

## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 13551818.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 11/4/2020  
 [MANUFAC] Lux Dynamics  
 [LUMCAT] 360P-4-D-835-xxx-xx-CA (modified from 2' IES file)  
 [LUMINAIRE] Gray cylindrical metal housing with diffuse plastic lens  
 [LAMP] White 612 LEDs  
 [BALLAST] Two (2) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB  
 [OTHER] 24.8 C, 277.008 V, 0.201276 A, 53.1278 W, 0.952878 PF, 59.9678  
 [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	15070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	106.2556
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.06 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34426	30973	30121
55	29331	25372	32960
65	21028	27827	24224
75	10271	21542	15897
85	2630	16842	10997

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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>	5118.0	5118.0	5118.0	5118.0	5118.0
<b>0.5</b>	5034.0	5100.0	5128.0	5150.0	5170.0
<b>1.0</b>	5032.0	5104.0	5136.0	5164.0	5184.0
<b>1.5</b>	5032.0	5110.0	5148.0	5176.0	5192.0
<b>2.0</b>	5034.0	5110.0	5160.0	5184.0	5200.0
<b>2.5</b>	5028.0	5118.0	5168.0	5194.0	5212.0
<b>3.0</b>	5028.0	5122.0	5178.0	5204.0	5216.0
<b>3.5</b>	5022.0	5128.0	5184.0	5202.0	5206.0
<b>4.0</b>	5020.0	5134.0	5192.0	5192.0	5198.0
<b>4.5</b>	5020.0	5138.0	5192.0	5184.0	5186.0
<b>5.0</b>	5020.0	5146.0	5186.0	5170.0	5176.0
<b>5.5</b>	5012.0	5150.0	5178.0	5162.0	5172.0
<b>6.0</b>	5010.0	5150.0	5162.0	5160.0	5162.0
<b>6.5</b>	5004.0	5154.0	5150.0	5146.0	5144.0
<b>7.0</b>	5004.0	5156.0	5140.0	5126.0	5130.0
<b>7.5</b>	4998.0	5156.0	5130.0	5114.0	5126.0
<b>8.0</b>	4992.0	5156.0	5118.0	5102.0	5138.0
<b>8.5</b>	4986.0	5148.0	5108.0	5108.0	5172.0
<b>9.0</b>	4982.0	5142.0	5092.0	5128.0	5228.0
<b>9.5</b>	4974.0	5132.0	5082.0	5170.0	5290.0
<b>10.0</b>	4962.0	5124.0	5072.0	5230.0	5340.0
<b>10.5</b>	4956.0	5108.0	5064.0	5286.0	5356.0
<b>11.0</b>	4952.0	5094.0	5064.0	5320.0	5332.0
<b>11.5</b>	4938.0	5080.0	5070.0	5330.0	5302.0
<b>12.0</b>	4932.0	5064.0	5094.0	5312.0	5278.0
<b>12.5</b>	4922.0	5048.0	5128.0	5284.0	5240.0
<b>13.0</b>	4914.0	5036.0	5164.0	5252.0	5202.0
<b>13.5</b>	4902.0	5020.0	5204.0	5214.0	5170.0
<b>14.0</b>	4890.0	5004.0	5230.0	5170.0	5152.0
<b>14.5</b>	4880.0	4986.0	5242.0	5138.0	5144.0
<b>15.0</b>	4872.0	4970.0	5242.0	5124.0	5140.0
<b>15.5</b>	4860.0	4954.0	5236.0	5116.0	5122.0
<b>16.0</b>	4846.0	4938.0	5214.0	5110.0	5124.0
<b>16.5</b>	4832.0	4920.0	5184.0	5094.0	5130.0
<b>17.0</b>	4816.0	4902.0	5146.0	5078.0	5124.0
<b>17.5</b>	4806.0	4886.0	5108.0	5078.0	5106.0
<b>18.0</b>	4786.0	4870.0	5072.0	5076.0	5088.0
<b>18.5</b>	4770.0	4860.0	5036.0	5066.0	5078.0
<b>19.0</b>	4752.0	4846.0	5004.0	5050.0	5072.0
<b>19.5</b>	4732.0	4838.0	4982.0	5038.0	5050.0
<b>20.0</b>	4712.0	4828.0	4970.0	5022.0	5012.0
<b>20.5</b>	4692.0	4818.0	4954.0	5010.0	4992.0
<b>21.0</b>	4674.0	4810.0	4932.0	4984.0	4990.0
<b>21.5</b>	4656.0	4804.0	4912.0	4954.0	4982.0
<b>22.0</b>	4634.0	4798.0	4892.0	4934.0	4964.0
<b>22.5</b>	4614.0	4792.0	4874.0	4930.0	4940.0
<b>23.0</b>	4596.0	4792.0	4858.0	4914.0	4910.0
<b>23.5</b>	4576.0	4790.0	4832.0	4888.0	4864.0
<b>24.0</b>	4560.0	4788.0	4814.0	4866.0	4814.0
<b>24.5</b>	4538.0	4788.0	4796.0	4838.0	4760.0
<b>25.0</b>	4520.0	4786.0	4780.0	4800.0	4690.0
<b>25.5</b>	4492.0	4780.0	4758.0	4754.0	4618.0
<b>26.0</b>	4472.0	4770.0	4734.0	4702.0	4562.0
<b>26.5</b>	4454.0	4758.0	4708.0	4640.0	4520.0

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**CANDELA TABULATION - (Cont.)**

27.0	4426.0	4742.0	4682.0	4582.0	4494.0
27.5	4404.0	4720.0	4660.0	4528.0	4470.0
28.0	4378.0	4698.0	4640.0	4476.0	4444.0
28.5	4354.0	4676.0	4614.0	4436.0	4432.0
29.0	4328.0	4646.0	4580.0	4408.0	4420.0
29.5	4302.0	4612.0	4536.0	4378.0	4400.0
30.0	4274.0	4576.0	4488.0	4350.0	4372.0
30.5	4244.0	4534.0	4440.0	4334.0	4348.0
31.0	4214.0	4496.0	4398.0	4318.0	4308.0
31.5	4188.0	4458.0	4362.0	4292.0	4238.0
32.0	4156.0	4422.0	4328.0	4260.0	4184.0
32.5	4128.0	4384.0	4290.0	4236.0	4154.0
33.0	4102.0	4342.0	4250.0	4198.0	4108.0
33.5	4072.0	4298.0	4208.0	4138.0	4080.0
34.0	4040.0	4256.0	4166.0	4090.0	4076.0
34.5	4012.0	4208.0	4130.0	4058.0	4096.0
35.0	3984.0	4160.0	4100.0	4024.0	4110.0
35.5	3954.0	4110.0	4080.0	3992.0	4120.0
36.0	3926.0	4068.0	4048.0	3970.0	4116.0
36.5	3898.0	4028.0	4010.0	3966.0	4060.0
37.0	3862.0	3988.0	3974.0	3976.0	3962.0
37.5	3832.0	3952.0	3932.0	3990.0	3862.0
38.0	3798.0	3918.0	3886.0	3990.0	3768.0
38.5	3768.0	3884.0	3844.0	3966.0	3704.0
39.0	3730.0	3848.0	3806.0	3892.0	3656.0
39.5	3690.0	3812.0	3768.0	3780.0	3618.0
40.0	3656.0	3774.0	3726.0	3664.0	3590.0
40.5	3622.0	3730.0	3694.0	3560.0	3568.0
41.0	3584.0	3688.0	3660.0	3488.0	3550.0
41.5	3548.0	3646.0	3614.0	3446.0	3524.0
42.0	3514.0	3604.0	3582.0	3414.0	3498.0
42.5	3480.0	3560.0	3548.0	3390.0	3474.0
43.0	3450.0	3512.0	3498.0	3366.0	3450.0
43.5	3418.0	3464.0	3448.0	3338.0	3420.0
44.0	3384.0	3420.0	3394.0	3310.0	3402.0
44.5	3348.0	3374.0	3348.0	3278.0	3366.0
45.0	3308.0	3326.0	3310.0	3238.0	3326.0
45.5	3270.0	3280.0	3276.0	3202.0	3298.0
46.0	3230.0	3230.0	3242.0	3172.0	3270.0
46.5	3188.0	3182.0	3210.0	3160.0	3234.0
47.0	3142.0	3138.0	3166.0	3136.0	3202.0
47.5	3092.0	3096.0	3106.0	3108.0	3164.0
48.0	3042.0	3056.0	3042.0	3076.0	3126.0
48.5	2994.0	3018.0	2974.0	3042.0	3112.0
49.0	2938.0	2980.0	2906.0	3002.0	3106.0
49.5	2886.0	2942.0	2842.0	2966.0	3100.0
50.0	2836.0	2902.0	2784.0	2936.0	3070.0
50.5	2780.0	2852.0	2732.0	2896.0	3032.0
51.0	2724.0	2806.0	2686.0	2870.0	3000.0
51.5	2676.0	2760.0	2640.0	2858.0	2988.0
52.0	2620.0	2718.0	2598.0	2860.0	2994.0
52.5	2566.0	2672.0	2556.0	2858.0	3026.0
53.0	2512.0	2628.0	2510.0	2850.0	3062.0
53.5	2456.0	2578.0	2460.0	2848.0	3100.0
54.0	2404.0	2526.0	2404.0	2850.0	3114.0
54.5	2354.0	2476.0	2352.0	2866.0	3134.0

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55.0	2302.0	2424.0	2308.0	2886.0	3134.0
55.5	2250.0	2374.0	2278.0	2896.0	3100.0
56.0	2196.0	2324.0	2258.0	2896.0	3054.0
56.5	2144.0	2272.0	2232.0	2878.0	3008.0
57.0	2090.0	2220.0	2200.0	2858.0	2940.0
57.5	2036.0	2166.0	2166.0	2838.0	2858.0
58.0	1981.6	2114.0	2134.0	2804.0	2766.0
58.5	1926.4	2062.0	2108.0	2762.0	2668.0
59.0	1871.2	2012.0	2088.0	2716.0	2572.0
59.5	1818.2	1961.8	2076.0	2662.0	2484.0
60.0	1763.2	1912.4	2074.0	2590.0	2408.0
60.5	1708.8	1863.6	2080.0	2512.0	2338.0
61.0	1654.4	1816.0	2096.0	2430.0	2260.0
61.5	1600.2	1769.4	2124.0	2346.0	2196.0
62.0	1546.6	1723.8	2150.0	2260.0	2134.0
62.5	1492.8	1678.6	2166.0	2180.0	2078.0
63.0	1439.8	1634.6	2164.0	2114.0	2032.0
63.5	1387.4	1591.6	2146.0	2060.0	2002.0
64.0	1334.8	1549.8	2114.0	2014.0	1970.0
64.5	1282.6	1509.2	2068.0	1973.6	1926.4
65.0	1230.0	1469.2	2012.0	1937.8	1861.8
65.5	1177.0	1428.0	1951.8	1900.6	1788.6
66.0	1124.8	1386.4	1892.8	1861.8	1709.4
66.5	1072.4	1346.2	1838.0	1814.0	1628.8
67.0	1020.4	1306.4	1789.2	1762.6	1558.0
67.5	969.2	1266.8	1747.4	1705.6	1498.6
68.0	919.2	1228.8	1710.4	1637.6	1449.6
68.5	870.4	1191.6	1677.4	1560.2	1409.0
69.0	822.8	1155.0	1646.8	1483.2	1369.0
69.5	776.4	1119.4	1619.8	1412.2	1326.2
70.0	732.0	1084.0	1594.0	1351.4	1278.0
70.5	689.2	1050.6	1564.2	1298.0	1225.6
71.0	648.0	1018.2	1525.4	1251.6	1178.8
71.5	608.6	988.2	1480.8	1208.2	1130.0
72.0	570.6	959.6	1431.0	1170.8	1087.8
72.5	534.4	932.4	1375.4	1139.6	1043.4
73.0	500.0	906.4	1320.6	1107.0	1003.4
73.5	466.8	881.0	1265.0	1070.8	971.2
74.0	435.4	856.6	1209.2	1026.4	940.2
74.5	405.2	831.8	1156.4	971.2	913.8
75.0	377.2	806.8	1108.2	915.8	895.0
75.5	350.2	781.0	1063.6	865.6	875.8
76.0	324.4	753.4	1021.6	823.6	851.4
76.5	299.6	724.4	982.4	789.8	821.4
77.0	276.4	695.0	946.2	760.2	787.2
77.5	254.0	664.8	911.8	734.0	751.6
78.0	233.2	634.0	876.4	711.2	717.4
78.5	213.8	603.6	839.0	692.2	684.4
79.0	194.4	573.8	799.6	673.2	651.4
79.5	177.0	544.6	762.0	652.8	621.0
80.0	160.0	515.8	727.6	630.6	596.2
80.5	143.8	488.6	694.6	606.0	573.0
81.0	128.6	462.0	664.0	581.4	549.6
81.5	114.4	436.0	636.0	557.6	525.8
82.0	101.0	410.8	611.0	534.4	502.4
82.5	88.2	385.8	587.4	512.8	479.2

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**CANDELA TABULATION - (Cont.)**

83.0	76.2	362.2	565.6	492.8	458.0
83.5	65.2	339.0	546.0	474.2	436.4
84.0	54.8	317.4	527.2	456.0	414.6
84.5	45.2	296.6	508.2	437.4	393.6
85.0	36.4	277.2	488.8	418.6	374.2
85.5	28.2	258.6	470.0	400.0	358.2
86.0	20.8	241.0	451.6	381.8	342.4
86.5	14.4	224.4	433.4	365.2	326.8
87.0	8.6	209.2	416.8	349.2	312.0
87.5	4.0	195.4	401.0	333.8	299.0
88.0	1.4	182.6	385.8	319.4	286.8
88.5	0.0	171.6	372.0	305.4	273.4
89.0	0.0	161.8	358.6	293.2	261.6
89.5	0.0	153.2	346.2	282.2	250.4
90.0	0.0	145.6	334.6	271.4	241.2
90.5	0.0	139.0	324.2	261.6	230.8
91.0	0.0	133.4	314.2	251.8	222.4
91.5	0.0	128.4	304.8	242.4	215.8
92.0	0.0	124.0	296.2	233.2	209.4
92.5	0.0	120.0	287.0	225.4	202.2
93.0	0.0	116.6	278.4	217.6	196.2
93.5	0.0	113.4	270.6	210.2	190.8
94.0	0.0	110.4	263.2	202.8	185.8
94.5	0.0	107.8	256.2	195.8	181.0
95.0	0.0	105.6	248.6	189.4	176.2
95.5	0.0	103.8	241.2	183.2	171.4
96.0	0.0	102.4	234.4	177.6	167.2
96.5	0.0	101.2	227.2	172.4	163.2
97.0	0.0	100.4	219.8	167.8	159.4
97.5	0.0	99.8	213.2	163.6	156.4
98.0	0.0	99.6	207.4	159.8	154.0
98.5	0.0	99.6	201.8	156.6	152.4
99.0	0.0	99.4	196.8	153.8	151.4
99.5	0.0	99.4	192.6	151.4	150.6
100.0	0.0	99.8	188.4	149.6	149.0
100.5	0.0	100.0	185.2	148.2	147.6
101.0	0.0	100.6	181.6	146.8	146.6
101.5	0.0	101.2	178.4	145.8	145.8
102.0	0.0	102.0	176.2	145.0	145.2
102.5	0.0	102.8	174.2	144.8	144.8
103.0	0.0	103.6	172.8	144.6	144.2
103.5	0.0	104.2	170.8	144.4	143.8
104.0	0.0	104.6	168.6	144.4	143.0
104.5	0.0	105.0	166.4	144.4	142.6
105.0	0.0	105.4	163.8	144.6	142.0
105.5	0.0	105.4	161.4	145.0	142.0
106.0	0.0	105.4	159.6	145.2	142.4
106.5	0.0	105.2	158.4	145.4	143.0
107.0	0.0	105.0	157.2	145.4	143.4
107.5	0.0	104.2	156.0	145.8	143.8
108.0	0.0	103.4	154.8	146.4	144.2
108.5	0.0	102.2	154.0	147.0	144.6
109.0	0.0	101.0	153.2	147.2	145.2
109.5	0.0	99.6	152.6	147.4	145.6
110.0	0.0	98.0	152.0	147.2	146.4
110.5	0.0	96.6	151.4	146.8	146.8

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**CANDELA TABULATION - (Cont.)**

111.0	0.0	95.0	151.0	146.0	147.2
111.5	0.0	93.6	150.8	145.2	147.4
112.0	0.0	92.0	151.0	144.8	147.2
112.5	0.0	90.2	150.8	144.0	146.8
113.0	0.0	88.6	150.8	143.0	146.4
113.5	0.0	86.8	150.6	141.6	146.0
114.0	0.0	84.8	150.4	140.0	145.2
114.5	0.0	82.8	150.2	138.6	144.2
115.0	0.0	80.6	150.0	137.4	142.8
115.5	0.0	78.6	150.0	136.4	141.2
116.0	0.0	76.4	150.0	135.4	139.6
116.5	0.0	74.4	149.6	134.6	137.8
117.0	0.0	72.4	148.8	133.8	136.0
117.5	0.0	70.4	147.6	133.2	134.4
118.0	0.0	68.0	145.8	132.6	133.0
118.5	0.0	65.8	144.2	132.2	132.0
119.0	0.0	63.6	142.2	131.8	131.2
119.5	0.0	61.0	139.8	131.4	130.2
120.0	0.0	58.8	137.4	131.0	129.6
120.5	0.0	56.4	134.8	131.0	129.0
121.0	0.0	54.0	132.0	130.6	128.4
121.5	0.0	51.6	129.2	130.2	128.0
122.0	0.0	49.2	126.0	130.0	127.8
122.5	0.0	47.0	123.0	129.4	127.4
123.0	0.0	44.8	120.0	128.8	127.2
123.5	0.0	42.6	117.2	128.2	126.6
124.0	0.0	40.4	114.4	127.2	126.0
124.5	0.0	38.4	112.0	126.2	125.2
125.0	0.0	36.4	109.4	125.0	124.2
125.5	0.0	34.4	107.0	123.4	123.4
126.0	0.0	32.4	104.4	121.8	122.4
126.5	0.0	30.4	101.8	119.8	121.4
127.0	0.0	28.4	99.0	118.0	120.4
127.5	0.0	26.6	96.2	116.0	119.2
128.0	0.0	24.8	93.6	113.8	118.0
128.5	0.0	23.0	90.8	112.0	116.6
129.0	0.0	21.4	88.2	110.0	115.0
129.5	0.0	19.6	85.8	108.2	113.2
130.0	0.0	18.0	83.6	106.4	111.6
130.5	0.0	16.4	81.2	104.8	109.6
131.0	0.0	14.8	79.0	103.2	107.8
131.5	0.0	13.4	76.8	101.8	106.0
132.0	0.0	12.2	74.6	100.2	104.2
132.5	0.0	11.0	72.4	98.8	102.8
133.0	0.0	9.8	70.2	97.6	101.4
133.5	0.0	8.8	68.0	96.2	100.2
134.0	0.0	7.8	65.8	94.8	99.0
134.5	0.0	6.8	63.6	93.4	97.6
135.0	0.0	6.0	61.2	91.4	96.4
135.5	0.0	5.0	59.2	89.6	95.2
136.0	0.0	4.4	57.0	87.6	94.2
136.5	0.0	3.8	55.0	85.4	93.0
137.0	0.0	3.2	53.0	83.0	91.8
137.5	0.0	2.8	51.0	80.8	90.4
138.0	0.0	2.4	49.0	78.8	88.6
138.5	0.0	2.0	47.0	76.8	86.8

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

139.0	0.0	1.8	45.0	74.6	84.8
139.5	0.0	1.6	43.0	72.6	83.0
140.0	0.0	1.4	41.0	70.4	81.2
140.5	0.0	1.4	39.0	68.4	79.2
141.0	0.0	1.2	37.0	66.4	77.2
141.5	0.0	1.0	35.4	64.2	75.4
142.0	0.0	1.0	33.6	61.8	73.0
142.5	0.0	0.8	31.8	59.2	70.6
143.0	0.0	0.8	30.2	56.8	68.2
143.5	0.0	0.6	28.6	55.4	66.2
144.0	0.0	0.6	27.2	53.8	64.0
144.5	0.0	0.6	25.8	51.8	61.8
145.0	0.0	0.4	24.2	50.0	59.8
145.5	0.0	0.4	22.8	48.0	58.0
146.0	0.0	0.4	21.4	46.2	55.8
146.5	0.0	0.4	19.8	44.0	53.8
147.0	0.0	0.4	18.6	41.8	51.4
147.5	0.0	0.4	17.2	39.6	48.2
148.0	0.0	0.2	16.2	37.6	44.4
148.5	0.0	0.2	15.0	35.4	41.0
149.0	0.0	0.2	14.0	33.4	38.6
149.5	0.0	0.0	12.8	31.4	36.2
150.0	0.0	0.0	12.0	29.4	33.8
150.5	0.0	0.0	11.0	27.6	32.0
151.0	0.0	0.0	10.0	25.8	30.8
151.5	0.0	0.0	9.0	24.2	29.4
152.0	0.0	0.0	8.2	22.6	27.6
152.5	0.0	0.0	7.4	21.2	26.0
153.0	0.0	0.0	6.8	19.8	24.6
153.5	0.0	0.0	6.2	18.4	23.0
154.0	0.0	0.0	5.6	17.0	21.4
154.5	0.0	0.0	5.0	15.8	19.8
155.0	0.0	0.0	4.6	14.6	18.4
155.5	0.0	0.0	4.2	13.4	17.0
156.0	0.0	0.0	3.8	12.4	15.6
156.5	0.0	0.0	3.4	11.4	14.2
157.0	0.0	0.0	3.2	10.4	13.2
157.5	0.0	0.0	3.0	9.4	12.0
158.0	0.0	0.0	3.0	8.6	10.8
158.5	0.0	0.0	2.8	7.8	9.8
159.0	0.0	0.0	2.6	7.0	9.0
159.5	0.0	0.0	2.6	6.2	8.2
160.0	0.0	0.0	2.4	5.6	7.2
160.5	0.0	0.0	2.2	5.0	6.4
161.0	0.0	0.0	1.8	4.4	5.6
161.5	0.0	0.0	1.6	4.0	4.8
162.0	0.0	0.0	1.4	3.6	4.2
162.5	0.0	0.0	1.2	3.2	3.8
163.0	0.0	0.0	0.8	3.0	3.4
163.5	0.0	0.0	0.6	2.8	3.0
164.0	0.0	0.0	0.4	2.6	2.8
164.5	0.0	0.0	0.2	2.4	2.6
165.0	0.0	0.0	0.0	1.8	2.4
165.5	0.0	0.0	0.0	1.6	2.2
166.0	0.0	0.0	0.0	1.4	1.6
166.5	0.0	0.0	0.0	1.0	1.4

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

167.0	0.0	0.0	0.0	0.6	1.2
167.5	0.0	0.0	0.0	0.2	0.8
168.0	0.0	0.0	0.0	0.0	0.4
168.5	0.0	0.0	0.0	0.0	0.0
169.0	0.0	0.0	0.0	0.0	0.0
169.5	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
170.5	0.0	0.0	0.0	0.0	0.0
171.0	0.0	0.0	0.0	0.0	0.0
171.5	0.0	0.0	0.0	0.0	0.0
172.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0
173.0	0.0	0.0	0.0	0.0	0.0
173.5	0.0	0.0	0.0	0.0	0.0
174.0	0.0	0.0	0.0	0.0	0.0
174.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
175.5	0.0	0.0	0.0	0.0	0.0
176.0	0.0	0.0	0.0	0.0	0.0
176.5	0.0	0.0	0.0	0.0	0.0
177.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
178.0	0.0	0.0	0.0	0.0	0.0
178.5	0.0	0.0	0.0	0.0	0.0
179.0	0.0	0.0	0.0	0.0	0.0
179.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0



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

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1922.75	N.A.	12.80
0-30	4097.61	N.A.	27.20
0-40	6656.34	N.A.	44.20
0-60	11490.41	N.A.	76.20
0-80	14126.42	N.A.	93.70
0-90	14519.74	N.A.	96.30
10-90	14029.89	N.A.	93.10
20-40	4733.6	N.A.	31.40
20-50	7278.5	N.A.	48.30
40-70	6537.99	N.A.	43.40
60-80	2636.02	N.A.	17.50
70-80	932.09	N.A.	6.20
80-90	393.32	N.A.	2.60
90-110	306.31	N.A.	2.00
90-120	414.94	N.A.	2.80
90-130	489.41	N.A.	3.20
90-150	546.56	N.A.	3.60
90-180	550.59	N.A.	3.70
110-180	244.28	N.A.	1.60
0-180	15070.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	489.85
10-20	1432.89
20-30	2174.86
30-40	2558.74
40-50	2544.9
50-60	2289.16
60-70	1703.93
70-80	932.09
80-90	393.32
90-100	177.54
100-110	128.77
110-120	108.63
120-130	74.47
130-140	40.41
140-150	16.75
150-160	3.71
160-170	0.32
170-180	0.00

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

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	108	103	99	95	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	90	83	77	95	88	81	76	83	78	74	80	75	72	76	73	69	67
3	89	79	71	64	87	77	70	64	74	67	62	70	65	60	67	63	59	57
4	82	70	61	55	79	68	60	54	66	58	53	63	57	52	60	55	51	48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	49	44	42
6	70	56	48	41	68	55	47	41	53	46	40	51	45	40	49	43	39	37
7	65	51	42	36	63	50	42	36	48	41	36	47	40	35	45	39	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	35	30	25	24

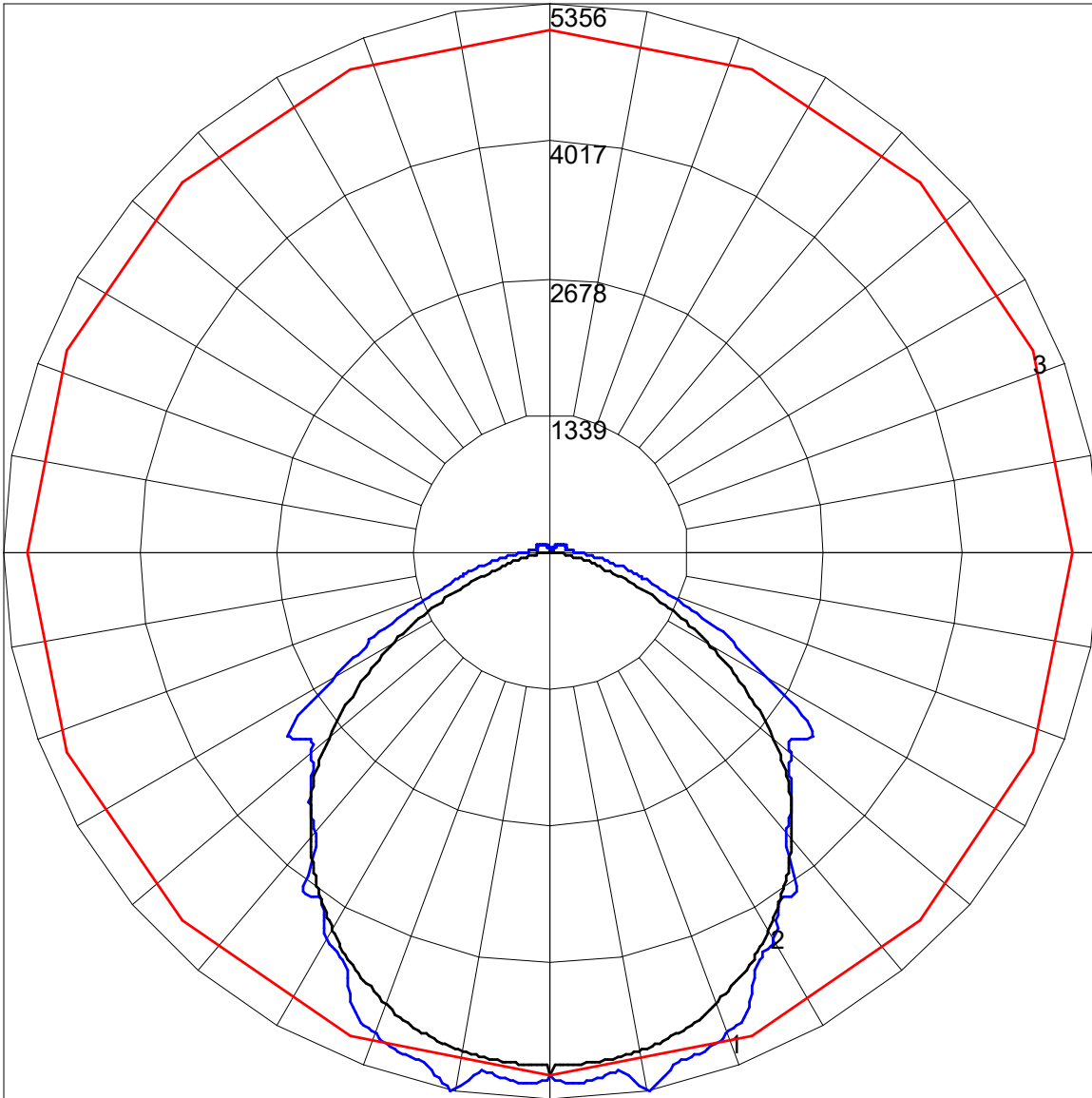
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 16K 360P-4-D-835-CA.IES**

**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	22.5	24.0	22.9	24.4	24.8	24.9	26.4	25.3	26.8	27.2
	3H	23.5	24.9	24.0	25.3	25.8	26.2	27.6	26.7	28.0	28.5
	4H	23.8	25.1	24.2	25.5	26.0	26.7	28.0	27.2	28.4	28.9
	6H	23.8	25.0	24.3	25.5	26.0	27.1	28.3	27.6	28.7	29.2
	8H	23.8	25.0	24.3	25.5	25.9	27.3	28.4	27.7	28.9	29.4
	12H	23.8	24.9	24.3	25.4	25.9	27.4	28.5	27.9	29.0	29.5
4H	2H	23.5	24.8	24.0	25.2	25.7	25.4	26.7	25.8	27.1	27.6
	3H	24.8	25.9	25.3	26.4	26.9	26.9	28.0	27.4	28.5	29.0
	4H	25.2	26.2	25.7	26.7	27.2	27.5	28.5	28.0	29.0	29.5
	6H	25.4	26.3	25.9	26.8	27.4	28.0	28.9	28.5	29.4	29.9
	8H	25.5	26.3	26.0	26.8	27.3	28.2	29.0	28.7	29.6	30.1
	12H	25.5	26.2	26.0	26.7	27.3	28.5	29.2	29.0	29.7	30.3
8H	4H	25.7	26.6	26.3	27.1	27.6	27.7	28.5	28.2	29.0	29.6
	6H	26.1	26.8	26.7	27.4	27.9	28.3	29.0	28.9	29.6	30.2
	8H	26.2	26.8	26.8	27.4	28.0	28.7	29.3	29.2	29.8	30.4
	12H	26.3	26.8	26.9	27.4	28.0	29.0	29.5	29.6	30.1	30.7
12H	4H	25.8	26.5	26.4	27.1	27.6	27.7	28.4	28.3	29.0	29.6
	6H	26.3	26.9	26.8	27.4	28.0	28.4	29.0	29.0	29.5	30.2
	8H	26.5	27.0	27.0	27.5	28.2	28.8	29.3	29.3	29.9	30.5

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 5356 Located At Horizontal Angle = 90, Vertical Angle = 10.5  
# 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)