



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VTLED44-4A-50K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4789877761_15
[TESTLAB] UL-CCIC (Suzhou) Co.,Ltd
[TESTDATE] 04/06/2021
[ISSUEDATE] 06/10/2021
[MANUFAC] Lamar LED
[LUMCAT] VTLED-4A-44PS-8CSA 5000K/44W
[VOLTAGE] 120.11V
[CURRENT] 0.3757A
[WATTS] 45.02W
[POWER FACTOR] 0.9979
[ATHD] 3.28%

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5928
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.08 m
Luminous Height	0.03 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16835	14695	14647
55	15489	13374	13561
65	13478	11903	12353
75	11090	10496	11154
85	6947	9453	10267

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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	1930.5	1930.5	1930.5	1930.5	1930.5	1930.5	1930.5	1930.5	1930.5	1930.5
1	1918.8	1921.9	1922.5	1943.0	1943.6	1933.5	1924.9	1920.7	1922.0	1918.5
2	1919.6	1913.5	1918.4	1938.7	1946.1	1941.4	1933.7	1926.4	1919.8	1917.2
3	1918.0	1911.1	1915.4	1937.0	1948.0	1946.3	1942.0	1932.0	1919.2	1912.0
4	1913.4	1907.6	1908.5	1928.6	1942.8	1952.6	1947.0	1931.1	1916.0	1903.8
5	1911.8	1901.3	1902.1	1926.3	1939.2	1952.3	1947.9	1930.5	1915.9	1901.3
6	1908.6	1899.7	1895.0	1918.2	1931.4	1953.5	1947.2	1929.1	1910.0	1897.7
7	1899.8	1896.6	1886.2	1913.9	1928.8	1947.1	1944.7	1926.9	1910.2	1890.8
8	1900.8	1894.2	1885.5	1908.4	1920.7	1942.0	1941.0	1922.9	1900.1	1890.2
9	1895.0	1887.2	1879.2	1899.6	1916.8	1928.1	1930.6	1916.6	1898.3	1884.8
10	1886.8	1882.3	1874.6	1892.9	1908.6	1915.8	1920.0	1906.3	1890.6	1873.8
11	1877.9	1876.8	1869.6	1886.4	1899.2	1901.5	1907.1	1892.8	1880.9	1870.9
12	1868.1	1869.7	1868.6	1881.5	1891.3	1891.6	1893.4	1887.3	1868.9	1864.3
13	1854.0	1857.6	1865.9	1875.1	1878.3	1879.0	1879.4	1871.5	1862.7	1854.3
14	1841.5	1849.9	1855.1	1866.5	1868.9	1868.9	1862.3	1858.0	1847.7	1843.4
15	1828.3	1838.9	1848.8	1860.4	1856.2	1856.6	1849.9	1843.0	1836.7	1829.5
16	1820.0	1825.0	1835.1	1850.5	1841.4	1839.7	1831.9	1826.5	1823.1	1819.0
17	1800.4	1810.4	1820.9	1842.1	1832.8	1826.8	1814.9	1809.3	1803.4	1803.6
18	1782.9	1792.9	1803.3	1824.6	1821.2	1808.6	1799.7	1794.4	1791.3	1790.1
19	1769.4	1780.7	1789.2	1807.1	1804.9	1793.7	1781.8	1777.7	1775.0	1775.4
20	1752.8	1763.9	1769.4	1787.5	1792.3	1777.9	1766.2	1758.3	1758.6	1758.3
21	1738.9	1748.6	1750.7	1768.7	1774.7	1764.9	1750.2	1746.8	1745.5	1741.5
22	1719.3	1735.9	1737.8	1749.7	1755.6	1748.2	1740.5	1731.3	1728.0	1726.6
23	1704.0	1717.5	1718.8	1731.5	1738.4	1739.4	1724.5	1714.5	1710.1	1707.3
24	1685.8	1699.8	1699.5	1713.1	1722.3	1719.2	1708.2	1696.4	1690.7	1686.9
25	1664.1	1679.6	1679.8	1692.9	1700.7	1701.4	1692.0	1677.5	1670.5	1666.2
26	1647.7	1657.4	1662.9	1676.5	1682.8	1682.2	1672.9	1659.9	1652.4	1649.2
27	1624.0	1641.2	1639.5	1656.8	1665.4	1665.0	1653.8	1641.0	1630.3	1626.0
28	1602.5	1620.6	1622.4	1640.5	1646.7	1644.8	1635.0	1621.1	1607.7	1606.2
29	1579.1	1597.9	1602.6	1622.4	1630.0	1624.2	1615.4	1600.6	1588.9	1585.5
30	1556.3	1576.2	1586.3	1603.7	1610.2	1605.5	1596.3	1578.2	1567.0	1566.4
31	1533.9	1554.7	1565.6	1589.0	1593.2	1584.1	1572.8	1557.7	1545.2	1543.7
32	1509.8	1532.5	1547.8	1566.8	1570.6	1564.6	1549.2	1534.6	1522.2	1519.5
33	1484.8	1508.9	1526.7	1549.5	1554.6	1546.8	1530.8	1510.8	1498.6	1495.8
34	1461.1	1484.9	1503.9	1534.6	1537.3	1527.3	1507.1	1487.7	1474.7	1472.0
35	1439.8	1464.0	1481.9	1511.9	1519.3	1507.1	1484.6	1463.9	1449.7	1448.2
36	1413.2	1436.4	1458.0	1491.7	1500.2	1485.4	1461.5	1440.6	1424.8	1426.8
37	1389.3	1411.1	1435.8	1469.4	1480.1	1466.6	1435.5	1415.2	1401.9	1397.5
38	1363.1	1385.0	1410.8	1445.8	1460.5	1446.9	1413.8	1389.2	1374.2	1370.7
39	1337.6	1359.2	1382.9	1423.4	1440.3	1427.4	1390.0	1365.5	1348.2	1344.9
40	1310.3	1331.5	1357.4	1397.9	1417.3	1404.8	1367.0	1338.5	1322.2	1318.5
41	1280.8	1306.0	1331.1	1375.4	1395.0	1381.5	1342.3	1314.0	1295.4	1290.7
42	1256.0	1277.9	1306.2	1349.6	1369.4	1358.5	1318.0	1288.8	1267.5	1261.7
43	1226.8	1252.5	1281.3	1326.5	1350.3	1335.1	1295.1	1263.0	1238.0	1234.6
44	1196.4	1223.8	1257.0	1304.3	1329.9	1311.0	1270.6	1238.0	1213.0	1208.8
45	1167.1	1197.1	1233.2	1282.1	1305.5	1286.5	1243.9	1208.2	1183.9	1182.1
46	1139.8	1170.4	1209.4	1260.8	1282.8	1262.8	1220.8	1181.3	1157.2	1154.5
47	1109.6	1145.6	1185.8	1240.3	1261.7	1240.2	1194.2	1155.5	1127.9	1127.6
48	1082.0	1117.1	1161.0	1216.3	1242.8	1216.3	1167.1	1126.8	1099.0	1101.0
49	1053.3	1091.8	1138.2	1196.5	1219.5	1194.3	1142.2	1098.6	1070.8	1072.3
50	1023.7	1065.3	1114.5	1174.5	1197.7	1171.5	1114.8	1070.5	1039.4	1047.0
51	995.7	1034.0	1086.5	1151.7	1171.8	1146.4	1084.2	1041.2	1012.2	1015.3
52	967.1	1005.8	1063.2	1128.2	1149.2	1121.2	1058.1	1010.5	980.0	986.0
53	935.5	980.3	1035.9	1107.0	1126.2	1100.2	1033.2	980.3	951.1	957.9

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CANDELA TABULATION - (Cont.)

54	908.8	949.6	1012.2	1082.3	1104.8	1076.0	1005.8	951.6	920.2	928.1
55	878.6	920.5	984.7	1055.4	1080.4	1052.5	977.4	922.1	888.2	899.0
56	846.5	891.1	958.0	1029.9	1056.5	1026.9	956.3	894.3	860.0	868.1
57	816.2	861.1	932.5	1003.3	1030.8	1005.5	930.9	864.6	827.9	838.7
58	784.1	831.7	907.3	979.6	1008.0	979.7	904.1	835.1	799.3	810.2
59	752.5	802.2	880.4	956.2	980.2	955.8	881.9	809.8	765.7	780.8
60	721.3	776.1	856.0	931.4	960.4	930.9	854.0	779.9	739.4	751.1
61	692.8	746.5	830.4	908.8	935.4	906.3	831.8	752.8	708.7	722.4
62	659.7	716.5	802.3	881.8	909.0	885.1	803.9	725.2	677.8	693.4
63	629.9	692.0	779.6	858.9	886.5	859.9	780.0	697.7	649.5	663.4
64	601.0	663.5	753.0	831.2	860.2	830.8	755.5	670.7	620.7	632.8
65	571.5	631.1	727.3	808.1	837.4	809.8	731.3	644.5	589.2	604.4
66	544.6	605.0	701.5	782.2	811.0	785.3	705.7	616.4	559.8	574.6
67	515.1	577.2	676.7	758.2	784.2	759.1	679.8	588.7	531.8	545.9
68	489.3	551.4	652.6	733.4	761.4	735.4	655.6	561.2	500.6	519.1
69	458.8	524.5	626.5	709.6	738.1	712.1	630.5	533.9	473.4	491.3
70	430.8	499.8	602.1	685.7	712.3	687.1	606.9	511.1	444.1	465.7
71	405.6	473.7	580.2	662.6	690.8	666.1	583.3	483.5	417.3	440.6
72	375.7	450.8	557.0	640.3	667.1	642.8	561.9	460.7	390.2	417.3
73	350.5	425.3	533.8	617.1	646.8	621.1	538.8	434.1	362.2	391.2
74	323.8	401.8	512.4	595.1	622.5	596.6	518.1	413.0	337.4	368.9
75	297.1	379.7	490.4	574.2	600.6	578.4	493.9	388.3	311.1	344.6
76	271.7	356.2	467.6	552.2	576.3	557.4	470.8	363.5	285.7	321.8
77	245.9	330.8	448.1	529.6	555.0	531.7	450.5	340.4	257.8	298.0
78	220.5	313.4	428.8	508.9	534.9	512.1	427.0	317.9	230.9	274.9
79	196.6	290.8	407.7	489.7	513.8	489.9	407.9	295.9	207.1	252.2
80	172.7	268.5	385.9	470.2	492.4	468.1	387.9	273.6	182.7	231.1
81	149.9	248.9	366.9	449.3	471.9	450.4	366.7	251.5	161.8	212.1
82	130.2	226.4	348.7	427.1	453.3	425.5	348.0	229.2	135.3	192.5
83	111.4	207.7	330.5	407.6	432.7	410.0	328.9	212.0	117.5	172.0
84	89.4	190.9	309.6	387.0	413.5	391.3	308.3	190.1	97.9	154.3
85	72.0	171.5	292.3	366.9	392.9	371.3	288.9	172.8	80.5	140.0
86	56.3	155.9	273.5	352.1	374.9	353.2	274.3	153.4	65.2	122.5
87	45.3	140.2	258.0	334.1	355.7	336.0	257.6	140.5	45.8	106.9
88	33.2	125.8	241.8	316.7	338.6	319.3	244.0	124.3	38.2	94.0
89	26.5	112.9	229.2	300.3	322.5	304.0	228.2	113.7	32.0	87.2
90	18.8	99.1	214.0	283.4	308.0	286.7	215.6	102.6	22.0	78.5
91	18.7	91.3	201.0	269.6	291.9	272.6	202.1	95.5	21.5	73.1
92	18.2	84.3	190.1	256.5	280.0	258.7	190.6	85.6	19.0	66.4
93	20.5	76.6	179.2	244.8	266.1	246.1	180.2	78.8	22.2	61.5
94	19.0	71.0	168.3	232.1	252.1	234.6	169.2	71.2	20.5	54.3
95	16.4	63.3	162.5	220.6	241.1	223.0	161.9	65.6	18.4	51.7
96	16.9	58.4	148.2	212.5	229.4	211.6	150.7	58.4	21.2	47.7
97	16.0	53.9	141.8	199.9	218.8	202.1	142.7	53.6	19.0	44.1
98	16.9	48.2	132.1	188.1	209.2	192.0	131.5	50.8	18.9	40.0
99	15.1	44.4	124.1	179.2	197.0	181.7	123.4	45.3	15.8	37.1
100	14.9	39.7	117.2	168.5	188.4	172.6	116.0	41.9	17.8	35.9
101	13.3	35.8	110.5	161.0	178.7	163.1	110.1	39.8	17.9	34.7
102	14.1	32.1	102.2	151.3	167.3	155.6	103.0	35.4	17.0	28.9
103	12.7	24.0	94.3	144.1	161.5	144.8	94.5	28.2	14.8	23.7
104	10.7	21.4	88.2	137.3	151.3	134.5	88.4	26.4	14.8	23.1
105	11.9	21.1	81.7	131.6	142.6	130.4	83.2	23.4	14.0	22.9
106	10.3	16.6	75.8	121.3	135.2	122.4	79.4	21.2	13.7	20.0
107	13.8	13.0	71.0	114.4	127.4	114.1	72.1	18.9	14.3	16.3
108	11.3	15.3	65.2	108.8	120.6	108.1	67.2	17.7	14.1	17.0
109	10.7	12.4	61.0	101.0	115.0	102.3	62.6	15.7	11.2	14.6

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CANDELA TABULATION - (Cont.)

110	12.9	13.7	54.5	94.0	106.6	97.0	55.4	14.9	11.6	14.2
111	10.9	12.5	44.8	89.4	101.6	89.4	48.8	15.2	13.0	12.2
112	8.8	10.5	39.0	83.3	95.3	84.8	45.1	11.9	12.6	11.4
113	11.0	11.1	32.9	79.3	91.0	78.5	37.3	14.1	13.7	11.8
114	9.2	11.7	29.5	72.1	83.1	74.0	34.6	13.6	13.3	12.0
115	11.9	12.8	24.8	67.2	80.3	70.3	30.3	11.1	10.4	9.8
116	10.2	9.0	21.8	61.6	73.0	62.0	28.4	11.9	11.2	11.8
117	12.8	9.0	21.0	53.5	68.4	55.0	26.6	9.9	12.8	12.8
118	8.9	8.8	16.1	45.1	63.9	48.7	24.3	10.6	11.7	9.8
119	8.7	9.5	15.2	38.8	54.0	40.6	21.5	12.8	10.9	9.5
120	9.1	7.9	16.8	34.3	45.6	36.2	20.6	12.1	11.3	10.4
121	9.4	10.0	13.1	32.8	39.6	32.8	18.4	9.2	11.0	11.5
122	8.2	9.6	12.4	28.3	36.8	31.9	18.3	11.3	10.0	11.6
123	8.5	8.8	12.9	25.0	32.6	27.6	16.6	11.7	10.6	10.5
124	7.1	7.1	10.8	21.0	31.3	25.8	14.5	10.4	10.6	11.8
125	8.1	8.7	9.8	20.1	29.8	24.4	13.7	10.0	10.5	9.3
126	8.7	10.3	7.1	20.4	25.9	24.0	10.5	10.2	8.3	9.9
127	7.7	8.7	6.9	15.9	24.1	20.4	9.8	8.8	9.6	10.4
128	8.6	8.3	7.8	14.2	20.4	19.1	8.5	9.2	6.7	10.0
129	8.6	8.6	7.7	11.7	20.4	17.7	7.7	10.5	9.6	11.0
130	8.2	7.9	5.8	9.7	15.9	16.7	9.1	8.0	10.6	9.4
131	5.4	8.7	8.6	9.8	16.8	13.5	10.6	9.0	10.1	10.3
132	7.0	7.8	7.8	10.6	13.6	16.9	9.6	10.5	8.9	10.1
133	9.6	7.8	6.6	9.5	13.8	11.8	9.6	10.9	9.7	10.1
134	8.4	6.6	5.2	5.9	10.5	9.3	10.7	9.7	11.2	8.9
135	8.6	7.7	7.8	7.9	10.7	10.5	8.0	10.2	9.0	8.3
136	8.6	10.0	8.4	5.1	9.1	10.8	9.9	9.7	9.2	8.1
137	7.5	9.4	10.0	8.4	7.6	7.2	11.8	11.0	10.7	8.8
138	8.7	9.1	9.1	5.9	7.4	7.8	10.7	9.9	10.0	10.0
139	9.2	7.8	8.3	6.6	5.4	6.4	9.8	10.1	13.0	8.6
140	9.7	10.3	8.8	6.5	7.2	7.0	11.8	11.7	9.9	9.4
141	10.4	8.6	9.2	8.0	7.0	8.4	7.7	9.5	11.0	11.9
142	10.6	10.0	8.4	6.1	7.7	8.5	10.7	10.8	11.0	10.3
143	8.7	9.5	8.0	5.6	7.1	6.8	9.9	9.4	12.9	11.9
144	8.8	6.9	6.6	5.7	5.2	11.6	6.8	12.4	12.0	9.7
145	8.3	8.6	7.2	6.9	7.4	8.8	8.9	9.1	10.1	10.4
146	9.1	7.6	8.5	6.6	4.9	8.6	9.9	11.8	11.5	11.3
147	9.2	10.7	10.0	7.2	9.8	8.6	10.0	11.2	9.8	10.5
148	11.5	9.2	8.6	7.1	9.6	8.0	10.2	9.4	11.5	12.8
149	9.5	10.7	9.5	6.6	7.4	8.2	9.6	11.0	11.7	12.4
150	7.7	6.7	8.4	8.2	5.3	9.2	10.2	12.4	11.8	11.4
151	10.8	9.8	8.7	6.9	6.8	7.8	10.6	11.3	13.1	11.8
152	11.0	10.4	7.5	5.7	8.0	9.2	11.2	9.8	11.6	12.1
153	11.8	8.8	8.4	5.0	6.6	7.0	11.7	11.4	11.7	11.5
154	11.2	9.7	10.7	6.1	6.4	10.3	9.3	11.5	11.3	12.3
155	9.1	9.9	8.3	7.4	7.4	7.6	8.8	11.2	14.2	11.4
156	9.7	10.6	9.8	7.5	7.3	9.1	10.5	11.6	12.3	12.3
157	12.3	11.0	9.3	6.4	7.8	8.9	8.7	12.2	12.6	11.5
158	10.3	12.6	9.3	7.7	7.2	8.8	10.4	14.5	12.1	11.3
159	10.4	10.8	7.1	7.7	7.7	8.0	11.0	13.4	9.7	12.6
160	13.0	12.0	8.7	7.6	7.9	10.1	11.3	11.8	14.0	13.7
161	11.2	10.8	10.4	8.3	6.6	8.8	10.7	12.2	12.8	13.0
162	13.1	12.5	10.4	8.9	7.1	7.6	13.0	12.2	12.9	15.5
163	12.3	12.4	10.9	9.5	8.7	9.9	11.5	13.7	14.0	12.9
164	12.8	13.1	9.7	7.5	5.9	9.9	12.8	12.3	12.9	12.2
165	14.7	13.2	11.4	7.4	6.9	6.1	13.8	13.3	14.1	13.4

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VTLED44-4A-50K.IES

CANDELA TABULATION - (Cont.)

166	13.8	13.1	12.8	7.9	6.1	8.7	12.8	15.6	12.2	14.1
167	11.3	13.2	11.3	8.0	7.8	8.1	11.7	13.8	14.4	14.3
168	14.1	11.3	10.9	7.6	5.8	7.7	13.4	14.4	11.6	14.2
169	11.6	14.0	10.6	7.5	6.9	11.1	13.6	14.0	13.2	12.9
170	12.2	12.6	11.7	9.5	9.0	9.8	12.2	12.9	14.6	13.8
171	14.4	12.2	10.6	9.6	9.6	11.4	12.7	13.0	15.5	14.6
172	13.4	13.8	12.7	10.0	7.1	10.9	12.1	15.1	12.6	12.8
173	14.6	14.1	11.0	10.6	7.5	9.1	9.8	13.2	13.0	15.0
174	11.3	13.3	10.3	9.5	7.6	11.2	12.4	13.1	14.0	14.9
175	13.0	12.0	11.2	10.4	7.4	9.7	14.0	13.4	13.8	13.3
176	12.2	13.7	11.0	9.9	8.7	10.3	12.8	14.0	13.3	14.6
177	12.9	12.3	13.4	9.0	9.5	9.8	10.6	13.1	16.2	14.8
178	11.5	10.9	12.2	8.5	8.8	10.7	12.9	13.7	15.1	14.7
179	14.8	13.1	12.3	10.4	8.7	10.8	11.2	15.9	14.3	14.7
180	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1

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	1930.5	1930.5	1930.5	1930.5	1930.5	1930.5	1930.5
1	1924.9	1939.8	1941.9	1931.6	1921.3	1919.1	1916.0
2	1919.9	1940.0	1940.8	1938.1	1926.2	1923.5	1919.7
3	1916.0	1932.4	1940.5	1941.9	1934.9	1927.6	1917.9
4	1906.5	1928.0	1937.0	1946.5	1937.7	1928.2	1916.0
5	1896.4	1917.4	1928.5	1944.5	1937.3	1926.7	1911.6
6	1889.5	1908.1	1920.9	1941.2	1933.0	1924.0	1907.9
7	1884.3	1902.1	1912.7	1934.9	1931.5	1917.1	1909.0
8	1875.3	1891.5	1906.5	1925.9	1928.1	1915.9	1901.3
9	1866.6	1885.5	1898.6	1914.6	1917.9	1904.2	1894.3
10	1863.2	1876.5	1891.0	1900.1	1903.7	1897.2	1884.0
11	1857.3	1869.3	1880.1	1891.2	1891.2	1888.9	1877.1
12	1851.5	1860.9	1868.5	1873.2	1878.3	1874.1	1865.8
13	1848.3	1854.1	1859.1	1862.4	1863.0	1861.5	1854.0
14	1839.8	1846.2	1844.6	1848.2	1843.2	1845.4	1844.1
15	1830.2	1841.2	1833.1	1833.2	1827.0	1830.1	1829.9
16	1818.7	1831.3	1818.6	1816.8	1810.6	1812.6	1814.1
17	1804.2	1816.9	1807.4	1800.5	1793.8	1796.6	1801.5
18	1787.1	1803.3	1794.3	1783.9	1773.9	1780.7	1785.1
19	1771.6	1785.6	1779.3	1771.1	1757.3	1759.4	1770.9
20	1754.9	1766.3	1764.9	1755.3	1744.7	1748.3	1753.3
21	1738.2	1745.6	1752.5	1744.3	1728.5	1729.9	1739.5
22	1721.8	1729.0	1733.0	1728.3	1712.7	1712.1	1720.0
23	1700.7	1708.4	1713.2	1710.0	1695.4	1694.6	1702.3
24	1680.9	1688.5	1691.4	1691.3	1678.0	1675.2	1684.2
25	1661.2	1668.7	1673.1	1673.9	1660.0	1655.1	1664.2
26	1641.5	1650.5	1652.7	1654.1	1643.2	1635.9	1644.1
27	1620.3	1633.5	1634.8	1634.9	1626.3	1616.1	1622.8
28	1600.8	1612.8	1616.2	1614.7	1605.7	1596.3	1602.2
29	1580.0	1595.1	1595.6	1592.7	1584.1	1574.2	1580.2
30	1562.9	1573.8	1577.9	1573.5	1563.0	1553.2	1556.3
31	1544.1	1558.2	1557.6	1552.2	1539.8	1532.2	1531.7
32	1524.4	1540.0	1537.4	1530.7	1516.6	1510.4	1512.3
33	1505.9	1519.0	1517.6	1511.3	1492.4	1484.4	1486.2
34	1484.4	1500.3	1496.8	1487.5	1468.7	1461.2	1464.1
35	1456.9	1479.0	1476.9	1465.5	1445.5	1435.4	1439.9
36	1434.8	1455.8	1455.4	1444.3	1421.3	1406.8	1416.2

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CANDELA TABULATION - (Cont.)

37	1411.3	1433.5	1432.8	1421.7	1396.3	1385.2	1389.1
38	1384.7	1409.2	1410.7	1401.7	1374.4	1359.1	1364.7
39	1359.5	1385.1	1388.5	1378.8	1348.0	1333.9	1338.6
40	1329.4	1356.1	1365.2	1357.3	1321.1	1305.2	1309.7
41	1302.5	1333.7	1341.4	1332.7	1299.6	1278.5	1282.8
42	1275.4	1306.8	1317.2	1308.0	1274.4	1252.4	1254.2
43	1250.3	1282.1	1293.1	1280.7	1247.5	1226.1	1227.1
44	1222.8	1257.0	1268.0	1256.1	1225.2	1200.3	1199.2
45	1200.7	1232.4	1243.8	1229.5	1198.7	1171.2	1170.5
46	1175.0	1209.6	1220.8	1207.5	1172.5	1143.3	1142.7
47	1150.0	1183.7	1197.4	1180.9	1145.2	1117.1	1114.7
48	1122.6	1161.2	1171.9	1156.7	1117.6	1086.7	1086.1
49	1101.3	1137.3	1151.9	1130.6	1087.5	1059.5	1055.3
50	1075.4	1116.0	1126.6	1104.5	1060.3	1029.5	1027.2
51	1048.4	1092.2	1100.2	1081.1	1030.5	999.8	998.3
52	1022.1	1067.5	1081.3	1057.5	1004.0	968.8	964.6
53	996.3	1043.0	1057.2	1030.6	974.9	937.5	939.9
54	968.9	1016.6	1030.3	1007.1	949.7	908.1	908.8
55	940.5	990.9	1005.8	982.1	922.2	877.4	877.4
56	913.8	967.9	981.2	957.5	895.9	847.5	846.0
57	886.2	942.5	958.0	933.7	872.2	818.8	814.7
58	859.1	915.4	932.1	907.0	845.6	790.3	785.1
59	833.8	891.2	908.3	882.8	819.2	761.9	752.6
60	806.4	867.1	883.6	859.6	794.2	733.9	724.8
61	780.0	842.1	861.3	834.8	768.5	706.6	696.9
62	753.2	815.8	836.8	810.7	742.3	677.9	664.7
63	727.4	790.7	811.2	788.2	716.2	648.5	634.1
64	702.0	764.5	787.1	761.7	691.1	618.4	603.3
65	675.4	740.5	762.6	736.2	664.0	590.8	574.6
66	649.2	716.8	739.7	711.7	639.8	562.8	543.9
67	623.3	692.5	715.3	686.8	612.6	536.4	517.0
68	596.1	667.9	690.8	662.9	588.3	508.1	487.7
69	572.9	642.5	665.8	641.0	564.2	484.0	459.2
70	547.9	622.2	645.8	616.6	539.8	456.4	431.0
71	524.5	598.0	623.6	594.4	517.4	431.8	404.3
72	503.0	575.3	599.3	573.5	495.0	406.0	378.6
73	479.1	553.5	578.5	549.3	471.1	381.6	352.1
74	456.0	531.3	557.9	528.4	448.6	358.9	325.0
75	433.9	509.7	535.7	507.2	427.7	334.3	299.7
76	412.0	488.5	513.1	487.7	407.1	310.9	269.9
77	390.0	470.0	491.3	464.6	385.1	289.2	245.4
78	370.6	446.1	470.9	445.2	363.6	264.7	222.4
79	349.1	425.2	449.8	423.8	342.8	241.9	199.1
80	327.0	406.1	431.2	403.8	323.0	223.0	171.7
81	309.9	386.9	411.3	383.1	303.4	202.2	150.0
82	288.5	366.1	392.1	363.5	284.0	183.2	127.7
83	270.9	347.9	371.4	345.0	264.7	165.7	108.0
84	253.3	328.9	354.1	326.8	247.0	147.0	88.4
85	231.4	308.9	334.6	309.2	229.5	128.9	73.4
86	216.3	292.8	318.0	293.3	213.3	114.4	56.3
87	203.7	277.6	300.1	274.1	198.5	100.7	44.9
88	189.5	260.6	286.8	261.0	186.6	90.7	35.7
89	178.1	245.6	272.5	245.6	173.4	79.6	26.9
90	167.2	235.1	256.0	233.6	161.5	71.7	19.2
91	156.5	221.8	245.0	220.8	153.4	67.2	19.4
92	147.8	208.9	233.8	211.1	144.9	63.0	19.1

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CANDELA TABULATION - (Cont.)

93	140.6	200.8	223.4	200.7	135.6	55.7	20.0
94	133.5	191.3	212.6	190.6	129.6	50.6	16.1
95	124.4	187.0	205.1	184.7	121.0	47.3	17.2
96	118.0	176.9	195.3	174.8	116.0	45.2	16.0
97	111.8	169.1	186.9	166.8	108.8	40.6	16.9
98	106.6	161.5	179.0	159.4	102.9	37.1	14.7
99	99.7	152.6	171.8	153.4	99.4	34.4	16.4
100	93.2	145.6	162.4	143.8	91.4	31.9	14.8
101	89.4	139.0	155.6	137.7	86.9	31.5	14.6
102	82.0	130.5	146.9	130.1	82.2	24.9	12.1
103	78.6	122.9	139.1	122.8	73.2	20.8	14.3
104	73.9	116.5	132.2	115.7	69.7	19.9	13.3
105	70.2	110.6	127.5	109.0	66.2	16.5	13.3
106	64.4	105.2	121.0	105.3	62.6	17.2	14.4
107	60.0	99.7	112.3	99.8	58.3	15.9	12.3
108	57.2	92.8	107.2	91.6	53.3	14.2	12.2
109	52.0	88.8	102.4	88.4	52.0	12.9	11.2
110	47.8	82.8	95.7	81.5	46.3	12.5	11.8
111	44.4	77.9	91.0	76.8	40.1	12.8	11.9
112	35.3	74.2	84.2	71.4	36.2	11.8	10.7
113	29.5	67.8	80.7	67.3	30.2	10.2	10.7
114	25.7	64.9	75.9	64.8	26.7	10.4	8.6
115	22.6	61.1	72.4	58.3	24.5	9.9	9.7
116	21.1	55.5	67.5	51.4	23.5	12.2	7.9
117	20.0	50.7	61.8	48.0	21.3	10.9	8.9
118	18.5	40.9	56.6	40.9	19.5	8.3	9.6
119	17.2	35.3	50.8	34.8	16.6	9.0	10.1
120	15.5	32.7	42.9	32.4	16.1	8.7	7.7
121	13.2	31.1	36.6	30.1	14.7	10.9	8.8
122	12.8	26.7	34.5	27.0	12.3	10.3	9.5
123	11.5	25.9	31.6	25.5	13.1	7.7	8.1
124	11.7	22.2	28.9	23.2	11.9	7.0	9.2
125	11.9	19.0	27.6	21.6	10.2	6.5	7.5
126	10.6	18.7	23.6	17.7	10.3	8.3	7.9
127	8.8	17.6	19.4	18.9	8.4	8.7	8.2
128	9.2	13.7	18.9	15.9	9.0	6.9	9.1
129	9.0	13.2	18.1	13.6	9.3	8.0	8.0
130	8.0	10.6	16.0	13.5	8.0	8.8	8.1
131	9.2	11.0	15.0	13.0	9.5	8.7	7.9
132	10.1	10.3	11.9	11.2	10.2	6.0	7.1
133	9.1	10.2	12.8	10.6	8.3	10.3	10.2
134	8.6	6.1	9.8	9.1	8.7	7.4	8.7
135	9.6	6.2	10.0	9.4	6.7	9.2	6.2
136	6.7	7.1	8.7	9.5	9.1	6.6	6.6
137	8.1	6.8	8.1	8.0	9.2	7.5	5.2
138	7.4	6.9	6.4	8.6	8.9	7.2	8.8
139	7.0	5.6	7.2	8.3	6.9	9.4	8.6
140	10.1	7.6	7.2	8.1	9.2	8.7	8.6
141	10.2	8.1	4.5	7.0	8.5	9.2	10.3
142	10.7	7.1	6.1	6.5	8.9	9.4	7.8
143	9.8	6.3	7.0	5.8	9.0	11.0	9.9
144	10.1	7.3	7.6	5.2	7.9	7.0	11.0
145	8.9	6.4	4.6	9.7	7.7	10.8	8.7
146	10.0	6.6	5.5	7.8	7.9	7.7	7.9
147	8.9	6.6	6.9	7.7	10.5	10.0	10.3
148	8.8	5.8	7.1	8.8	9.5	8.2	8.7

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CANDELA TABULATION - (Cont.)

149	10.7	6.6	7.1	7.5	8.7	9.2	10.0
150	9.3	7.2	5.5	9.6	8.2	10.5	11.0
151	10.0	7.3	5.2	6.3	9.1	8.2	11.0
152	9.1	8.5	5.8	8.1	8.6	10.9	9.7
153	9.7	8.2	6.5	8.6	8.7	10.4	10.3
154	10.4	7.3	5.5	6.6	9.3	11.1	8.9
155	10.6	7.6	7.7	7.8	7.8	10.0	11.5
156	10.7	5.4	7.4	7.2	11.0	11.5	11.9
157	8.7	8.6	7.0	7.8	7.4	10.6	12.7
158	10.8	8.6	8.3	6.9	11.0	12.4	12.5
159	10.8	8.8	5.7	7.6	8.4	11.0	10.5
160	12.0	7.2	7.2	6.6	9.2	11.7	11.2
161	10.0	9.8	5.9	8.1	10.2	12.8	13.0
162	12.8	6.7	6.3	9.5	9.7	9.9	10.9
163	11.6	10.7	8.1	9.3	11.8	10.5	12.3
164	9.7	7.9	7.9	7.5	11.1	11.6	12.8
165	12.3	9.4	8.5	8.9	10.0	12.9	11.7
166	13.4	11.4	8.2	7.8	11.6	12.1	11.6
167	12.7	10.5	8.7	9.4	9.3	13.1	13.9
168	13.8	10.4	7.1	9.6	11.3	14.1	11.3
169	15.4	9.7	7.2	9.5	10.6	14.5	13.9
170	13.1	9.9	8.2	8.3	11.3	15.9	13.4
171	12.2	10.4	8.4	8.9	12.3	13.8	13.6
172	13.1	9.0	8.1	10.8	11.4	15.3	12.7
173	13.2	11.1	8.2	8.5	11.4	13.7	14.0
174	12.1	10.9	9.8	10.3	12.8	13.3	12.9
175	12.8	10.8	6.9	10.2	11.5	12.9	13.4
176	11.8	11.1	10.4	8.2	12.5	13.5	14.6
177	12.0	11.0	9.5	9.8	11.8	13.6	15.9
178	12.5	12.8	9.5	11.1	10.7	11.1	14.4
179	13.0	10.6	9.2	12.4	12.6	13.3	14.1
180	12.1	12.1	12.1	12.1	12.1	12.1	12.1

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	701.02	N.A.	11.80
0-30	1473.57	N.A.	24.90
0-40	2393.07	N.A.	40.40
0-60	4197.67	N.A.	70.80
0-80	5363.44	N.A.	90.50
0-90	5633.94	N.A.	95.00
10-90	5451.27	N.A.	92.00
20-40	1692.05	N.A.	28.50
20-50	2636.55	N.A.	44.50
40-70	2493.78	N.A.	42.10
60-80	1165.77	N.A.	19.70
70-80	476.59	N.A.	8.00
80-90	270.50	N.A.	4.60
90-110	222.52	N.A.	3.80
90-120	258.71	N.A.	4.40
90-130	272.62	N.A.	4.60
90-150	285.23	N.A.	4.80
90-180	293.74	N.A.	5.00
110-180	71.22	N.A.	1.20
0-180	5927.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.66
10-20	518.36
20-30	772.55
30-40	919.50
40-50	944.50
50-60	860.10
60-70	689.18
70-80	476.59
80-90	270.50
90-100	144.39
100-110	78.13
110-120	36.19
120-130	13.91
130-140	7.10
140-150	5.50
150-160	4.34
160-170	3.06
170-180	1.12

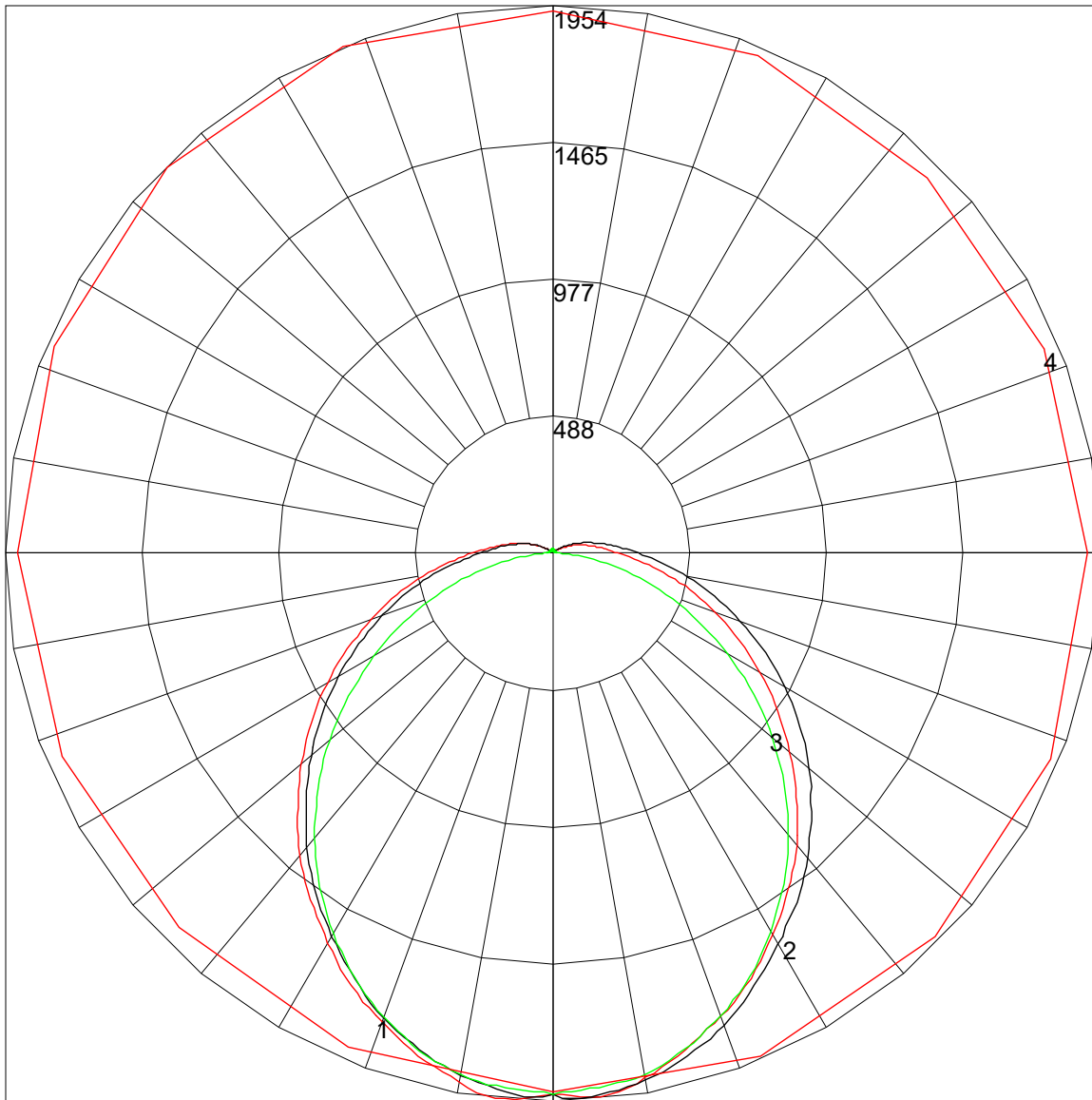
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	106	101	96	92	103	98	94	90	93	89	86	88	85	83	84	82	79	77
2	96	88	80	74	93	85	79	73	81	75	70	77	72	68	73	69	66	63
3	88	77	68	61	85	75	67	60	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	39	66	53	45	38	51	43	38	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1953.5 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.)