



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVHOWT50VWD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1
 [TESTLAB] BEGHELLI
 [TESTDATE] 2016-04-05
 [ISSUEDATE] 2016-04-07 09:10:48
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [MANUFAC] BEGHELLI
 [LUMINAIRE] NUVHTVHOWT50VWD120-277V
 [LAMP] 5000K Ra80

CHARACTERISTICS

Lumens Per Lamp	37783 (1 lamp)
Total Lamp Lumens	37783
Luminaire Lumens	37782
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	290.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.38 m (Diameter)
Luminous Width (90-270)	0.38 m (Diameter)
Luminous Height	0.20 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	70847	71035	70656
55	57483	57576	57075
65	39352	39575	38993
75	17235	17308	16914
85	1045	1027	920

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01
1	13438.07	13438.41	13437.62	13437.93	13436.90	13436.39	13435.97	13434.42	13434.75	13433.62
2	13434.06	13436.26	13433.20	13434.67	13432.34	13432.54	13431.00	13428.75	13428.73	13425.55
3	13426.77	13429.21	13426.52	13428.03	13425.50	13425.30	13422.99	13419.46	13419.80	13415.44
4	13417.65	13419.38	13415.84	13417.33	13414.72	13414.00	13412.42	13407.57	13407.13	13401.60
5	13402.86	13406.65	13402.12	13404.11	13399.99	13399.56	13397.31	13391.51	13391.00	13384.64
6	13385.32	13389.95	13384.18	13386.73	13381.84	13381.92	13378.83	13371.42	13371.84	13364.24
7	13364.81	13368.40	13363.62	13365.80	13359.10	13360.56	13358.08	13349.32	13348.37	13340.27
8	13338.91	13343.80	13336.92	13340.72	13332.28	13335.15	13332.06	13322.39	13321.77	13312.62
9	13308.41	13314.44	13306.96	13310.53	13302.34	13305.50	13300.68	13290.09	13291.33	13281.03
10	13271.66	13278.73	13272.46	13276.69	13266.41	13269.69	13266.30	13253.95	13255.86	13243.97
11	13231.58	13239.70	13230.91	13236.44	13226.76	13229.85	13226.31	13213.94	13215.60	13203.53
12	13186.52	13195.56	13186.21	13193.16	13182.44	13186.27	13182.40	13168.42	13171.11	13158.98
13	13136.71	13145.42	13136.47	13144.09	13133.89	13138.28	13134.46	13119.62	13122.57	13108.45
14	13082.64	13092.74	13083.93	13092.99	13082.49	13085.89	13082.07	13066.20	13070.70	13054.99
15	13027.06	13035.82	13027.52	13036.27	13026.46	13029.63	13025.66	13010.60	13014.07	12996.16
16	12967.76	12976.75	12967.97	12975.93	12964.22	12970.21	12964.54	12949.29	12952.30	12935.11
17	12903.28	12914.09	12903.82	12912.27	12899.41	12905.50	12901.59	12884.44	12888.89	12867.70
18	12834.91	12845.61	12833.84	12844.71	12831.76	12838.32	12832.83	12817.33	12820.23	12799.04
19	12765.68	12776.25	12762.45	12772.70	12757.96	12767.74	12762.02	12743.48	12747.87	12725.54
20	12690.39	12700.72	12687.47	12696.16	12682.86	12691.58	12686.21	12667.52	12671.67	12647.42
21	12612.00	12622.24	12607.32	12617.10	12602.91	12612.28	12605.99	12587.01	12589.93	12566.10
22	12529.69	12541.66	12524.35	12534.18	12517.83	12528.45	12523.80	12501.44	12505.15	12480.02
23	12444.17	12456.43	12437.58	12447.75	12430.04	12440.26	12435.78	12413.83	12416.92	12390.47
24	12354.06	12366.67	12347.23	12357.24	12339.48	12348.68	12346.00	12321.29	12324.22	12298.21
25	12261.54	12274.47	12253.88	12263.02	12244.35	12254.36	12250.91	12225.14	12227.78	12199.74
26	12164.77	12179.29	12156.92	12165.56	12144.79	12154.94	12151.47	12125.30	12128.43	12100.01
27	12062.83	12079.38	12054.76	12063.16	12041.65	12051.24	12048.35	12020.40	12024.17	11994.01
28	11957.00	11974.41	11952.87	11958.28	11935.65	11944.00	11941.19	11911.12	11915.92	11883.86
29	11847.92	11866.72	11841.56	11847.50	11825.21	11832.52	11828.98	11799.18	11803.87	11767.91
30	11734.24	11754.31	11728.46	11735.83	11707.60	11718.47	11714.22	11683.30	11687.67	11655.28
31	11615.77	11639.51	11610.75	11617.39	11589.62	11598.03	11594.41	11562.21	11568.42	11532.47
32	11494.11	11515.85	11488.80	11494.23	11465.23	11476.40	11469.90	11435.94	11442.12	11405.49
33	11365.82	11391.03	11362.25	11367.88	11337.20	11347.83	11341.10	11305.08	11315.18	11272.74
34	11233.67	11258.66	11229.72	11237.19	11201.57	11215.71	11207.28	11171.68	11179.22	11144.31
35	11099.44	11125.78	11094.09	11103.42	11067.53	11078.22	11069.67	11033.90	11043.38	11005.30
36	10958.46	10984.22	10952.58	10962.55	10924.79	10937.62	10927.66	10890.34	10898.34	10862.94
37	10813.14	10840.74	10808.41	10821.07	10781.05	10790.38	10781.15	10744.08	10754.83	10717.59
38	10663.62	10691.18	10658.74	10674.56	10629.76	10642.24	10630.75	10592.48	10602.86	10566.25
39	10510.87	10537.68	10505.36	10519.71	10481.51	10488.25	10477.65	10435.47	10453.10	10412.34
40	10352.49	10380.43	10350.70	10362.74	10322.78	10330.20	10320.52	10278.46	10291.51	10252.34
41	10189.28	10218.54	10187.65	10202.72	10163.68	10168.32	10157.82	10114.57	10129.44	10089.73
42	10023.05	10051.85	10025.15	10038.33	9999.43	10000.50	9992.89	9947.93	9961.35	9920.21
43	9851.57	9880.78	9854.31	9870.36	9828.45	9830.00	9824.05	9776.35	9794.10	9749.71
44	9673.47	9703.90	9677.12	9696.96	9654.68	9651.95	9648.38	9600.97	9612.19	9571.11
45	9492.90	9522.84	9498.05	9518.06	9475.56	9472.70	9467.24	9420.45	9434.19	9389.61
46	9309.90	9339.07	9311.52	9335.55	9292.13	9288.98	9283.06	9232.99	9243.28	9203.05
47	9119.08	9151.34	9121.78	9147.54	9102.94	9101.61	9094.03	9045.72	9054.49	9011.90
48	8922.37	8956.15	8924.91	8953.44	8909.84	8904.96	8894.85	8848.73	8856.38	8816.33
49	8717.72	8754.91	8722.37	8752.85	8707.93	8705.46	8694.11	8649.22	8659.87	8612.97
50	8508.98	8546.78	8511.83	8545.97	8500.07	8503.86	8487.93	8445.72	8451.24	8409.70
51	8296.79	8338.83	8302.95	8335.18	8289.97	8292.40	8272.38	8234.57	8244.89	8200.12
52	8081.82	8118.98	8079.39	8106.27	8060.76	8065.44	8039.82	7999.29	8021.38	7981.06
53	7842.17	7874.44	7834.88	7857.72	7812.86	7815.46	7790.99	7749.65	7778.53	7733.69

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54	7587.10	7621.40	7571.97	7602.69	7555.95	7561.83	7531.91	7488.33	7518.79	7475.22
55	7320.97	7356.66	7310.87	7332.85	7285.69	7295.57	7269.00	7218.34	7243.78	7203.40
56	7058.55	7093.57	7052.15	7074.75	7018.87	7038.88	7013.85	6958.98	6970.67	6931.30
57	6806.77	6837.97	6803.93	6818.25	6761.49	6786.63	6757.73	6699.16	6711.32	6668.65
58	6555.03	6577.74	6549.66	6561.10	6502.09	6526.67	6502.30	6440.11	6454.61	6411.64
59	6294.90	6319.18	6290.55	6300.52	6245.09	6270.40	6241.53	6183.77	6200.78	6151.12
60	6030.48	6057.69	6026.57	6041.47	5983.31	6008.11	5975.76	5925.77	5939.74	5891.47
61	5767.31	5797.47	5764.27	5786.39	5724.35	5745.19	5714.54	5668.95	5683.20	5629.59
62	5495.19	5533.66	5495.54	5522.67	5459.26	5477.98	5447.30	5404.81	5415.91	5364.06
63	5212.51	5255.28	5206.02	5239.06	5173.94	5186.75	5156.74	5119.92	5139.94	5089.85
64	4909.07	4952.53	4902.31	4934.08	4869.32	4881.52	4856.28	4814.56	4840.40	4789.92
65	4598.57	4642.71	4595.95	4624.69	4569.11	4574.83	4556.68	4517.36	4534.26	4478.73
66	4307.02	4357.59	4310.78	4333.42	4281.89	4288.47	4271.00	4235.62	4245.78	4191.19
67	4028.03	4075.60	4030.47	4041.67	3998.38	4005.24	3993.63	3946.05	3966.30	3909.33
68	3757.75	3796.85	3756.79	3759.02	3719.73	3728.12	3716.21	3673.60	3690.04	3630.62
69	3476.79	3512.13	3472.96	3474.97	3428.25	3441.24	3427.99	3383.85	3405.56	3354.26
70	3163.16	3200.86	3165.47	3176.07	3125.87	3133.25	3119.38	3074.85	3099.71	3051.41
71	2863.74	2913.75	2866.05	2890.49	2832.21	2842.70	2838.61	2781.94	2818.63	2761.45
72	2582.10	2626.63	2583.88	2604.91	2552.09	2552.39	2557.84	2510.39	2537.55	2489.56
73	2315.31	2339.52	2319.02	2319.33	2284.34	2286.76	2277.02	2241.32	2256.47	2228.33
74	2037.85	2052.99	2036.65	2035.24	2007.93	2009.55	1992.60	1967.92	1975.12	1953.35
75	1771.86	1790.57	1774.87	1779.37	1751.79	1753.23	1738.85	1713.80	1723.28	1701.73
76	1524.73	1545.13	1526.03	1537.22	1504.98	1510.21	1496.68	1470.33	1482.41	1460.92
77	1286.52	1305.74	1293.24	1294.29	1268.89	1269.55	1261.72	1237.23	1248.87	1231.43
78	1065.59	1077.93	1074.33	1068.20	1053.76	1045.82	1038.81	1026.07	1026.57	1023.27
79	844.72	869.97	855.42	861.93	838.75	844.47	833.22	814.99	826.89	815.24
80	661.07	676.46	667.93	670.00	654.83	652.32	647.58	632.89	644.34	627.20
81	495.48	504.91	495.58	500.40	487.50	486.23	479.44	468.17	481.66	467.00
82	350.10	361.02	352.16	355.18	344.02	346.07	337.19	330.10	339.80	332.67
83	235.62	259.22	238.00	254.20	232.66	245.53	239.74	218.97	239.33	220.89
84	152.22	157.76	151.55	153.27	147.11	145.14	142.42	134.85	139.24	138.34
85	89.45	91.29	87.60	87.94	83.27	80.46	78.76	75.74	79.78	78.34
86	42.66	45.39	44.04	43.56	39.94	39.85	38.41	37.53	39.19	39.05
87	21.74	22.21	22.87	23.17	22.98	22.80	22.08	21.98	22.20	22.26
88	18.26	18.57	18.64	18.89	19.05	19.31	18.66	18.62	18.94	18.95
89	15.77	15.86	15.95	16.00	16.09	16.22	15.65	15.69	15.84	15.77
90	16.16	16.17	16.13	16.21	16.23	16.33	15.71	15.74	15.81	15.83

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01	13438.01
1	13433.11	13431.93	13432.96	13431.98	13433.35	13433.16	13434.71	13435.20	13435.30	13436.41
2	13425.18	13423.35	13425.41	13424.19	13425.39	13425.77	13428.81	13428.67	13429.72	13432.23
3	13414.24	13412.38	13414.55	13412.09	13414.78	13414.79	13419.00	13419.13	13420.13	13423.17
4	13401.02	13397.17	13400.42	13397.39	13399.92	13400.01	13405.61	13405.71	13407.31	13411.31
5	13384.41	13378.12	13381.91	13378.67	13381.22	13381.64	13388.28	13388.48	13390.61	13395.55
6	13363.29	13356.77	13359.75	13356.95	13360.69	13360.12	13367.78	13367.21	13369.70	13375.36
7	13339.14	13332.59	13335.38	13330.57	13335.81	13335.25	13343.16	13342.57	13345.62	13352.42
8	13311.79	13303.15	13306.22	13301.02	13308.25	13305.70	13315.11	13314.10	13316.61	13325.63
9	13280.47	13269.81	13274.14	13267.74	13274.52	13272.55	13282.74	13281.14	13284.50	13295.04
10	13245.40	13233.04	13236.58	13229.94	13237.86	13235.22	13245.75	13244.25	13248.81	13260.49
11	13205.43	13192.29	13195.33	13188.78	13196.25	13193.68	13204.56	13202.45	13207.90	13221.50
12	13161.20	13146.84	13150.10	13142.03	13151.01	13146.99	13159.81	13156.84	13162.60	13178.17
13	13111.92	13096.15	13100.20	13092.13	13102.97	13098.09	13110.65	13107.28	13114.14	13130.43
14	13058.25	13040.96	13046.60	13038.25	13050.37	13043.08	13058.03	13053.73	13060.10	13077.88

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15	13000.34	12983.18	12986.73	12979.09	12992.50	12984.91	12999.05	12996.48	13003.17	13022.57
16	12936.97	12919.29	12925.08	12917.07	12928.93	12921.60	12937.92	12934.52	12942.44	12961.84
17	12872.55	12853.09	12860.01	12849.73	12862.94	12855.59	12872.91	12868.82	12878.05	12898.47
18	12801.78	12781.78	12790.77	12779.54	12793.40	12784.56	12804.49	12799.29	12809.08	12830.04
19	12728.65	12706.42	12716.76	12703.25	12719.91	12710.29	12730.70	12725.57	12736.91	12758.81
20	12651.63	12628.02	12640.22	12623.64	12640.58	12631.85	12652.42	12648.66	12659.51	12682.80
21	12569.86	12547.40	12558.30	12540.85	12557.20	12549.56	12572.67	12568.34	12578.82	12603.66
22	12484.09	12461.86	12472.54	12454.47	12471.38	12462.77	12485.80	12483.94	12494.68	12521.14
23	12395.68	12371.57	12382.95	12364.18	12382.82	12371.18	12396.78	12392.57	12406.66	12434.10
24	12303.22	12277.54	12289.26	12269.74	12287.26	12276.83	12303.03	12299.73	12312.89	12342.62
25	12206.73	12181.53	12191.64	12173.07	12188.39	12180.07	12207.38	12204.80	12216.24	12247.55
26	12107.00	12079.54	12090.07	12071.64	12087.15	12076.92	12105.73	12103.59	12114.57	12148.20
27	12000.57	11973.49	11985.73	11966.62	11982.57	11972.27	12001.80	11998.96	12009.77	12044.31
28	11893.48	11863.61	11877.00	11856.54	11874.14	11862.09	11893.12	11889.06	11901.91	11935.53
29	11778.47	11749.90	11765.52	11745.72	11760.74	11748.92	11780.88	11776.41	11787.34	11822.45
30	11662.60	11635.24	11651.12	11631.29	11646.36	11633.39	11665.68	11660.55	11670.49	11705.79
31	11542.11	11514.77	11531.07	11510.84	11525.52	11511.03	11543.79	11538.96	11550.32	11587.84
32	11415.70	11390.20	11404.58	11385.15	11400.14	11387.20	11419.68	11413.95	11425.76	11461.89
33	11288.74	11260.02	11276.62	11254.08	11274.11	11256.98	11291.87	11284.60	11296.04	11332.19
34	11154.54	11126.71	11140.99	11120.68	11138.92	11123.99	11159.83	11151.14	11163.55	11201.01
35	11017.16	10987.38	11002.19	10981.34	11001.05	10985.26	11020.86	11013.60	11026.20	11065.73
36	10876.70	10843.42	10859.92	10837.06	10859.08	10843.21	10880.34	10869.23	10884.74	10924.49
37	10732.94	10697.56	10712.75	10688.86	10712.19	10697.29	10735.81	10722.11	10739.18	10778.52
38	10581.23	10544.69	10561.53	10534.26	10561.26	10546.18	10582.54	10567.96	10587.20	10628.89
39	10426.12	10389.71	10405.42	10375.04	10403.51	10388.39	10427.31	10411.59	10432.04	10474.34
40	10264.62	10228.53	10247.00	10213.18	10244.54	10227.63	10267.26	10251.75	10275.70	10318.60
41	10100.87	10062.73	10081.36	10045.97	10077.84	10061.07	10100.92	10086.60	10107.43	10154.62
42	9930.54	9892.73	9913.12	9876.76	9907.25	9892.01	9931.15	9919.08	9942.05	9987.80
43	9758.66	9718.40	9740.78	9704.20	9732.20	9719.96	9759.80	9745.22	9769.43	9814.11
44	9583.58	9544.41	9562.06	9525.89	9553.18	9541.84	9584.48	9571.21	9590.98	9637.58
45	9401.90	9359.90	9379.27	9342.13	9372.02	9359.20	9403.83	9389.87	9409.15	9456.54
46	9217.45	9172.36	9190.25	9152.81	9184.85	9170.18	9219.00	9206.02	9219.58	9271.70
47	9027.11	8983.28	8998.18	8960.17	8995.56	8981.75	9029.04	9017.80	9028.02	9082.62
48	8831.35	8781.90	8797.45	8760.30	8794.90	8782.47	8831.74	8819.83	8828.83	8886.14
49	8627.51	8576.50	8596.59	8554.87	8595.52	8580.32	8631.13	8618.26	8626.31	8685.79
50	8420.67	8372.30	8390.00	8349.90	8390.50	8374.20	8424.03	8412.93	8417.46	8479.72
51	8209.32	8159.56	8175.06	8134.09	8174.28	8161.21	8211.20	8202.58	8210.78	8270.51
52	7984.32	7923.71	7940.22	7898.38	7938.84	7931.78	7995.10	7984.90	7991.80	8049.75
53	7744.74	7674.19	7687.06	7645.27	7692.94	7682.81	7755.08	7746.55	7751.07	7807.87
54	7488.68	7415.15	7427.15	7388.90	7433.78	7426.10	7498.36	7491.99	7495.06	7551.49
55	7221.46	7151.08	7163.10	7125.14	7171.77	7158.81	7229.22	7220.86	7225.66	7281.59
56	6954.46	6895.93	6907.30	6872.39	6916.28	6902.86	6956.96	6955.13	6953.90	7012.96
57	6690.38	6634.86	6653.65	6617.15	6660.01	6645.68	6691.76	6685.73	6696.34	6751.58
58	6432.64	6383.67	6400.99	6359.50	6406.24	6384.87	6432.60	6419.02	6443.21	6489.29
59	6173.05	6125.37	6149.80	6099.08	6145.74	6127.00	6174.76	6160.55	6184.39	6228.73
60	5906.12	5864.47	5886.26	5837.79	5882.95	5864.42	5910.38	5899.33	5917.25	5965.07
61	5643.11	5602.62	5625.27	5579.67	5618.20	5597.97	5647.29	5632.68	5656.08	5706.19
62	5381.65	5334.05	5359.02	5314.84	5350.74	5327.69	5383.58	5369.64	5385.65	5444.53
63	5097.91	5045.61	5069.24	5027.84	5059.85	5044.70	5111.62	5094.48	5105.15	5170.35
64	4799.18	4746.41	4766.17	4731.99	4761.82	4746.27	4813.44	4796.84	4808.25	4873.23
65	4499.29	4452.75	4471.70	4440.91	4470.98	4448.33	4502.43	4488.42	4505.05	4563.32
66	4217.27	4165.99	4185.27	4159.21	4190.07	4165.77	4209.29	4195.53	4208.42	4275.81
67	3932.89	3882.58	3903.47	3876.37	3907.57	3878.19	3922.70	3908.09	3926.28	3993.26
68	3655.07	3607.91	3629.40	3593.39	3625.06	3597.32	3644.19	3629.90	3652.20	3709.89
69	3372.84	3323.09	3351.67	3306.56	3336.12	3310.44	3363.61	3352.54	3371.65	3424.75
70	3067.15	3022.67	3050.34	3003.29	3034.35	3006.08	3060.39	3049.28	3074.33	3120.60

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CANDELA TABULATION - (Cont.)

71	2781.72	2740.05	2763.18	2721.12	2752.72	2720.32	2768.40	2753.91	2779.80	2835.51
72	2496.46	2468.55	2476.23	2453.10	2471.14	2454.64	2476.53	2481.02	2501.81	2550.43
73	2230.26	2197.11	2211.43	2187.41	2207.31	2191.80	2213.46	2214.60	2235.18	2265.37
74	1954.35	1928.69	1935.26	1912.75	1925.81	1913.45	1935.14	1937.23	1957.25	1982.20
75	1705.84	1682.93	1688.06	1662.44	1674.25	1662.58	1685.76	1682.53	1699.00	1722.04
76	1465.58	1444.72	1453.14	1425.45	1433.22	1426.32	1444.26	1443.51	1453.21	1480.38
77	1235.24	1214.79	1217.78	1192.65	1204.68	1195.89	1213.37	1207.13	1219.65	1242.88
78	1023.75	1008.28	1000.18	987.60	989.06	976.31	991.87	999.39	1006.22	1020.21
79	821.81	801.99	802.69	782.80	791.27	777.48	793.55	791.75	793.08	818.93
80	637.11	620.34	624.24	603.64	609.33	597.88	615.26	605.90	613.58	631.27
81	473.27	458.57	463.73	445.70	445.63	438.98	452.77	447.55	453.12	466.87
82	337.49	323.59	326.51	313.20	312.25	306.20	318.09	313.33	316.16	329.86
83	238.34	213.84	229.87	205.07	204.67	199.03	207.28	206.77	213.19	233.15
84	139.44	133.38	133.48	128.67	126.42	133.12	126.37	126.64	130.68	136.49
85	78.63	75.17	74.73	69.71	70.07	67.74	68.66	67.46	71.92	74.19
86	39.75	37.21	36.59	34.47	34.73	33.38	34.17	32.96	33.38	35.72
87	22.40	22.31	22.18	21.64	21.13	20.79	20.88	21.02	21.62	21.47
88	19.07	18.86	18.65	18.20	18.12	17.96	17.89	17.68	18.31	18.21
89	15.90	15.82	15.92	15.80	15.71	15.55	15.53	15.38	16.00	15.93
90	15.94	15.97	16.06	16.05	16.08	16.00	15.97	15.86	16.48	16.47

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	13438.01	13438.01	13438.01	13438.01	13438.01
1	13436.89	13437.50	13437.36	13437.57	13438.07
2	13431.68	13433.09	13431.66	13433.38	13434.06
3	13423.69	13425.68	13425.17	13426.67	13426.77
4	13411.65	13414.72	13413.55	13417.18	13417.65
5	13395.25	13400.50	13399.30	13404.12	13402.86
6	13375.44	13383.24	13382.04	13387.43	13385.32
7	13352.46	13360.88	13359.83	13366.31	13364.81
8	13326.05	13334.88	13333.27	13340.92	13338.91
9	13295.97	13304.74	13302.86	13310.76	13308.41
10	13260.98	13271.22	13268.09	13276.47	13271.66
11	13220.98	13233.04	13228.09	13236.53	13231.58
12	13178.16	13189.60	13184.12	13192.76	13186.52
13	13130.31	13141.89	13135.36	13143.82	13136.71
14	13078.29	13089.65	13081.60	13091.62	13082.64
15	13020.00	13032.96	13025.16	13035.99	13027.06
16	12958.54	12973.56	12964.71	12976.11	12967.76
17	12894.85	12908.43	12901.36	12912.30	12903.28
18	12824.65	12840.81	12832.33	12845.69	12834.91
19	12751.32	12768.44	12759.68	12775.69	12765.68
20	12674.55	12690.78	12682.65	12700.79	12690.39
21	12594.52	12611.24	12602.74	12622.18	12612.00
22	12511.73	12527.50	12518.86	12539.91	12529.69
23	12422.36	12440.56	12432.43	12452.66	12444.17
24	12330.48	12348.89	12340.62	12364.33	12354.06
25	12235.23	12253.19	12245.11	12271.50	12261.54
26	12135.45	12153.91	12145.26	12174.05	12164.77
27	12031.18	12049.59	12040.53	12071.37	12062.83
28	11922.30	11942.90	11934.89	11966.66	11957.00
29	11809.63	11831.37	11823.22	11856.13	11847.92
30	11693.00	11715.55	11704.72	11742.27	11734.24
31	11573.86	11598.09	11588.46	11623.91	11615.77

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CANDELA TABULATION - (Cont.)

32	11450.63	11475.14	11464.79	11501.76	11494.11
33	11321.12	11346.11	11337.87	11373.13	11365.82
34	11189.02	11216.29	11207.25	11244.38	11233.67
35	11053.00	11082.47	11072.93	11108.89	11099.44
36	10910.67	10937.98	10933.13	10969.51	10958.46
37	10763.36	10792.54	10787.60	10825.92	10813.14
38	10613.06	10644.19	10637.19	10676.64	10663.62
39	10460.01	10489.20	10484.99	10524.74	10510.87
40	10302.48	10332.87	10327.77	10366.85	10352.49
41	10136.26	10171.89	10162.36	10205.25	10189.28
42	9969.34	10005.33	9995.58	10041.00	10023.05
43	9796.42	9835.69	9826.23	9871.51	9851.57
44	9620.16	9660.91	9652.08	9694.14	9673.47
45	9437.41	9483.72	9472.54	9515.23	9492.90
46	9251.68	9297.34	9288.49	9331.67	9309.90
47	9059.34	9109.46	9099.32	9145.40	9119.08
48	8865.53	8913.43	8905.71	8947.20	8922.37
49	8663.72	8713.25	8702.61	8745.96	8717.72
50	8459.15	8508.82	8497.97	8539.68	8508.98
51	8251.51	8299.85	8292.39	8328.54	8296.79
52	8032.77	8085.33	8071.80	8111.68	8081.82
53	7788.05	7843.20	7827.90	7867.19	7842.17
54	7528.02	7590.66	7573.22	7615.85	7587.10
55	7254.49	7326.05	7305.48	7346.20	7320.97
56	6983.55	7058.80	7037.06	7079.40	7058.55
57	6726.66	6799.23	6776.55	6823.72	6806.77
58	6473.47	6539.18	6515.17	6569.65	6555.03
59	6216.79	6278.53	6253.76	6311.36	6294.90
60	5954.24	6016.05	5989.68	6054.33	6030.48
61	5691.25	5749.82	5728.08	5788.64	5767.31
62	5418.28	5479.86	5462.41	5519.99	5495.19
63	5140.29	5202.62	5181.65	5243.09	5212.51
64	4839.85	4899.37	4883.31	4943.59	4909.07
65	4535.61	4580.25	4573.36	4624.11	4598.57
66	4250.14	4288.12	4290.10	4330.68	4307.02
67	3972.67	4003.66	4001.15	4042.93	4028.03
68	3690.31	3724.79	3719.31	3763.26	3757.75
69	3404.19	3442.99	3431.60	3479.57	3476.79
70	3099.44	3137.41	3121.29	3175.52	3163.16
71	2804.75	2854.94	2820.24	2888.65	2863.74
72	2528.93	2572.47	2542.21	2601.79	2582.10
73	2260.56	2290.03	2287.99	2314.93	2315.31
74	1979.39	2008.72	2006.56	2029.54	2037.85
75	1720.86	1742.46	1744.73	1773.22	1771.86
76	1472.01	1498.65	1492.17	1528.45	1524.73
77	1237.19	1259.63	1260.02	1284.42	1286.52
78	1021.82	1036.86	1045.79	1058.99	1065.59
79	806.62	836.98	831.57	855.86	844.72
80	626.98	643.68	644.75	661.56	661.07
81	464.77	477.45	477.67	494.42	495.48
82	325.70	338.31	338.65	352.43	350.10
83	218.82	240.00	228.83	252.83	235.62
84	134.41	141.92	146.23	153.37	152.22
85	73.72	79.00	81.41	87.71	89.45
86	34.95	37.34	38.56	41.91	42.66
87	21.19	21.18	21.28	21.71	21.74

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CANDELA TABULATION - (Cont.)

88	17.78	17.91	17.72	18.17	18.26
89	15.77	15.70	15.63	15.72	15.77
90	16.39	16.38	16.28	16.26	16.16

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4948.88	13.10	13.10
0-30	10586.75	28.00	28.00
0-40	17496.83	46.30	46.30
0-60	31242.34	82.70	82.70
0-80	37600.98	99.50	99.50
0-90	37782.5	100.00	100.00
10-90	36508.36	96.60	96.60
20-40	12547.96	33.20	33.20
20-50	19819.6	52.50	52.50
40-70	18238.11	48.30	48.30
60-80	6358.64	16.80	16.80
70-80	1866.04	4.90	4.90
80-90	181.51	0.50	0.50
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	37782.5	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1274.13
10-20	3674.74
20-30	5637.87
30-40	6910.08
40-50	7271.64
50-60	6473.87
60-70	4492.61
70-80	1866.04
80-90	181.51
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

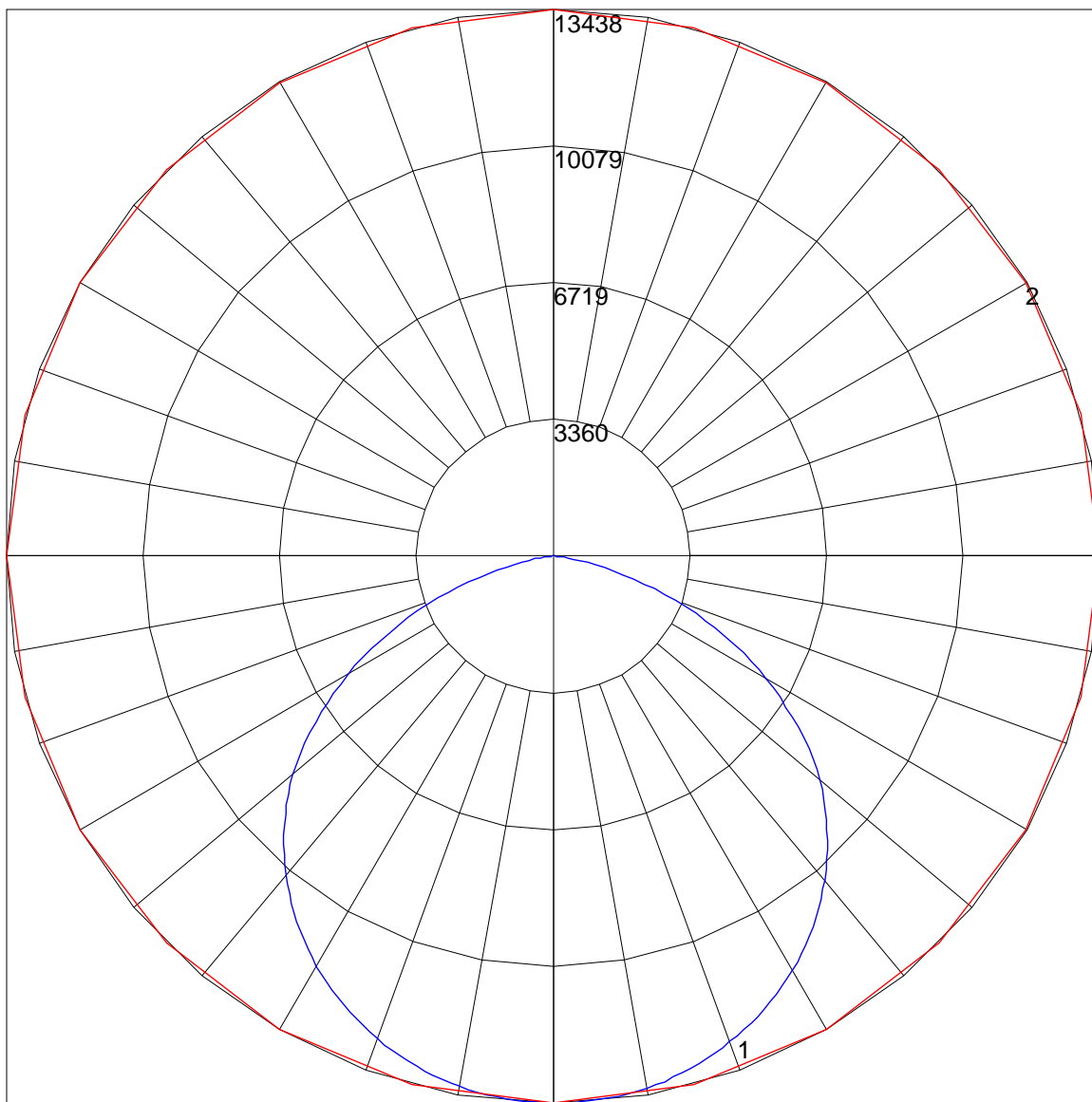
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 13438.41 Located At Horizontal Angle = 15, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)