



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LR16W-24G-5900-40K-A751-UNI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] G000632
 [TESTLAB] TBR TORONTO
 [ISSUE DATE] 11-18-2015
 [MANUFAC] MERCURY LIGHTING
 [MORE] FAIRFIELD, NEW JERSEY
 [LUMCAT] LR16W-24G-5900-40K-A751-UNI
 [LUMINAIRE] VISIONEERING 2X4 RECESSED T-BAR LED LUMINAIRE
 [MORE] POST-PAINTED WHITE INTERIOR AND PERFORATED BASKET WITH TRANSLUCENT ACRYLIC LENS INLAY
 [LAMP] 4X PHILIPS 2200lm LV3 840K
 [BALLAST] 1x 75W PHI Simpleset 2000mA/4 per Board

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	78.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2343	2750	3054
55	2010	2723	3083
65	1560	2611	2802
75	1165	1915	2328
85	652	1546	2145

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67
2.5	2102.95	2102.62	2102.36	2102.15	2102.01	2101.93	2101.92	2101.97	2101.98	2101.96
5.0	2093.21	2092.59	2092.14	2091.87	2091.77	2091.85	2092.10	2092.52	2093.02	2093.61
7.5	2077.31	2076.45	2076.02	2076.01	2076.44	2077.14	2078.17	2079.59	2081.15	2082.92
10.0	2056.36	2055.29	2054.93	2055.28	2056.35	2058.12	2060.21	2062.83	2065.75	2069.03
12.5	2029.60	2028.39	2028.32	2029.40	2031.40	2034.37	2038.14	2042.50	2047.38	2052.66
15.0	1997.55	1996.22	1996.47	1998.31	2001.69	2006.24	2012.07	2018.67	2025.93	2029.77
17.5	1959.92	1958.55	1959.40	1962.33	1967.09	1973.76	1981.95	1989.91	1993.93	1998.87
20.0	1917.16	1915.73	1917.13	1921.37	1928.20	1937.24	1946.46	1951.47	1958.02	1965.58
22.5	1868.97	1867.69	1870.02	1875.72	1884.70	1896.29	1902.29	1910.05	1919.40	1929.95
25.0	1816.38	1815.13	1818.27	1825.70	1837.06	1846.48	1854.68	1865.50	1878.43	1892.37
27.5	1758.35	1757.32	1761.75	1771.15	1784.92	1792.67	1804.02	1818.38	1835.04	1851.97
30.0	1696.00	1695.17	1700.73	1712.46	1724.56	1735.48	1750.41	1768.87	1787.64	1800.61
32.5	1628.89	1628.41	1635.59	1649.88	1660.83	1675.06	1694.01	1716.50	1731.00	1747.65
35.0	1557.71	1557.53	1566.13	1581.90	1593.54	1611.80	1635.26	1653.73	1672.51	1693.57
37.5	1482.28	1482.55	1492.93	1508.09	1523.36	1545.86	1569.57	1589.16	1612.51	1638.25
40.0	1402.99	1403.58	1415.71	1431.13	1450.29	1477.39	1498.83	1523.07	1551.21	1579.25
42.5	1319.34	1320.59	1335.24	1351.27	1374.63	1402.11	1425.96	1455.90	1487.45	1512.91
45.0	1232.36	1234.37	1251.43	1268.46	1296.79	1322.97	1352.35	1387.50	1416.30	1446.75
47.5	1142.33	1145.09	1162.68	1183.32	1215.46	1242.42	1277.72	1311.82	1345.07	1380.47
50.0	1049.39	1052.89	1071.05	1096.68	1128.35	1161.11	1200.26	1235.34	1274.09	1313.82
52.5	954.25	958.93	978.43	1008.90	1040.65	1079.82	1118.48	1159.72	1203.65	1237.36
55.0	857.47	863.45	884.91	919.96	953.44	996.35	1038.06	1084.91	1123.90	1161.69
57.5	760.50	767.80	791.74	827.33	867.22	911.27	959.20	1004.27	1045.48	1087.26
60.0	664.96	673.85	700.49	737.07	782.18	828.79	879.45	923.16	968.67	1007.91
62.5	573.87	583.62	612.70	650.67	697.14	749.58	796.54	844.48	886.50	913.29
65.0	490.32	500.65	530.99	569.24	617.03	668.62	717.06	763.06	792.27	820.77
67.5	415.34	425.72	454.36	492.83	542.74	589.62	639.60	670.32	700.98	730.48
70.0	346.43	357.34	384.78	422.26	467.18	515.90	550.00	581.83	607.80	610.32
72.5	283.30	294.25	320.38	357.67	396.64	433.60	465.19	485.81	487.27	488.40
75.0	224.22	235.11	257.69	292.02	326.72	354.42	370.82	370.54	369.68	368.66
77.5	170.55	176.98	199.14	230.91	255.49	267.48	263.49	259.18	267.75	287.21
80.0	121.82	121.36	142.98	166.85	179.16	171.52	167.36	186.76	203.83	218.51
82.5	78.16	74.12	90.42	103.85	97.66	104.78	118.66	131.37	142.22	151.52
85.0	42.28	36.71	45.65	47.83	56.87	65.48	72.99	82.18	91.31	100.27
87.5	14.25	17.12	18.95	22.41	27.48	32.84	37.94	42.88	47.72	52.46
90.0	1.62	2.07	2.37	2.44	2.64	3.09	3.61	4.15	4.61	5.02

Vert. Angles Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67
2.5	2101.98	2102.05	2102.17	2102.33	2102.37	2102.39	2102.44	2102.52	2102.63	2102.55
5.0	2094.36	2095.14	2095.87	2096.72	2097.27	2097.76	2098.18	2098.35	2098.60	2098.41
7.5	2084.72	2086.29	2087.96	2089.68	2091.24	2092.73	2093.58	2094.17	2094.56	2094.26
10.0	2072.34	2075.80	2079.27	2081.87	2084.48	2086.91	2088.83	2089.98	2090.52	2090.10
12.5	2058.00	2061.73	2063.83	2066.10	2067.80	2069.61	2071.35	2072.36	2072.82	2072.49
15.0	2033.04	2036.62	2040.30	2044.01	2047.65	2050.15	2052.75	2054.42	2055.12	2054.51
17.5	2004.33	2010.11	2015.77	2021.28	2026.42	2030.59	2034.24	2036.50	2037.41	2036.51
20.0	1973.67	1981.98	1990.25	1997.84	2004.83	2010.94	2015.29	2018.60	2019.71	2018.47
22.5	1941.26	1952.60	1963.61	1970.75	1976.12	1981.05	1984.77	1987.94	1988.83	1987.77
25.0	1907.11	1917.26	1925.61	1933.79	1941.18	1947.66	1952.80	1956.79	1957.95	1956.61
27.5	1862.52	1873.90	1885.30	1896.17	1905.96	1914.07	1920.85	1925.54	1927.07	1925.36
30.0	1814.86	1829.52	1844.18	1857.95	1870.27	1880.33	1888.94	1894.30	1896.19	1894.13

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CANDELA TABULATION - (Cont.)

32.5	1765.77	1784.53	1802.36	1819.32	1829.79	1838.55	1845.71	1850.64	1852.32	1850.33
35.0	1715.85	1738.42	1754.21	1768.56	1781.47	1792.11	1800.59	1806.54	1808.45	1806.05
37.5	1662.90	1681.78	1700.44	1717.64	1733.03	1745.74	1755.51	1762.44	1764.58	1761.75
40.0	1601.54	1624.25	1646.25	1666.50	1684.40	1699.12	1710.40	1718.17	1720.71	1717.35
42.5	1539.85	1566.37	1592.03	1615.42	1631.97	1644.74	1654.45	1661.23	1663.67	1660.41
45.0	1477.96	1508.68	1533.29	1553.16	1570.58	1585.17	1596.24	1603.75	1606.62	1602.94
47.5	1416.16	1442.31	1466.83	1489.53	1509.23	1525.75	1537.96	1546.30	1549.57	1545.50
50.0	1343.62	1372.94	1400.58	1425.99	1448.04	1466.21	1479.79	1488.88	1492.53	1488.10
52.5	1271.24	1304.07	1334.67	1362.77	1378.07	1388.54	1396.34	1401.71	1404.05	1400.70
55.0	1199.50	1235.74	1258.36	1274.27	1287.89	1299.27	1307.63	1313.26	1315.57	1311.94
57.5	1126.27	1146.97	1166.28	1183.49	1198.11	1210.18	1218.99	1224.85	1227.10	1223.19
60.0	1031.79	1054.30	1074.93	1093.27	1108.75	1121.36	1130.47	1136.47	1138.62	1134.47
62.5	938.85	962.84	984.56	1001.79	1004.15	1006.24	1007.83	1009.17	1009.86	1007.41
65.0	847.61	867.86	870.90	873.47	875.82	877.71	879.20	880.36	881.09	878.89
67.5	737.91	740.80	743.46	745.86	747.80	749.43	750.64	751.57	752.33	750.41
70.0	612.88	615.03	617.01	618.75	620.23	621.36	622.20	622.81	623.57	621.98
72.5	489.50	490.52	491.41	505.22	516.41	524.81	530.74	534.28	535.88	533.33
75.0	378.34	395.70	410.24	422.23	431.82	439.04	444.03	446.93	448.19	445.84
77.5	303.88	318.14	330.00	339.78	347.61	353.47	357.42	359.61	360.51	358.38
80.0	230.97	241.62	250.50	257.85	263.71	268.07	270.89	272.30	272.82	270.92
82.5	160.71	171.53	180.94	188.94	195.43	200.34	203.62	205.37	205.96	204.24
85.0	108.45	115.83	122.25	127.68	132.09	135.39	137.60	138.76	139.10	137.89
87.5	56.73	60.54	63.84	66.63	68.87	70.51	71.61	72.16	72.24	71.55
90.0	5.30	5.46	5.59	5.67	5.71	5.66	5.63	5.56	5.39	5.22

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67
2.5	2102.49	2102.47	2102.48	2102.46	2102.32	2102.22	2102.17	2102.15	2102.18	2102.19
5.0	2098.29	2097.93	2097.51	2097.02	2096.25	2095.59	2094.80	2094.01	2093.36	2092.87
7.5	2093.77	2093.05	2091.69	2090.21	2088.42	2086.84	2085.48	2083.90	2082.33	2080.89
10.0	2089.16	2087.43	2085.07	2082.47	2080.15	2077.09	2073.87	2070.67	2067.43	2064.54
12.5	2071.63	2070.05	2068.32	2067.03	2065.31	2063.49	2059.89	2054.61	2049.46	2044.66
15.0	2052.92	2050.43	2048.23	2045.13	2041.65	2038.18	2034.94	2032.02	2028.47	2021.33
17.5	2034.21	2030.81	2027.11	2022.16	2016.83	2011.50	2006.03	2001.00	1996.55	1993.02
20.0	2015.14	2011.05	2005.25	1998.38	1991.00	1983.02	1975.11	1967.46	1960.44	1954.55
22.5	1984.71	1981.29	1976.41	1970.97	1963.97	1953.22	1942.25	1931.58	1921.57	1912.89
25.0	1952.82	1948.05	1941.49	1934.16	1925.97	1917.61	1907.77	1893.52	1880.20	1868.14
27.5	1920.90	1914.51	1906.30	1896.66	1885.87	1874.59	1863.23	1852.61	1836.26	1820.64
30.0	1888.99	1880.81	1870.84	1858.67	1845.03	1830.44	1815.75	1801.44	1788.59	1770.39
32.5	1845.68	1838.75	1830.23	1820.22	1803.51	1785.53	1767.03	1748.92	1732.04	1717.34
35.0	1800.40	1791.87	1781.37	1768.99	1755.00	1739.90	1717.29	1694.98	1673.76	1654.87
37.5	1755.09	1745.05	1732.39	1717.40	1700.41	1682.53	1664.61	1640.04	1614.14	1590.55
40.0	1709.58	1698.04	1683.11	1665.47	1645.57	1624.11	1602.19	1580.83	1553.25	1524.97
42.5	1653.47	1643.41	1630.30	1613.54	1590.45	1565.38	1539.40	1513.69	1489.50	1457.99
45.0	1595.18	1583.63	1568.95	1551.11	1531.06	1506.35	1476.35	1446.05	1417.09	1390.20
47.5	1536.79	1524.07	1507.51	1487.39	1464.56	1439.65	1413.32	1378.55	1344.72	1313.13
50.0	1478.49	1464.45	1446.33	1423.87	1398.38	1370.32	1340.77	1310.72	1272.26	1235.38
52.5	1394.57	1386.28	1376.05	1360.54	1332.56	1301.38	1268.23	1234.27	1200.33	1158.03
55.0	1305.37	1296.29	1284.87	1271.01	1255.57	1233.03	1196.76	1158.78	1120.56	1081.57
57.5	1216.23	1206.49	1194.00	1179.00	1162.09	1143.25	1123.47	1084.40	1042.02	1000.29
60.0	1127.17	1116.92	1103.53	1087.52	1069.17	1048.84	1027.22	1004.69	965.41	919.37
62.5	1004.90	1002.01	998.63	994.92	977.20	955.59	932.47	907.79	882.24	840.53
65.0	876.80	874.25	871.24	867.79	863.79	859.23	839.11	812.82	785.80	758.87
67.5	748.79	746.80	744.21	741.50	737.89	734.02	729.41	720.27	692.29	663.45

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CANDELA TABULATION - (Cont.)

70.0	620.91	619.59	617.67	615.75	613.10	610.03	606.38	602.02	597.25	572.08
72.5	529.21	522.87	513.97	502.96	489.24	487.32	485.10	482.36	479.26	475.28
75.0	442.17	436.59	428.75	419.09	407.07	392.47	375.36	365.09	364.90	363.49
77.5	355.22	350.50	343.90	335.76	325.74	313.76	299.75	283.53	265.05	255.88
80.0	268.33	264.57	259.36	252.93	245.12	236.08	225.66	213.70	199.89	183.75
82.5	201.49	197.34	191.57	184.34	175.55	165.56	154.44	145.50	137.08	127.26
85.0	135.96	133.09	129.10	124.13	118.08	111.25	103.62	95.34	86.55	77.73
87.5	70.47	68.90	66.76	64.12	60.92	57.36	53.35	49.03	44.43	39.82
90.0	4.99	4.76	4.49	4.23	3.92	3.68	3.37	3.09	2.77	2.48

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0.0	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67
2.5	2102.16	2102.19	2102.28	2102.43	2102.64	2102.91	2103.23	2102.39	2101.62	2100.90
5.0	2092.56	2092.40	2092.40	2092.56	2092.88	2093.35	2093.98	2092.33	2090.84	2089.52
7.5	2079.52	2078.51	2077.83	2077.40	2077.39	2077.81	2078.64	2076.28	2074.34	2072.84
10.0	2061.91	2059.81	2058.06	2057.00	2056.62	2056.94	2057.96	2054.92	2052.59	2050.98
12.5	2040.29	2036.53	2033.56	2031.54	2030.44	2030.45	2031.58	2027.96	2025.47	2024.13
15.0	2014.82	2008.98	2004.39	2000.96	1999.06	1998.72	1999.95	1995.77	1993.17	1992.15
17.5	1985.18	1977.08	1970.34	1965.43	1962.40	1961.43	1962.64	1958.04	1955.64	1955.34
20.0	1950.07	1941.07	1932.00	1925.16	1920.78	1919.18	1920.37	1915.38	1913.18	1913.77
22.5	1905.96	1900.84	1889.07	1880.04	1874.17	1871.60	1872.64	1867.37	1865.72	1867.41
25.0	1858.16	1850.95	1842.00	1830.52	1822.94	1819.56	1820.48	1814.96	1813.79	1816.92
27.5	1807.16	1797.10	1790.49	1776.55	1766.88	1762.18	1762.84	1757.21	1756.99	1761.76
30.0	1753.15	1739.45	1730.19	1718.69	1706.52	1700.53	1700.95	1695.22	1695.93	1702.82
32.5	1696.13	1678.77	1665.95	1656.37	1642.00	1634.47	1634.51	1628.89	1630.80	1639.50
35.0	1636.60	1614.77	1598.61	1588.97	1572.98	1563.91	1563.52	1558.08	1561.33	1571.51
37.5	1570.86	1548.20	1527.90	1515.04	1500.36	1489.39	1488.45	1483.23	1488.05	1496.97
40.0	1500.21	1478.98	1454.21	1437.89	1423.85	1410.69	1409.36	1404.47	1411.27	1419.04
42.5	1427.87	1403.66	1377.77	1357.34	1343.88	1328.38	1326.07	1322.00	1331.02	1338.20
45.0	1354.56	1324.55	1299.21	1273.80	1260.45	1242.39	1239.45	1235.93	1247.44	1254.38
47.5	1280.08	1244.70	1216.63	1188.02	1171.14	1153.17	1149.38	1146.78	1158.16	1168.50
50.0	1202.70	1163.45	1129.97	1100.20	1079.41	1061.37	1056.43	1054.90	1066.52	1080.77
52.5	1119.15	1082.43	1042.62	1011.10	985.66	967.59	961.28	961.38	973.00	991.83
55.0	1037.16	998.43	955.35	920.88	890.77	872.17	864.66	866.15	878.52	901.84
57.5	955.77	911.01	869.45	828.35	796.17	776.17	767.21	770.32	784.11	809.74
60.0	874.73	826.33	783.44	737.48	703.20	681.69	670.88	676.04	691.43	719.35
62.5	791.68	744.39	695.27	650.37	613.65	590.90	579.05	585.60	602.24	632.67
65.0	712.57	662.41	612.16	568.06	529.15	506.65	494.73	501.10	518.45	551.36
67.5	634.83	583.05	534.25	488.48	450.49	429.64	419.55	424.62	441.65	473.40
70.0	542.30	509.38	458.14	414.01	379.01	358.11	349.91	355.18	373.20	402.26
72.5	454.64	425.20	388.40	346.55	312.75	289.87	285.38	290.91	310.92	338.57
75.0	360.63	343.62	318.40	281.64	247.70	225.72	225.42	231.70	251.43	277.31
77.5	257.58	257.56	244.81	222.45	187.14	165.54	168.71	177.51	195.88	221.49
80.0	165.13	166.49	169.62	156.32	131.66	112.05	118.43	128.06	142.92	155.89
82.5	115.44	101.96	93.69	94.95	81.21	65.62	72.15	82.81	92.17	95.92
85.0	68.91	62.09	53.89	44.64	39.18	29.43	35.05	42.86	45.61	46.45
87.5	35.19	30.29	25.16	19.97	16.02	13.96	9.62	16.34	17.24	19.84
90.0	2.18	1.94	1.68	1.43	1.28	1.28	1.40	2.99	3.13	3.26

Vert. Angles **Horizontal Angles**

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0.0	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67
2.5	2100.26	2099.70	2099.21	2098.81	2098.39	2097.98	2097.65	2097.39	2097.21	2097.11

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CANDELA TABULATION - (Cont.)

5.0	2088.39	2087.44	2086.69	2086.14	2085.82	2085.70	2085.80	2085.95	2086.05	2086.32
7.5	2071.80	2071.05	2070.68	2070.73	2070.96	2071.43	2072.00	2072.42	2073.17	2074.23
10.0	2050.10	2049.94	2050.24	2051.17	2052.40	2054.04	2055.80	2057.78	2059.83	2061.21
12.5	2023.75	2024.38	2025.88	2028.06	2030.77	2033.97	2037.57	2039.48	2039.90	2040.58
15.0	1992.69	1994.50	1997.68	2001.62	2006.31	2007.63	2008.47	2009.89	2011.67	2013.64
17.5	1956.95	1960.45	1965.44	1970.22	1971.07	1973.02	1975.71	1978.91	1982.32	1985.87
20.0	1916.88	1922.28	1927.87	1929.08	1931.83	1935.90	1940.86	1946.32	1951.92	1957.36
22.5	1872.30	1880.11	1881.47	1884.75	1890.07	1896.61	1904.17	1912.30	1920.55	1925.51
25.0	1823.78	1828.34	1831.47	1837.46	1845.72	1855.36	1865.95	1873.10	1879.13	1885.18
27.5	1770.84	1772.84	1778.47	1787.57	1798.86	1811.34	1818.85	1827.10	1835.83	1844.29
30.0	1709.15	1713.62	1722.47	1734.87	1748.73	1757.91	1768.81	1780.34	1791.80	1802.89
32.5	1643.79	1651.44	1663.64	1679.78	1690.19	1703.36	1717.61	1732.58	1747.29	1761.11
35.0	1575.52	1585.97	1602.41	1615.94	1630.33	1647.20	1665.66	1684.18	1696.98	1708.71
37.5	1503.84	1518.29	1535.32	1550.34	1569.10	1590.16	1610.82	1626.20	1641.50	1656.10
40.0	1429.42	1448.02	1463.84	1483.38	1506.72	1529.69	1548.03	1567.18	1585.76	1603.25
42.5	1352.29	1372.01	1390.77	1415.29	1441.64	1462.57	1484.96	1507.75	1529.88	1550.24
45.0	1273.06	1292.44	1316.76	1346.29	1369.64	1394.93	1421.61	1448.28	1469.33	1485.82
47.5	1190.42	1212.15	1241.51	1269.79	1297.15	1327.25	1358.20	1380.40	1400.99	1420.08
50.0	1103.83	1130.77	1163.69	1192.43	1224.89	1259.35	1284.38	1309.29	1332.92	1354.49
52.5	1016.53	1049.66	1081.11	1115.23	1153.04	1181.55	1210.41	1238.70	1265.13	1289.14
55.0	929.34	965.79	999.59	1039.19	1072.52	1104.86	1137.31	1168.80	1183.52	1191.20
57.5	843.44	879.37	919.21	957.49	992.98	1029.36	1061.99	1072.09	1081.43	1090.06
60.0	758.02	795.55	838.35	875.81	915.44	946.61	958.09	969.35	979.96	989.57
62.5	671.48	714.45	754.75	796.34	829.33	842.66	855.52	867.88	879.36	889.27
65.0	589.47	632.72	674.80	712.10	726.28	740.56	754.49	766.53	773.59	779.59
67.5	513.05	553.63	596.08	610.96	626.02	640.98	650.49	658.41	665.01	670.67
70.0	438.57	480.40	499.10	513.85	527.84	536.91	544.53	551.53	557.43	562.39
72.5	370.99	394.21	407.30	419.01	426.93	434.17	440.40	445.92	450.69	461.49
75.0	302.11	310.41	318.66	324.44	329.43	333.66	343.78	357.11	368.01	376.69
77.5	227.84	230.94	232.37	233.69	242.33	256.69	268.72	278.37	286.18	292.39
80.0	157.79	154.38	154.16	167.63	178.93	188.01	195.15	200.70	205.10	208.59
82.5	91.54	96.75	105.58	112.83	117.79	120.97	125.19	133.33	140.81	147.40
85.0	52.23	56.73	59.85	66.34	72.49	78.53	84.37	89.88	94.94	99.40
87.5	23.89	27.75	31.41	34.78	37.93	41.00	43.97	46.75	49.31	51.56
90.0	3.34	3.40	3.52	3.63	3.70	3.75	3.79	3.79	3.79	3.80

Vert. Angles **Horizontal Angles**

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67
2.5	2096.93	2096.76	2096.67	2096.65	2096.70	2096.61	2096.60	2096.66	2096.80	2096.95
5.0	2086.42	2086.54	2086.67	2086.63	2086.73	2086.54	2086.50	2086.29	2086.11	2085.95
7.5	2075.09	2075.94	2076.35	2076.61	2076.77	2076.45	2076.05	2075.52	2074.49	2073.55
10.0	2062.99	2064.67	2065.91	2066.59	2066.80	2066.35	2065.45	2063.96	2062.22	2060.42
12.5	2040.95	2041.91	2042.87	2043.36	2043.47	2043.09	2042.33	2041.16	2040.19	2039.12
15.0	2015.65	2016.90	2018.69	2019.78	2020.13	2019.50	2018.11	2016.42	2014.42	2011.92
17.5	1989.32	1991.93	1994.53	1996.20	1996.80	1995.91	1993.93	1991.27	1987.88	1984.06
20.0	1962.40	1966.87	1969.94	1972.62	1973.47	1972.33	1969.57	1965.92	1960.96	1955.49
22.5	1929.32	1932.86	1935.27	1937.77	1938.44	1937.41	1934.92	1931.59	1927.70	1923.44
25.0	1890.78	1895.82	1899.34	1902.49	1903.41	1902.05	1898.75	1894.16	1888.76	1882.57
27.5	1851.90	1858.58	1863.46	1867.13	1868.38	1866.58	1862.44	1856.57	1849.40	1841.08
30.0	1812.77	1821.08	1827.62	1831.79	1833.35	1831.12	1826.19	1818.78	1809.65	1799.04
32.5	1769.41	1776.64	1782.39	1786.16	1787.67	1785.47	1780.81	1774.34	1765.88	1756.46
35.0	1719.31	1728.23	1735.53	1740.12	1741.98	1739.44	1733.88	1725.94	1715.81	1704.09
37.5	1669.05	1679.92	1688.63	1694.05	1696.29	1693.41	1686.97	1677.66	1665.69	1651.49
40.0	1618.65	1631.54	1641.52	1647.87	1650.60	1647.36	1640.00	1629.19	1615.22	1598.51

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CANDELA TABULATION - (Cont.)

42.5	1564.26	1574.91	1582.96	1588.27	1590.71	1587.74	1581.38	1572.32	1560.74	1545.58
45.0	1500.52	1512.67	1522.07	1528.09	1530.82	1527.53	1520.33	1509.83	1496.59	1480.74
47.5	1436.83	1450.63	1461.10	1467.94	1470.93	1467.35	1459.21	1447.54	1432.44	1414.45
50.0	1373.32	1388.54	1400.23	1407.83	1411.04	1407.18	1398.19	1385.15	1368.45	1348.29
52.5	1298.56	1303.50	1307.54	1310.44	1312.14	1309.89	1305.58	1300.04	1293.35	1282.18
55.0	1197.97	1203.72	1208.25	1211.41	1213.24	1210.88	1206.35	1200.40	1192.93	1184.36
57.5	1097.76	1104.12	1109.04	1112.40	1114.34	1111.89	1107.19	1100.96	1092.89	1083.62
60.0	997.92	1004.75	1009.95	1013.41	1015.44	1012.95	1008.16	1001.81	993.28	983.38
62.5	894.23	898.32	901.50	903.61	905.15	903.14	899.80	895.46	889.87	883.27
65.0	784.58	788.45	791.47	793.42	794.86	792.95	789.87	785.61	780.38	773.86
67.5	675.32	678.85	681.52	683.26	684.57	682.81	680.03	676.07	671.19	665.18
70.0	566.46	569.46	571.69	573.13	574.27	572.70	570.30	566.77	562.43	557.17
72.5	469.92	476.06	480.45	483.07	484.55	482.72	479.20	473.65	466.21	456.72
75.0	383.38	388.23	391.63	393.60	394.83	393.36	390.55	386.16	380.23	372.69
77.5	297.21	300.61	302.90	304.16	305.12	304.03	302.01	298.87	294.65	289.20
80.0	211.34	213.15	214.23	214.73	215.40	214.72	213.55	211.75	209.38	206.22
82.5	152.94	157.10	159.94	161.55	162.47	161.54	159.40	156.01	151.45	145.67
85.0	103.14	105.94	107.85	108.93	109.54	108.91	107.47	105.18	102.11	98.22
87.5	53.44	54.84	55.79	56.31	56.60	56.29	55.56	54.41	52.87	50.93
90.0	3.80	3.77	3.73	3.69	3.67	3.67	3.67	3.67	3.68	3.72

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0.0	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67	2106.67
2.5	2097.03	2097.19	2097.44	2097.76	2098.16	2098.57	2098.95	2099.42	2099.98	2100.61
5.0	2085.58	2085.41	2085.27	2085.25	2085.43	2085.75	2086.17	2086.82	2087.69	2088.77
7.5	2072.61	2071.73	2070.98	2070.20	2069.60	2069.28	2069.19	2069.55	2070.30	2071.37
10.0	2058.50	2056.17	2053.99	2052.10	2050.35	2049.09	2048.25	2048.03	2048.20	2049.12
12.5	2038.01	2037.25	2035.05	2031.54	2028.24	2025.44	2023.21	2021.73	2021.16	2021.64
15.0	2009.58	2007.51	2005.81	2004.54	2002.85	1998.03	1994.01	1991.01	1989.40	1989.01
17.5	1980.14	1976.34	1972.65	1969.43	1967.01	1965.89	1961.01	1955.91	1952.65	1951.43
20.0	1949.59	1943.48	1937.41	1932.00	1927.46	1923.98	1922.45	1916.95	1911.71	1908.89
22.5	1918.10	1909.20	1900.50	1892.25	1885.19	1879.32	1875.33	1873.39	1866.22	1861.71
25.0	1876.04	1869.51	1861.93	1850.74	1840.33	1831.48	1824.90	1821.13	1816.51	1810.24
27.5	1831.98	1822.81	1814.10	1806.18	1793.27	1781.07	1771.42	1764.94	1762.36	1754.15
30.0	1787.26	1775.04	1763.01	1751.95	1742.48	1728.25	1714.89	1705.48	1700.40	1693.95
32.5	1741.78	1726.37	1710.95	1696.16	1683.16	1672.56	1655.88	1642.70	1634.59	1629.89
35.0	1690.97	1676.95	1657.67	1639.21	1622.09	1607.83	1594.15	1577.16	1565.56	1560.80
37.5	1635.46	1618.82	1602.27	1580.94	1559.71	1540.98	1526.39	1508.97	1493.47	1485.68
40.0	1579.81	1559.75	1539.40	1519.78	1495.99	1472.83	1453.84	1438.42	1418.91	1407.45
42.5	1523.94	1500.59	1476.38	1452.40	1430.18	1403.50	1379.52	1361.47	1341.60	1326.37
45.0	1463.27	1441.42	1413.31	1385.05	1358.03	1333.27	1304.17	1281.14	1262.12	1242.51
47.5	1394.25	1372.77	1350.16	1317.58	1286.01	1256.75	1227.67	1199.35	1179.33	1156.17
50.0	1325.47	1300.87	1275.30	1249.94	1213.95	1179.56	1149.12	1116.77	1091.27	1068.58
52.5	1257.06	1229.45	1200.67	1171.38	1142.64	1103.14	1067.00	1034.11	1002.90	979.71
55.0	1175.24	1158.75	1126.61	1093.62	1061.07	1027.45	985.80	949.72	914.85	889.75
57.5	1073.30	1062.06	1050.42	1017.12	980.68	945.53	906.41	864.56	827.57	796.74
60.0	972.26	960.13	947.11	933.80	901.83	862.60	825.70	781.56	741.64	705.75
62.5	872.20	859.28	845.39	830.69	815.87	782.40	741.52	701.74	656.36	618.69
65.0	766.83	758.44	745.29	730.05	714.14	697.84	660.68	619.90	576.24	536.60
67.5	658.58	650.76	642.12	631.71	615.34	598.63	581.67	540.51	501.84	460.42
70.0	551.30	544.36	536.78	528.39	518.81	503.95	487.14	466.94	427.55	391.14
72.5	444.78	439.29	433.13	426.50	418.99	410.91	398.13	383.16	359.59	329.32
75.0	363.04	351.48	337.37	326.86	322.23	317.11	311.55	302.79	291.84	268.14
77.5	282.31	274.00	263.77	251.25	236.14	227.35	226.07	225.23	220.82	211.51

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CANDELA TABULATION - (Cont.)

80.0	202.36	197.61	191.67	184.09	174.44	162.78	148.71	149.36	153.01	149.67
82.5	138.95	131.34	123.12	118.60	114.98	109.67	102.02	92.95	87.65	92.77
85.0	93.68	88.52	82.96	77.02	70.82	64.64	58.07	54.74	50.18	44.72
87.5	48.64	46.04	43.24	40.24	37.09	33.92	30.52	26.91	23.28	19.67
90.0	3.72	3.72	3.72	3.72	3.69	3.61	3.53	3.40	3.34	3.27

Vert. Horizontal Angles

	350	355	360
0.0	2106.67	2106.67	2106.67
2.5	2101.33	2102.11	2102.95
5.0	2090.06	2091.55	2093.21
7.5	2072.90	2074.89	2077.31
10.0	2050.80	2053.22	2056.36
12.5	2023.11	2025.77	2029.60
15.0	1990.24	1993.09	1997.55
17.5	1952.10	1954.89	1959.92
20.0	1908.75	1911.53	1917.16
22.5	1860.61	1862.96	1868.97
25.0	1807.84	1809.88	1816.38
27.5	1750.37	1751.63	1758.35
30.0	1688.35	1688.98	1696.00
32.5	1622.25	1621.74	1628.89
35.0	1551.95	1550.39	1557.71
37.5	1477.91	1475.02	1482.28
40.0	1400.01	1395.72	1402.99
42.5	1318.57	1312.33	1319.34
45.0	1234.25	1225.75	1232.36
47.5	1144.75	1136.19	1142.33
50.0	1052.36	1043.81	1049.39
52.5	959.37	949.39	954.25
55.0	865.03	853.78	857.47
57.5	771.28	757.82	760.50
60.0	679.45	663.76	664.96
62.5	591.19	573.47	573.87
65.0	508.72	490.14	490.32
67.5	431.99	414.93	415.34
70.0	362.72	346.46	346.43
72.5	299.82	283.62	283.30
75.0	241.88	225.88	224.22
77.5	188.87	172.77	170.55
80.0	137.34	123.47	121.82
82.5	88.22	80.06	78.16
85.0	44.98	42.74	42.28
87.5	17.51	17.34	14.25
90.0	3.15	3.03	1.62

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	767.80	N.A.	13.00
0-30	1630.92	N.A.	27.50
0-40	2674.55	N.A.	45.10
0-60	4741.67	N.A.	80.00
0-80	5828.53	N.A.	98.30
0-90	5926.55	N.A.	100.00
10-90	5727.81	N.A.	96.60
20-40	1906.75	N.A.	32.20
20-50	2994.5	N.A.	50.50
40-70	2782.19	N.A.	46.90
60-80	1086.86	N.A.	18.30
70-80	371.79	N.A.	6.30
80-90	98.03	N.A.	1.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5926.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.75
10-20	569.05
20-30	863.13
30-40	1043.63
40-50	1087.75
50-60	979.37
60-70	715.07
70-80	371.79
80-90	98.03
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

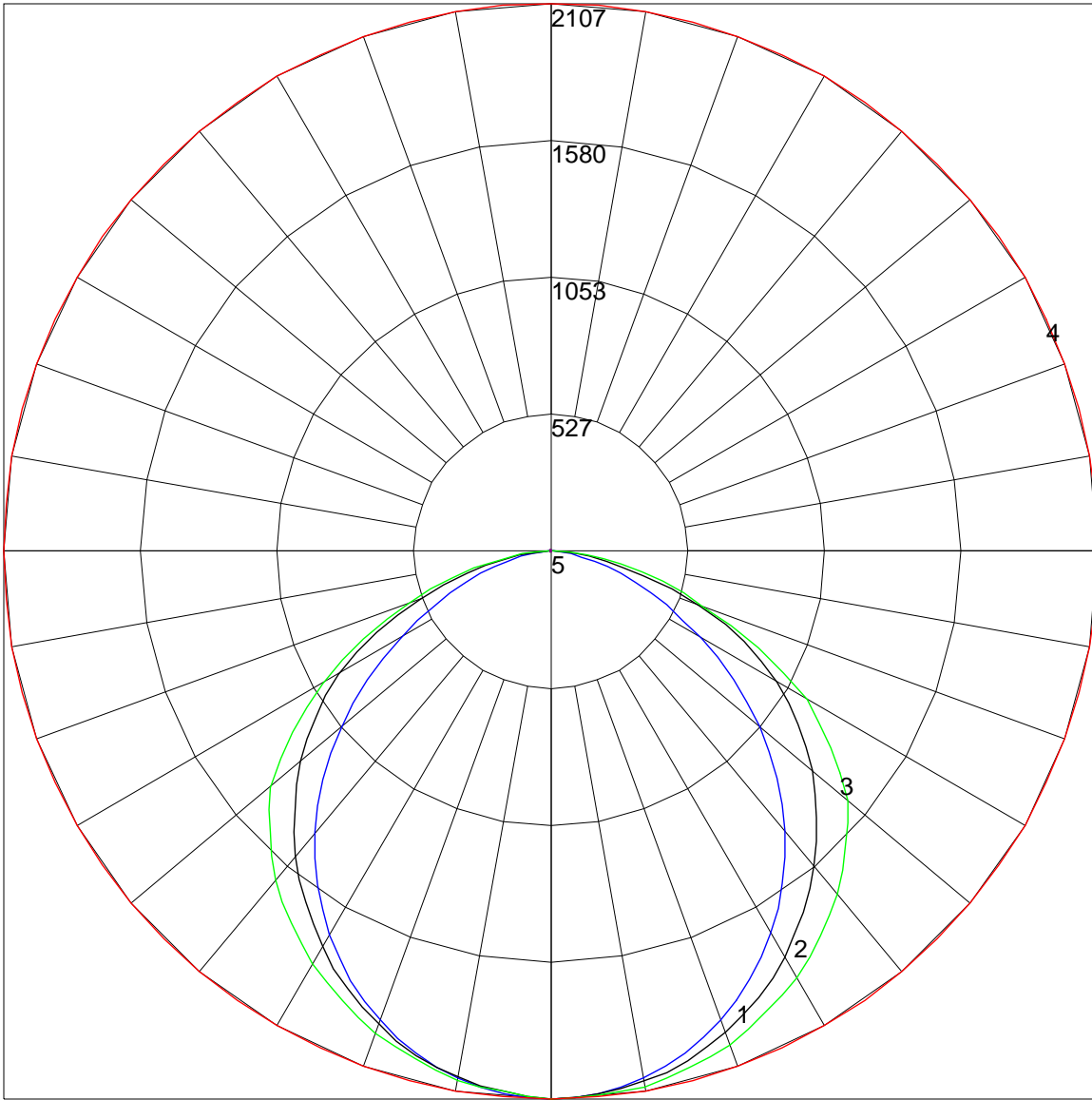
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	63	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



- Maximum Candela = 2106.67 Located At Horizontal Angle = 0, Vertical Angle = 0
- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 - # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
 - # 3 - Vertical Plane Through Horizontal Angles (90 - 270)
 - # 4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
 - # 5 - Horizontal Cone Through Vertical Angle (90)