



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WCL48A-40-44W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] KS2210926-50167E-10
[TESTLAB] BACL
[TESTDATE] 2021-10-09
[ISSUEDATE] 2021-10-09 15:28:31
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-R5000_V2 SYSTEM
[MANUFAC] LAMAR LED
[LUMCAT] WCL48A-40 (44W)

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6247
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	44.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.60 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7664	7340	7444
55	7219	6986	7298
65	6491	6610	7289
75	5030	6466	7741
85	2071	7577	10166

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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	1844.20	1844.20	1844.20	1844.20	1844.20	1844.20	1844.20	1844.20	1844.20	1844.20
1	1844.67	1844.22	1843.36	1843.15	1842.70	1842.49	1842.89	1843.53	1842.73	1843.57
2	1844.68	1843.37	1842.28	1841.22	1840.40	1840.38	1840.59	1840.97	1841.19	1842.87
3	1843.43	1841.49	1840.39	1838.28	1837.81	1837.59	1838.00	1838.44	1838.48	1840.38
4	1842.13	1839.97	1838.02	1835.68	1835.00	1834.14	1834.13	1835.00	1835.18	1838.13
5	1839.64	1837.07	1834.71	1832.47	1831.48	1830.20	1830.38	1831.47	1831.16	1834.55
6	1837.03	1833.82	1831.24	1828.49	1827.16	1825.44	1825.63	1826.94	1826.73	1830.55
7	1833.49	1829.63	1826.71	1823.72	1822.33	1820.82	1820.59	1821.26	1821.33	1826.20
8	1829.01	1825.15	1822.12	1819.34	1817.20	1815.28	1814.61	1815.48	1815.47	1821.17
9	1824.24	1819.51	1816.48	1813.06	1811.32	1809.19	1808.30	1809.15	1808.73	1815.30
10	1818.76	1814.04	1810.38	1807.38	1805.21	1802.45	1801.14	1801.77	1801.80	1808.59
11	1812.50	1807.34	1803.83	1800.64	1798.70	1795.49	1793.34	1793.98	1793.80	1801.66
12	1805.48	1799.91	1796.41	1793.38	1791.25	1788.26	1785.24	1785.46	1785.64	1794.15
13	1797.58	1791.81	1788.69	1786.09	1783.73	1780.09	1776.66	1776.22	1776.02	1785.55
14	1789.56	1783.18	1780.08	1777.28	1775.12	1771.23	1767.40	1766.91	1766.44	1777.07
15	1780.83	1774.39	1771.10	1769.19	1766.58	1761.87	1757.55	1756.91	1756.14	1767.63
16	1771.45	1764.36	1761.53	1759.97	1757.22	1752.32	1747.32	1746.08	1745.32	1757.84
17	1761.29	1754.41	1751.12	1749.72	1747.05	1742.09	1736.46	1735.01	1734.09	1747.06
18	1750.27	1743.16	1741.17	1739.90	1737.26	1731.30	1724.82	1722.89	1721.47	1735.91
19	1738.65	1731.56	1729.74	1728.86	1726.49	1720.27	1712.74	1710.55	1709.24	1724.54
20	1726.69	1719.22	1717.98	1717.47	1715.37	1708.25	1700.52	1697.07	1695.32	1711.90
21	1713.82	1706.09	1705.28	1705.62	1703.70	1696.20	1687.41	1683.30	1681.02	1698.44
22	1700.04	1692.52	1692.34	1693.43	1691.23	1683.51	1673.60	1669.31	1666.76	1685.06
23	1685.57	1678.22	1678.98	1680.97	1678.70	1670.18	1659.78	1654.05	1651.36	1670.91
24	1670.84	1663.09	1665.11	1667.17	1665.06	1656.06	1644.86	1638.21	1635.20	1655.57
25	1655.65	1647.91	1650.13	1653.32	1651.70	1642.10	1630.24	1622.54	1619.30	1640.58
26	1639.68	1632.02	1635.40	1638.79	1637.43	1627.99	1614.72	1606.12	1602.45	1624.93
27	1623.73	1615.55	1620.06	1624.36	1623.00	1612.53	1598.28	1589.35	1584.88	1608.75
28	1606.40	1598.64	1603.61	1608.95	1608.44	1597.29	1581.81	1570.90	1566.38	1591.25
29	1588.13	1580.53	1586.64	1593.14	1592.75	1580.80	1564.57	1553.31	1548.23	1573.75
30	1570.15	1562.18	1569.20	1577.35	1576.63	1563.90	1546.59	1533.76	1528.52	1555.71
31	1550.31	1543.59	1551.21	1560.84	1560.96	1547.45	1528.52	1514.59	1509.36	1537.20
32	1531.22	1523.66	1532.53	1543.36	1543.94	1530.21	1510.03	1495.10	1488.57	1517.53
33	1510.93	1503.73	1513.98	1525.74	1526.76	1512.18	1490.63	1474.77	1468.48	1498.17
34	1490.58	1483.38	1494.94	1508.16	1509.34	1494.33	1470.94	1453.97	1446.77	1477.90
35	1468.28	1461.76	1474.55	1489.12	1491.08	1475.48	1450.93	1432.31	1425.17	1457.66
36	1446.71	1440.62	1454.42	1471.26	1473.28	1456.90	1430.72	1410.82	1403.63	1436.41
37	1424.27	1418.18	1433.46	1452.16	1454.44	1437.45	1410.23	1388.99	1381.12	1415.11
38	1401.98	1396.09	1412.84	1432.08	1435.14	1417.56	1388.35	1365.86	1358.24	1393.50
39	1378.34	1372.60	1391.16	1412.76	1416.41	1398.24	1367.47	1343.13	1335.01	1371.02
40	1354.70	1348.80	1368.95	1391.18	1396.11	1377.34	1344.56	1319.33	1313.95	1348.51
41	1330.32	1324.84	1346.73	1371.44	1376.21	1356.85	1322.54	1295.76	1292.89	1325.91
42	1305.45	1300.19	1323.29	1349.49	1355.53	1335.58	1299.91	1271.21	1271.81	1304.89
43	1279.95	1275.52	1300.99	1328.54	1335.21	1314.41	1277.26	1246.23	1245.99	1283.88
44	1254.37	1249.53	1276.92	1306.86	1313.69	1293.28	1253.37	1221.45	1220.16	1262.73
45	1227.55	1223.66	1252.52	1284.30	1292.16	1270.58	1229.36	1195.77	1193.78	1237.79
46	1201.44	1197.92	1229.08	1262.77	1271.36	1249.03	1206.13	1170.08	1167.18	1212.44
47	1174.81	1171.01	1204.26	1240.05	1249.32	1226.58	1182.13	1143.33	1139.80	1186.09
48	1147.04	1143.58	1179.44	1216.81	1226.87	1203.33	1156.90	1116.85	1112.62	1160.32
49	1119.04	1116.49	1154.49	1195.03	1205.67	1181.54	1132.40	1089.74	1084.89	1133.58
50	1091.08	1088.54	1128.91	1170.73	1182.82	1158.35	1107.35	1062.84	1056.88	1106.83
51	1062.19	1060.67	1103.37	1147.94	1160.34	1134.82	1082.23	1034.76	1028.80	1079.38
52	1032.94	1031.87	1077.07	1123.76	1137.48	1111.72	1056.56	1007.45	999.85	1052.39
53	1003.68	1002.82	1051.18	1099.85	1114.36	1087.61	1030.66	979.09	970.84	1024.22

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CANDELA TABULATION - (Cont.)

54	974.07	974.27	1024.60	1075.64	1091.15	1063.52	1004.83	950.93	941.42	996.16
55	943.89	944.85	998.14	1051.53	1067.69	1039.98	979.63	922.46	912.13	968.45
56	913.65	915.54	972.04	1027.35	1044.47	1016.07	953.59	894.07	882.03	939.43
57	882.54	885.28	945.04	1002.75	1020.65	991.67	927.41	865.12	852.21	911.31
58	852.22	855.80	918.01	978.08	996.35	967.21	900.79	836.21	821.54	882.40
59	820.36	825.52	891.49	954.23	974.17	943.97	874.67	806.86	791.38	853.19
60	789.58	795.69	864.97	929.64	950.71	919.73	849.59	778.17	760.30	824.31
61	757.76	764.73	838.08	905.34	927.28	895.50	822.52	748.67	729.73	795.19
62	726.00	735.25	811.84	881.62	904.34	872.60	797.50	720.01	698.12	765.57
63	693.14	704.34	784.06	857.06	879.85	847.84	770.85	690.19	667.17	736.50
64	661.06	674.38	758.84	833.72	857.98	825.12	745.77	661.05	635.39	707.26
65	631.91	643.94	732.21	810.03	834.94	801.43	720.51	629.24	604.26	677.94
66	599.39	614.84	705.96	785.81	811.62	777.62	694.76	603.31	572.42	648.27
67	566.77	585.79	680.62	762.58	788.91	755.01	670.04	577.51	540.97	619.49
68	533.22	556.73	654.05	739.10	766.07	731.47	644.17	548.79	509.29	590.47
69	501.23	527.85	640.89	716.40	744.48	709.60	621.25	520.64	477.53	561.43
70	468.03	497.52	612.02	692.86	721.71	686.40	598.36	492.21	446.17	532.69
71	434.97	468.73	582.89	669.48	699.05	663.79	575.47	463.89	414.77	504.33
72	402.32	439.93	558.67	647.52	677.30	641.42	552.07	436.90	383.70	476.26
73	370.18	411.89	533.93	626.71	655.66	621.24	528.58	409.91	352.17	448.12
74	338.18	384.28	510.74	605.92	631.81	601.12	505.67	383.48	322.29	421.38
75	306.82	357.23	486.84	585.13	614.05	581.00	483.34	357.94	291.83	394.27
76	275.53	330.98	464.50	563.88	596.30	559.72	461.04	332.53	262.28	368.27
77	245.10	305.60	441.88	542.86	575.91	539.05	439.62	308.45	233.23	342.36
78	215.64	281.21	420.47	522.51	556.11	519.26	418.64	284.95	205.37	317.64
79	186.89	257.49	399.14	501.87	535.91	498.90	398.30	262.52	177.84	293.35
80	159.13	234.85	378.64	481.93	516.38	479.46	378.19	240.58	152.81	270.26
81	133.14	213.10	358.58	462.26	497.16	460.27	358.91	219.77	127.78	247.97
82	108.06	192.78	339.15	443.27	478.02	441.43	340.07	200.04	102.76	226.43
83	84.95	173.38	320.13	424.87	459.87	423.67	322.04	181.51	81.13	206.13
84	63.61	155.10	301.85	406.12	441.06	404.94	303.92	163.54	61.13	186.75
85	47.19	138.05	284.37	388.54	423.77	387.83	287.12	147.06	43.01	168.45
86	30.80	122.50	267.17	370.83	405.94	370.40	270.33	131.43	30.39	152.12
87	14.41	107.87	251.06	354.03	389.23	353.84	254.51	117.10	17.78	135.80
88	4.84	94.66	235.37	337.88	372.94	338.08	239.59	103.91	5.22	119.50
89	2.62	82.52	220.47	321.77	356.44	321.84	224.62	91.64	0.66	106.13
90	0.44	71.84	206.35	306.65	341.41	307.07	210.83	80.60	0.22	93.77
91	0.41	62.05	192.77	291.37	325.66	292.23	197.41	70.66	0.23	82.33
92	0.49	53.86	180.25	277.45	311.60	278.28	184.97	62.67	0.32	72.17
93	0.56	45.68	167.82	263.48	296.99	264.51	172.79	54.63	0.40	62.97
94	0.71	39.31	156.39	250.03	282.97	251.02	161.50	46.59	0.52	54.84
95	0.88	33.96	145.56	237.26	269.87	238.40	150.41	40.54	0.62	47.68
96	1.04	29.01	134.99	224.49	256.98	226.22	140.39	35.35	0.78	41.47
97	1.23	24.91	125.57	212.59	244.13	213.89	130.40	30.54	0.97	36.11
98	1.45	21.17	116.57	201.37	232.50	203.20	121.84	26.24	1.18	30.78
99	1.69	18.36	108.15	190.24	220.47	191.55	112.99	22.70	1.41	26.43
100	1.97	15.76	99.99	180.00	209.76	181.77	105.09	19.64	1.65	22.77
101	2.25	13.78	92.51	169.99	198.94	171.66	97.36	17.08	1.91	19.57
102	2.54	12.07	85.02	160.09	188.52	161.91	89.74	14.92	2.19	16.98
103	2.84	10.76	78.25	150.75	178.57	152.57	82.68	13.10	2.47	14.69
104	3.15	9.73	71.83	141.60	168.60	143.45	76.27	11.73	2.76	13.18
105	3.45	9.00	66.27	132.92	159.47	134.79	70.40	10.57	3.05	11.67
106	3.77	8.39	61.13	124.41	150.12	126.36	64.73	9.70	3.34	10.16
107	4.09	8.02	55.99	116.49	141.15	118.30	59.73	9.02	3.64	9.17
108	4.42	7.75	50.85	109.22	132.98	111.16	54.73	8.57	3.95	8.42
109	4.74	7.58	46.43	101.83	124.74	103.69	49.74	8.20	4.25	7.86

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CANDELA TABULATION - (Cont.)

110	5.08	7.55	42.74	95.25	117.34	97.05	45.69	7.96	4.56	7.42
111	5.40	7.58	39.11	88.79	110.08	90.52	41.99	7.81	4.87	7.10
112	5.74	7.67	36.03	82.77	103.01	84.38	38.58	7.77	5.18	6.90
113	6.07	7.83	33.17	77.09	96.45	78.62	35.59	7.79	5.50	6.80
114	6.40	8.03	30.68	71.72	90.14	73.29	32.85	7.88	5.81	6.86
115	6.74	8.26	28.29	66.44	84.00	67.92	30.19	8.00	6.13	6.92
116	7.07	8.51	26.26	61.90	78.37	64.03	27.95	8.16	6.46	6.99
117	7.41	8.79	24.39	57.38	72.93	59.10	25.89	8.36	6.79	7.14
118	7.74	9.08	22.81	52.85	67.97	54.16	24.15	8.60	7.12	7.32
119	8.08	9.37	21.34	49.02	63.95	50.23	22.53	8.85	7.44	7.53
120	8.42	9.67	20.12	45.54	59.17	46.64	21.13	9.12	7.75	7.77
121	8.76	9.97	19.03	42.28	54.36	43.31	19.89	9.38	8.06	8.01
122	9.10	10.25	18.08	39.22	50.52	40.23	18.80	9.65	8.37	8.27
123	9.44	10.55	17.32	36.54	47.02	37.39	17.87	9.93	8.67	8.53
124	9.78	10.86	16.64	34.06	43.71	34.84	17.06	10.22	8.97	8.80
125	10.11	11.18	16.12	31.80	40.63	32.48	16.37	10.51	9.29	9.08
126	10.43	11.50	15.67	29.75	37.89	30.36	15.85	10.81	9.58	9.35
127	10.74	11.83	15.36	27.89	35.38	28.45	15.42	11.12	9.88	9.62
128	11.06	12.11	15.14	26.20	32.98	26.65	15.09	11.40	10.16	9.91
129	11.38	12.39	14.99	24.72	30.91	25.14	14.86	11.71	10.46	10.18
130	11.70	12.66	14.93	23.37	28.88	23.67	14.67	12.01	10.73	10.42
131	12.02	12.99	14.93	22.22	27.19	22.48	14.60	12.19	11.01	10.65
132	12.36	13.29	15.00	21.20	25.59	21.36	14.56	12.42	11.29	10.89
133	12.70	13.57	15.11	20.31	24.18	20.44	14.61	12.80	11.58	11.11
134	13.04	13.86	15.29	19.61	22.98	19.65	14.71	13.13	11.84	11.33
135	13.35	14.13	15.48	19.02	21.91	19.00	14.86	13.44	12.08	11.56
136	13.68	14.44	15.69	18.56	21.02	18.48	15.07	13.74	12.35	11.82
137	13.98	14.73	15.92	18.20	20.29	18.10	15.27	14.06	12.61	12.05
138	14.26	15.02	16.15	17.96	19.66	17.79	15.50	14.32	12.87	12.26
139	14.52	15.28	16.42	17.86	19.23	17.65	15.75	14.62	13.10	12.45
140	14.83	15.55	16.68	17.79	18.83	17.54	15.99	14.88	13.33	12.66
141	15.14	15.84	16.97	17.84	18.63	17.57	16.28	15.17	13.52	12.84
142	15.43	16.11	17.24	17.95	18.51	17.68	16.56	15.46	13.70	12.92
143	15.72	16.32	17.48	18.10	18.45	17.81	16.84	15.70	13.93	13.18
144	16.01	16.53	17.73	18.30	18.54	18.00	17.10	15.85	14.15	13.36
145	16.30	16.78	17.94	18.48	18.65	18.16	17.34	16.14	14.36	13.62
146	16.56	17.01	18.13	18.68	18.81	18.34	17.57	16.41	14.59	13.74
147	16.80	17.18	18.34	18.87	18.96	18.53	17.58	16.59	14.79	13.84
148	16.94	17.38	18.56	19.06	19.10	18.72	17.18	16.70	14.75	13.18
149	16.92	17.50	18.78	19.26	19.28	18.93	17.49	16.65	14.69	12.74
150	16.81	17.52	18.97	19.44	19.46	19.12	17.95	16.45	14.64	12.73
151	16.64	17.57	19.14	19.61	19.64	19.30	18.22	16.01	14.57	12.77
152	16.45	17.61	19.33	19.77	19.81	19.47	18.43	15.58	14.48	12.88
153	16.27	17.47	19.51	19.87	19.96	19.60	18.39	15.23	14.39	12.61
154	16.12	17.39	19.68	20.04	20.12	19.74	18.53	15.11	14.26	12.71
155	15.98	17.41	19.82	20.21	20.22	19.91	18.51	14.98	14.09	12.95
156	15.87	17.50	19.96	20.34	20.37	20.05	18.39	14.98	13.88	12.80
157	15.76	17.58	20.07	20.45	20.49	20.17	18.39	15.03	13.64	12.56
158	15.66	17.67	20.12	20.56	20.58	20.12	18.09	14.87	13.39	12.46
159	15.56	17.74	20.21	20.67	20.65	19.88	18.03	14.31	13.17	12.38
160	15.46	17.81	20.27	20.74	20.74	20.15	17.73	14.23	12.96	12.32
161	15.34	17.85	20.33	20.81	20.80	19.77	17.23	14.36	12.77	12.21
162	15.21	17.88	20.35	20.85	20.84	19.56	16.76	14.20	12.61	12.12
163	15.07	17.88	20.25	20.84	20.87	19.27	16.27	13.92	12.46	12.04
164	14.93	17.85	20.22	20.81	20.86	18.86	15.82	13.91	12.31	12.12
165	14.79	17.81	20.10	20.75	20.82	18.25	15.82	14.33	12.15	12.43

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CANDELA TABULATION - (Cont.)

166	14.65	17.76	20.05	20.76	20.78	17.92	15.78	14.53	12.03	12.66
167	15.10	17.96	20.00	20.73	20.30	17.44	15.64	14.90	12.73	13.35
168	15.74	18.26	19.92	20.46	20.39	17.10	15.51	15.37	13.42	13.80
169	16.35	18.57	19.81	20.30	20.29	16.87	15.33	15.90	14.10	14.10
170	16.87	18.81	19.72	20.20	19.75	16.80	15.11	16.39	14.72	14.63
171	17.31	19.00	19.60	20.00	18.70	16.92	15.48	16.83	15.31	15.24
172	17.66	19.14	19.47	19.83	16.82	16.89	15.94	17.20	15.85	15.81
173	17.95	19.24	19.36	19.44	16.21	16.83	16.63	17.49	16.33	16.31
174	18.18	19.31	19.24	19.30	16.00	16.69	16.99	17.62	16.77	16.76
175	18.35	19.34	19.22	19.11	15.80	16.26	17.06	17.71	17.11	17.12
176	18.46	19.31	19.23	18.91	15.63	15.56	17.40	17.91	17.43	17.43
177	18.51	19.08	19.17	18.65	15.45	15.52	17.67	18.08	17.72	17.73
178	18.50	18.91	19.05	18.38	16.03	15.57	17.93	18.21	17.95	17.96
179	18.41	18.71	18.72	18.11	16.62	15.61	18.18	18.34	18.15	18.16
180	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34	18.34

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	1844.20	1844.20	1844.20	1844.20	1844.20	1844.20	1844.20
1	1844.40	1844.41	1845.24	1845.45	1845.85	1845.43	1844.67
2	1843.95	1844.62	1845.66	1846.08	1846.27	1844.99	1844.68
3	1842.90	1844.62	1845.87	1846.29	1846.06	1844.36	1843.43
4	1841.13	1843.69	1845.42	1846.25	1845.38	1843.25	1842.13
5	1838.60	1841.39	1844.56	1844.98	1843.89	1841.54	1839.64
6	1835.86	1839.70	1842.87	1843.29	1841.99	1838.59	1837.03
7	1832.17	1837.30	1841.12	1841.33	1839.18	1835.74	1833.49
8	1828.40	1833.95	1838.31	1838.92	1836.55	1831.55	1829.01
9	1823.60	1829.83	1835.13	1835.54	1832.95	1826.97	1824.24
10	1818.14	1826.25	1831.34	1831.76	1828.11	1821.92	1818.76
11	1812.29	1821.07	1827.24	1827.44	1823.14	1815.85	1812.50
12	1805.64	1816.33	1822.73	1822.71	1817.98	1809.21	1805.48
13	1798.29	1810.25	1817.71	1817.26	1811.89	1802.52	1797.58
14	1790.91	1803.74	1812.02	1811.79	1804.92	1794.23	1789.56
15	1783.14	1797.04	1805.37	1805.36	1798.02	1786.03	1780.83
16	1774.63	1789.57	1798.91	1798.28	1789.92	1776.65	1771.45
17	1764.91	1781.79	1791.60	1790.72	1781.49	1767.17	1761.29
18	1754.81	1773.16	1784.00	1782.48	1772.19	1757.13	1750.27
19	1744.94	1763.94	1775.42	1774.35	1762.98	1746.32	1738.65
20	1734.26	1754.35	1767.10	1764.97	1752.71	1735.15	1726.69
21	1722.68	1744.04	1756.82	1755.69	1741.99	1722.75	1713.82
22	1710.62	1734.11	1747.31	1745.35	1730.54	1709.99	1700.04
23	1697.92	1722.49	1736.94	1734.35	1718.71	1696.26	1685.57
24	1685.17	1711.46	1726.56	1724.17	1706.57	1682.17	1670.84
25	1671.35	1699.32	1714.87	1712.23	1693.37	1667.33	1655.65
26	1657.48	1686.73	1703.34	1699.85	1680.13	1651.95	1639.68
27	1642.83	1673.59	1691.23	1687.14	1666.30	1636.14	1623.73
28	1628.24	1659.91	1677.77	1673.63	1651.35	1620.07	1606.40
29	1612.02	1646.01	1664.71	1660.19	1636.35	1603.18	1588.13
30	1595.65	1632.08	1651.30	1645.27	1620.85	1585.35	1570.15
31	1579.07	1616.88	1636.69	1631.72	1604.49	1567.01	1550.31
32	1561.55	1601.50	1622.55	1616.72	1587.74	1548.58	1531.22
33	1543.87	1585.09	1606.81	1600.51	1569.89	1529.04	1510.93
34	1525.95	1569.15	1591.73	1584.58	1551.91	1509.10	1490.58
35	1507.37	1551.99	1575.40	1568.08	1533.52	1488.63	1468.28
36	1487.85	1534.85	1558.66	1550.51	1514.48	1468.46	1446.71

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CANDELA TABULATION - (Cont.)

37	1468.49	1517.38	1542.40	1533.15	1495.62	1446.49	1424.27
38	1448.75	1498.94	1524.64	1515.17	1475.92	1424.81	1401.98
39	1428.26	1481.00	1506.73	1496.77	1455.63	1402.98	1378.34
40	1408.05	1461.65	1488.41	1478.08	1435.40	1380.43	1354.70
41	1386.43	1442.81	1469.38	1458.40	1413.77	1357.05	1330.32
42	1365.50	1422.93	1450.75	1439.13	1393.03	1333.86	1305.45
43	1343.77	1403.34	1431.39	1418.64	1370.81	1312.56	1279.95
44	1322.19	1382.86	1412.23	1398.93	1349.15	1291.26	1254.37
45	1302.23	1362.61	1392.07	1378.52	1327.07	1269.93	1227.55
46	1282.27	1341.31	1371.50	1357.29	1306.76	1244.23	1201.44
47	1262.25	1320.98	1350.57	1335.83	1286.45	1217.48	1174.81
48	1238.82	1301.95	1330.06	1315.38	1266.06	1191.22	1147.04
49	1214.56	1282.92	1311.50	1296.61	1241.81	1164.04	1119.04
50	1190.24	1263.81	1292.94	1277.80	1217.44	1137.15	1091.08
51	1165.17	1240.68	1274.37	1256.52	1192.10	1109.35	1062.19
52	1140.56	1218.01	1252.39	1234.08	1167.30	1081.11	1032.94
53	1114.91	1194.14	1229.31	1210.60	1141.52	1052.66	1003.68
54	1089.87	1170.98	1206.31	1186.53	1115.76	1024.38	974.07
55	1064.23	1147.46	1183.81	1163.17	1090.33	995.64	943.89
56	1038.10	1123.16	1159.78	1138.78	1063.27	966.11	913.65
57	1012.57	1099.10	1136.15	1114.88	1037.36	937.34	882.54
58	986.45	1075.04	1112.97	1090.39	1010.83	907.25	852.22
59	960.10	1050.25	1088.36	1065.49	983.77	877.93	820.36
60	933.67	1026.10	1064.82	1040.85	957.40	847.70	789.58
61	907.63	1001.63	1040.98	1016.49	930.59	817.89	757.76
62	881.00	976.42	1016.13	990.81	903.35	787.76	726.00
63	854.59	952.12	992.10	966.00	876.67	757.22	693.14
64	828.78	927.74	968.41	941.37	849.97	727.52	661.06
65	802.32	902.67	943.55	916.47	822.90	696.85	631.91
66	776.00	878.27	919.35	891.07	795.85	666.57	599.39
67	750.18	853.69	895.84	866.74	769.86	636.51	566.77
68	723.87	829.60	871.36	841.82	742.80	606.76	533.22
69	698.35	805.32	847.84	817.42	716.74	576.60	501.23
70	672.57	781.50	823.96	793.14	690.55	547.54	468.03
71	647.74	757.64	800.67	768.94	664.74	517.86	434.97
72	622.12	733.69	777.00	744.87	638.95	489.09	402.32
73	597.64	710.50	754.17	721.24	613.75	460.16	370.18
74	573.69	687.37	730.58	697.65	589.02	432.43	338.18
75	549.60	664.37	707.75	674.40	564.33	404.51	306.82
76	526.49	641.98	685.63	651.72	540.63	377.89	275.53
77	502.94	619.24	662.99	628.75	516.40	351.16	245.10
78	480.63	597.66	641.52	606.71	493.78	325.85	215.64
79	458.39	576.23	619.86	584.83	470.91	300.72	186.89
80	436.94	554.82	598.39	563.25	448.87	277.16	159.13
81	415.79	534.36	577.95	542.38	427.39	254.30	133.14
82	395.07	513.27	557.00	521.36	406.17	232.20	108.06
83	375.33	493.64	537.26	501.25	385.90	211.55	84.95
84	356.02	474.17	517.31	481.32	365.90	191.80	63.61
85	337.09	454.77	497.93	461.97	346.66	173.10	47.19
86	319.18	436.48	479.12	443.06	328.26	156.58	30.80
87	301.62	418.01	460.40	424.49	310.30	140.05	14.41
88	284.59	400.28	442.37	406.53	292.98	123.55	4.84
89	268.57	383.00	424.75	388.89	276.19	109.69	2.62
90	252.82	366.01	407.27	371.72	260.27	97.27	0.44
91	237.71	349.68	390.30	354.95	244.64	85.59	0.41
92	223.42	333.62	373.86	338.90	230.07	75.21	0.49

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CANDELA TABULATION - (Cont.)

93	209.49	318.13	357.74	322.95	215.86	65.92	0.56
94	196.40	303.05	342.17	307.74	202.30	57.40	0.71
95	183.70	288.46	326.94	292.96	189.32	50.12	0.88
96	171.74	274.30	312.05	278.42	176.98	43.76	1.04
97	160.41	260.60	297.74	264.60	165.36	38.18	1.23
98	149.87	247.35	283.65	251.10	154.27	32.78	1.45
99	139.32	234.58	270.27	238.24	143.54	28.33	1.69
100	128.84	222.24	257.05	225.73	132.87	24.50	1.97
101	120.11	210.64	244.68	213.98	124.07	21.28	2.25
102	111.58	199.52	232.67	202.65	115.28	18.48	2.54
103	103.12	188.71	220.97	191.74	106.63	16.14	2.84
104	95.02	178.55	210.01	181.44	98.25	14.23	3.15
105	87.57	168.37	199.10	171.03	90.61	12.76	3.45
106	80.83	158.48	188.50	161.14	83.78	11.45	3.77
107	74.39	148.89	178.18	151.31	77.07	10.40	4.09
108	68.32	139.30	167.75	141.48	70.87	9.60	4.42
109	62.76	129.75	157.83	131.69	65.22	8.96	4.74
110	57.62	121.67	148.71	123.44	59.87	8.48	5.08
111	52.73	113.67	139.59	115.57	54.96	8.16	5.40
112	48.27	106.27	130.48	107.98	50.33	7.94	5.74
113	44.24	99.21	122.36	100.67	46.23	7.83	6.07
114	40.66	92.40	114.70	93.90	42.53	7.80	6.40
115	37.31	85.98	107.17	87.32	39.12	7.86	6.74
116	34.17	79.87	100.12	81.22	35.88	7.95	7.07
117	31.28	74.20	93.54	75.48	32.93	8.10	7.41
118	28.67	68.60	86.93	69.76	30.20	8.29	7.74
119	26.33	63.64	80.99	64.92	27.86	8.50	8.08
120	24.33	59.15	75.33	60.20	25.74	8.74	8.42
121	22.39	54.66	69.91	55.72	23.81	8.99	8.76
122	20.77	50.49	65.14	51.50	22.17	9.27	9.10
123	19.33	46.62	60.37	47.55	20.63	9.54	9.44
124	18.02	42.93	55.82	43.85	19.34	9.84	9.78
125	16.95	39.62	51.60	40.44	18.17	10.13	10.11
126	15.98	36.54	47.66	37.41	17.23	10.43	10.43
127	15.17	33.73	43.96	34.53	16.36	10.72	10.74
128	14.50	31.17	40.62	31.99	15.71	11.02	11.06
129	13.97	28.77	37.47	29.60	15.15	11.30	11.38
130	13.54	26.65	34.57	27.42	14.73	11.58	11.70
131	13.22	24.71	31.93	25.45	14.39	11.84	12.02
132	13.00	23.01	29.57	23.73	14.15	12.11	12.36
133	12.88	21.52	27.39	22.25	13.99	12.38	12.70
134	12.81	20.20	25.44	20.91	13.90	12.62	13.04
135	12.79	19.05	23.75	19.79	13.86	12.87	13.35
136	12.82	18.05	22.16	18.83	13.88	13.13	13.68
137	12.88	17.21	20.85	18.01	13.94	13.38	13.98
138	12.98	16.53	19.72	17.36	14.04	13.59	14.26
139	13.12	15.97	18.75	16.80	14.17	13.80	14.52
140	13.29	15.57	17.93	16.38	14.32	13.98	14.83
141	13.47	15.26	17.27	16.07	14.50	14.19	15.14
142	13.65	15.06	16.76	15.87	14.69	14.39	15.43
143	13.87	14.95	16.35	15.76	14.89	14.62	15.72
144	14.09	14.91	16.06	15.69	15.08	14.84	16.01
145	14.27	14.92	15.87	15.67	15.27	15.05	16.30
146	14.43	14.99	15.77	15.71	15.46	15.24	16.56
147	14.54	15.08	15.73	15.77	15.63	15.41	16.80
148	14.45	15.22	15.76	15.87	15.82	15.60	16.94

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CANDELA TABULATION - (Cont.)

149	14.48	15.36	15.82	16.00	15.99	15.80	16.92
150	14.67	15.52	15.94	16.15	16.17	16.01	16.81
151	14.62	15.70	16.07	16.29	16.33	16.22	16.64
152	14.86	15.87	16.20	16.43	16.49	16.44	16.45
153	14.99	16.02	16.36	16.60	16.64	16.65	16.27
154	14.92	16.16	16.52	16.76	16.82	16.85	16.12
155	14.73	16.29	16.67	16.89	16.97	17.04	15.98
156	14.63	16.37	16.81	17.04	17.07	17.22	15.87
157	14.28	16.08	16.93	17.16	17.23	17.35	15.76
158	13.85	15.55	17.04	17.28	17.40	17.41	15.66
159	13.11	15.38	17.13	17.40	17.53	17.47	15.56
160	12.18	15.33	17.21	17.44	17.64	17.51	15.46
161	11.92	15.02	17.35	17.60	17.75	17.56	15.34
162	11.64	14.49	17.41	17.71	17.88	17.55	15.21
163	11.66	14.00	16.94	17.80	17.96	17.56	15.07
164	11.66	13.48	16.49	17.86	18.06	17.62	14.93
165	12.43	13.14	15.80	17.96	18.14	17.69	14.79
166	13.02	13.25	15.23	18.02	18.21	17.77	14.65
167	13.27	13.36	14.79	18.06	18.16	17.83	15.10
168	13.74	13.42	14.54	18.04	18.16	17.88	15.74
169	14.36	13.28	14.48	17.78	18.19	17.85	16.35
170	14.95	13.24	14.44	17.27	18.16	17.88	16.87
171	15.50	14.00	14.58	16.33	18.07	17.86	17.31
172	15.97	14.81	14.65	14.38	17.95	17.87	17.66
173	16.30	15.54	14.75	14.25	17.70	17.90	17.95
174	16.59	15.90	14.73	14.24	17.62	17.95	18.18
175	17.00	16.33	14.40	14.22	17.63	18.07	18.35
176	17.38	16.85	14.34	14.27	17.54	18.22	18.46
177	17.71	17.32	14.68	14.45	17.39	18.33	18.51
178	17.96	17.76	15.37	17.54	17.18	18.27	18.50
179	18.22	18.12	16.39	18.30	17.06	18.19	18.41
180	18.34	18.34	18.34	18.34	18.34	18.34	18.34

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	676.39	N.A.	10.80
0-30	1442.02	N.A.	23.10
0-40	2374.9	N.A.	38.00
0-60	4281.1	N.A.	68.50
0-80	5566.45	N.A.	89.10
0-90	5883.24	N.A.	94.20
10-90	5708.63	N.A.	91.40
20-40	1698.51	N.A.	27.20
20-50	2684.23	N.A.	43.00
40-70	2660.07	N.A.	42.60
60-80	1285.35	N.A.	20.60
70-80	531.48	N.A.	8.50
80-90	316.79	N.A.	5.10
90-110	262.35	N.A.	4.20
90-120	305.46	N.A.	4.90
90-130	326.50	N.A.	5.20
90-150	349.33	N.A.	5.60
90-180	363.50	N.A.	5.80
110-180	101.15	N.A.	1.60
0-180	6246.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.62
10-20	501.78
20-30	765.63
30-40	932.88
40-50	985.72
50-60	920.48
60-70	753.87
70-80	531.48
80-90	316.79
90-100	172.83
100-110	89.52
110-120	43.12
120-130	21.04
130-140	12.69
140-150	10.13
150-160	7.84
160-170	4.70
170-180	1.63

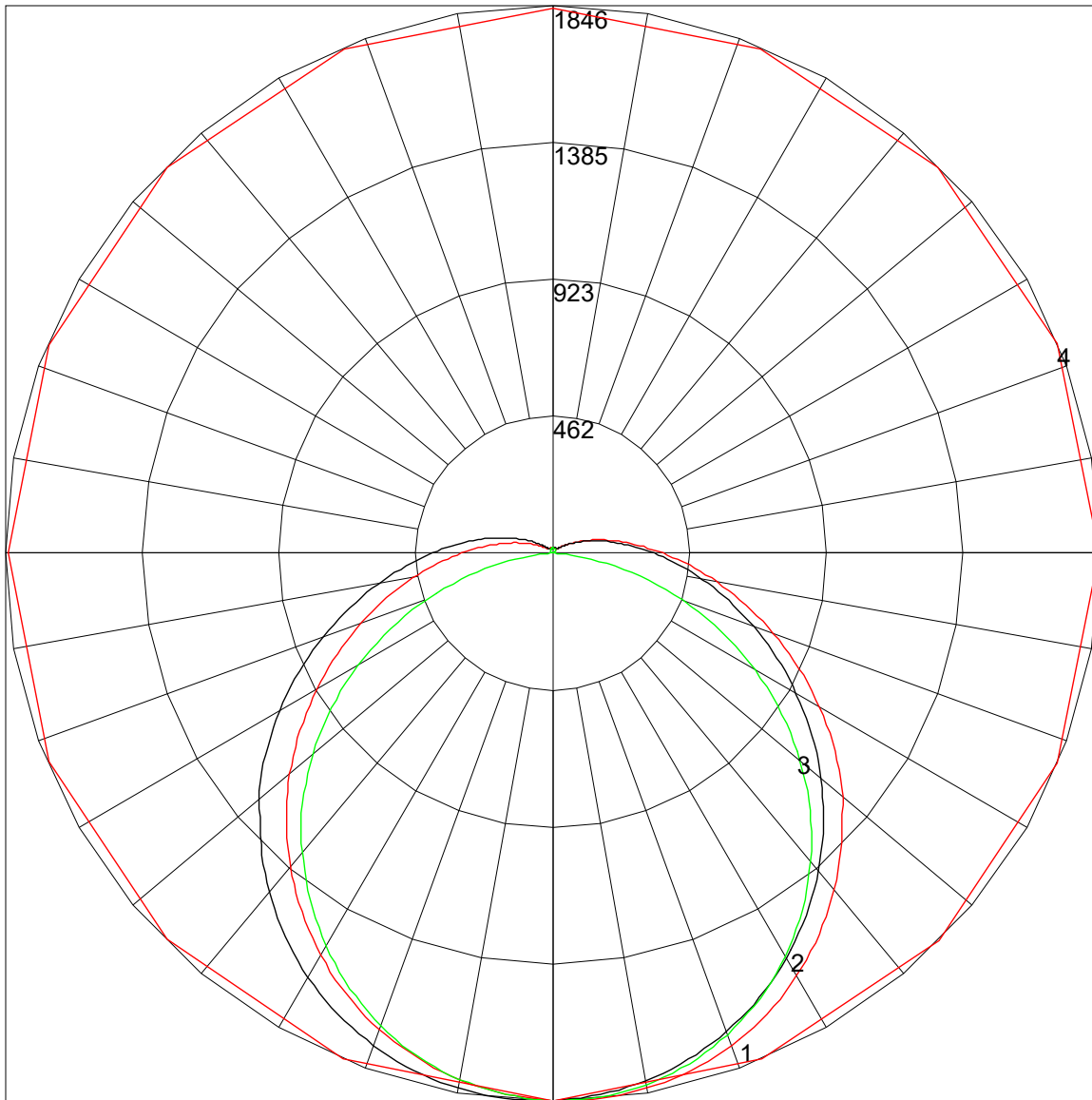
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	75
2	96	87	79	73	92	84	77	72	80	74	69	75	71	66	71	68	64	62
3	87	76	67	60	84	73	65	59	70	63	57	66	60	55	63	58	54	51
4	79	67	57	50	76	65	56	50	62	54	48	59	52	47	56	50	46	43
5	73	59	50	43	70	58	49	43	55	47	42	52	46	41	50	44	40	37
6	67	53	44	37	65	52	43	37	50	42	36	47	41	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	38	32	27	25
9	54	40	32	26	52	39	31	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	21

POLAR GRAPH



Maximum Candela = 1846.29 Located At Horizontal Angle = 292.5, Vertical Angle = 3
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 (3) (Through Max. Cd.)