

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 16K 360P-4-UD-835-U10-CA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 13551818.05  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 11/4/2020  
 [MANUFAC] Lux Dynamics  
 [LUMCAT] 360P-4-UD-835-xxx-xx-CA (modified from 2' IES file)  
 [LUMINAIRE] Gray cylindrical metal housing with diffuse plastic lens  
 [LAMP] White 1224 LEDs  
 [BALLAST] Two (2) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB  
 [OTHER] 26 C, 276.996 V, 0.193736 A, 50.9993 W, 0.950341 PF, 59.9681 H  
 [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	16025
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	101.9986
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	17132	10469	9817
55	13973	7976	9057
65	9430	7692	6272
75	4416	5210	3436
85	1483	3571	2125

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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>	2804.0	2804.0	2804.0	2804.0	2804.0
<b>0.5</b>	2820.0	2800.0	2802.0	2802.0	2808.0
<b>1.0</b>	2820.0	2800.0	2798.0	2804.0	2810.0
<b>1.5</b>	2818.0	2800.0	2794.0	2796.0	2798.0
<b>2.0</b>	2816.0	2794.0	2790.0	2790.0	2796.0
<b>2.5</b>	2818.0	2788.0	2786.0	2784.0	2794.0
<b>3.0</b>	2816.0	2784.0	2780.0	2772.0	2774.0
<b>3.5</b>	2818.0	2778.0	2774.0	2754.0	2748.0
<b>4.0</b>	2816.0	2774.0	2766.0	2730.0	2720.0
<b>4.5</b>	2812.0	2772.0	2750.0	2702.0	2692.0
<b>5.0</b>	2808.0	2766.0	2734.0	2678.0	2672.0
<b>5.5</b>	2802.0	2764.0	2710.0	2660.0	2666.0
<b>6.0</b>	2804.0	2760.0	2686.0	2660.0	2688.0
<b>6.5</b>	2800.0	2754.0	2662.0	2680.0	2702.0
<b>7.0</b>	2796.0	2748.0	2644.0	2694.0	2700.0
<b>7.5</b>	2788.0	2740.0	2636.0	2694.0	2700.0
<b>8.0</b>	2786.0	2734.0	2644.0	2694.0	2706.0
<b>8.5</b>	2782.0	2720.0	2654.0	2698.0	2724.0
<b>9.0</b>	2780.0	2708.0	2666.0	2710.0	2750.0
<b>9.5</b>	2772.0	2690.0	2678.0	2732.0	2776.0
<b>10.0</b>	2770.0	2680.0	2680.0	2758.0	2804.0
<b>10.5</b>	2766.0	2660.0	2680.0	2782.0	2816.0
<b>11.0</b>	2758.0	2644.0	2678.0	2800.0	2806.0
<b>11.5</b>	2752.0	2624.0	2682.0	2802.0	2800.0
<b>12.0</b>	2744.0	2608.0	2692.0	2790.0	2800.0
<b>12.5</b>	2738.0	2594.0	2704.0	2786.0	2790.0
<b>13.0</b>	2730.0	2582.0	2724.0	2784.0	2776.0
<b>13.5</b>	2724.0	2578.0	2740.0	2774.0	2776.0
<b>14.0</b>	2716.0	2570.0	2756.0	2762.0	2792.0
<b>14.5</b>	2710.0	2566.0	2762.0	2758.0	2804.0
<b>15.0</b>	2698.0	2568.0	2760.0	2770.0	2798.0
<b>15.5</b>	2696.0	2574.0	2758.0	2782.0	2786.0
<b>16.0</b>	2686.0	2576.0	2744.0	2784.0	2780.0
<b>16.5</b>	2676.0	2582.0	2730.0	2772.0	2776.0
<b>17.0</b>	2664.0	2586.0	2710.0	2760.0	2744.0
<b>17.5</b>	2658.0	2590.0	2692.0	2752.0	2682.0
<b>18.0</b>	2646.0	2592.0	2670.0	2738.0	2620.0
<b>18.5</b>	2632.0	2592.0	2660.0	2692.0	2584.0
<b>19.0</b>	2622.0	2590.0	2662.0	2634.0	2578.0
<b>19.5</b>	2612.0	2582.0	2676.0	2584.0	2574.0
<b>20.0</b>	2600.0	2572.0	2688.0	2558.0	2566.0
<b>20.5</b>	2586.0	2562.0	2692.0	2548.0	2554.0
<b>21.0</b>	2570.0	2554.0	2686.0	2546.0	2562.0
<b>21.5</b>	2558.0	2544.0	2676.0	2534.0	2596.0
<b>22.0</b>	2546.0	2542.0	2664.0	2524.0	2620.0
<b>22.5</b>	2536.0	2540.0	2644.0	2534.0	2620.0
<b>23.0</b>	2522.0	2536.0	2624.0	2566.0	2608.0
<b>23.5</b>	2508.0	2534.0	2590.0	2590.0	2588.0
<b>24.0</b>	2492.0	2530.0	2546.0	2588.0	2564.0
<b>24.5</b>	2476.0	2524.0	2508.0	2570.0	2542.0
<b>25.0</b>	2464.0	2524.0	2476.0	2550.0	2528.0
<b>25.5</b>	2450.0	2520.0	2452.0	2522.0	2502.0
<b>26.0</b>	2434.0	2516.0	2436.0	2504.0	2478.0
<b>26.5</b>	2418.0	2508.0	2422.0	2488.0	2444.0

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**CANDELA TABULATION - (Cont.)**

27.0	2408.0	2494.0	2412.0	2468.0	2426.0
27.5	2398.0	2478.0	2406.0	2446.0	2424.0
28.0	2382.0	2462.0	2408.0	2420.0	2416.0
28.5	2368.0	2444.0	2414.0	2394.0	2404.0
29.0	2350.0	2420.0	2422.0	2382.0	2398.0
29.5	2334.0	2396.0	2422.0	2372.0	2390.0
30.0	2316.0	2370.0	2412.0	2364.0	2386.0
30.5	2300.0	2348.0	2388.0	2358.0	2380.0
31.0	2282.0	2324.0	2358.0	2348.0	2348.0
31.5	2264.0	2300.0	2324.0	2340.0	2318.0
32.0	2244.0	2280.0	2298.0	2334.0	2270.0
32.5	2226.0	2266.0	2278.0	2324.0	2210.0
33.0	2208.0	2250.0	2262.0	2296.0	2176.0
33.5	2192.0	2236.0	2246.0	2264.0	2164.0
34.0	2176.0	2220.0	2228.0	2218.0	2158.0
34.5	2158.0	2204.0	2212.0	2164.0	2158.0
35.0	2142.0	2186.0	2194.0	2126.0	2164.0
35.5	2126.0	2168.0	2180.0	2112.0	2178.0
36.0	2108.0	2150.0	2174.0	2104.0	2200.0
36.5	2090.0	2130.0	2168.0	2096.0	2210.0
37.0	2074.0	2112.0	2156.0	2094.0	2192.0
37.5	2056.0	2092.0	2136.0	2098.0	2148.0
38.0	2040.0	2074.0	2112.0	2110.0	2088.0
38.5	2022.0	2056.0	2094.0	2126.0	2012.0
39.0	2004.0	2038.0	2074.0	2128.0	1952.4
39.5	1986.0	2020.0	2056.0	2098.0	1917.0
40.0	1966.0	2004.0	2038.0	2044.0	1894.6
40.5	1945.8	1988.0	2018.0	1976.8	1881.8
41.0	1928.0	1970.0	1996.4	1907.8	1871.2
41.5	1908.6	1951.0	1969.4	1854.6	1872.8
42.0	1889.8	1929.6	1940.0	1819.2	1880.4
42.5	1871.8	1907.4	1912.0	1799.8	1889.8
43.0	1853.8	1883.4	1890.6	1788.0	1900.2
43.5	1835.8	1860.0	1864.4	1775.0	1898.6
44.0	1817.2	1836.4	1831.2	1767.0	1876.4
44.5	1798.8	1811.8	1792.6	1762.6	1857.2
45.0	1778.0	1785.4	1758.0	1764.6	1856.2
45.5	1757.2	1758.4	1732.8	1766.8	1843.8
46.0	1734.4	1730.8	1716.0	1758.6	1829.0
46.5	1710.2	1703.2	1706.0	1738.6	1816.4
47.0	1685.6	1676.8	1701.8	1723.8	1801.2
47.5	1658.4	1650.0	1699.0	1721.4	1776.8
48.0	1630.2	1622.6	1689.2	1716.4	1756.0
48.5	1601.2	1597.2	1663.4	1705.0	1738.6
49.0	1572.0	1573.0	1624.2	1690.2	1714.4
49.5	1542.8	1549.6	1576.6	1666.6	1693.0
50.0	1513.8	1526.6	1529.8	1634.0	1685.8
50.5	1485.2	1505.4	1490.6	1610.0	1679.0
51.0	1457.2	1485.4	1460.0	1596.8	1666.4
51.5	1428.8	1467.2	1437.8	1579.6	1645.8
52.0	1400.4	1449.4	1421.6	1558.2	1630.2
52.5	1371.8	1432.0	1404.6	1553.2	1644.4
53.0	1342.2	1413.2	1386.0	1559.2	1677.4
53.5	1313.2	1390.6	1368.8	1567.4	1701.2
54.0	1282.8	1366.6	1349.2	1571.4	1694.6
54.5	1251.4	1341.2	1323.2	1571.6	1683.4

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**CANDELA TABULATION - (Cont.)**

55.0	1221.2	1316.2	1289.8	1584.2	1686.4
55.5	1191.0	1291.4	1258.0	1609.2	1693.6
56.0	1160.8	1266.8	1237.4	1624.2	1695.6
56.5	1131.0	1242.2	1227.0	1610.8	1673.6
57.0	1101.2	1217.6	1221.4	1583.2	1640.4
57.5	1071.0	1192.4	1213.6	1558.6	1606.4
58.0	1042.0	1167.6	1200.6	1537.4	1560.8
58.5	1012.6	1141.6	1183.6	1524.2	1511.0
59.0	983.8	1115.0	1166.4	1509.6	1470.4
59.5	955.2	1089.4	1153.2	1483.4	1433.2
60.0	926.2	1062.6	1146.8	1453.0	1395.4
60.5	897.8	1035.4	1147.2	1419.4	1355.8
61.0	869.0	1008.8	1152.8	1377.6	1323.4
61.5	840.6	983.2	1162.2	1336.0	1295.0
62.0	812.0	958.2	1176.6	1300.0	1261.0
62.5	783.6	933.6	1191.4	1264.8	1225.8
63.0	755.0	910.0	1204.2	1231.2	1196.4
63.5	727.2	887.2	1207.6	1199.4	1174.2
64.0	699.6	865.0	1199.6	1174.8	1158.4
64.5	672.2	843.8	1181.6	1153.6	1138.6
65.0	644.6	823.0	1158.2	1134.2	1114.4
65.5	617.6	802.8	1128.6	1118.0	1090.4
66.0	590.6	782.6	1095.4	1099.8	1062.8
66.5	563.8	763.4	1060.8	1077.6	1023.6
67.0	536.4	744.8	1028.2	1054.4	981.0
67.5	509.4	725.8	1001.2	1027.4	941.6
68.0	483.8	706.8	980.0	990.8	913.8
68.5	458.4	688.4	964.4	951.6	892.8
69.0	433.4	669.8	950.4	914.2	872.2
69.5	409.4	651.4	936.6	878.6	852.0
70.0	387.2	634.0	924.6	844.6	829.2
70.5	365.2	617.4	915.0	813.0	805.8
71.0	344.0	601.6	901.8	784.4	778.2
71.5	323.6	586.8	885.6	760.2	745.8
72.0	304.6	572.6	865.6	739.8	717.0
72.5	286.4	559.6	841.4	722.2	687.4
73.0	269.0	547.0	814.6	707.4	655.4
73.5	252.6	534.4	785.0	696.0	624.0
74.0	237.0	521.8	756.4	680.0	597.6
74.5	222.4	509.0	728.8	653.8	578.4
75.0	208.6	495.8	702.6	621.4	562.6
75.5	195.2	482.2	678.2	587.0	546.2
76.0	182.6	467.6	655.8	555.0	532.2
76.5	170.4	453.0	635.6	528.6	517.6
77.0	159.0	437.4	616.6	507.4	500.4
77.5	148.0	421.8	598.8	490.8	482.6
78.0	137.6	406.0	580.8	477.6	464.0
78.5	127.8	390.0	561.8	466.2	445.2
79.0	118.4	374.0	542.2	455.6	427.4
79.5	109.4	358.6	523.0	444.0	413.4
80.0	101.0	344.0	504.6	432.4	400.6
80.5	92.8	329.4	488.4	421.8	389.2
81.0	85.2	315.0	474.4	410.8	379.6
81.5	78.0	301.4	463.2	399.8	369.6
82.0	71.2	288.4	453.0	388.8	359.8
82.5	64.6	275.6	444.0	378.0	350.6

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**CANDELA TABULATION - (Cont.)**

83.0	58.2	263.6	435.8	369.0	340.6
83.5	52.2	252.6	428.2	360.0	331.8
84.0	46.6	242.0	421.4	352.4	323.4
84.5	41.4	232.2	416.0	344.2	315.0
85.0	36.6	223.0	410.8	336.4	307.8
85.5	32.2	214.4	405.2	329.4	302.8
86.0	28.0	206.8	399.4	324.0	297.2
86.5	24.4	199.8	393.6	319.4	291.6
87.0	21.4	193.6	389.2	315.0	289.2
87.5	18.6	188.4	385.0	312.0	287.2
88.0	16.4	184.2	381.6	310.2	285.4
88.5	14.6	180.8	379.0	308.8	284.8
89.0	12.8	178.4	376.8	307.6	283.8
89.5	11.4	177.2	375.4	307.4	283.4
90.0	10.6	176.8	375.2	308.4	282.6
90.5	5.6	180.0	383.4	323.8	298.0
91.0	7.0	181.6	383.6	322.4	296.8
91.5	8.6	184.2	385.6	322.0	295.8
92.0	9.8	187.8	388.8	322.6	297.2
92.5	11.8	192.4	392.8	324.6	299.4
93.0	14.0	198.0	397.4	326.8	302.4
93.5	16.4	204.0	402.4	329.0	306.0
94.0	19.4	211.0	408.2	333.0	311.0
94.5	22.8	218.8	414.6	339.2	315.6
95.0	26.8	227.4	421.0	344.8	320.4
95.5	31.0	237.0	427.8	348.8	327.4
96.0	35.4	247.4	435.4	354.0	334.0
96.5	40.6	258.2	443.8	361.0	339.0
97.0	46.0	269.8	454.0	368.0	345.2
97.5	51.8	282.2	464.0	374.4	355.0
98.0	57.8	294.6	473.6	382.4	365.2
98.5	64.2	308.2	483.2	391.6	375.2
99.0	71.0	322.2	493.4	401.4	384.0
99.5	78.2	337.4	503.8	411.8	394.0
100.0	85.8	352.0	515.6	422.8	404.8
100.5	94.0	367.0	528.4	434.4	414.6
101.0	102.8	382.4	542.0	449.4	425.0
101.5	112.0	397.4	556.4	467.0	436.6
102.0	122.0	412.6	572.2	486.0	450.4
102.5	132.2	428.0	590.0	504.0	462.0
103.0	143.0	443.4	609.8	520.2	473.0
103.5	154.4	458.8	630.8	537.2	486.6
104.0	166.6	474.8	653.2	555.8	503.6
104.5	179.4	490.4	676.0	574.8	523.8
105.0	192.8	506.0	698.2	593.8	548.6
105.5	206.8	520.8	719.4	612.2	577.0
106.0	221.4	535.4	741.2	631.6	605.8
106.5	237.0	549.0	764.4	652.6	632.0
107.0	252.8	561.8	789.6	676.2	652.4
107.5	269.8	574.0	815.8	702.0	670.8
108.0	287.8	585.8	842.0	733.2	689.6
108.5	306.4	597.6	868.6	766.0	709.0
109.0	326.2	609.8	894.6	792.6	727.0
109.5	347.6	622.2	921.6	811.0	748.8
110.0	367.6	635.0	947.8	826.0	776.0
110.5	389.8	648.6	972.6	844.6	799.2

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**CANDELA TABULATION - (Cont.)**

111.0	412.4	662.6	994.2	867.8	819.4
111.5	436.4	677.6	1012.8	893.0	845.0
112.0	461.2	693.4	1028.6	919.4	880.4
112.5	486.2	709.0	1044.0	948.2	919.6
113.0	512.0	725.4	1060.2	982.4	948.6
113.5	538.0	742.8	1077.6	1016.6	971.8
114.0	564.6	761.0	1094.2	1051.0	993.6
114.5	591.4	780.6	1108.4	1086.4	1017.6
115.0	618.4	800.8	1123.0	1123.2	1042.6
115.5	644.6	821.8	1138.4	1161.2	1069.6
116.0	671.0	843.4	1156.8	1192.6	1105.2
116.5	697.4	866.0	1177.4	1218.6	1146.2
117.0	724.0	889.4	1199.6	1247.2	1189.4
117.5	750.2	913.0	1220.8	1275.2	1225.6
118.0	776.6	936.4	1241.4	1297.4	1252.4
118.5	804.4	959.4	1258.6	1316.8	1282.0
119.0	832.6	982.2	1270.8	1339.0	1313.2
119.5	860.4	1005.2	1274.4	1362.8	1335.4
120.0	888.6	1028.2	1268.4	1387.2	1362.8
120.5	917.0	1052.0	1256.8	1413.4	1400.0
121.0	945.8	1075.2	1244.6	1441.8	1435.8
121.5	975.0	1098.2	1234.4	1474.8	1465.4
122.0	1003.2	1121.2	1227.6	1509.8	1485.0
122.5	1032.2	1144.2	1225.6	1543.4	1499.8
123.0	1060.4	1168.0	1230.8	1567.2	1524.4
123.5	1088.4	1192.0	1243.8	1582.6	1555.4
124.0	1116.8	1216.0	1262.8	1596.8	1582.8
124.5	1144.6	1241.6	1284.6	1608.6	1612.6
125.0	1172.0	1268.4	1309.2	1617.6	1647.6
125.5	1199.8	1296.8	1330.4	1632.8	1677.8
126.0	1227.8	1325.2	1343.6	1650.8	1692.0
126.5	1255.8	1352.6	1351.2	1665.4	1703.4
127.0	1284.4	1378.6	1361.6	1674.6	1729.6
127.5	1313.0	1402.0	1381.0	1673.8	1751.6
128.0	1341.4	1423.2	1409.0	1668.6	1763.4
128.5	1369.2	1444.4	1442.0	1670.2	1776.6
129.0	1398.2	1466.8	1472.0	1676.0	1785.6
129.5	1426.0	1489.8	1494.2	1675.6	1789.4
130.0	1453.0	1513.2	1513.4	1662.4	1787.2
130.5	1480.4	1535.0	1535.8	1653.0	1767.0
131.0	1506.8	1555.4	1558.8	1655.4	1754.0
131.5	1532.0	1575.0	1577.6	1669.2	1757.6
132.0	1557.0	1594.8	1595.8	1691.6	1769.8
132.5	1581.0	1615.2	1617.2	1712.4	1779.0
133.0	1605.0	1636.4	1644.0	1728.8	1781.2
133.5	1629.6	1659.8	1677.4	1751.0	1777.8
134.0	1652.4	1681.8	1715.2	1778.2	1788.4
134.5	1675.6	1703.8	1752.4	1799.4	1823.6
135.0	1698.4	1726.6	1782.2	1814.2	1859.2
135.5	1718.2	1749.4	1804.8	1817.0	1872.0
136.0	1738.4	1772.4	1820.0	1805.0	1876.8
136.5	1757.8	1797.2	1828.4	1794.0	1889.6
137.0	1775.6	1823.8	1835.6	1802.0	1902.6
137.5	1792.4	1851.2	1841.8	1827.8	1922.2
138.0	1810.0	1878.8	1854.4	1853.2	1938.4
138.5	1826.6	1906.4	1880.8	1867.8	1934.2

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**CANDELA TABULATION - (Cont.)**

139.0	1842.4	1931.2	1920.6	1881.0	1919.4
139.5	1857.2	1955.0	1958.8	1900.8	1920.4
140.0	1873.2	1975.6	1989.2	1918.2	1936.6
140.5	1888.4	1996.0	2012.0	1923.4	1952.6
141.0	1904.4	2016.0	2032.0	1925.4	1957.6
141.5	1921.4	2038.0	2058.0	1935.8	1964.6
142.0	1936.8	2058.0	2080.0	1959.2	1985.6
142.5	1953.6	2076.0	2098.0	2008.0	2006.0
143.0	1971.0	2094.0	2112.0	2084.0	2010.0
143.5	1988.4	2110.0	2130.0	2152.0	2010.0
144.0	2006.0	2124.0	2146.0	2188.0	2008.0
144.5	2022.0	2138.0	2156.0	2194.0	2026.0
145.0	2040.0	2150.0	2162.0	2186.0	2086.0
145.5	2058.0	2164.0	2174.0	2176.0	2178.0
146.0	2076.0	2176.0	2196.0	2184.0	2248.0
146.5	2092.0	2190.0	2224.0	2214.0	2272.0
147.0	2110.0	2206.0	2252.0	2240.0	2268.0
147.5	2126.0	2224.0	2272.0	2248.0	2248.0
148.0	2144.0	2246.0	2286.0	2248.0	2246.0
148.5	2158.0	2266.0	2298.0	2256.0	2270.0
149.0	2174.0	2288.0	2318.0	2288.0	2302.0
149.5	2190.0	2310.0	2342.0	2332.0	2308.0
150.0	2206.0	2332.0	2366.0	2366.0	2294.0
150.5	2218.0	2352.0	2382.0	2388.0	2292.0
151.0	2232.0	2366.0	2390.0	2396.0	2322.0
151.5	2246.0	2382.0	2394.0	2380.0	2370.0
152.0	2256.0	2392.0	2400.0	2374.0	2404.0
152.5	2270.0	2404.0	2418.0	2394.0	2434.0
153.0	2284.0	2414.0	2440.0	2436.0	2440.0
153.5	2298.0	2430.0	2462.0	2476.0	2424.0
154.0	2310.0	2444.0	2474.0	2494.0	2418.0
154.5	2324.0	2460.0	2478.0	2490.0	2454.0
155.0	2336.0	2478.0	2472.0	2490.0	2498.0
155.5	2350.0	2492.0	2476.0	2504.0	2532.0
156.0	2364.0	2506.0	2492.0	2534.0	2532.0
156.5	2378.0	2518.0	2514.0	2554.0	2522.0
157.0	2382.0	2526.0	2544.0	2546.0	2522.0
157.5	2394.0	2534.0	2562.0	2542.0	2550.0
158.0	2404.0	2542.0	2574.0	2558.0	2582.0
158.5	2414.0	2548.0	2590.0	2582.0	2578.0
159.0	2426.0	2552.0	2604.0	2612.0	2568.0
159.5	2434.0	2558.0	2618.0	2620.0	2580.0
160.0	2440.0	2560.0	2628.0	2610.0	2610.0
160.5	2452.0	2564.0	2638.0	2596.0	2634.0
161.0	2460.0	2566.0	2648.0	2600.0	2648.0
161.5	2476.0	2564.0	2666.0	2634.0	2628.0
162.0	2484.0	2566.0	2688.0	2668.0	2612.0
162.5	2494.0	2570.0	2700.0	2686.0	2628.0
163.0	2508.0	2572.0	2702.0	2696.0	2664.0
163.5	2516.0	2580.0	2694.0	2700.0	2700.0
164.0	2526.0	2586.0	2680.0	2718.0	2712.0
164.5	2530.0	2596.0	2676.0	2732.0	2718.0
165.0	2536.0	2606.0	2678.0	2740.0	2730.0
165.5	2544.0	2616.0	2686.0	2756.0	2748.0
166.0	2548.0	2626.0	2692.0	2780.0	2758.0
166.5	2558.0	2638.0	2694.0	2792.0	2768.0

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	2562.0	2650.0	2698.0	2776.0	2792.0
<b>167.5</b>	2570.0	2664.0	2702.0	2746.0	2812.0
<b>168.0</b>	2578.0	2676.0	2708.0	2722.0	2792.0
<b>168.5</b>	2584.0	2688.0	2708.0	2712.0	2754.0
<b>169.0</b>	2592.0	2700.0	2704.0	2720.0	2720.0
<b>169.5</b>	2598.0	2708.0	2696.0	2726.0	2720.0
<b>170.0</b>	2604.0	2712.0	2678.0	2728.0	2730.0
<b>170.5</b>	2610.0	2718.0	2672.0	2730.0	2736.0
<b>171.0</b>	2614.0	2720.0	2670.0	2736.0	2732.0
<b>171.5</b>	2616.0	2718.0	2678.0	2734.0	2740.0
<b>172.0</b>	2622.0	2714.0	2690.0	2716.0	2746.0
<b>172.5</b>	2622.0	2712.0	2704.0	2698.0	2730.0
<b>173.0</b>	2624.0	2708.0	2718.0	2688.0	2704.0
<b>173.5</b>	2626.0	2702.0	2738.0	2698.0	2694.0
<b>174.0</b>	2630.0	2696.0	2750.0	2718.0	2704.0
<b>174.5</b>	2630.0	2686.0	2754.0	2730.0	2724.0
<b>175.0</b>	2632.0	2676.0	2748.0	2752.0	2738.0
<b>175.5</b>	2634.0	2666.0	2738.0	2768.0	2762.0
<b>176.0</b>	2636.0	2658.0	2728.0	2766.0	2776.0
<b>176.5</b>	2638.0	2652.0	2714.0	2746.0	2764.0
<b>177.0</b>	2644.0	2652.0	2700.0	2728.0	2736.0
<b>177.5</b>	2642.0	2654.0	2684.0	2712.0	2722.0
<b>178.0</b>	2646.0	2654.0	2664.0	2696.0	2706.0
<b>178.5</b>	2644.0	2662.0	2656.0	2672.0	2678.0
<b>179.0</b>	2648.0	2668.0	2656.0	2662.0	2666.0
<b>179.5</b>	2648.0	2672.0	2666.0	2670.0	2672.0
<b>180.0</b>	2668.0	2668.0	2668.0	2668.0	2668.0



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1021.62	N.A.	6.40
0-30	2176.69	N.A.	13.60
0-40	3545.19	N.A.	22.10
0-60	6178.23	N.A.	38.60
0-80	7741.43	N.A.	48.30
0-90	8064.07	N.A.	50.30
10-90	7803.8	N.A.	48.70
20-40	2523.57	N.A.	15.70
20-50	3902.14	N.A.	24.30
40-70	3609.22	N.A.	22.50
60-80	1563.2	N.A.	9.80
70-80	587.02	N.A.	3.70
80-90	322.64	N.A.	2.00
90-110	908.51	N.A.	5.70
90-120	1871.56	N.A.	11.70
90-130	3121.08	N.A.	19.50
90-150	5815.64	N.A.	36.30
90-180	7961.24	N.A.	49.70
110-180	7052.73	N.A.	44.00
0-180	16025.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	260.27
10-20	761.35
20-30	1155.06
30-40	1368.51
40-50	1378.57
50-60	1254.47
60-70	976.18
70-80	587.02
80-90	322.64
90-100	328.38
100-110	580.13
110-120	963.04
120-130	1249.52
130-140	1356.23
140-150	1338.33
150-160	1136.26
160-170	751.58
170-180	257.76

**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	47	41
2	88	81	74	69	81	75	69	64	63	59	55	53	50	47	43	41	39	34
3	81	71	63	57	74	65	59	54	56	51	46	46	43	39	38	35	33	29
4	74	63	54	48	68	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	33	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	29	33	29	25	27	24	21	19
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	18	23	19	16	20	16	14	12

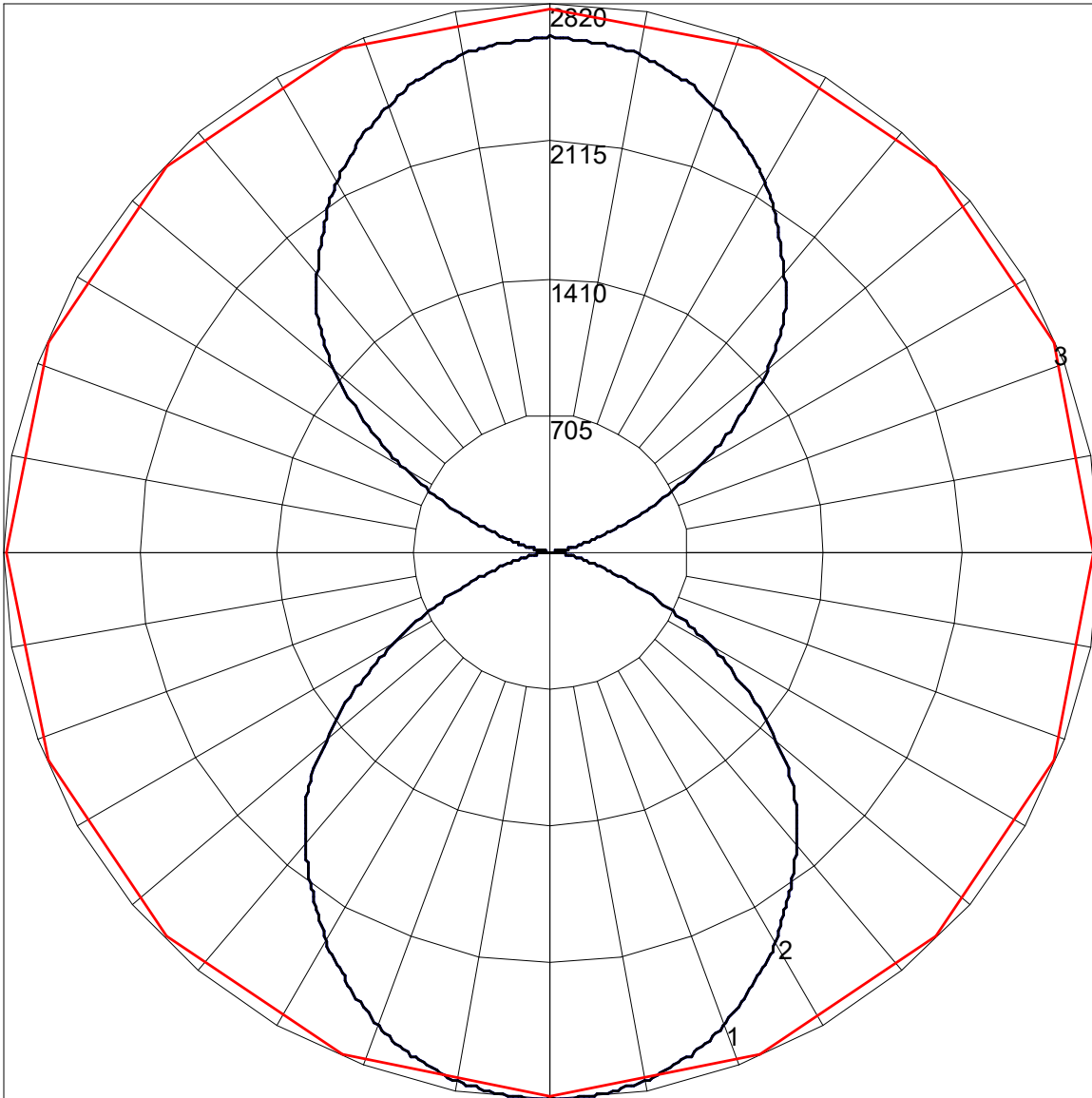
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 16K 360P-4-UD-835-U10-CA.IES**

**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	14.3	15.2	15.3	16.2	17.4	17.9	18.8	18.8	19.7	21.0
	3H	15.2	15.9	16.1	16.9	18.2	19.4	20.2	20.4	21.2	22.5
	4H	15.3	16.1	16.3	17.1	18.4	19.9	20.7	20.9	21.7	23.0
	6H	15.4	16.0	16.3	17.0	18.3	20.4	21.1	21.3	22.0	23.4
	8H	15.3	16.0	16.3	17.0	18.3	20.6	21.2	21.6	22.2	23.5
	12H	15.3	15.9	16.3	16.9	18.3	20.8	21.4	21.8	22.4	23.7
4H	2H	15.4	16.1	16.4	17.1	18.4	18.1	18.9	19.1	19.9	21.2
	3H	16.5	17.1	17.4	18.1	19.4	19.8	20.5	20.8	21.5	22.8
	4H	16.8	17.4	17.8	18.4	19.7	20.5	21.0	21.5	22.0	23.4
	6H	16.9	17.4	17.9	18.5	19.8	21.0	21.5	22.0	22.5	23.9
	8H	16.9	17.4	17.9	18.4	19.8	21.2	21.7	22.3	22.7	24.1
	12H	16.9	17.3	17.9	18.4	19.7	21.5	21.9	22.6	23.0	24.3
8H	4H	17.3	17.8	18.3	18.8	20.1	20.5	21.0	21.6	22.0	23.4
	6H	17.6	18.0	18.7	19.1	20.4	21.2	21.6	22.2	22.6	24.0
	8H	17.7	18.1	18.8	19.1	20.5	21.5	21.9	22.6	22.9	24.3
	12H	17.8	18.1	18.8	19.1	20.5	21.9	22.2	23.0	23.3	24.7
12H	4H	17.4	17.8	18.4	18.8	20.2	20.5	20.9	21.6	22.0	23.3
	6H	17.8	18.1	18.8	19.2	20.6	21.2	21.5	22.2	22.6	24.0
	8H	18.0	18.3	19.0	19.3	20.7	21.6	21.9	22.6	22.9	24.3

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 2820 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Horizontal Cone Through Vertical Angle (0)