	119.2	105.0	64.7	24.6	13.3
120	42.0	87.8	114.1	100.4	61.9	24.2	13.5
121	39.5	81.8	109.1	96.0	59.2	23.9	13.7
122	37.7	76.3	104.3	91.8	56.5	23.4	13.9
123	36.2	71.2	99.8	87.8	54.1	23.1	14.1
124	34.3	66.6	95.5	84.0	51.9	22.6	14.2
125	33.0	62.3	91.4	80.3	49.7	22.3	14.4
126	31.6	57.4	87.4	76.1	47.7	22.2	14.6
127	30.5	53.2	83.4	72.0	45.9	21.9	14.7
128	29.3	49.5	78.9	68.5	44.2	21.6	14.8
129	28.0	45.5	74.3	65.3	42.1	21.4	15.0
130	26.7	41.7	70.5	62.3	40.2	21.2	15.0
131	25.8	38.9	67.0	59.6	38.5	20.9	15.3
132	25.2	37.8	63.9	56.9	37.1	20.7	15.4
133	24.6	35.5	61.1	54.5	36.0	20.4	15.7
134	24.2	33.3	58.3	52.4	34.9	20.2	15.9
135	23.7	31.7	55.8	50.4	33.9	20.1	16.2
136	23.4	29.6	53.5	48.1	33.0	19.9	16.5
137	23.1	27.4	51.4	45.6	32.0	19.7	16.8
138	22.7	25.6	49.2	43.4	31.1	19.6	17.1
139	22.3	24.4	46.2	41.5	30.3	19.5	17.5
140	22.2	23.3	43.3	39.8	29.4	19.6	17.8
141	21.9	22.5	41.0	38.2	28.5	19.5	18.0
142	21.6	21.6	39.0	36.5	27.8	19.7	18.3
143	21.4	20.8	37.0	35.1	27.3	19.8	18.6
144	21.2	20.1	34.9	33.5	26.7	19.9	18.9
145	21.0	19.3	32.6	32.0	26.0	19.9	19.1
146	20.8	18.6	31.0	30.7	25.3	20.0	19.4
147	20.4	17.9	29.9	29.4	24.6	20.1	19.7
148	20.1	17.4	28.6	28.2	24.0	20.2	20.0

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	19.9	16.8	27.2	27.1	23.4	20.2	20.4
150	19.5	16.3	25.7	26.1	22.8	20.3	20.6
151	19.1	15.9	23.7	25.3	22.3	20.4	20.9
152	18.9	15.4	23.2	24.5	21.9	20.4	21.1
153	18.8	15.0	22.4	23.6	21.6	20.4	21.3
154	18.7	14.7	21.3	22.8	21.5	20.4	21.5
155	18.5	14.3	19.2	22.2	21.4	20.4	21.7
156	18.4	13.9	15.5	21.4	21.2	20.6	22.0
157	18.3	13.8	12.4	20.7	21.1	20.6	22.2
158	18.2	13.8	11.8	20.0	21.0	20.8	22.4
159	18.2	13.9	11.6	19.4	20.7	20.6	22.8
160	18.4	14.0	11.3	18.9	20.6	20.6	23.2
161	18.6	14.0	11.0	18.6	20.6	20.9	23.6
162	18.7	13.9	10.9	18.4	20.5	21.1	23.8
163	18.8	13.9	10.7	18.3	20.5	21.5	24.3
164	19.0	14.0	10.6	18.2	20.6	21.9	24.6
165	19.0	14.1	10.5	17.9	20.4	22.6	24.9
166	19.0	14.2	10.5	17.8	20.4	23.2	25.0
167	18.8	14.3	10.5	17.6	20.3	23.8	25.3
168	18.5	14.5	10.7	17.4	20.1	24.2	25.4
169	18.8	14.4	10.6	17.1	20.3	24.4	25.6
170	19.2	14.3	10.6	16.6	20.5	24.7	25.6
171	19.7	14.2	10.6	16.3	21.0	24.6	25.7
172	20.1	14.5	10.8	16.6	21.5	24.8	25.7
173	20.4	15.0	11.2	17.1	21.8	24.8	25.7
174	20.7	15.7	11.4	17.2	22.0	24.9	25.7
175	21.0	16.1	11.5	17.2	22.2	25.0	25.6
176	21.3	16.7	11.6	17.3	22.1	24.9	25.7
177	21.6	16.7	11.7	17.2	22.0	24.7	25.9
178	21.5	16.8	11.6	17.8	22.0	24.8	26.1
179	21.3	17.3	11.8	17.8	22.5	25.2	25.9
180	20.7	20.7	20.7	20.7	20.7	20.7	20.7

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	612.89	N.A.	10.40
0-30	1295.94	N.A.	21.90
0-40	2123.11	N.A.	35.90
0-60	3804.86	N.A.	64.30
0-80	5003.05	N.A.	84.60
0-90	5360.73	N.A.	90.60
10-90	5201.75	N.A.	88.00
20-40	1510.21	N.A.	25.50
20-50	2378.06	N.A.	40.20
40-70	2362.5	N.A.	39.90
60-80	1198.19	N.A.	20.30
70-80	517.45	N.A.	8.70
80-90	357.68	N.A.	6.00
90-110	381.06	N.A.	6.40
90-120	456.96	N.A.	7.70
90-130	497.63	N.A.	8.40
90-150	536.66	N.A.	9.10
90-180	553.28	N.A.	9.40
110-180	172.23	N.A.	2.90
0-180	5914.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.98
10-20	453.91
20-30	683.05
30-40	827.17
40-50	867.85
50-60	813.91
60-70	680.74
70-80	517.45
80-90	357.68
90-100	234.65
100-110	146.41
110-120	75.90
120-130	40.67
130-140	24.03
140-150	15.00
150-160	9.29
160-170	5.43
170-180	1.91

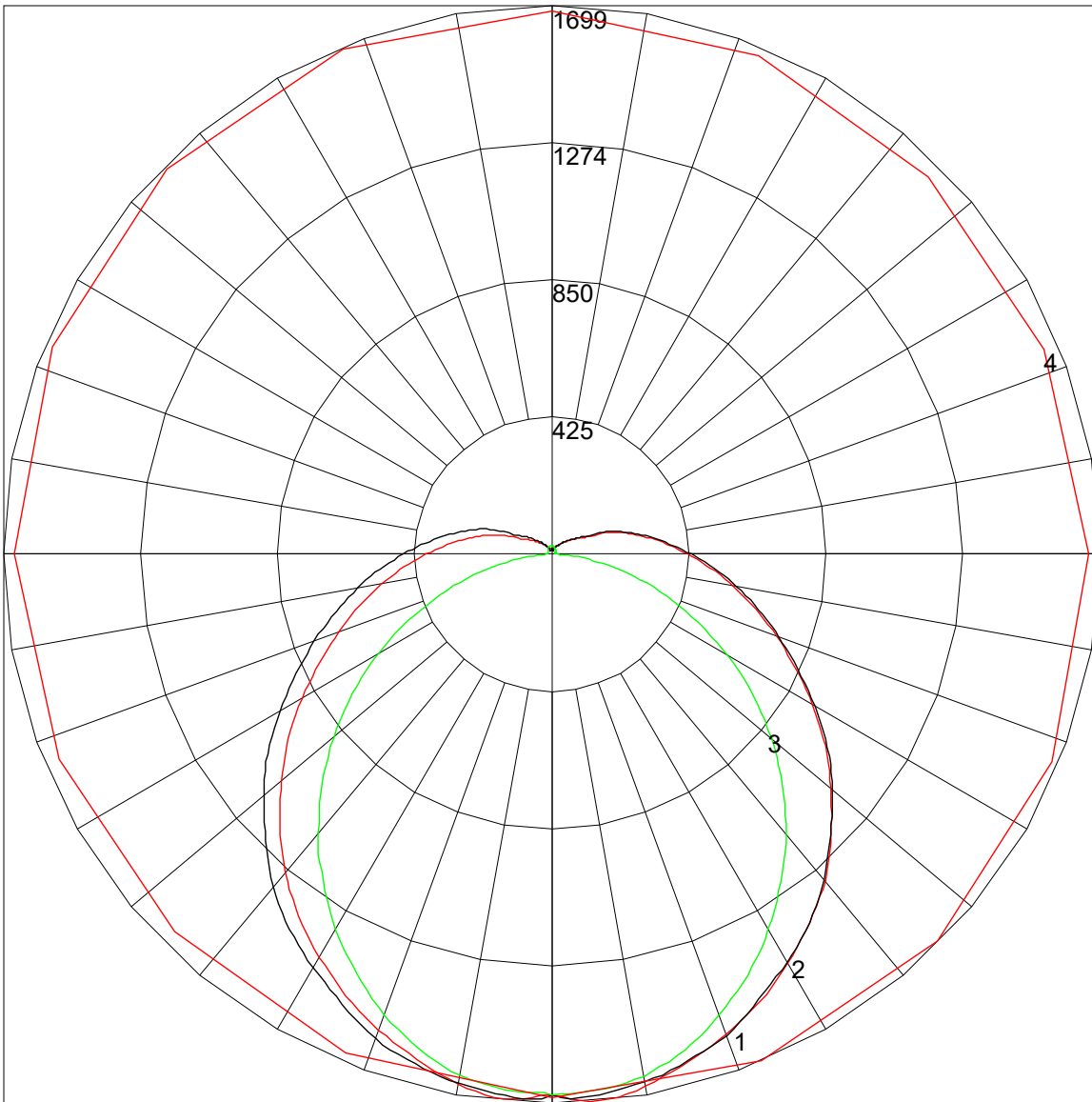
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	77	74	71
2	94	85	78	71	91	82	76	70	77	72	67	73	68	64	68	64	61	58
3	86	74	66	59	82	72	64	57	68	61	55	64	58	53	60	55	51	48
4	78	66	56	49	75	64	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	52	43	37	64	51	42	36	48	41	35	46	39	34	43	37	33	31
7	61	47	38	32	59	46	38	32	44	36	31	41	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	27	38	32	27	36	30	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	33	28	23	22
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

POLAR GRAPH



Maximum Candela = 1699.2 Located At Horizontal Angle = 292.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)