



IES INDOOR REPORT
PHOTOMETRIC FILENAME : WEL48A-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] RKS210907003-10
[ISSUE DATE] 2021/9/13 11:30
[MANUFAC] LAMAR LED
[LUMCAT] WEL48A-35
[LUMINAIRE] Direct Linear Ambient Luminaires
[LAMP CAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 0.369 A
[_POWERFACTOR] 0.999
[TESTLAB] Bay Area Compliance Laboratories Corp. (Kunshan).
[_TESTINST] GPM-1900
[_TESTDIST] 14.073 m
[_TESTTEMPERATURE] 24.6 °C
[_TESTHUMIDITY] 49
[_TESTOPERATOR] George
[BALLAST]
[BALLASTCAT]

CHARACTERISTICS

Lumens Per Lamp	6081.1 (1 lamp)
Total Lamp Lumens	6081.1
Luminaire Lumens	6081
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	44.27
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.21 m
Luminous Width (90-270)	0.17 m
Luminous Height	0.04 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8252	7322	7139
55	7393	6348	6266
65	6411	5347	5418
75	5241	4241	4583
85	3094	2865	3547

IES INDOOR REPORT
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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	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8
1	2154.0	2153.8	2154.2	2155.4	2154.9	2155.4	2154.4	2153.8	2153.3	2152.9
2	2152.3	2153.2	2153.6	2154.5	2154.5	2155.8	2153.7	2152.7	2151.0	2150.1
3	2150.2	2151.3	2152.0	2153.8	2153.5	2154.5	2152.4	2151.0	2147.7	2148.0
4	2147.0	2148.2	2149.3	2151.2	2151.6	2151.8	2149.7	2147.6	2143.9	2143.2
5	2141.7	2144.3	2145.5	2147.8	2148.3	2148.3	2146.0	2143.3	2138.0	2139.0
6	2136.6	2138.8	2141.1	2143.0	2143.3	2143.9	2140.7	2138.2	2131.9	2133.1
7	2130.1	2132.6	2134.3	2137.3	2137.9	2137.5	2134.7	2132.0	2124.3	2125.1
8	2122.8	2125.9	2128.4	2129.5	2130.6	2130.5	2126.8	2124.6	2115.3	2117.3
9	2113.4	2117.3	2119.7	2121.3	2123.2	2122.7	2118.5	2116.1	2105.9	2107.4
10	2103.7	2108.0	2110.5	2112.7	2113.9	2113.4	2109.1	2106.6	2094.9	2097.7
11	2092.7	2097.8	2100.5	2102.6	2103.3	2103.1	2098.7	2095.5	2083.2	2087.2
12	2080.6	2085.8	2090.0	2091.9	2092.2	2092.7	2086.8	2083.2	2071.1	2074.1
13	2067.1	2073.4	2077.3	2078.2	2080.4	2080.8	2075.0	2071.3	2057.6	2060.9
14	2054.0	2061.1	2063.6	2066.2	2066.1	2066.2	2060.6	2057.9	2042.3	2046.7
15	2039.1	2046.0	2049.7	2051.7	2051.4	2053.1	2046.9	2042.3	2026.7	2032.6
16	2023.6	2030.5	2033.2	2035.6	2035.9	2036.9	2031.4	2028.2	2009.9	2014.5
17	2005.7	2014.1	2017.3	2020.8	2020.9	2020.7	2014.1	2012.1	1992.4	1998.2
18	1988.4	1997.3	1999.9	2002.3	2002.6	2004.2	1997.7	1993.0	1973.1	1980.4
19	1968.2	1977.1	1981.6	1984.9	1985.5	1985.2	1978.1	1973.9	1953.5	1962.3
20	1949.8	1956.0	1963.4	1964.4	1965.5	1965.7	1959.5	1953.8	1933.8	1942.5
21	1926.7	1936.0	1941.6	1943.3	1943.5	1946.8	1937.9	1934.4	1913.2	1920.3
22	1905.9	1915.0	1921.9	1922.0	1922.6	1924.8	1917.7	1911.9	1891.6	1899.2
23	1883.1	1893.7	1899.2	1901.0	1902.3	1904.4	1895.6	1891.4	1867.2	1877.2
24	1859.7	1872.1	1875.2	1880.0	1879.3	1883.0	1873.1	1868.9	1843.9	1854.6
25	1836.4	1849.3	1851.9	1854.8	1854.9	1857.2	1850.4	1842.7	1820.1	1829.1
26	1811.4	1822.2	1828.0	1831.0	1831.0	1833.9	1825.8	1818.6	1795.4	1804.5
27	1785.8	1797.2	1804.5	1807.6	1806.3	1808.9	1800.9	1793.2	1767.9	1779.8
28	1760.2	1771.9	1778.3	1781.1	1782.7	1785.4	1775.6	1768.9	1741.7	1754.0
29	1734.9	1746.8	1751.3	1756.1	1754.8	1758.8	1748.8	1741.2	1715.2	1727.8
30	1706.7	1718.6	1725.2	1731.4	1730.5	1732.6	1722.1	1715.3	1688.2	1700.6
31	1677.6	1690.4	1698.4	1702.5	1703.6	1705.8	1695.0	1685.1	1657.9	1670.8
32	1648.6	1664.5	1671.8	1675.3	1674.2	1678.8	1667.8	1658.2	1630.1	1643.4
33	1620.0	1634.1	1643.9	1648.3	1647.4	1649.5	1640.8	1629.5	1601.1	1615.5
34	1591.4	1605.5	1612.6	1620.9	1619.7	1621.3	1612.4	1601.0	1572.3	1583.7
35	1560.7	1575.0	1583.0	1592.1	1590.9	1593.3	1583.5	1571.3	1539.7	1554.3
36	1529.0	1546.8	1554.1	1561.2	1563.6	1565.4	1551.9	1541.6	1509.4	1525.0
37	1499.2	1515.0	1522.9	1533.1	1533.0	1534.8	1524.0	1510.0	1479.5	1495.2
38	1468.6	1485.1	1493.2	1504.3	1504.3	1505.8	1491.4	1479.8	1448.3	1461.6
39	1435.4	1455.3	1463.6	1473.6	1476.3	1477.1	1462.5	1447.2	1418.0	1432.1
40	1403.8	1424.7	1433.6	1443.5	1444.2	1448.2	1432.2	1416.1	1383.1	1401.6
41	1372.3	1393.5	1402.8	1412.5	1414.6	1418.1	1401.6	1384.6	1351.2	1371.1
42	1340.8	1359.7	1372.6	1384.1	1385.4	1385.9	1371.8	1354.1	1320.0	1340.4
43	1309.0	1329.0	1339.1	1355.0	1356.7	1356.5	1338.9	1323.4	1288.4	1306.6
44	1274.3	1297.7	1308.6	1322.2	1324.2	1326.9	1308.3	1288.9	1253.0	1275.6
45	1242.4	1263.3	1277.8	1292.7	1295.4	1295.0	1278.3	1258.3	1221.2	1244.8
46	1210.5	1232.7	1244.0	1263.6	1266.3	1265.1	1244.7	1227.5	1189.4	1213.5
47	1178.4	1200.4	1213.0	1232.6	1236.7	1235.0	1214.2	1195.5	1156.9	1182.7
48	1142.6	1169.3	1182.1	1200.9	1204.6	1205.1	1183.4	1160.6	1124.3	1148.3
49	1111.2	1135.4	1152.1	1172.1	1175.9	1173.1	1153.4	1130.1	1089.0	1117.1
50	1078.9	1103.6	1117.7	1139.1	1146.9	1144.3	1120.2	1098.5	1057.4	1086.1
51	1044.0	1072.7	1086.9	1109.6	1115.3	1115.0	1089.9	1064.0	1025.5	1051.7
52	1012.0	1041.1	1056.2	1080.5	1085.8	1085.7	1059.6	1032.4	990.8	1020.6
53	979.5	1009.2	1025.4	1050.9	1057.0	1056.5	1029.2	1000.4	958.2	989.5

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CANDELA TABULATION - (Cont.)

54	947.0	974.4	994.8	1021.6	1028.4	1024.0	998.9	968.7	926.3	958.0
55	915.9	943.8	962.5	990.7	1000.6	995.9	966.8	938.2	894.2	923.5
56	881.2	913.1	931.9	961.6	969.4	967.4	936.5	904.0	862.2	891.9
57	849.5	878.7	899.2	933.1	941.8	936.3	907.4	873.0	826.6	861.6
58	817.0	847.0	869.0	904.6	914.0	908.2	877.4	842.0	797.8	829.7
59	787.1	818.4	838.3	875.7	885.8	879.5	844.4	813.8	766.3	801.1
60	752.6	785.8	810.4	843.9	858.4	851.0	816.9	777.9	732.4	767.6
61	722.1	752.3	781.1	818.3	831.6	825.9	787.8	747.9	702.1	737.3
62	691.6	721.9	748.9	789.9	802.6	794.0	755.8	717.7	672.0	707.7
63	658.8	692.3	720.4	760.0	773.6	766.3	727.8	685.4	642.0	675.2
64	629.1	662.1	692.0	732.9	747.3	738.8	699.4	656.1	612.7	645.8
65	599.1	632.3	663.7	705.9	720.8	712.0	671.3	626.4	583.4	616.9
66	569.7	599.8	635.3	678.7	694.6	682.3	643.3	597.4	551.8	588.0
67	541.3	571.2	605.6	650.7	669.5	656.3	613.7	569.6	523.3	556.8
68	509.6	542.6	579.0	624.6	641.5	630.2	586.4	538.4	492.7	528.7
69	481.4	511.8	549.3	599.1	616.4	602.0	559.3	510.9	465.1	500.8
70	453.2	483.6	522.7	573.4	591.4	576.3	530.2	483.2	437.7	473.4
71	424.8	455.6	496.5	548.1	566.6	550.8	503.5	455.9	410.2	446.2
72	396.7	428.2	470.0	523.1	542.0	525.7	476.9	428.2	383.5	416.6
73	367.9	399.4	445.3	496.6	516.2	501.9	452.3	400.2	353.6	390.0
74	341.4	373.4	418.2	472.5	492.8	475.5	427.5	374.2	327.4	364.5
75	315.3	347.7	393.8	446.2	469.2	451.5	400.3	346.2	301.6	339.0
76	286.8	322.7	369.6	422.8	444.2	428.0	376.1	321.4	276.7	311.8
77	261.7	297.5	345.7	399.5	421.0	404.6	352.0	296.8	249.6	288.0
78	236.5	272.6	321.7	376.0	397.9	381.3	328.0	272.1	225.3	264.7
79	213.1	246.7	297.2	354.2	375.9	356.7	303.2	249.1	201.9	241.4
80	189.7	223.6	274.8	330.5	354.3	335.1	280.8	224.5	179.7	216.9
81	164.7	200.7	253.0	308.3	330.1	313.1	258.7	201.8	154.8	194.9
82	143.3	176.5	229.2	287.3	309.4	290.2	235.4	180.4	133.3	173.4
83	120.9	154.2	208.4	265.9	287.7	268.9	216.0	159.0	112.2	152.1
84	99.2	133.5	187.9	245.0	266.4	247.6	193.3	138.0	91.7	131.9
85	77.5	113.5	168.4	223.1	243.3	227.2	174.0	116.2	72.0	110.8
86	57.5	93.3	150.4	203.0	223.2	205.3	155.7	97.8	50.6	93.3
87	38.6	75.9	130.6	183.6	202.5	185.5	135.8	80.7	32.1	76.5
88	20.5	60.4	114.0	162.2	182.4	165.8	118.9	63.6	14.5	61.3
89	2.9	46.5	97.3	143.2	160.2	146.1	101.8	49.0	0.0	46.1
90	0.0	34.0	81.7	126.3	144.9	128.6	85.8	35.8	0.0	40.3
91	0.0	33.4	80.7	124.3	141.9	125.7	83.6	35.1	0.0	38.9
92	0.0	32.6	79.9	123.1	140.4	124.4	83.1	34.0	0.0	38.3
93	0.0	32.2	79.5	122.0	138.7	122.9	82.0	33.9	0.0	38.1
94	0.0	32.0	78.9	121.0	137.2	121.8	81.7	33.6	0.0	38.3
95	0.0	32.1	78.6	119.8	135.7	120.8	81.1	33.6	0.0	37.9
96	0.0	32.1	78.2	119.0	134.4	119.6	80.5	33.2	0.0	37.7
97	0.0	31.8	77.7	118.0	133.0	118.3	79.7	33.0	0.0	38.2
98	0.0	31.8	77.4	116.4	131.4	118.0	79.2	33.4	0.0	37.9
99	0.0	32.0	77.1	116.0	130.0	116.5	78.4	33.3	0.0	37.5
100	0.0	32.0	76.6	114.8	128.3	115.3	78.1	33.0	0.0	38.0
101	0.0	31.6	75.9	113.3	127.2	114.0	77.6	33.0	0.0	37.7
102	0.0	31.5	75.4	112.2	125.7	112.4	77.0	32.7	0.0	37.9
103	0.0	31.3	74.9	111.1	124.6	111.7	76.4	32.6	1.0	37.3
104	1.0	30.7	74.3	109.8	123.1	110.2	76.2	32.6	1.2	37.1
105	1.0	31.1	73.7	109.0	121.5	109.2	74.8	32.4	1.2	36.9
106	1.9	31.1	73.0	108.1	119.9	108.0	74.4	32.0	1.6	36.1
107	2.0	30.1	72.5	106.8	118.3	107.1	74.1	31.1	2.1	35.3
108	1.9	29.8	71.8	105.6	117.5	105.9	73.3	30.6	2.3	34.9
109	2.1	29.1	71.1	104.8	115.8	104.4	72.9	30.2	2.2	33.7

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110	2.2	28.2	70.8	103.2	114.2	102.9	71.9	29.8	2.1	33.5
111	2.8	28.0	70.0	102.2	112.8	101.8	70.9	29.4	2.8	33.2
112	2.3	28.0	68.5	101.0	111.4	100.4	69.6	29.6	2.8	33.1
113	3.3	28.5	66.5	99.8	109.9	99.4	67.8	29.2	3.0	33.2
114	3.1	28.2	64.6	98.6	108.2	97.9	65.6	29.3	3.6	33.1
115	3.8	28.6	62.7	97.3	107.2	97.0	64.1	29.8	3.6	33.1
116	4.2	28.5	61.5	95.8	105.4	95.7	63.3	29.6	4.0	33.0
117	4.0	28.8	60.4	94.1	104.3	94.0	61.4	29.3	3.9	33.2
118	4.5	28.6	59.5	92.5	102.7	92.2	60.8	29.6	4.4	33.2
119	5.3	28.7	59.4	89.8	101.3	89.8	60.2	29.4	5.1	32.9
120	5.0	28.9	58.8	87.3	98.5	87.0	59.7	29.2	4.9	32.7
121	5.9	28.7	58.1	85.7	96.1	85.6	59.0	29.2	5.4	32.0
122	6.3	28.4	57.4	84.4	93.5	83.9	58.6	29.1	5.7	31.2
123	6.5	27.3	57.2	82.6	91.9	82.3	57.6	27.4	6.1	30.9
124	7.2	26.4	56.9	80.6	90.2	81.1	57.6	27.3	6.5	30.8
125	7.4	26.3	57.0	79.7	88.6	79.7	57.7	26.9	7.2	30.5
126	8.5	26.1	56.9	78.7	87.7	78.7	57.5	26.1	7.7	30.8
127	8.3	26.2	56.7	77.7	86.0	77.1	57.5	26.4	7.7	30.1
128	8.7	26.1	56.3	76.4	84.7	76.1	57.1	26.0	8.2	30.1
129	8.9	25.5	56.1	75.2	83.2	74.9	56.9	26.0	8.6	29.9
130	9.6	25.3	55.7	74.1	81.9	73.1	56.0	25.7	8.8	29.6
131	9.9	25.2	55.0	72.8	80.7	72.5	55.5	25.7	9.3	29.0
132	10.2	25.0	54.7	72.4	78.9	72.0	54.5	24.9	9.6	29.0
133	11.0	24.8	53.8	72.2	78.2	71.9	54.0	24.7	9.9	29.2
134	10.8	24.2	53.8	71.4	77.4	71.2	53.6	24.1	10.2	28.6
135	11.3	24.5	52.7	70.6	76.8	70.8	52.7	24.7	10.6	28.5
136	11.5	24.2	52.2	70.2	76.3	69.8	51.7	24.0	10.7	28.2
137	11.9	24.3	51.3	69.0	75.2	69.0	51.4	23.8	10.9	28.0
138	11.5	23.9	50.7	67.9	74.9	67.9	50.6	23.6	11.7	27.8
139	12.4	23.7	49.8	66.9	73.5	66.2	48.1	23.5	12.0	29.0
140	12.2	23.9	46.3	65.5	72.4	65.6	44.9	22.9	12.1	29.4
141	12.8	23.4	44.3	64.8	70.9	64.0	43.1	23.4	12.2	29.5
142	13.3	24.2	43.5	63.8	69.7	63.2	42.1	24.6	12.4	29.0
143	13.4	25.5	42.8	62.9	68.6	61.5	40.7	24.9	13.0	29.0
144	13.9	26.5	41.4	61.4	67.1	60.9	39.7	24.9	13.2	28.5
145	14.0	27.6	40.9	60.0	65.8	59.6	39.0	25.2	13.6	27.6
146	14.5	28.2	40.1	59.2	64.3	56.0	37.8	24.5	13.5	26.8
147	15.0	28.4	39.5	55.8	62.5	51.5	37.2	24.1	13.5	26.5
148	14.9	28.7	39.2	52.1	60.9	49.1	36.0	23.6	14.1	26.0
149	14.9	28.8	38.8	49.7	56.2	47.3	34.8	23.0	14.0	25.8
150	15.1	28.8	37.5	48.6	52.4	46.0	33.3	22.8	14.5	25.5
151	15.5	28.8	37.3	47.1	50.1	44.5	31.6	22.5	14.5	25.5
152	15.6	29.0	36.2	46.1	48.9	43.0	30.5	22.6	15.1	25.0
153	16.0	28.9	35.6	44.3	46.8	41.6	28.9	22.9	15.6	25.3
154	16.6	29.0	34.9	43.4	45.1	40.4	28.0	23.1	15.6	25.1
155	16.8	28.8	34.4	41.9	43.8	38.6	29.0	23.0	16.1	25.2
156	17.2	28.8	33.4	40.7	42.0	37.5	29.4	22.3	16.9	25.1
157	17.7	29.0	32.8	39.3	41.3	36.0	28.8	22.7	16.7	25.0
158	17.6	28.9	32.0	38.4	39.6	34.2	28.4	21.9	17.0	25.0
159	18.4	29.0	32.7	37.1	37.9	32.7	27.2	22.2	17.4	24.1
160	18.5	29.0	34.5	35.8	36.5	32.3	26.2	21.4	17.8	23.6
161	18.7	28.3	35.8	34.6	35.2	32.3	25.3	21.4	17.3	23.4
162	18.7	28.5	35.2	33.4	33.6	31.6	24.7	20.8	17.7	22.6
163	18.7	28.0	34.9	34.5	34.5	30.1	24.4	21.1	17.7	22.5
164	19.3	27.8	34.0	35.7	35.1	28.7	24.1	20.6	18.1	22.1
165	19.2	26.9	33.1	35.8	33.7	27.7	23.5	20.6	18.0	22.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WEL48A-35.IES

CANDELA TABULATION - (Cont.)

166	20.1	26.6	32.5	34.8	31.8	26.7	23.3	20.5	18.8	22.0
167	20.4	26.0	31.6	33.8	29.9	25.6	22.3	20.7	19.0	22.1
168	20.5	25.2	30.8	32.7	29.0	24.7	22.3	21.1	19.4	22.1
169	21.0	24.6	29.3	31.5	28.1	24.2	22.2	21.0	19.7	22.1
170	21.0	24.0	28.3	30.0	26.4	24.3	22.1	20.9	19.9	22.4
171	21.4	23.8	26.7	28.9	25.1	23.7	22.1	20.8	20.4	22.5
172	21.4	23.5	25.4	27.2	25.1	23.7	21.8	21.5	20.2	21.8
173	21.6	23.3	24.6	25.2	24.3	23.6	22.0	21.5	20.9	21.6
174	22.0	23.5	23.2	22.4	23.9	23.4	22.3	22.4	21.2	22.0
175	21.8	22.9	22.2	20.8	23.1	23.3	22.5	22.3	20.9	21.8
176	22.0	22.8	22.4	16.3	22.8	22.7	22.9	22.3	21.3	22.1
177	22.5	22.8	21.7	15.4	21.1	22.7	23.3	23.4	21.8	21.8
178	22.4	22.5	21.1	21.2	20.7	22.9	23.5	23.3	21.8	22.7
179	22.5	22.5	20.9	22.7	20.7	22.7	23.5	23.1	22.2	22.4
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8	2153.8
1	2151.5	2153.2	2152.1	2153.2	2152.4	2152.3	2154.0
2	2149.8	2151.3	2150.2	2150.8	2150.2	2150.5	2152.3
3	2146.8	2148.8	2147.8	2148.2	2147.6	2147.4	2150.2
4	2143.2	2144.9	2144.3	2145.1	2144.6	2143.6	2147.0
5	2138.9	2141.0	2140.3	2140.7	2139.8	2138.4	2141.7
6	2132.6	2135.3	2134.3	2135.4	2133.5	2132.2	2136.6
7	2126.5	2128.7	2127.8	2128.5	2127.3	2125.3	2130.1
8	2118.3	2121.9	2119.9	2120.9	2119.7	2117.9	2122.8
9	2109.7	2112.6	2111.1	2112.3	2110.9	2108.3	2113.4
10	2100.4	2102.5	2101.4	2103.0	2101.4	2098.2	2103.7
11	2089.1	2092.1	2090.9	2092.7	2090.4	2087.6	2092.7
12	2076.2	2080.3	2078.4	2079.4	2077.3	2075.4	2080.6
13	2063.6	2068.1	2066.0	2067.1	2064.8	2062.6	2067.1
14	2050.3	2054.0	2050.8	2053.5	2051.2	2047.6	2054.0
15	2035.6	2038.3	2035.8	2038.7	2034.5	2032.7	2039.1
16	2018.4	2022.8	2019.9	2021.6	2019.1	2016.8	2023.6
17	2001.7	2005.6	2003.1	2004.8	2002.6	2000.1	2005.7
18	1984.0	1987.1	1984.5	1987.7	1984.8	1980.6	1988.4
19	1966.0	1968.8	1966.0	1969.4	1964.5	1962.6	1968.2
20	1945.0	1949.3	1946.7	1950.0	1945.0	1942.5	1949.8
21	1925.3	1929.6	1926.6	1928.1	1924.7	1922.3	1926.7
22	1904.7	1909.1	1903.8	1907.6	1903.7	1901.5	1905.9
23	1883.6	1885.6	1882.1	1886.2	1882.1	1877.2	1883.1
24	1861.2	1863.1	1860.0	1863.9	1857.1	1854.4	1859.7
25	1836.2	1840.2	1837.5	1839.1	1834.1	1831.0	1836.4
26	1812.7	1817.0	1813.7	1815.5	1810.3	1806.5	1811.4
27	1788.4	1790.2	1787.4	1791.6	1786.0	1779.3	1785.8
28	1763.3	1765.3	1763.1	1766.9	1758.4	1753.7	1760.2
29	1737.9	1740.4	1737.7	1741.6	1732.4	1727.4	1734.9
30	1709.5	1714.3	1712.1	1713.2	1706.1	1700.6	1706.7
31	1682.7	1688.4	1683.6	1687.4	1679.7	1670.6	1677.6
32	1656.0	1659.0	1657.1	1661.2	1650.1	1642.7	1648.6
33	1626.3	1631.7	1630.5	1634.2	1622.3	1614.7	1620.0
34	1597.9	1604.8	1603.3	1604.0	1594.8	1585.8	1591.4
35	1569.2	1576.7	1573.3	1576.7	1566.3	1557.3	1560.7
36	1540.4	1545.6	1545.3	1548.7	1537.6	1524.5	1529.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WEL48A-35.IES

CANDELA TABULATION - (Cont.)

37	1508.5	1517.2	1517.4	1520.6	1505.5	1494.8	1499.2
38	1478.7	1488.5	1488.4	1489.1	1475.4	1464.4	1468.6
39	1449.3	1459.9	1460.6	1460.9	1447.1	1434.7	1435.4
40	1419.6	1430.9	1428.9	1432.1	1416.9	1400.8	1403.8
41	1388.9	1398.9	1400.7	1403.0	1387.2	1370.1	1372.3
42	1355.7	1369.9	1371.6	1370.7	1354.4	1339.0	1340.8
43	1325.7	1340.1	1343.3	1341.6	1324.5	1308.1	1309.0
44	1295.0	1308.4	1311.1	1312.5	1294.1	1273.8	1274.3
45	1261.7	1279.0	1282.4	1283.2	1261.0	1242.5	1242.4
46	1230.7	1249.4	1253.7	1254.0	1230.9	1211.2	1210.5
47	1200.0	1219.5	1224.4	1221.4	1200.2	1179.5	1178.4
48	1169.4	1190.3	1192.4	1191.8	1170.1	1147.8	1142.6
49	1139.0	1158.1	1163.9	1162.8	1139.9	1113.7	1111.2
50	1105.9	1129.4	1135.9	1130.7	1106.9	1082.2	1078.9
51	1075.8	1100.6	1107.3	1101.7	1077.2	1051.2	1044.0
52	1045.4	1071.3	1076.2	1072.7	1047.5	1017.1	1012.0
53	1015.4	1039.4	1048.1	1043.7	1017.4	986.0	979.5
54	982.1	1010.4	1019.5	1014.5	984.5	954.5	947.0
55	951.6	981.7	991.3	983.0	955.1	923.5	915.9
56	921.5	952.8	963.4	954.2	925.4	889.5	881.2
57	892.5	921.8	932.9	926.4	895.9	858.6	849.5
58	862.8	893.9	905.7	898.2	864.0	827.4	817.0
59	829.5	866.2	878.7	870.4	833.5	798.9	787.1
60	803.1	836.7	847.5	838.9	807.5	765.2	752.6
61	773.4	809.3	823.1	813.5	778.4	735.1	722.1
62	742.0	781.9	795.8	786.1	747.2	705.6	691.6
63	713.5	754.5	769.3	756.1	718.7	675.8	658.8
64	685.4	727.9	740.7	729.5	690.6	643.9	629.1
65	657.6	701.3	714.6	702.9	662.8	614.9	599.1
66	629.9	672.4	688.9	676.2	632.4	586.1	569.7
67	600.0	646.3	663.8	648.0	605.5	557.7	541.3
68	573.3	620.7	636.4	622.9	579.1	526.9	509.6
69	546.9	592.9	611.3	597.4	549.9	499.2	481.4
70	518.1	568.1	587.0	569.9	523.8	471.8	453.2
71	492.3	543.4	562.8	545.1	498.1	444.8	424.8
72	467.1	518.9	539.2	521.0	472.6	415.3	396.7
73	441.5	492.2	513.2	496.3	445.2	389.2	367.9
74	414.6	468.9	489.9	470.5	420.6	363.5	341.4
75	390.9	445.6	466.8	446.8	396.7	338.4	315.3
76	367.3	422.5	442.2	424.2	372.8	311.3	286.8
77	344.6	400.2	420.1	401.8	349.5	287.0	261.7
78	321.8	375.8	397.7	379.4	324.5	263.3	236.5
79	297.1	353.3	376.1	355.3	301.6	240.4	213.1
80	275.1	331.7	352.8	333.9	279.6	215.5	189.7
81	253.5	310.4	331.3	312.3	257.6	193.5	164.7
82	232.3	287.8	310.3	291.3	234.3	172.1	143.3
83	209.6	267.1	289.3	268.2	213.4	151.1	120.9
84	189.8	246.4	268.0	248.4	193.7	131.5	99.2
85	170.5	226.1	245.3	228.2	174.6	112.2	77.5
86	152.9	205.4	225.2	208.9	154.9	93.3	57.5
87	134.7	185.9	205.0	187.9	138.3	77.1	38.6
88	118.4	167.0	185.9	168.8	121.7	62.3	20.5
89	102.6	150.1	166.5	151.3	105.7	48.0	2.9
90	96.2	142.5	160.8	145.4	100.2	43.6	0.0
91	94.5	140.4	158.9	143.0	98.7	43.0	0.0
92	93.2	138.2	156.6	141.0	97.1	42.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WEL48A-35.IES

CANDELA TABULATION - (Cont.)

93	92.1	136.3	154.2	139.1	96.0	41.6	0.0
94	91.8	134.4	152.5	137.5	95.2	41.5	0.0
95	90.7	132.7	150.0	135.7	94.0	41.8	0.0
96	90.0	131.4	147.9	133.9	93.4	41.5	0.0
97	89.3	129.9	146.3	132.3	92.9	41.3	0.0
98	88.6	128.5	144.0	131.0	92.6	41.1	0.0
99	88.2	127.3	142.1	130.0	92.0	41.0	0.0
100	87.4	126.3	140.7	128.6	91.5	40.9	0.0
101	87.0	125.5	139.2	127.2	90.7	41.1	0.0
102	86.5	124.2	137.7	126.5	90.3	41.1	0.0
103	85.9	123.0	136.2	125.5	89.7	41.1	0.0
104	85.3	122.3	134.7	124.2	88.9	40.5	1.0
105	84.7	121.4	133.2	122.8	88.4	40.4	1.0
106	84.1	120.2	131.8	122.0	87.3	39.8	1.9
107	83.5	119.1	130.2	120.7	87.0	39.0	2.0
108	82.7	117.8	129.4	119.4	86.7	38.2	1.9
109	82.2	116.4	127.6	118.4	85.7	37.6	2.1
110	80.7	115.4	126.2	117.0	84.5	37.5	2.2
111	78.9	114.4	125.2	115.5	83.1	37.0	2.8
112	76.5	112.6	123.7	114.2	80.5	36.8	2.3
113	74.2	111.4	122.3	113.4	78.5	37.1	3.3
114	72.9	109.7	121.1	112.0	76.8	37.0	3.1
115	71.4	108.9	119.1	110.4	75.8	36.8	3.8
116	70.6	106.7	118.1	108.7	74.3	37.1	4.2
117	70.0	104.5	116.4	106.9	73.9	36.9	4.0
118	69.4	102.5	114.5	103.5	73.3	37.1	4.5
119	68.7	100.1	111.8	101.8	72.6	36.6	5.3
120	68.3	97.7	109.2	100.2	72.1	36.9	5.0
121	68.0	96.1	107.0	98.1	71.1	37.1	5.9
122	67.1	95.2	105.3	96.6	70.9	36.5	6.3
123	66.7	93.3	104.4	95.2	70.2	35.2	6.5
124	66.5	92.7	102.9	94.2	69.4	34.9	7.2
125	66.0	91.3	101.3	93.2	69.4	35.2	7.4
126	65.8	90.1	99.8	92.0	69.2	34.5	8.5
127	65.2	88.9	98.4	90.6	69.0	34.3	8.3
128	64.8	87.7	97.4	89.0	68.4	34.0	8.7
129	64.2	86.1	96.1	88.0	68.0	33.6	8.9
130	63.7	85.2	94.3	86.7	67.5	33.5	9.6
131	62.9	84.5	93.3	85.4	66.9	33.4	9.9
132	62.2	83.8	91.7	85.2	66.1	32.8	10.2
133	61.5	83.1	90.9	84.5	65.1	32.8	11.0
134	60.8	82.3	89.9	83.7	64.7	32.2	10.8
135	60.2	80.7	89.1	82.8	63.4	32.2	11.3
136	59.1	80.4	88.3	81.9	62.8	31.9	11.5
137	58.4	79.6	87.4	80.5	61.8	31.6	11.9
138	56.0	77.9	86.2	79.2	61.3	31.3	11.5
139	54.0	77.0	85.2	78.1	59.2	31.0	12.4
140	52.3	75.4	83.6	76.8	56.4	31.1	12.2
141	51.5	74.3	82.3	75.6	55.3	30.6	12.8
142	50.7	72.9	80.6	74.1	54.3	31.5	13.3
143	49.6	71.2	79.0	73.0	52.9	32.5	13.4
144	48.9	70.0	77.1	71.5	51.7	32.8	13.9
145	47.4	68.5	75.6	70.3	50.6	33.2	14.0
146	46.7	64.5	74.0	67.4	50.0	33.4	14.5
147	45.7	62.0	72.7	63.8	48.9	33.1	15.0
148	44.7	60.0	68.9	62.1	47.9	32.5	14.9

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WEL48A-35.IES

CANDELA TABULATION - (Cont.)

149	43.3	58.5	65.4	60.3	46.9	32.5	14.9
150	42.0	57.0	63.1	58.8	45.5	32.2	15.1
151	40.7	55.7	61.6	56.9	45.0	31.5	15.5
152	39.7	54.0	59.8	55.6	43.7	31.5	15.6
153	38.0	52.7	58.2	53.8	42.4	31.1	16.0
154	36.4	51.2	56.2	52.1	41.6	31.0	16.6
155	36.4	49.5	54.4	51.3	40.7	30.4	16.8
156	36.2	48.1	52.8	49.9	39.9	30.5	17.2
157	36.0	46.5	51.3	47.8	41.3	30.4	17.7
158	35.5	44.7	48.8	46.4	42.0	29.4	17.6
159	33.7	43.3	47.5	44.8	41.2	29.3	18.4
160	33.5	41.7	45.6	42.8	40.6	28.7	18.5
161	32.5	42.3	43.9	42.9	39.3	29.3	18.7
162	31.8	41.3	43.1	44.0	38.9	28.5	18.7
163	30.6	39.4	44.1	43.6	37.4	28.0	18.7
164	29.7	38.7	43.4	42.3	36.9	27.7	19.3
165	28.6	36.7	42.4	41.4	36.2	27.2	19.2
166	27.9	34.8	40.9	39.9	35.2	26.4	20.1
167	27.5	33.4	39.0	38.3	34.2	25.9	20.4
168	26.9	32.1	37.3	37.4	32.9	26.1	20.5
169	26.7	30.6	35.7	35.8	32.0	25.5	21.0
170	25.9	29.0	32.4	34.6	30.7	24.9	21.0
171	25.4	27.4	30.6	33.1	28.9	25.4	21.4
172	25.0	25.8	29.4	31.5	27.8	24.9	21.4
173	24.6	24.8	27.9	29.1	27.0	25.1	21.6
174	23.9	23.6	26.1	28.0	26.2	24.9	22.0
175	23.5	23.0	25.5	26.2	25.8	24.4	21.8
176	22.9	22.5	24.3	25.3	25.0	24.3	22.0
177	23.1	22.2	22.3	24.1	24.3	24.3	22.5
178	22.8	21.9	19.7	22.7	23.9	23.6	22.4
179	22.3	20.6	20.3	21.0	22.7	23.2	22.5
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WEL48A-35.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	778.31	12.80	12.80
0-30	1625.98	26.70	26.70
0-40	2609.18	42.90	42.90
0-60	4443.96	73.10	73.10
0-80	5516.79	90.70	90.70
0-90	5703.32	93.80	93.80
10-90	5500.00	90.40	90.40
20-40	1830.87	30.10	30.10
20-50	2809.03	46.20	46.20
40-70	2490.32	41.00	41.00
60-80	1072.83	17.60	17.60
70-80	417.29	6.90	6.90
80-90	186.53	3.10	3.10
90-110	165.88	2.70	2.70
90-120	231.06	3.80	3.80
90-130	282.68	4.60	4.60
90-150	350.74	5.80	5.80
90-180	377.80	6.20	6.20
110-180	211.92	3.50	3.50
0-180	6081.12	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.32
10-20	575.00
20-30	847.67
30-40	983.20
40-50	978.17
50-60	856.62
60-70	655.54
70-80	417.29
80-90	186.53
90-100	87.86
100-110	78.02
110-120	65.18
120-130	51.62
130-140	40.16
140-150	27.90
150-160	16.37
160-170	8.39
170-180	2.29

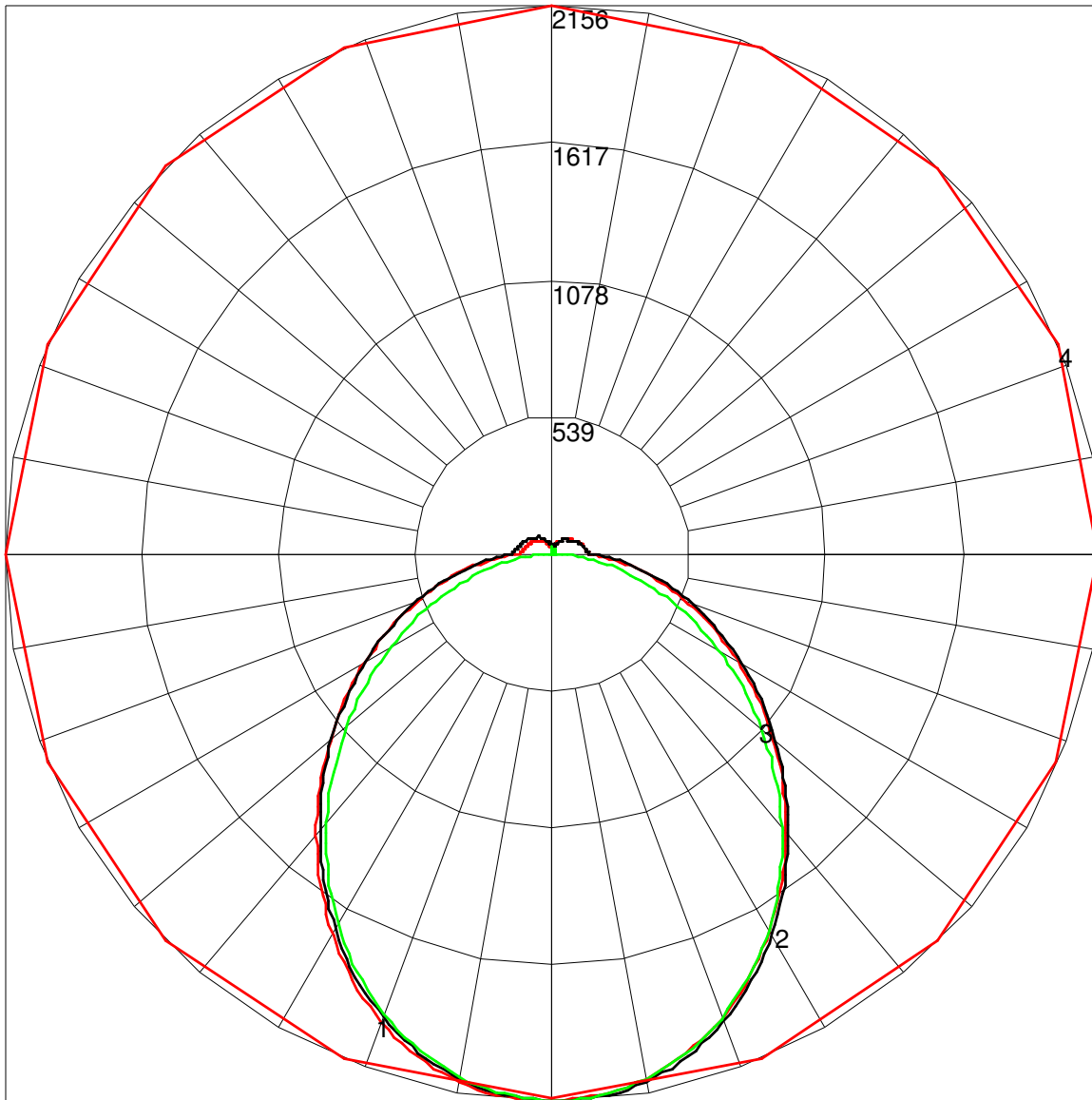
IES INDOOR REPORT
PHOTOMETRIC FILENAME : WEL48A-35.IES

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	107	102	98	94	104	99	95	91	94	90	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	77	72	78	73	70	74	70	67	65
3	89	78	70	64	86	76	69	63	72	66	61	69	63	59	65	61	57	55
4	81	69	61	54	79	68	60	53	64	57	52	61	55	50	58	53	49	47
5	75	62	53	47	72	61	52	46	58	51	45	55	49	44	53	47	43	41
6	69	56	47	41	67	55	46	40	52	45	39	50	44	39	48	42	38	36
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	35	31	40	35	30	28
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 2155.8 Located At Horizontal Angle = 112.5, Vertical Angle = 2
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 (2) (Through Max. Cd.)