

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 14K 360P-4-UD-835-U10-WA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 13551818.06  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 11/4/2020  
 [MANUFAC] Lux Dynamics  
 [LUMCAT] 360P-4-UD-835-xxx-xx-WA (modified from 2' IES file)  
 [LUMINAIRE] Gray cylindrical metal housing with diffuse plastic lens  
 [LAMP] White LEDs  
 [BALLAST] One (1) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB  
 [OTHER] 24.4 C, 277.005 V, 0.193734 A, 51.0028 W, 0.950387 PF, 59.9697  
 [MORE] Hz  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14593
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	102.006
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.38 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12753	8990	8835
55	11248	7556	7623
65	9442	6225	6681
75	6800	5235	6150
85	2650	4814	6015

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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>
<b>0.0</b>	2294.0	2294.0	2294.0	2294.0	2294.0
<b>0.5</b>	2286.0	2292.0	2294.0	2298.0	2302.0
<b>1.0</b>	2284.0	2290.0	2294.0	2298.0	2300.0
<b>1.5</b>	2284.0	2290.0	2294.0	2296.0	2300.0
<b>2.0</b>	2284.0	2290.0	2290.0	2294.0	2298.0
<b>2.5</b>	2282.0	2288.0	2290.0	2292.0	2296.0
<b>3.0</b>	2280.0	2286.0	2286.0	2290.0	2294.0
<b>3.5</b>	2278.0	2284.0	2284.0	2288.0	2292.0
<b>4.0</b>	2278.0	2280.0	2282.0	2284.0	2290.0
<b>4.5</b>	2274.0	2278.0	2278.0	2282.0	2286.0
<b>5.0</b>	2272.0	2276.0	2276.0	2280.0	2284.0
<b>5.5</b>	2268.0	2272.0	2272.0	2278.0	2282.0
<b>6.0</b>	2266.0	2268.0	2270.0	2274.0	2278.0
<b>6.5</b>	2262.0	2264.0	2266.0	2272.0	2276.0
<b>7.0</b>	2258.0	2260.0	2262.0	2268.0	2272.0
<b>7.5</b>	2254.0	2256.0	2260.0	2264.0	2268.0
<b>8.0</b>	2250.0	2252.0	2254.0	2262.0	2264.0
<b>8.5</b>	2246.0	2248.0	2250.0	2258.0	2260.0
<b>9.0</b>	2242.0	2242.0	2246.0	2252.0	2256.0
<b>9.5</b>	2236.0	2238.0	2242.0	2248.0	2252.0
<b>10.0</b>	2232.0	2232.0	2236.0	2242.0	2248.0
<b>10.5</b>	2226.0	2226.0	2232.0	2238.0	2244.0
<b>11.0</b>	2220.0	2220.0	2226.0	2234.0	2240.0
<b>11.5</b>	2214.0	2214.0	2220.0	2230.0	2236.0
<b>12.0</b>	2208.0	2208.0	2214.0	2224.0	2232.0
<b>12.5</b>	2200.0	2202.0	2208.0	2220.0	2226.0
<b>13.0</b>	2194.0	2194.0	2202.0	2216.0	2222.0
<b>13.5</b>	2186.0	2188.0	2194.0	2210.0	2218.0
<b>14.0</b>	2180.0	2180.0	2188.0	2206.0	2216.0
<b>14.5</b>	2170.0	2172.0	2182.0	2200.0	2212.0
<b>15.0</b>	2162.0	2164.0	2174.0	2196.0	2206.0
<b>15.5</b>	2154.0	2156.0	2168.0	2192.0	2202.0
<b>16.0</b>	2146.0	2148.0	2160.0	2186.0	2196.0
<b>16.5</b>	2136.0	2138.0	2152.0	2180.0	2190.0
<b>17.0</b>	2126.0	2130.0	2146.0	2176.0	2186.0
<b>17.5</b>	2118.0	2120.0	2138.0	2170.0	2180.0
<b>18.0</b>	2108.0	2110.0	2130.0	2162.0	2174.0
<b>18.5</b>	2098.0	2102.0	2122.0	2156.0	2168.0
<b>19.0</b>	2088.0	2092.0	2114.0	2150.0	2164.0
<b>19.5</b>	2078.0	2080.0	2106.0	2144.0	2156.0
<b>20.0</b>	2068.0	2070.0	2098.0	2138.0	2152.0
<b>20.5</b>	2058.0	2060.0	2090.0	2130.0	2146.0
<b>21.0</b>	2046.0	2050.0	2082.0	2124.0	2138.0
<b>21.5</b>	2036.0	2038.0	2074.0	2116.0	2132.0
<b>22.0</b>	2024.0	2028.0	2064.0	2110.0	2126.0
<b>22.5</b>	2012.0	2014.0	2056.0	2102.0	2118.0
<b>23.0</b>	2000.0	2004.0	2046.0	2094.0	2112.0
<b>23.5</b>	1988.2	1991.4	2038.0	2086.0	2104.0
<b>24.0</b>	1975.4	1979.0	2028.0	2078.0	2096.0
<b>24.5</b>	1963.0	1966.6	2020.0	2070.0	2088.0
<b>25.0</b>	1949.6	1954.2	2010.0	2062.0	2080.0
<b>25.5</b>	1936.4	1941.6	1999.6	2054.0	2072.0
<b>26.0</b>	1923.2	1928.6	1989.6	2044.0	2064.0
<b>26.5</b>	1909.6	1915.4	1979.6	2036.0	2056.0

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**CANDELA TABULATION - (Cont.)**

27.0	1894.6	1902.6	1969.4	2026.0	2046.0
27.5	1881.4	1889.4	1958.4	2016.0	2038.0
28.0	1867.2	1876.2	1948.2	2006.0	2030.0
28.5	1853.2	1863.4	1937.0	1997.2	2020.0
29.0	1838.0	1850.0	1926.2	1987.2	2012.0
29.5	1823.8	1836.4	1915.4	1977.4	2002.0
30.0	1810.2	1823.6	1903.0	1967.6	1993.0
30.5	1795.2	1809.6	1891.8	1957.2	1983.4
31.0	1781.0	1796.0	1880.0	1946.8	1974.2
31.5	1765.6	1782.4	1868.2	1937.2	1964.4
32.0	1751.8	1768.6	1856.0	1926.6	1955.2
32.5	1736.4	1755.4	1843.2	1916.4	1945.6
33.0	1721.0	1741.4	1831.0	1905.8	1936.0
33.5	1706.4	1727.0	1818.4	1895.0	1925.8
34.0	1691.0	1712.8	1805.6	1884.6	1915.0
34.5	1675.6	1699.4	1792.8	1873.6	1905.0
35.0	1659.6	1685.0	1780.2	1862.4	1894.4
35.5	1643.6	1670.2	1767.8	1850.8	1884.2
36.0	1628.4	1655.2	1754.4	1839.4	1872.8
36.5	1611.4	1640.2	1741.2	1828.0	1862.6
37.0	1595.6	1625.6	1728.2	1816.6	1850.8
37.5	1579.2	1610.4	1714.6	1805.2	1840.8
38.0	1562.4	1595.6	1701.2	1793.8	1830.0
38.5	1545.4	1580.6	1687.8	1782.0	1819.2
39.0	1528.2	1564.2	1674.4	1769.8	1808.0
39.5	1512.2	1549.2	1661.2	1758.4	1796.0
40.0	1495.4	1533.6	1647.4	1746.4	1785.0
40.5	1479.0	1519.0	1634.4	1734.6	1773.2
41.0	1460.6	1503.2	1620.8	1722.0	1761.8
41.5	1442.4	1488.0	1606.8	1709.8	1749.6
42.0	1427.0	1472.4	1593.2	1697.6	1738.2
42.5	1408.8	1456.8	1579.2	1685.6	1727.0
43.0	1393.4	1441.6	1565.4	1672.4	1715.6
43.5	1374.4	1426.2	1551.4	1660.4	1704.2
44.0	1358.6	1410.2	1537.8	1647.4	1693.6
44.5	1341.0	1395.6	1523.4	1634.8	1681.6
45.0	1323.6	1380.0	1509.6	1622.8	1670.4
45.5	1306.6	1364.0	1494.6	1610.4	1658.0
46.0	1289.0	1349.0	1478.8	1599.0	1646.4
46.5	1271.6	1333.8	1465.8	1587.2	1634.8
47.0	1254.6	1317.4	1452.0	1574.8	1622.2
47.5	1237.6	1301.6	1436.6	1562.2	1609.8
48.0	1220.0	1286.2	1420.4	1549.4	1597.6
48.5	1203.0	1270.2	1407.2	1536.2	1584.8
49.0	1185.8	1254.6	1392.2	1523.0	1572.0
49.5	1168.6	1238.6	1377.2	1510.0	1559.8
50.0	1151.8	1222.6	1363.2	1497.6	1546.6
50.5	1135.0	1206.8	1348.6	1483.4	1534.4
51.0	1117.6	1190.6	1334.4	1471.6	1520.0
51.5	1100.6	1174.6	1319.8	1458.6	1508.4
52.0	1083.8	1158.6	1305.8	1445.2	1495.0
52.5	1067.0	1142.4	1291.2	1431.8	1483.2
53.0	1050.0	1126.2	1277.4	1418.6	1469.2
53.5	1033.2	1110.2	1263.4	1403.8	1457.0
54.0	1016.2	1094.0	1249.6	1390.6	1444.4
54.5	1000.4	1077.8	1235.6	1378.8	1432.6

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55.0	983.0	1062.0	1221.8	1364.6	1419.4
55.5	966.6	1046.0	1207.6	1351.2	1406.6
56.0	949.6	1029.8	1193.6	1338.0	1393.6
56.5	933.0	1013.8	1179.8	1324.4	1382.4
57.0	916.2	997.8	1165.4	1311.8	1368.4
57.5	899.4	982.2	1151.0	1298.8	1358.8
58.0	883.4	966.6	1136.8	1285.6	1346.0
58.5	866.8	950.4	1122.4	1272.4	1333.2
59.0	849.8	934.2	1108.2	1259.6	1321.0
59.5	833.4	918.4	1094.0	1246.8	1308.8
60.0	816.6	902.4	1079.2	1233.8	1296.6
60.5	799.8	886.8	1064.6	1221.2	1285.0
61.0	783.0	871.0	1050.8	1208.4	1273.2
61.5	765.8	855.4	1036.2	1196.2	1261.2
62.0	749.4	839.6	1021.8	1184.0	1249.8
62.5	732.0	824.4	1007.4	1171.4	1239.2
63.0	714.4	808.4	993.4	1159.6	1228.8
63.5	697.6	792.8	979.2	1147.8	1217.8
64.0	680.2	777.0	965.0	1136.4	1207.8
64.5	663.0	761.4	951.0	1125.4	1197.2
65.0	645.4	745.6	937.2	1114.0	1187.0
65.5	628.4	730.0	923.6	1103.4	1177.2
66.0	611.2	714.6	909.8	1092.6	1167.2
66.5	594.4	699.6	896.6	1082.2	1157.2
67.0	577.6	684.4	883.4	1072.2	1147.6
67.5	560.2	669.4	870.4	1062.0	1138.0
68.0	543.6	654.2	857.2	1051.8	1128.4
68.5	526.8	638.8	844.8	1041.8	1119.2
69.0	510.4	623.8	833.0	1032.2	1110.6
69.5	494.0	609.0	820.6	1022.8	1100.8
70.0	477.8	594.4	809.0	1013.8	1092.0
70.5	461.6	579.8	797.4	1004.2	1083.0
71.0	445.6	565.4	786.8	995.0	1074.0
71.5	430.2	551.0	776.0	986.2	1065.0
72.0	414.4	537.2	765.6	977.4	1056.6
72.5	398.8	523.0	754.8	968.4	1048.2
73.0	383.2	508.8	744.6	959.8	1039.8
73.5	367.8	495.2	734.8	951.2	1031.4
74.0	352.0	481.6	724.8	942.8	1023.4
74.5	336.4	468.0	715.4	934.6	1015.2
75.0	321.2	454.8	706.0	926.2	1007.0
75.5	306.2	441.8	696.4	918.2	999.4
76.0	291.4	428.8	687.2	910.4	992.0
76.5	276.0	416.0	678.4	902.8	984.4
77.0	261.6	404.0	669.4	894.8	976.8
77.5	247.2	392.0	661.0	887.6	969.6
78.0	233.0	380.4	652.4	880.2	961.8
78.5	219.0	369.0	644.0	872.6	954.8
79.0	205.6	358.0	636.2	865.2	947.4
79.5	192.0	347.4	628.4	857.6	940.2
80.0	178.6	337.2	620.8	850.8	932.8
80.5	165.6	327.0	613.0	843.6	926.0
81.0	153.0	317.8	605.6	836.2	919.4
81.5	140.8	308.2	599.0	829.8	912.6
82.0	128.8	299.8	591.6	823.0	906.0
82.5	117.2	291.0	584.6	816.2	899.0

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**CANDELA TABULATION - (Cont.)**

83.0	105.8	282.8	578.0	810.0	893.4
83.5	95.0	275.2	571.4	803.4	887.2
84.0	84.6	267.8	565.4	797.8	881.6
84.5	74.6	261.0	559.6	792.2	876.6
85.0	65.4	254.8	553.8	787.0	871.2
85.5	56.6	248.8	548.6	782.4	866.8
86.0	48.4	243.4	543.6	778.0	862.2
86.5	41.0	238.2	539.4	774.0	858.2
87.0	34.4	233.8	535.6	770.4	855.4
87.5	28.6	229.8	532.0	767.8	852.8
88.0	23.8	226.6	529.6	766.0	850.0
88.5	20.2	224.2	528.0	764.0	848.8
89.0	17.4	222.6	526.8	763.0	847.8
89.5	15.6	221.8	526.0	762.6	847.8
90.0	14.6	221.8	526.6	763.4	848.8
90.5	8.4	222.2	525.8	761.6	847.6
91.0	9.8	224.2	527.6	763.4	849.6
91.5	11.8	226.8	530.0	766.4	852.0
92.0	14.2	230.0	532.8	769.0	855.0
92.5	17.6	233.8	536.4	772.6	858.4
93.0	21.6	238.4	540.2	776.6	862.6
93.5	26.4	243.0	544.8	780.8	866.8
94.0	32.2	248.2	549.6	785.6	871.2
94.5	39.4	254.4	555.0	790.4	876.0
95.0	47.2	260.6	560.6	796.0	881.4
95.5	55.8	267.0	566.4	801.6	886.8
96.0	64.8	274.0	572.2	807.4	892.8
96.5	74.6	281.2	578.8	813.6	899.0
97.0	85.0	289.0	585.4	820.0	905.4
97.5	95.6	297.2	592.2	826.2	911.8
98.0	106.8	305.8	599.2	832.8	918.2
98.5	118.2	315.0	606.2	840.0	925.0
99.0	130.2	324.8	613.6	846.8	932.0
99.5	142.2	334.8	621.2	853.6	938.8
100.0	154.8	345.2	628.4	860.8	945.8
100.5	167.4	355.6	636.2	868.4	953.0
101.0	180.6	366.4	644.0	875.4	960.2
101.5	194.0	377.4	652.6	883.0	968.2
102.0	207.8	388.6	661.2	890.4	975.6
102.5	221.6	400.0	669.6	898.0	982.8
103.0	235.2	411.8	678.4	905.6	990.4
103.5	249.2	424.0	687.2	913.2	998.0
104.0	263.4	436.0	696.4	921.0	1005.8
104.5	278.0	448.4	705.8	929.4	1013.8
105.0	292.8	460.2	715.4	937.4	1022.0
105.5	307.8	472.4	724.8	945.6	1029.8
106.0	322.6	484.6	734.6	953.8	1038.2
106.5	337.4	496.6	744.6	962.6	1046.0
107.0	352.6	509.2	754.8	971.0	1054.2
107.5	368.0	521.6	765.4	979.4	1062.6
108.0	383.4	534.0	776.4	988.0	1071.0
108.5	399.0	546.8	787.4	997.0	1079.6
109.0	414.2	559.4	798.4	1006.0	1087.6
109.5	430.0	572.0	809.8	1015.0	1096.6
110.0	445.8	585.4	821.4	1025.0	1105.6
110.5	461.6	598.6	833.0	1034.0	1114.2

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**CANDELA TABULATION - (Cont.)**

111.0	477.4	611.6	844.8	1043.8	1123.8
111.5	493.8	625.0	856.8	1053.6	1132.8
112.0	510.0	638.6	869.2	1063.6	1142.0
112.5	526.4	652.8	881.6	1074.0	1151.0
113.0	542.6	666.8	894.6	1084.4	1161.6
113.5	559.2	680.6	907.6	1095.2	1171.2
114.0	575.2	694.8	920.4	1106.0	1180.4
114.5	592.4	709.0	933.6	1117.0	1190.8
115.0	608.8	723.8	947.2	1127.6	1201.8
115.5	625.8	738.6	960.8	1138.8	1212.6
116.0	642.6	753.2	974.0	1150.4	1223.4
116.5	659.2	768.4	987.0	1162.0	1234.2
117.0	676.2	783.4	1000.4	1173.8	1244.8
117.5	692.6	798.6	1014.2	1185.8	1256.4
118.0	709.2	813.8	1027.2	1198.2	1267.0
118.5	726.0	829.2	1040.4	1210.2	1279.0
119.0	742.4	845.0	1053.8	1222.8	1290.6
119.5	759.2	859.8	1066.8	1235.6	1301.4
120.0	776.0	875.4	1079.6	1248.6	1313.8
120.5	792.0	891.2	1093.0	1261.4	1326.2
121.0	808.4	906.4	1105.6	1273.6	1337.8
121.5	825.4	922.2	1119.2	1286.8	1350.4
122.0	841.6	937.8	1132.2	1299.6	1362.6
122.5	857.8	953.4	1145.4	1312.0	1375.8
123.0	874.0	969.2	1158.6	1324.6	1387.6
123.5	891.2	984.8	1171.8	1337.6	1400.2
124.0	907.2	1000.6	1185.0	1349.4	1412.8
124.5	923.8	1016.2	1198.2	1361.8	1424.8
125.0	940.4	1031.8	1211.2	1374.2	1436.6
125.5	957.4	1047.2	1224.6	1386.6	1448.8
126.0	973.8	1062.6	1237.8	1398.8	1460.6
126.5	989.8	1078.2	1251.0	1411.2	1471.8
127.0	1006.0	1093.8	1263.6	1423.4	1482.8
127.5	1023.6	1109.8	1277.2	1435.0	1493.6
128.0	1039.6	1125.2	1290.2	1446.2	1505.6
128.5	1055.4	1141.0	1303.4	1457.8	1517.0
129.0	1072.4	1156.0	1316.6	1470.6	1528.2
129.5	1089.2	1171.4	1330.0	1481.6	1539.8
130.0	1105.2	1187.2	1343.0	1493.6	1550.8
130.5	1121.6	1202.8	1356.4	1505.4	1563.6
131.0	1138.6	1218.2	1369.6	1516.0	1574.0
131.5	1155.2	1233.8	1382.8	1527.8	1584.0
132.0	1172.2	1249.6	1396.6	1540.0	1596.2
132.5	1188.4	1265.4	1410.2	1552.0	1607.0
133.0	1205.2	1281.2	1423.6	1563.8	1618.6
133.5	1221.2	1296.8	1437.2	1574.4	1627.4
134.0	1238.0	1312.6	1451.0	1585.8	1638.8
134.5	1254.4	1327.8	1465.2	1597.8	1650.8
135.0	1271.4	1343.8	1478.8	1608.8	1660.2
135.5	1287.8	1359.6	1493.2	1621.8	1673.4
136.0	1304.6	1375.0	1507.6	1633.6	1684.6
136.5	1321.0	1390.0	1521.2	1645.4	1695.4
137.0	1337.8	1405.6	1534.0	1656.2	1705.6
137.5	1354.2	1421.0	1547.2	1667.4	1715.4
138.0	1371.0	1436.2	1563.0	1679.6	1727.0
138.5	1387.6	1452.2	1575.6	1691.8	1738.0

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**CANDELA TABULATION - (Cont.)**

139.0	1404.4	1467.4	1589.6	1702.8	1749.2
139.5	1421.0	1483.2	1602.4	1714.4	1758.6
140.0	1437.2	1498.4	1615.6	1725.4	1769.8
140.5	1453.6	1512.4	1629.8	1737.2	1780.8
141.0	1470.6	1528.0	1644.8	1748.0	1790.8
141.5	1486.4	1543.4	1657.0	1759.4	1800.2
142.0	1502.2	1558.6	1672.4	1770.8	1811.0
142.5	1519.2	1572.2	1684.6	1782.2	1821.0
143.0	1534.4	1586.8	1696.8	1793.2	1831.8
143.5	1552.2	1602.6	1711.2	1804.6	1842.0
144.0	1567.8	1617.0	1723.2	1815.0	1852.0
144.5	1582.2	1632.0	1736.0	1826.4	1861.4
145.0	1597.0	1647.0	1748.4	1837.6	1871.8
145.5	1615.0	1661.6	1760.6	1848.8	1882.0
146.0	1630.8	1675.0	1773.8	1859.4	1892.8
146.5	1646.8	1688.6	1786.4	1870.6	1902.6
147.0	1660.0	1703.4	1798.2	1880.8	1911.8
147.5	1677.6	1717.6	1810.2	1892.2	1922.4
148.0	1692.8	1730.8	1822.0	1902.0	1931.6
148.5	1707.0	1744.0	1834.0	1911.8	1941.4
149.0	1721.6	1757.8	1845.8	1920.8	1950.2
149.5	1734.8	1771.4	1857.6	1932.0	1960.4
150.0	1750.2	1784.8	1869.0	1941.4	1969.6
150.5	1764.2	1798.8	1880.6	1950.6	1979.2
151.0	1777.8	1812.0	1891.8	1960.6	1987.4
151.5	1791.2	1824.6	1903.4	1969.8	1995.6
152.0	1805.0	1838.0	1914.2	1979.2	2004.0
152.5	1818.6	1851.0	1925.6	1988.4	2012.0
153.0	1832.6	1864.0	1936.4	1997.8	2022.0
153.5	1846.0	1876.4	1947.2	2006.0	2030.0
154.0	1859.6	1889.2	1957.8	2016.0	2036.0
154.5	1873.0	1901.4	1967.6	2024.0	2046.0
155.0	1885.6	1913.4	1977.0	2034.0	2054.0
155.5	1899.2	1925.8	1986.8	2042.0	2062.0
156.0	1910.6	1937.8	1995.8	2050.0	2070.0
156.5	1922.8	1950.2	2006.0	2058.0	2076.0
157.0	1936.2	1961.8	2014.0	2066.0	2084.0
157.5	1949.2	1973.6	2022.0	2072.0	2090.0
158.0	1960.4	1984.8	2030.0	2080.0	2098.0
158.5	1972.0	1996.2	2038.0	2088.0	2104.0
159.0	1983.6	2008.0	2046.0	2096.0	2112.0
159.5	1995.4	2018.0	2056.0	2102.0	2118.0
160.0	2008.0	2030.0	2062.0	2108.0	2124.0
160.5	2020.0	2040.0	2070.0	2116.0	2130.0
161.0	2030.0	2050.0	2078.0	2122.0	2136.0
161.5	2040.0	2060.0	2086.0	2126.0	2142.0
162.0	2050.0	2068.0	2092.0	2132.0	2146.0
162.5	2060.0	2078.0	2100.0	2138.0	2152.0
163.0	2070.0	2086.0	2108.0	2142.0	2156.0
163.5	2080.0	2096.0	2116.0	2148.0	2160.0
164.0	2088.0	2104.0	2124.0	2152.0	2166.0
164.5	2096.0	2112.0	2130.0	2158.0	2170.0
165.0	2104.0	2122.0	2136.0	2162.0	2172.0
165.5	2114.0	2130.0	2144.0	2168.0	2178.0
166.0	2122.0	2138.0	2150.0	2172.0	2182.0
166.5	2128.0	2144.0	2156.0	2176.0	2186.0

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	2136.0	2152.0	2162.0	2182.0	2190.0
<b>167.5</b>	2144.0	2160.0	2168.0	2186.0	2194.0
<b>168.0</b>	2150.0	2166.0	2174.0	2192.0	2198.0
<b>168.5</b>	2158.0	2174.0	2182.0	2196.0	2204.0
<b>169.0</b>	2164.0	2180.0	2186.0	2200.0	2208.0
<b>169.5</b>	2170.0	2186.0	2192.0	2204.0	2212.0
<b>170.0</b>	2178.0	2192.0	2198.0	2210.0	2216.0
<b>170.5</b>	2184.0	2198.0	2202.0	2212.0	2218.0
<b>171.0</b>	2190.0	2204.0	2208.0	2216.0	2222.0
<b>171.5</b>	2194.0	2208.0	2212.0	2220.0	2226.0
<b>172.0</b>	2200.0	2214.0	2218.0	2224.0	2230.0
<b>172.5</b>	2206.0	2218.0	2222.0	2228.0	2232.0
<b>173.0</b>	2210.0	2222.0	2226.0	2232.0	2238.0
<b>173.5</b>	2216.0	2228.0	2230.0	2236.0	2240.0
<b>174.0</b>	2218.0	2230.0	2234.0	2238.0	2244.0
<b>174.5</b>	2222.0	2234.0	2236.0	2242.0	2246.0
<b>175.0</b>	2226.0	2238.0	2240.0	2244.0	2250.0
<b>175.5</b>	2230.0	2240.0	2242.0	2246.0	2252.0
<b>176.0</b>	2232.0	2244.0	2244.0	2250.0	2254.0
<b>176.5</b>	2234.0	2246.0	2246.0	2250.0	2256.0
<b>177.0</b>	2236.0	2248.0	2248.0	2254.0	2256.0
<b>177.5</b>	2238.0	2250.0	2250.0	2254.0	2258.0
<b>178.0</b>	2240.0	2252.0	2252.0	2256.0	2260.0
<b>178.5</b>	2240.0	2252.0	2252.0	2256.0	2258.0
<b>179.0</b>	2240.0	2252.0	2252.0	2256.0	2260.0
<b>179.5</b>	2242.0	2254.0	2252.0	2256.0	2260.0
<b>180.0</b>	2254.0	2254.0	2254.0	2254.0	2254.0



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	831.09	N.A.	5.70
0-30	1757.16	N.A.	12.00
0-40	2868.27	N.A.	19.70
0-60	5113.17	N.A.	35.00
0-80	6764.45	N.A.	46.40
0-90	7335.29	N.A.	50.30
10-90	7119.16	N.A.	48.80
20-40	2037.18	N.A.	14.00
20-50	3196.8	N.A.	21.90
40-70	3166.6	N.A.	21.70
60-80	1651.28	N.A.	11.30
70-80	729.58	N.A.	5.00
80-90	570.84	N.A.	3.90
90-110	1308.52	N.A.	9.00
90-120	2227.91	N.A.	15.30
90-130	3302.79	N.A.	22.60
90-150	5531.82	N.A.	37.90
90-180	7257.36	N.A.	49.70
110-180	5948.84	N.A.	40.80
0-180	14592.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	216.13
10-20	614.96
20-30	926.07
30-40	1111.11
40-50	1159.62
50-60	1085.28
60-70	921.70
70-80	729.58
80-90	570.84
90-100	574.59
100-110	733.93
110-120	919.38
120-130	1074.88
130-140	1138.95
140-150	1090.08
150-160	909.17
160-170	603.92
170-180	212.46

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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	45	39
2	87	79	72	67	80	73	67	62	61	57	53	51	47	45	41	39	36	32
3	79	69	61	55	73	64	57	51	54	48	44	44	41	37	36	33	31	26
4	72	61	52	46	66	56	49	43	48	42	37	39	35	32	32	29	26	22
5	66	54	46	39	61	50	42	37	42	36	32	35	31	27	29	25	22	19
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	22	20	17
7	56	44	35	30	52	40	33	28	34	29	24	29	24	21	24	20	17	15
8	52	40	32	26	48	37	30	25	31	26	21	26	22	18	22	18	16	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	19	15	13	11

**IES INDOOR REPORT**  
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**UGR TABLE - CORRECTED**

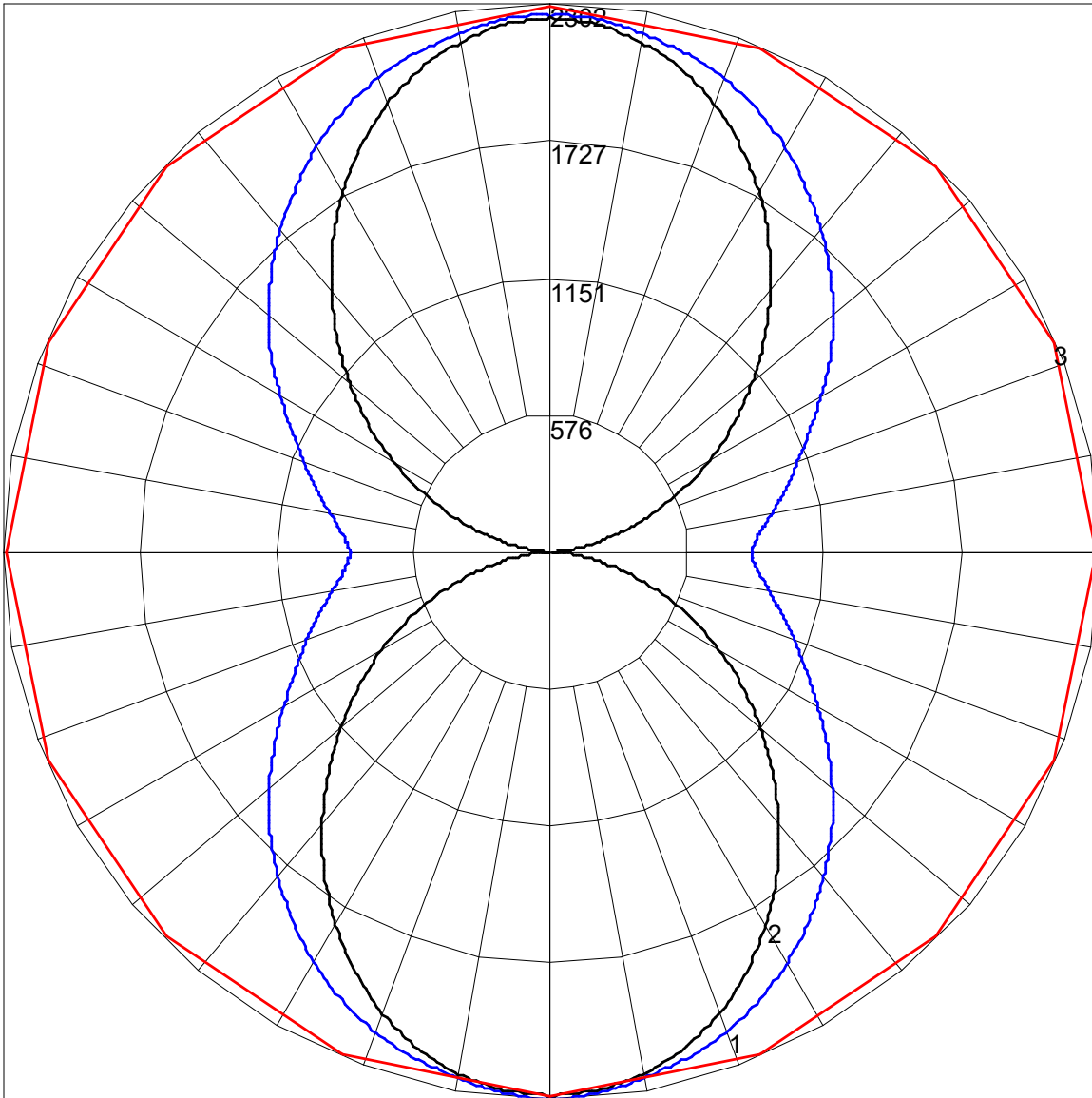
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.3	14.2	14.3	15.2	16.5	17.0	17.9	17.9	18.8	20.1
	3H	14.6	15.4	15.5	16.4	17.7	19.6	20.4	20.6	21.4	22.7
	4H	14.9	15.7	15.9	16.7	18.0	20.9	21.7	21.9	22.7	24.0
	6H	15.1	15.8	16.1	16.8	18.1	22.4	23.1	23.4	24.1	25.4
	8H	15.1	15.8	16.1	16.8	18.1	23.2	23.9	24.2	24.9	26.2
	12H	15.1	15.8	16.1	16.8	18.1	24.0	24.7	25.0	25.7	27.0
4H	2H	14.3	15.1	15.3	16.1	17.4	17.2	18.0	18.2	18.9	20.2
	3H	15.8	16.5	16.8	17.5	18.8	20.0	20.7	21.0	21.7	23.0
	4H	16.3	16.9	17.3	17.9	19.2	21.5	22.2	22.5	23.2	24.5
	6H	16.6	17.1	17.6	18.1	19.4	23.2	23.7	24.2	24.8	26.1
	8H	16.6	17.1	17.6	18.1	19.5	24.1	24.6	25.1	25.6	26.9
	12H	16.6	17.1	17.6	18.1	19.5	25.0	25.5	26.1	26.5	27.9
8H	4H	17.1	17.6	18.1	18.6	20.0	21.6	22.1	22.6	23.1	24.5
	6H	17.6	18.0	18.6	19.1	20.4	23.4	23.9	24.5	24.9	26.3
	8H	17.8	18.1	18.8	19.2	20.6	24.5	24.8	25.5	25.9	27.3
	12H	17.8	18.2	18.9	19.2	20.6	25.6	25.9	26.6	27.0	28.4
12H	4H	17.4	17.9	18.4	18.9	20.2	21.6	22.0	22.6	23.1	24.4
	6H	18.1	18.4	19.1	19.5	20.8	23.5	23.8	24.5	24.9	26.3
	8H	18.3	18.6	19.3	19.7	21.1	24.5	24.8	25.6	25.9	27.3

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 2302 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Horizontal Cone Through Vertical Angle (0)