



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S-LED4-44PS-8CSA_44W_5K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4789877761_17
 [TESTLAB] UL-CCIC (Suzhou) Co.,Ltd
 [TESTDATE] 04/06/2021
 [ISSUEDATE] 04/14/2021
 [MANUFAC] Lamar LED
 [LUMCAT] S-LED4-44PS-8CSA_44W_5K
 [MORE] 120.11V
 [MORE] 0.3793A
 [MORE] 45.45W
 [MORE] PF 0.9979
 [MORE] ATHD 3.71%

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6007
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	45.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.40
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	19691	17707	18297
55	18153	16418	17288
65	16015	14987	16269
75	13199	13967	15718
85	8594	13889	16008

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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	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9
1	1681.0	1679.9	1682.2	1697.8	1697.5	1690.8	1685.0	1685.3	1683.0	1682.0
2	1680.5	1678.1	1681.2	1698.2	1701.3	1699.6	1693.0	1689.0	1683.4	1678.3
3	1679.2	1675.1	1678.8	1696.9	1703.4	1707.5	1700.2	1692.5	1682.2	1673.5
4	1677.7	1672.2	1675.5	1694.8	1702.9	1713.1	1706.4	1694.6	1681.1	1668.5
5	1675.7	1669.3	1670.4	1692.2	1700.9	1716.2	1709.5	1694.7	1679.0	1664.7
6	1672.3	1666.9	1665.9	1689.3	1699.0	1716.5	1710.5	1694.0	1676.0	1660.8
7	1668.2	1664.5	1661.5	1685.9	1697.4	1714.9	1709.0	1691.0	1672.1	1657.0
8	1663.2	1661.9	1657.9	1682.6	1696.1	1711.7	1706.0	1686.9	1666.8	1652.2
9	1658.0	1658.5	1655.2	1679.5	1694.7	1706.2	1700.4	1681.1	1660.3	1647.5
10	1651.5	1654.3	1653.9	1677.1	1692.3	1700.1	1693.7	1674.0	1653.4	1641.6
11	1643.9	1648.9	1652.7	1674.3	1689.1	1693.0	1685.2	1665.4	1645.0	1634.6
12	1633.5	1641.8	1651.5	1672.5	1685.0	1685.8	1675.4	1655.8	1635.7	1626.8
13	1622.7	1633.9	1649.1	1671.5	1680.3	1678.2	1664.7	1645.1	1625.5	1617.2
14	1610.9	1625.2	1645.6	1670.3	1674.8	1670.7	1653.4	1633.3	1614.2	1607.2
15	1599.0	1615.2	1639.8	1668.5	1669.1	1662.9	1641.5	1620.5	1602.0	1596.2
16	1586.7	1604.9	1632.3	1665.0	1663.5	1654.7	1629.4	1607.2	1589.0	1584.3
17	1574.3	1593.9	1623.0	1659.5	1658.2	1646.3	1617.7	1593.2	1575.6	1571.6
18	1561.1	1582.0	1612.2	1651.8	1652.7	1637.9	1606.0	1579.2	1561.9	1558.0
19	1547.0	1569.6	1600.1	1641.0	1646.4	1629.6	1594.9	1564.7	1547.4	1544.3
20	1531.5	1556.8	1587.3	1628.5	1638.7	1621.3	1583.3	1550.0	1532.0	1529.5
21	1514.9	1542.7	1574.0	1615.2	1629.8	1612.6	1571.6	1535.3	1516.2	1514.0
22	1498.1	1528.3	1560.8	1601.9	1619.7	1603.7	1560.1	1520.9	1499.7	1497.9
23	1480.7	1513.1	1547.0	1588.9	1608.3	1594.2	1549.0	1506.3	1483.0	1481.3
24	1463.5	1496.9	1532.9	1577.1	1596.7	1584.2	1537.8	1491.4	1465.8	1464.1
25	1446.3	1480.8	1518.8	1565.8	1585.4	1573.6	1526.1	1476.5	1448.3	1446.8
26	1428.9	1464.2	1504.9	1555.2	1574.0	1562.6	1514.6	1461.3	1430.5	1429.5
27	1411.4	1447.7	1491.2	1544.6	1563.6	1550.8	1502.0	1445.9	1412.0	1411.6
28	1393.7	1430.6	1477.6	1533.8	1553.3	1538.8	1488.7	1429.5	1393.4	1393.8
29	1374.8	1413.4	1464.6	1523.0	1543.0	1526.2	1474.1	1412.8	1374.1	1375.3
30	1355.3	1395.3	1451.3	1512.2	1532.2	1513.7	1458.6	1395.1	1354.3	1356.3
31	1335.1	1377.0	1437.8	1501.1	1520.8	1500.6	1442.9	1376.9	1334.3	1337.1
32	1313.9	1358.2	1423.7	1489.5	1509.1	1487.5	1426.2	1358.0	1313.8	1317.1
33	1292.3	1339.2	1408.8	1477.9	1496.9	1474.1	1409.1	1338.5	1293.3	1296.8
34	1271.0	1319.8	1393.1	1465.4	1484.7	1460.9	1391.8	1318.7	1272.5	1276.2
35	1249.7	1300.3	1376.8	1452.5	1472.8	1447.4	1374.6	1298.6	1251.7	1255.2
36	1228.4	1280.5	1359.4	1438.3	1461.0	1433.8	1357.2	1278.4	1231.3	1234.1
37	1207.0	1259.9	1341.2	1422.9	1448.6	1420.5	1340.0	1257.7	1212.8	1212.1
38	1185.7	1238.9	1321.6	1406.5	1435.1	1406.6	1322.3	1236.7	1193.8	1190.3
39	1163.8	1217.5	1301.8	1389.2	1420.5	1392.0	1304.5	1215.2	1169.9	1170.0
40	1141.5	1195.3	1281.2	1371.4	1405.1	1376.9	1286.5	1193.7	1143.8	1150.2
41	1118.7	1173.0	1260.6	1353.6	1388.6	1360.9	1268.3	1172.7	1117.6	1127.1
42	1095.3	1150.4	1240.2	1335.6	1371.4	1343.3	1249.8	1152.6	1093.4	1100.4
43	1071.8	1127.9	1219.9	1317.2	1354.1	1325.0	1230.8	1131.6	1069.5	1073.5
44	1048.0	1105.5	1200.0	1299.3	1337.3	1306.2	1211.4	1109.1	1045.2	1048.5
45	1023.8	1082.7	1180.9	1281.5	1320.2	1286.9	1191.0	1085.9	1021.0	1025.1
46	999.4	1060.2	1161.8	1263.9	1302.8	1268.0	1169.9	1062.8	996.7	1001.9
47	974.8	1038.0	1142.5	1246.4	1285.8	1249.2	1148.2	1039.8	972.1	978.3
48	949.9	1015.3	1123.8	1229.0	1268.3	1230.1	1126.3	1016.6	947.5	954.9
49	924.8	992.7	1104.4	1211.5	1250.4	1210.8	1104.2	992.8	922.9	931.3
50	899.8	969.8	1084.8	1193.9	1232.3	1191.2	1081.9	968.6	898.4	907.2
51	874.6	946.5	1064.3	1175.8	1214.4	1171.9	1059.7	944.0	873.8	883.1
52	849.3	923.0	1043.2	1157.2	1196.0	1152.3	1037.2	919.1	847.3	858.5
53	823.9	899.2	1021.8	1137.8	1177.6	1132.9	1015.1	894.1	820.7	834.4

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CANDELA TABULATION - (Cont.)

54	798.1	875.2	1000.2	1118.0	1158.8	1113.5	993.3	868.4	794.6	810.6
55	772.3	850.9	978.0	1097.2	1139.3	1094.3	971.9	843.4	768.2	785.4
56	746.0	826.2	956.1	1076.3	1119.3	1074.7	950.8	818.5	741.7	758.6
57	719.5	801.6	934.3	1055.2	1099.3	1054.9	929.9	793.8	715.3	733.2
58	692.9	776.8	912.2	1034.4	1079.2	1035.1	909.0	769.9	688.8	708.2
59	666.3	752.1	890.4	1013.8	1059.1	1015.2	888.1	746.0	662.6	682.9
60	639.9	727.3	868.8	993.2	1038.9	995.3	866.8	722.2	636.0	657.7
61	613.3	702.4	846.5	972.6	1018.8	975.0	845.6	698.4	609.7	632.4
62	586.9	677.6	824.4	951.9	998.7	954.7	824.2	674.6	583.5	607.1
63	560.9	652.8	802.6	931.1	978.4	934.4	802.8	650.9	557.3	582.4
64	534.9	628.0	780.4	910.2	958.2	913.9	781.7	627.2	531.2	557.3
65	509.3	603.5	758.9	889.5	937.8	893.2	760.4	603.4	505.0	532.9
66	483.8	579.3	736.9	868.8	918.0	872.7	739.3	580.1	479.1	508.5
67	458.7	555.7	715.3	848.6	897.9	852.6	718.3	556.7	453.2	485.0
68	433.7	532.6	694.1	828.3	878.4	832.6	698.2	533.8	427.3	462.1
69	408.8	510.3	673.5	808.7	859.4	813.5	678.7	511.6	402.1	439.5
70	384.1	488.3	653.5	789.1	840.4	794.6	659.4	489.6	377.3	418.0
71	359.8	466.9	633.9	769.9	821.4	776.4	640.9	468.3	352.6	396.9
72	335.7	446.0	615.4	751.3	802.7	758.3	622.2	447.4	328.7	376.5
73	312.0	425.5	596.7	732.9	784.6	740.4	604.1	427.3	304.7	356.6
74	288.5	405.4	578.8	714.8	766.6	722.6	586.4	407.2	281.2	337.2
75	265.2	385.6	561.0	697.6	748.7	705.3	569.0	388.0	258.1	318.2
76	242.5	366.1	544.0	680.3	731.0	687.9	551.7	369.1	235.5	300.0
77	220.2	347.3	526.8	663.3	714.2	670.7	534.6	350.5	213.5	282.2
78	198.6	329.1	510.1	646.4	697.1	653.6	517.2	332.4	191.7	265.4
79	177.3	311.2	493.6	630.0	680.1	636.6	499.8	314.3	171.2	249.2
80	158.4	293.7	477.2	613.2	663.1	619.5	482.7	297.0	151.5	233.2
81	138.5	276.2	460.8	596.8	646.3	602.6	466.0	279.5	131.5	218.2
82	119.4	259.7	444.2	580.2	629.5	585.3	449.7	262.8	112.4	203.8
83	100.9	242.9	428.1	563.5	612.7	568.3	433.9	246.5	94.3	189.8
84	83.2	227.4	411.7	546.5	596.0	551.2	417.8	230.9	77.1	176.6
85	66.8	212.2	395.5	529.6	579.1	534.3	401.8	216.0	61.4	165.1
86	52.0	197.5	379.6	513.1	562.2	517.7	385.8	201.6	47.3	153.1
87	38.8	183.6	364.8	497.1	545.8	501.6	370.4	187.7	35.0	142.0
88	27.5	172.0	350.2	481.4	529.9	486.0	356.0	174.7	24.9	131.8
89	18.7	159.8	336.2	466.0	514.0	470.8	342.2	164.2	17.7	122.4
90	12.8	148.5	322.5	451.1	498.5	455.7	328.6	152.7	12.9	113.7
91	10.3	137.7	309.4	436.1	483.3	441.0	315.3	141.8	12.6	105.5
92	10.3	127.7	296.3	421.8	468.4	426.5	302.6	131.5	12.5	98.1
93	10.3	118.3	283.9	407.7	454.1	412.6	290.0	122.4	12.6	91.2
94	10.3	109.6	272.1	394.1	440.0	398.8	277.8	114.1	12.5	84.8
95	10.3	101.5	260.6	380.8	426.1	385.7	266.4	106.2	12.4	79.0
96	10.3	94.1	249.3	368.3	412.6	373.0	255.4	98.8	12.3	73.6
97	10.3	87.1	238.5	356.1	399.5	360.6	244.9	91.9	12.3	68.6
98	10.4	80.5	228.0	344.1	386.4	348.3	234.3	85.1	12.2	63.5
99	10.4	73.0	217.9	332.1	373.2	335.9	224.1	77.7	12.2	57.3
100	10.6	64.0	208.2	320.1	360.4	323.7	214.3	69.1	12.3	50.5
101	10.6	52.7	198.9	308.0	347.6	311.5	204.6	59.0	12.4	44.2
102	10.7	47.5	189.8	296.1	334.9	299.6	195.2	54.1	12.5	41.8
103	10.7	44.6	180.7	284.4	322.5	288.0	186.1	50.9	12.5	39.6
104	10.8	41.4	172.9	273.0	310.6	276.8	176.9	48.0	12.7	36.5
105	11.1	37.1	163.7	261.9	299.0	265.8	168.8	45.6	12.8	34.1
106	11.4	35.4	153.3	251.3	287.7	255.1	158.5	43.2	13.0	32.1
107	11.5	32.7	141.8	241.0	276.9	244.9	147.8	41.2	13.2	30.2
108	11.6	30.4	127.5	231.0	266.1	234.5	135.5	39.3	13.4	28.4
109	11.6	28.3	109.1	220.3	255.6	223.6	121.5	37.6	13.6	27.1

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CANDELA TABULATION - (Cont.)

110	11.6	26.4	91.2	208.6	244.5	211.6	107.6	36.0	13.6	25.7
111	11.6	25.0	82.0	196.8	232.7	199.6	100.8	34.8	13.7	24.5
112	11.6	23.7	75.3	183.6	220.3	186.6	96.2	33.7	13.7	23.7
113	11.5	22.6	69.4	170.6	207.5	173.3	91.9	32.6	13.7	22.8
114	11.5	21.5	64.1	154.5	193.3	158.0	87.9	31.6	13.7	21.9
115	11.8	20.7	59.5	137.5	177.6	141.6	84.1	30.7	13.8	21.1
116	12.0	20.0	55.1	125.2	162.0	130.0	80.5	29.9	13.9	20.7
117	12.2	19.4	50.8	118.2	145.0	124.4	77.0	29.1	14.0	20.2
118	12.3	18.9	48.4	110.4	134.6	119.1	73.7	28.4	14.1	19.9
119	12.4	18.5	45.8	101.7	128.8	113.9	70.6	27.8	14.3	19.5
120	12.6	18.2	43.3	94.7	123.3	108.9	67.8	27.1	14.4	19.3
121	12.8	18.0	40.9	87.9	118.0	104.3	64.8	26.6	14.5	19.1
122	13.0	17.7	38.7	81.5	112.7	99.7	62.1	26.1	14.7	18.9
123	13.3	17.8	36.7	75.7	107.7	95.3	59.5	25.6	14.9	18.9
124	13.4	17.7	34.9	70.4	103.0	91.1	57.0	25.1	15.1	19.1
125	13.6	17.9	33.5	65.4	98.6	87.2	54.7	24.8	15.4	19.1
126	13.8	18.0	32.3	60.3	94.3	82.8	52.3	24.5	15.7	19.2
127	14.0	18.1	31.2	55.6	90.3	78.3	50.2	24.1	15.7	19.2
128	14.1	18.1	30.0	51.4	85.4	74.6	48.4	23.7	16.0	19.2
129	14.4	18.0	28.5	47.3	80.4	71.1	46.3	23.4	16.2	19.3
130	14.6	18.0	27.1	43.7	76.4	67.9	44.2	23.1	16.4	19.2
131	14.7	17.9	26.0	41.4	72.7	64.9	42.3	22.9	16.6	19.2
132	14.9	17.7	25.1	39.3	69.2	62.1	40.8	22.7	17.0	19.1
133	15.0	17.7	24.5	37.2	65.6	59.6	39.3	22.5	17.4	19.0
134	15.2	17.7	24.0	35.2	62.3	57.2	38.1	22.4	17.7	18.9
135	15.4	17.7	23.7	33.6	58.9	55.2	36.9	22.3	18.0	18.9
136	15.6	17.8	23.5	31.3	57.2	52.7	35.8	22.4	18.2	18.8
137	15.8	17.8	23.3	28.5	55.2	49.8	34.7	22.2	18.3	18.9
138	16.1	17.9	23.1	26.1	52.7	47.1	33.9	22.2	18.5	18.9
139	16.4	18.0	22.9	24.5	49.4	44.8	33.1	22.2	18.7	19.0
140	16.7	18.2	22.7	23.3	46.2	43.0	32.4	22.3	18.9	19.1
141	17.0	18.3	22.5	22.3	43.7	41.4	31.6	22.2	19.2	19.3
142	17.3	18.5	22.3	21.5	41.4	39.8	30.9	22.3	19.4	19.4
143	17.7	18.8	22.1	20.7	39.3	38.3	30.2	22.4	19.6	19.5
144	18.0	18.9	22.0	20.1	37.3	36.7	29.6	22.4	19.8	19.7
145	18.4	19.1	21.8	19.5	35.7	35.3	29.1	22.3	20.0	19.8
146	18.7	19.2	21.4	19.0	34.2	33.8	28.4	22.4	20.3	20.1
147	19.0	19.3	21.1	18.4	32.6	32.5	27.7	22.5	20.5	20.3
148	19.1	19.3	20.8	18.0	31.2	31.1	26.9	22.5	20.8	20.4
149	19.2	19.4	20.3	17.7	29.9	29.9	26.2	22.4	21.1	20.5
150	19.6	19.4	20.1	17.4	28.6	28.8	25.6	22.4	21.5	20.6
151	19.8	19.4	19.9	17.0	27.5	27.8	25.0	22.3	21.9	20.5
152	20.1	19.6	19.8	16.5	26.4	26.9	24.4	22.4	22.3	20.5
153	20.3	19.7	19.7	16.0	25.1	25.9	24.0	22.2	22.7	20.6
154	20.4	19.9	19.7	15.5	23.7	24.9	23.7	22.3	23.1	21.0
155	20.8	20.2	19.7	15.0	21.7	24.1	23.5	22.5	23.3	21.3
156	21.2	20.4	19.8	14.4	17.7	23.4	23.3	22.7	23.6	21.5
157	21.5	20.5	19.9	14.1	12.9	22.7	23.2	22.8	23.9	21.4
158	21.8	20.6	19.9	14.0	12.1	22.2	23.3	22.9	24.1	21.4
159	22.1	20.5	19.8	14.0	11.9	21.7	23.3	23.1	24.3	21.5
160	22.5	20.5	19.7	14.3	11.5	21.2	23.2	23.0	24.4	21.8
161	22.9	20.6	19.6	14.3	11.3	20.8	23.0	22.9	24.6	22.1
162	23.1	20.8	19.6	14.4	11.3	20.4	22.8	22.8	24.6	22.3
163	23.3	21.0	19.4	14.7	11.3	20.0	22.9	23.0	25.0	22.7
164	23.6	21.4	19.5	14.9	11.4	19.9	22.8	23.4	25.3	23.1
165	23.9	21.9	19.7	15.0	11.5	19.8	22.8	23.8	25.6	23.6

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S-LED4-44PS-8CSA_44W_5K.IES

CANDELA TABULATION - (Cont.)

166	24.2	22.4	19.9	15.2	11.6	19.7	22.7	24.4	25.9	24.1
167	24.2	23.0	20.1	15.4	11.6	19.6	22.4	24.7	26.2	24.5
168	24.4	23.5	20.0	15.5	11.6	19.6	22.1	25.0	26.6	24.8
169	24.6	23.9	19.6	15.3	11.4	19.3	21.7	25.3	26.9	25.1
170	24.7	24.2	19.7	15.0	11.2	18.9	21.3	25.5	27.0	25.4
171	25.0	24.2	20.0	14.6	10.9	18.3	21.6	25.7	27.1	25.5
172	25.1	24.0	20.5	14.4	10.4	17.5	22.3	25.8	26.9	25.6
173	25.2	23.9	20.9	15.0	10.3	17.5	22.7	25.9	26.8	25.7
174	25.3	23.9	20.8	15.9	10.9	17.5	22.8	26.0	26.7	26.0
175	25.1	23.9	21.1	16.5	11.6	17.8	22.8	26.1	26.7	26.1
176	24.9	24.0	21.3	16.6	11.6	18.1	22.7	26.2	26.9	25.9
177	24.9	24.2	21.8	16.8	11.4	18.4	23.0	26.1	27.1	25.8
178	25.0	24.3	21.8	17.3	11.4	18.3	23.1	25.7	27.0	25.7
179	25.2	24.4	21.7	17.6	11.9	17.9	23.1	25.9	26.7	26.0
180	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

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	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9
1	1683.6	1697.8	1697.6	1689.3	1681.6	1681.6	1679.6
2	1679.7	1695.0	1698.1	1694.7	1687.2	1684.7	1679.8
3	1674.5	1690.3	1696.0	1699.0	1692.5	1687.0	1679.8
4	1667.6	1684.2	1691.3	1701.3	1695.7	1688.0	1678.0
5	1659.8	1677.6	1685.4	1700.9	1696.5	1687.2	1675.9
6	1652.3	1670.9	1679.5	1697.6	1694.6	1684.6	1673.1
7	1645.0	1664.3	1673.7	1692.9	1690.8	1681.1	1669.3
8	1638.4	1657.4	1667.9	1685.6	1684.9	1675.6	1664.5
9	1633.1	1650.7	1662.0	1676.8	1676.8	1668.7	1658.3
10	1629.0	1644.1	1656.2	1666.7	1667.9	1660.5	1651.5
11	1625.4	1637.7	1649.4	1656.3	1656.9	1650.8	1643.6
12	1621.5	1631.8	1641.5	1645.4	1645.2	1640.0	1634.6
13	1616.8	1626.5	1633.2	1634.5	1631.8	1627.9	1624.5
14	1610.6	1621.9	1624.1	1623.5	1617.6	1614.2	1613.0
15	1602.5	1616.8	1614.9	1612.2	1603.0	1599.8	1601.0
16	1592.3	1610.8	1606.0	1600.6	1588.5	1585.1	1588.0
17	1580.1	1602.7	1597.2	1588.8	1573.7	1569.6	1574.4
18	1566.9	1591.8	1588.9	1577.8	1559.7	1554.3	1560.4
19	1552.4	1578.5	1579.0	1566.5	1545.6	1539.0	1546.3
20	1537.1	1563.2	1568.1	1555.2	1531.8	1523.0	1531.0
21	1521.4	1547.1	1555.8	1543.8	1517.8	1507.0	1515.6
22	1505.7	1530.8	1542.6	1532.0	1503.9	1491.1	1499.1
23	1489.9	1515.3	1528.0	1519.5	1490.3	1474.9	1482.5
24	1473.9	1500.5	1513.4	1506.6	1476.8	1458.8	1465.4
25	1458.0	1486.5	1499.1	1493.4	1463.0	1442.3	1447.8
26	1442.0	1473.0	1485.4	1479.3	1449.3	1426.1	1429.8
27	1425.8	1459.4	1471.9	1464.5	1434.8	1409.3	1412.0
28	1410.3	1446.2	1459.2	1450.1	1419.6	1392.2	1393.2
29	1394.9	1432.6	1446.3	1435.2	1403.2	1374.4	1374.2
30	1379.4	1419.0	1433.0	1420.2	1386.2	1355.8	1354.6
31	1363.8	1405.4	1419.2	1404.5	1368.2	1336.2	1334.8
32	1347.7	1391.7	1405.0	1389.1	1349.8	1316.2	1314.3
33	1331.0	1377.4	1390.5	1373.1	1331.0	1296.2	1293.6
34	1313.4	1362.8	1376.0	1357.7	1311.7	1275.4	1272.6
35	1294.8	1347.7	1361.8	1341.8	1292.8	1254.4	1251.9
36	1275.7	1331.8	1347.8	1325.9	1273.6	1232.9	1230.6

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

37	1255.7	1314.2	1333.3	1310.4	1254.8	1211.4	1209.3
38	1234.8	1296.0	1318.1	1294.5	1235.3	1189.3	1187.6
39	1213.0	1276.7	1301.7	1278.4	1215.7	1167.0	1164.9
40	1190.9	1257.0	1284.3	1261.4	1196.2	1144.9	1142.0
41	1168.6	1237.3	1266.1	1243.7	1176.7	1122.6	1118.6
42	1146.7	1217.5	1247.5	1225.0	1157.0	1100.3	1095.0
43	1125.0	1197.7	1228.6	1205.5	1136.7	1077.8	1071.3
44	1103.4	1178.3	1209.9	1185.7	1115.9	1055.5	1047.5
45	1082.4	1159.4	1191.6	1165.0	1094.4	1032.6	1023.5
46	1061.6	1140.7	1173.2	1144.9	1072.0	1009.5	999.3
47	1041.1	1122.0	1154.8	1124.6	1049.2	985.7	975.0
48	1020.8	1103.5	1136.4	1104.4	1026.4	961.6	950.6
49	1000.5	1085.3	1118.0	1084.3	1003.3	937.3	926.0
50	979.9	1066.8	1099.6	1064.2	980.1	911.7	901.1
51	958.9	1048.0	1080.9	1043.7	957.2	887.0	875.8
52	938.8	1028.3	1062.3	1024.3	934.2	861.3	850.3
53	917.9	1008.7	1043.6	1004.3	911.7	835.7	824.5
54	895.1	988.3	1024.4	984.7	889.5	809.5	798.8
55	871.7	967.8	1004.9	965.2	867.6	783.8	772.6
56	848.1	947.0	985.2	945.8	846.3	758.3	746.2
57	825.0	926.5	965.6	925.8	824.9	733.5	719.8
58	802.4	905.8	945.9	905.9	803.5	708.9	693.4
59	780.6	885.5	926.4	886.1	782.4	684.8	667.3
60	758.9	865.2	907.0	866.5	761.2	660.7	641.3
61	737.4	845.0	887.6	846.9	739.8	636.6	614.9
62	715.6	824.8	868.1	827.2	718.6	612.6	588.4
63	693.9	804.4	848.5	807.5	697.4	588.6	562.1
64	672.2	784.4	829.0	787.7	676.4	564.8	536.3
65	650.6	764.0	809.8	768.0	655.8	541.0	510.0
66	629.2	744.4	790.5	748.6	635.3	517.3	484.2
67	608.1	724.8	771.6	729.3	614.9	494.4	458.5
68	587.6	705.9	753.1	710.7	595.4	471.5	433.1
69	567.7	687.4	735.1	692.3	576.2	449.4	408.1
70	548.3	669.2	717.4	674.8	558.0	428.1	383.5
71	529.9	651.5	700.1	657.1	540.2	407.0	359.5
72	512.3	634.4	683.1	640.8	522.5	386.6	335.7
73	495.0	617.3	666.3	624.0	505.3	366.9	312.0
74	478.3	601.0	649.8	608.1	488.6	347.8	288.8
75	462.0	585.3	633.7	592.0	472.1	329.2	266.2
76	446.1	569.7	617.7	576.2	455.9	311.0	243.5
77	430.8	554.4	602.3	560.6	440.2	293.3	221.4
78	415.8	539.5	587.1	545.4	424.7	276.1	199.4
79	401.4	524.7	571.9	530.3	409.2	259.4	178.1
80	386.8	510.0	557.0	515.4	394.3	243.4	158.9
81	372.6	495.6	542.1	500.4	379.5	228.0	139.2
82	358.5	481.2	527.4	485.5	365.5	213.2	119.9
83	344.9	466.8	512.7	471.0	351.7	199.3	101.4
84	330.8	452.2	498.3	456.3	338.4	186.0	83.8
85	317.3	438.1	483.8	441.8	325.2	173.5	67.4
86	304.3	424.2	469.7	427.6	312.0	162.4	52.6
87	292.0	410.2	455.6	413.9	299.1	150.7	39.3
88	280.0	396.9	442.1	400.6	286.7	139.8	27.9
89	268.4	383.9	428.5	387.6	275.3	129.7	18.9
90	257.3	371.3	415.2	375.1	264.2	120.5	12.9
91	246.4	358.8	402.4	362.9	253.2	112.1	10.3
92	236.1	346.6	389.9	351.2	242.9	104.0	10.3

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

93	226.5	335.7	377.8	339.6	232.8	96.7	10.4
94	217.2	324.6	365.9	328.3	223.0	89.9	10.7
95	208.2	313.9	354.4	317.4	213.6	83.8	10.7
96	199.3	303.5	343.3	306.9	204.8	78.3	10.8
97	190.7	293.4	332.3	296.6	196.3	73.1	10.9
98	182.4	283.4	321.5	286.5	187.9	68.1	11.0
99	174.5	273.5	310.7	276.4	179.7	62.6	11.0
100	168.4	263.3	300.0	266.1	172.8	56.2	11.0
101	161.0	253.5	289.3	256.1	165.7	48.8	11.1
102	153.7	243.6	278.6	246.4	158.1	42.5	11.1
103	146.4	234.2	268.3	236.8	150.9	40.2	11.1
104	139.1	224.8	258.3	227.5	143.7	38.2	11.0
105	131.2	215.8	248.5	218.5	136.3	36.5	11.0
106	122.2	207.0	239.0	209.9	127.9	34.8	11.0
107	112.1	198.5	229.7	201.3	119.0	33.3	11.0
108	100.1	190.1	220.7	193.0	109.5	32.1	11.1
109	86.9	180.9	211.9	184.0	99.0	30.8	11.1
110	75.4	172.1	202.8	174.1	87.4	29.4	11.2
111	69.7	161.8	192.7	164.9	80.3	28.4	11.3
112	64.7	151.1	182.0	154.3	77.0	27.5	11.4
113	60.2	139.7	172.3	143.0	73.9	26.7	11.5
114	55.9	127.0	160.8	130.7	70.9	25.9	11.6
115	51.8	113.4	148.5	117.7	68.3	25.2	11.7
116	48.4	104.8	135.1	107.3	65.5	24.6	11.8
117	46.9	98.7	121.2	102.7	62.9	23.9	12.1
118	44.3	92.4	113.0	98.4	60.4	23.5	12.3
119	41.8	86.2	108.3	94.3	58.0	23.0	12.4
120	39.3	80.4	103.8	90.2	55.7	22.6	12.6
121	37.4	75.0	99.5	86.4	53.4	22.2	12.7
122	36.3	70.1	95.2	82.7	51.2	21.9	12.8
123	34.7	65.5	91.1	79.1	49.2	21.6	13.2
124	33.3	61.4	87.1	75.7	47.3	21.3	13.3
125	32.2	57.3	83.2	72.5	45.4	21.1	13.6
126	31.1	52.7	79.6	69.0	43.8	21.0	13.8
127	30.2	48.5	76.1	65.4	42.3	20.8	14.0
128	29.2	45.1	72.2	62.4	40.8	20.6	14.2
129	28.0	42.8	68.1	59.8	39.1	20.4	14.4
130	26.9	40.5	64.9	57.3	37.4	20.2	14.7
131	26.1	38.1	62.0	55.2	35.9	19.9	14.7
132	25.6	35.7	59.5	53.1	34.8	19.7	15.0
133	25.1	33.3	57.1	51.1	33.6	19.5	15.3
134	24.7	31.8	54.7	49.2	32.8	19.3	15.5
135	24.3	30.9	52.5	47.5	31.8	19.1	15.6
136	23.9	28.9	50.4	45.5	31.1	19.0	15.9
137	23.7	26.9	48.4	43.2	30.2	18.8	16.0
138	23.1	25.0	46.3	40.9	29.3	18.8	16.1
139	22.7	23.8	43.6	39.0	28.7	18.7	16.4
140	22.4	22.8	40.9	37.6	28.1	18.7	16.7
141	22.2	22.1	38.5	36.0	27.4	18.7	16.8
142	22.0	21.4	36.2	34.6	26.8	18.7	17.1
143	21.9	20.7	34.2	33.2	26.3	18.9	17.4
144	21.8	20.0	33.2	31.8	25.8	19.1	17.6
145	21.7	19.3	31.9	30.5	25.1	19.2	17.9
146	21.5	18.6	30.4	29.3	24.5	19.2	18.3
147	21.4	18.0	29.2	28.2	23.9	19.1	18.6
148	21.3	17.5	27.8	27.3	23.2	19.0	18.9

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	21.2	17.1	26.5	26.5	22.6	19.0	19.2
150	20.9	16.7	25.0	25.7	22.1	19.1	19.6
151	20.8	16.4	24.4	25.0	21.6	19.1	20.0
152	20.6	16.2	23.9	23.9	21.0	19.1	20.4
153	20.5	16.1	22.8	23.2	20.7	19.2	20.7
154	20.4	15.7	21.7	22.4	20.4	19.4	20.8
155	20.2	15.3	19.9	21.8	20.3	19.4	20.9
156	20.1	15.0	16.0	21.1	20.0	19.7	21.2
157	20.0	14.8	12.5	20.5	19.8	19.9	21.4
158	19.9	14.7	11.5	19.9	19.9	19.9	21.6
159	19.6	14.4	11.2	19.5	19.8	19.9	21.9
160	19.6	14.4	11.1	19.1	19.8	19.9	22.2
161	19.7	14.3	10.8	18.7	19.7	20.1	22.5
162	19.6	14.2	10.7	18.2	19.7	20.5	22.9
163	19.7	14.3	10.6	17.6	19.8	21.0	23.2
164	19.8	14.4	10.6	17.5	20.0	21.4	23.6
165	20.1	14.6	10.6	17.5	20.1	21.9	24.1
166	20.2	14.7	10.7	17.4	20.1	22.3	24.4
167	20.1	14.9	10.7	17.4	20.0	22.7	24.7
168	20.2	15.2	10.8	17.3	19.8	23.0	24.8
169	20.4	15.4	10.9	17.0	19.7	23.2	24.8
170	20.9	15.2	11.0	16.5	19.9	23.4	24.8
171	21.5	15.2	10.7	16.0	20.1	23.7	24.9
172	22.0	15.6	10.6	16.0	20.5	24.0	24.7
173	22.3	15.9	10.9	16.1	20.5	24.1	24.9
174	22.5	16.4	11.1	16.5	20.9	24.1	25.2
175	22.5	16.9	11.2	16.8	21.1	24.3	25.3
176	22.7	17.0	11.4	16.9	21.2	24.0	24.9
177	22.5	17.2	11.6	17.0	21.5	23.9	24.9
178	23.0	17.6	11.7	17.6	21.7	24.2	25.2
179	23.3	18.2	12.2	17.2	21.7	24.4	25.5
180	21.1	21.1	21.1	21.1	21.1	21.1	21.1

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	617.89	N.A.	10.30
0-30	1307.3	N.A.	21.80
0-40	2143.3	N.A.	35.70
0-60	3848.27	N.A.	64.10
0-80	5069.45	N.A.	84.40
0-90	5435.96	N.A.	90.50
10-90	5275.75	N.A.	87.80
20-40	1525.41	N.A.	25.40
20-50	2404.95	N.A.	40.00
40-70	2398.23	N.A.	39.90
60-80	1221.17	N.A.	20.30
70-80	527.92	N.A.	8.80
80-90	366.51	N.A.	6.10
90-110	393.07	N.A.	6.50
90-120	471.74	N.A.	7.90
90-130	513.80	N.A.	8.60
90-150	553.90	N.A.	9.20
90-180	570.86	N.A.	9.50
110-180	177.79	N.A.	3.00
0-180	6006.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.21
10-20	457.68
20-30	689.41
30-40	836.00
40-50	879.54
50-60	825.44
60-70	693.25
70-80	527.92
80-90	366.51
90-100	241.67
100-110	151.39
110-120	78.68
120-130	42.06
130-140	24.73
140-150	15.36
150-160	9.51
160-170	5.51
170-180	1.94

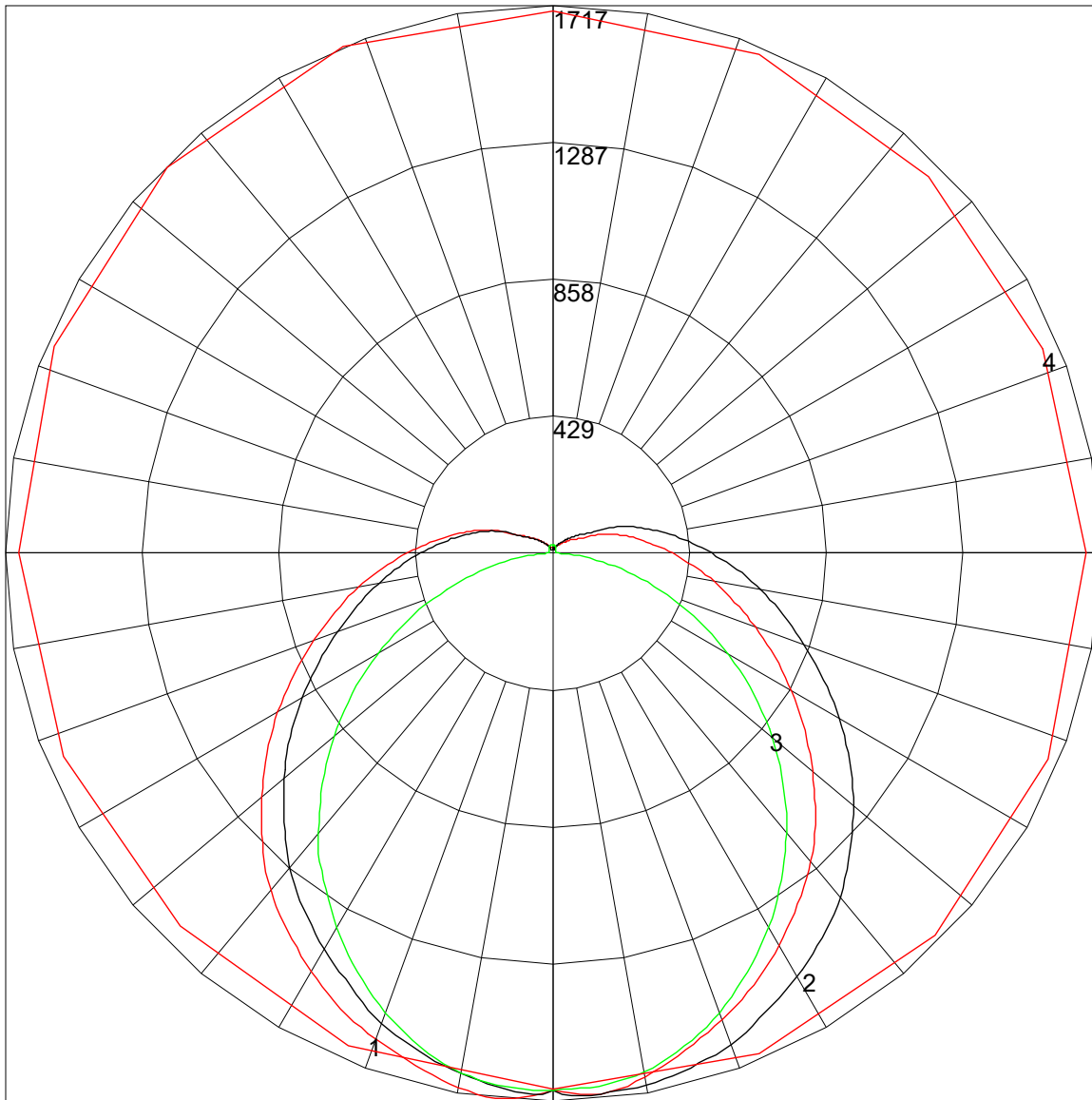
IES INDOOR REPORT
PHOTOMETRIC FILENAME : S-LED4-44PS-8CSA_44W_5K.IES

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	75	70	77	71	66	72	68	64	68	64	61	58
3	86	74	65	58	82	72	64	57	67	61	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	46	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	37	35
6	66	52	43	36	64	51	42	36	48	40	35	45	39	34	43	37	33	30
7	61	47	38	32	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	33	28	23	21
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

POLAR GRAPH



Maximum Candela = 1716.5 Located At Horizontal Angle = 112.5, Vertical Angle = 6
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (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 (6) (Through Max. Cd.)