



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVHOWT50WBD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1
 [TESTLAB] BEGHELLI
 [TESTDATE] 2016-04-05
 [ISSUEDATE] 2016-04-07 09:26:38
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [MANUFAC] BEGHELLI
 [LUMINAIRE] NUVHTVHOWT50WBD120-277V
 [LAMP] 5000K Ra80

CHARACTERISTICS

Lumens Per Lamp	38395 (1 lamp)
Total Lamp Lumens	38395
Luminaire Lumens	38396
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	289.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.32
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	76497	76317	75411
55	36061	35691	34830
65	15054	14924	14606
75	6249	6226	6074
85	475	474	473

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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	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75
1	18011.61	18011.33	18012.09	18011.72	18011.77	18011.12	18011.22	18011.40	18011.33	18011.51
2	18008.98	18008.42	18008.67	18008.89	18008.09	18009.12	18008.48	18008.65	18008.20	18008.41
3	18002.70	18003.26	18003.00	18003.61	18004.10	18004.35	18003.74	18003.19	18003.40	18003.50
4	17995.51	17995.90	17996.40	17996.42	17997.22	17997.41	17998.05	17996.20	17996.33	17996.48
5	17986.24	17986.93	17986.98	17987.89	17988.07	17989.13	17989.25	17987.49	17986.57	17986.83
6	17974.45	17975.74	17975.25	17976.02	17976.88	17978.83	17979.18	17975.21	17974.12	17974.78
7	17959.80	17960.85	17960.93	17962.53	17963.65	17964.69	17965.95	17960.78	17959.48	17960.21
8	17941.91	17942.96	17944.37	17945.12	17946.73	17947.38	17949.83	17943.19	17941.37	17941.66
9	17922.57	17923.35	17924.63	17926.10	17926.84	17928.31	17930.60	17921.99	17921.00	17921.09
10	17899.10	17900.18	17902.68	17903.35	17904.97	17906.91	17909.11	17898.34	17897.44	17897.87
11	17872.54	17874.29	17876.07	17877.70	17879.18	17882.54	17885.43	17871.88	17871.41	17871.19
12	17842.84	17845.48	17848.29	17849.46	17851.76	17854.84	17859.61	17842.42	17842.25	17842.56
13	17810.34	17813.53	17815.92	17817.94	17820.82	17824.67	17830.70	17810.21	17809.24	17809.37
14	17774.16	17777.70	17779.65	17782.82	17786.58	17791.71	17798.44	17774.66	17772.62	17772.39
15	17733.82	17736.82	17739.94	17743.92	17748.14	17754.57	17761.57	17733.61	17732.73	17731.41
16	17688.74	17693.19	17694.93	17700.00	17705.30	17712.95	17720.21	17688.52	17687.01	17686.17
17	17640.00	17643.42	17646.63	17651.76	17657.21	17666.51	17674.10	17638.70	17636.69	17636.15
18	17585.12	17589.50	17591.59	17598.31	17603.32	17614.08	17622.12	17583.14	17580.57	17579.74
19	17523.75	17528.78	17531.38	17538.55	17544.63	17555.42	17564.63	17521.90	17518.53	17517.25
20	17455.38	17460.53	17465.02	17472.15	17479.30	17490.00	17499.51	17452.44	17450.38	17447.86
21	17379.90	17385.89	17390.47	17396.86	17404.03	17416.45	17425.95	17377.53	17373.27	17372.12
22	17295.13	17302.21	17306.05	17315.42	17321.48	17333.58	17343.10	17291.82	17288.14	17287.06
23	17200.91	17209.02	17213.79	17222.81	17229.64	17240.97	17251.81	17196.83	17193.09	17192.32
24	17096.23	17104.51	17109.45	17118.96	17125.20	17137.30	17145.98	17092.17	17087.77	17086.23
25	16978.97	16989.14	16993.75	17004.98	17009.63	17021.65	17030.04	16976.11	16970.30	16969.59
26	16849.23	16859.66	16864.21	16875.41	16879.29	16891.96	16899.08	16845.31	16840.73	16838.87
27	16706.26	16716.26	16720.30	16731.59	16736.60	16746.47	16754.54	16701.48	16695.69	16694.53
28	16546.76	16556.51	16562.22	16572.09	16576.13	16585.89	16591.62	16539.40	16536.95	16534.28
29	16370.32	16379.63	16384.86	16395.04	16399.04	16407.85	16411.26	16363.30	16358.23	16357.07
30	16174.29	16187.82	16189.49	16200.02	16201.24	16209.15	16211.46	16170.03	16163.29	16163.93
31	15959.45	15969.98	15972.59	15983.03	15983.37	15990.62	15988.68	15956.03	15948.46	15948.27
32	15723.03	15733.43	15734.30	15744.53	15745.16	15748.67	15743.63	15719.07	15712.77	15711.71
33	15461.94	15472.93	15472.68	15480.62	15481.88	15483.06	15476.33	15460.65	15454.58	15451.71
34	15175.16	15189.69	15188.50	15195.87	15195.14	15191.91	15183.16	15179.88	15170.84	15171.57
35	14867.28	14878.36	14874.92	14883.68	14880.25	14875.97	14861.45	14871.11	14864.16	14863.86
36	14533.02	14540.60	14539.12	14542.73	14537.86	14529.68	14514.98	14537.50	14532.86	14529.74
37	14168.24	14174.77	14170.50	14174.16	14168.61	14158.42	14136.69	14178.92	14170.72	14170.63
38	13774.09	13778.86	13780.39	13777.86	13770.16	13758.59	13729.14	13788.30	13784.73	13780.10
39	13352.32	13358.48	13349.83	13353.15	13345.60	13324.94	13293.08	13373.95	13366.40	13364.56
40	12904.31	12904.97	12903.02	12899.13	12888.46	12869.62	12831.58	12928.20	12926.20	12919.67
41	12419.21	12423.63	12411.55	12415.92	12402.02	12377.80	12336.85	12454.44	12448.36	12447.17
42	11915.41	11912.08	11911.43	11904.76	11889.63	11862.27	11811.30	11954.40	11953.36	11943.16
43	11384.94	11377.70	11375.52	11369.28	11349.00	11319.83	11264.32	11432.93	11430.57	11417.90
44	10825.09	10819.66	10811.10	10808.02	10789.39	10751.33	10694.43	10883.73	10879.04	10868.69
45	10249.94	10240.34	10238.54	10225.73	10205.19	10165.51	10104.45	10315.08	10310.52	10294.96
46	9654.94	9648.50	9638.73	9625.93	9608.67	9564.36	9494.72	9731.61	9723.96	9712.80
47	9054.18	9044.33	9029.18	9025.61	9000.27	8959.43	8883.51	9136.04	9130.52	9118.91
48	8441.63	8436.83	8421.78	8416.21	8387.43	8346.08	8270.64	8535.47	8524.75	8512.04
49	7844.53	7826.50	7819.23	7802.44	7781.81	7731.80	7661.38	7936.36	7926.87	7906.32
50	7241.89	7231.47	7215.75	7199.15	7175.54	7132.94	7057.65	7341.49	7326.16	7311.17
51	6656.96	6642.12	6624.70	6612.79	6590.05	6551.34	6475.87	6757.64	6743.20	6728.03
52	6096.30	6080.05	6060.20	6048.13	6031.34	5992.13	5925.01	6193.89	6182.08	6166.90
53	5562.32	5540.13	5526.03	5508.42	5500.54	5460.80	5397.53	5657.98	5648.11	5626.04

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54	5060.99	5039.96	5020.61	5011.34	4998.11	4964.86	4899.72	5149.84	5140.45	5124.91
55	4592.72	4569.81	4557.34	4545.60	4532.66	4499.78	4435.89	4674.01	4666.89	4652.99
56	4164.71	4146.99	4133.00	4127.05	4111.70	4077.92	4016.07	4235.28	4233.06	4225.15
57	3779.76	3765.10	3752.83	3745.97	3730.91	3697.15	3638.83	3844.51	3843.95	3836.72
58	3433.32	3417.35	3408.88	3404.58	3388.25	3352.69	3302.88	3492.74	3492.44	3484.74
59	3120.48	3107.63	3099.29	3090.10	3074.41	3045.75	3004.73	3176.43	3175.43	3168.12
60	2846.88	2829.27	2827.01	2820.29	2804.50	2778.90	2737.91	2901.20	2899.83	2891.23
61	2589.14	2562.85	2570.74	2561.92	2548.56	2526.28	2485.39	2637.82	2637.80	2628.30
62	2341.10	2328.80	2323.91	2316.21	2302.46	2285.13	2262.47	2385.97	2386.54	2375.90
63	2127.06	2118.11	2110.82	2105.29	2092.15	2078.05	2058.70	2167.75	2168.24	2160.22
64	1934.11	1927.64	1921.00	1915.01	1901.79	1891.15	1874.49	1972.09	1970.36	1963.31
65	1759.17	1754.30	1748.10	1744.03	1734.22	1721.45	1706.80	1790.42	1790.22	1782.83
66	1603.95	1601.26	1594.68	1590.63	1581.10	1570.81	1557.28	1631.46	1630.89	1625.19
67	1464.65	1461.12	1454.83	1451.27	1441.83	1435.25	1422.40	1487.46	1486.92	1481.53
68	1334.71	1330.64	1324.97	1321.98	1315.02	1307.64	1298.19	1353.24	1353.07	1348.25
69	1215.30	1208.48	1212.54	1201.59	1193.62	1193.86	1179.47	1226.57	1230.02	1220.84
70	1100.89	1096.35	1097.77	1091.63	1084.52	1081.37	1070.16	1110.45	1111.49	1105.93
71	992.33	989.39	987.84	986.06	981.61	973.94	966.58	1000.06	998.79	995.11
72	898.01	895.54	893.09	891.82	887.90	881.19	874.20	902.25	901.92	898.56
73	806.00	804.29	802.32	801.64	798.26	791.53	786.05	808.70	807.51	805.36
74	719.95	719.35	718.15	717.99	714.57	707.55	701.89	720.81	719.43	717.64
75	642.48	641.38	640.19	640.04	636.80	631.19	624.41	641.20	640.45	638.90
76	565.37	564.12	564.04	564.69	561.59	555.29	550.24	562.99	562.37	560.53
77	493.73	493.36	492.14	492.72	489.81	486.34	478.77	488.23	489.25	490.29
78	420.57	420.30	419.94	420.37	419.27	415.52	407.80	413.74	416.42	416.76
79	352.35	352.03	353.11	353.83	352.01	348.23	340.60	345.35	347.73	348.29
80	288.41	287.46	289.13	291.06	288.29	284.50	278.19	280.72	283.31	284.39
81	227.96	226.82	228.65	230.22	227.44	224.71	217.86	217.45	222.14	222.32
82	170.42	169.62	169.93	171.07	169.82	167.72	161.35	160.49	164.91	167.65
83	124.10	123.12	122.67	123.95	123.49	122.06	116.18	114.45	117.65	120.27
84	81.81	79.92	80.26	81.68	81.67	79.84	76.16	74.14	80.02	80.69
85	40.69	40.31	39.69	40.62	38.31	40.02	40.47	38.41	41.05	40.92
86	16.88	16.83	15.99	16.26	15.90	16.83	16.82	16.94	17.82	17.15
87	8.82	8.86	8.87	8.85	8.79	8.73	8.68	8.84	8.82	8.79
88	8.27	8.26	8.26	8.24	8.18	8.11	8.04	8.30	8.34	8.32
89	7.95	7.94	7.91	7.90	7.86	7.80	7.72	8.03	8.04	8.06
90	8.34	8.32	8.32	8.28	8.26	8.20	8.11	8.44	8.42	8.41

**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	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75	18012.75
1	18011.32	18011.57	18011.61	18011.57	18011.32	18011.51	18011.33	18011.40	18011.22	18011.12
2	18008.64	18008.29	18008.98	18008.29	18008.64	18008.41	18008.20	18008.65	18008.48	18009.12
3	18003.08	18003.15	18002.70	18003.15	18003.08	18003.50	18003.40	18003.19	18003.74	18004.35
4	17996.02	17995.50	17995.51	17995.50	17996.02	17996.48	17996.33	17996.20	17998.05	17997.41
5	17987.12	17987.08	17986.24	17987.08	17987.12	17986.83	17986.57	17987.49	17989.25	17989.13
6	17975.18	17974.74	17974.45	17974.74	17975.18	17974.78	17974.12	17975.21	17979.18	17978.83
7	17960.08	17960.85	17959.80	17960.85	17960.08	17960.21	17959.48	17960.78	17965.95	17964.69
8	17942.64	17942.58	17941.91	17942.58	17942.64	17941.66	17941.37	17943.19	17949.83	17947.38
9	17921.97	17922.50	17922.57	17922.50	17921.97	17921.09	17921.00	17921.99	17930.60	17928.31
10	17898.79	17898.64	17899.10	17898.64	17898.79	17897.87	17897.44	17898.34	17909.11	17906.91
11	17872.07	17872.10	17872.54	17872.10	17872.07	17871.19	17871.41	17871.88	17885.43	17882.54
12	17842.07	17842.37	17842.84	17842.37	17842.07	17842.56	17842.25	17842.42	17859.61	17854.84
13	17808.74	17809.66	17810.34	17809.66	17808.74	17809.37	17809.24	17810.21	17830.70	17824.67
14	17772.24	17773.20	17774.16	17773.20	17772.24	17772.39	17772.62	17774.66	17798.44	17791.71

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15	17731.27	17732.74	17733.82	17732.74	17731.27	17731.41	17732.73	17733.61	17761.57	17754.57
16	17686.07	17688.83	17688.74	17688.83	17686.07	17686.17	17687.01	17688.52	17720.21	17712.95
17	17636.35	17638.51	17640.00	17638.51	17636.35	17636.15	17636.69	17638.70	17674.10	17666.51
18	17580.19	17582.99	17585.12	17582.99	17580.19	17579.74	17580.57	17583.14	17622.12	17614.08
19	17517.65	17520.70	17523.75	17520.70	17517.65	17517.25	17518.53	17521.90	17564.63	17555.42
20	17449.66	17452.74	17455.38	17452.74	17449.66	17447.86	17450.38	17452.44	17499.51	17490.00
21	17372.49	17376.80	17379.90	17376.80	17372.49	17372.12	17373.27	17377.53	17425.95	17416.45
22	17287.26	17291.65	17295.13	17291.65	17287.26	17287.06	17288.14	17291.82	17343.10	17333.58
23	17191.91	17196.14	17200.91	17196.14	17191.91	17192.32	17193.09	17196.83	17251.81	17240.97
24	17086.33	17090.80	17096.23	17090.80	17086.33	17086.23	17087.77	17092.17	17145.98	17137.30
25	16968.88	16975.10	16978.97	16975.10	16968.88	16969.59	16970.30	16976.11	17030.04	17021.65
26	16837.94	16844.29	16849.23	16844.29	16837.94	16838.87	16840.73	16845.31	16899.08	16891.96
27	16693.21	16700.63	16706.26	16700.63	16693.21	16694.53	16695.69	16701.48	16754.54	16746.47
28	16532.12	16540.68	16546.76	16540.68	16532.12	16534.28	16536.95	16539.40	16591.62	16585.89
29	16355.27	16362.76	16370.32	16362.76	16355.27	16357.07	16358.23	16363.30	16411.26	16407.85
30	16161.55	16170.31	16174.29	16170.31	16161.55	16163.93	16163.29	16170.03	16211.46	16209.15
31	15945.45	15953.69	15959.45	15953.69	15945.45	15948.27	15948.46	15956.03	15988.68	15990.62
32	15709.35	15717.85	15723.03	15717.85	15709.35	15711.71	15712.77	15719.07	15743.63	15748.67
33	15451.31	15457.47	15461.94	15457.47	15451.31	15451.71	15454.58	15460.65	15476.33	15483.06
34	15166.29	15174.03	15175.16	15174.03	15166.29	15171.57	15170.84	15179.88	15183.16	15191.91
35	14859.42	14865.31	14867.28	14865.31	14859.42	14863.86	14864.16	14871.11	14861.45	14875.97
36	14526.33	14528.86	14533.02	14528.86	14526.33	14529.74	14532.86	14537.50	14514.98	14529.68
37	14165.49	14168.11	14168.24	14168.11	14165.49	14170.63	14170.72	14178.92	14136.69	14158.42
38	13774.70	13776.06	13774.09	13776.06	13774.70	13780.10	13784.73	13788.30	13729.14	13758.59
39	13356.80	13356.75	13352.32	13356.75	13356.80	13364.56	13366.40	13373.95	13293.08	13324.94
40	12910.10	12905.76	12904.31	12905.76	12910.10	12919.67	12926.20	12928.20	12831.58	12869.62
41	12433.32	12428.82	12419.21	12428.82	12433.32	12447.17	12448.36	12454.44	12336.85	12377.80
42	11933.56	11923.27	11915.41	11923.27	11933.56	11943.16	11953.36	11954.40	11811.30	11862.27
43	11404.45	11392.10	11384.94	11392.10	11404.45	11417.90	11430.57	11432.93	11264.32	11319.83
44	10851.14	10835.26	10825.09	10835.26	10851.14	10868.69	10879.04	10883.73	10694.43	10751.33
45	10282.41	10258.74	10249.94	10258.74	10282.41	10294.96	10310.52	10315.08	10104.45	10165.51
46	9691.35	9672.09	9654.94	9672.09	9691.35	9712.80	9723.96	9731.61	9494.72	9564.36
47	9091.22	9074.89	9054.18	9074.89	9091.22	9118.91	9130.52	9136.04	8883.51	8959.43
48	8489.69	8463.55	8441.63	8463.55	8489.69	8512.04	8524.75	8535.47	8270.64	8346.08
49	7887.59	7860.63	7844.53	7860.63	7887.59	7906.32	7926.87	7936.36	7661.38	7731.80
50	7286.58	7266.49	7241.89	7266.49	7286.58	7311.17	7326.16	7341.49	7057.65	7132.94
51	6703.58	6684.91	6656.96	6684.91	6703.58	6728.03	6743.20	6757.64	6475.87	6551.34
52	6142.57	6125.23	6096.30	6125.23	6142.57	6166.90	6182.08	6193.89	5925.01	5992.13
53	5611.73	5584.37	5562.32	5584.37	5611.73	5626.04	5648.11	5657.98	5397.53	5460.80
54	5106.94	5082.73	5060.99	5082.73	5106.94	5124.91	5140.45	5149.84	4899.72	4964.86
55	4633.68	4606.37	4592.72	4606.37	4633.68	4652.99	4666.89	4674.01	4435.89	4499.78
56	4204.58	4180.98	4164.71	4180.98	4204.58	4225.15	4233.06	4235.28	4016.07	4077.92
57	3811.75	3795.64	3779.76	3795.64	3811.75	3836.72	3843.95	3844.51	3638.83	3697.15
58	3466.00	3447.94	3433.32	3447.94	3466.00	3484.74	3492.44	3492.74	3302.88	3352.69
59	3152.33	3134.87	3120.48	3134.87	3152.33	3168.12	3175.43	3176.43	3004.73	3045.75
60	2876.00	2855.29	2846.88	2855.29	2876.00	2891.23	2899.83	2901.20	2737.91	2778.90
61	2615.97	2588.68	2589.14	2588.68	2615.97	2628.30	2637.80	2637.82	2485.39	2526.28
62	2365.10	2354.32	2341.10	2354.32	2365.10	2375.90	2386.54	2385.97	2262.47	2285.13
63	2151.07	2139.94	2127.06	2139.94	2151.07	2160.22	2168.24	2167.75	2058.70	2078.05
64	1955.19	1944.94	1934.11	1944.94	1955.19	1963.31	1970.36	1972.09	1874.49	1891.15
65	1775.56	1767.19	1759.17	1767.19	1775.56	1782.83	1790.22	1790.42	1706.80	1721.45
66	1618.44	1612.17	1603.95	1612.17	1618.44	1625.19	1630.89	1631.46	1557.28	1570.81
67	1475.24	1470.56	1464.65	1470.56	1475.24	1481.53	1486.92	1487.46	1422.40	1435.25
68	1343.39	1339.81	1334.71	1339.81	1343.39	1348.25	1353.07	1353.24	1298.19	1307.64
69	1222.40	1214.62	1215.30	1214.62	1222.40	1220.84	1230.02	1226.57	1179.47	1193.86
70	1105.73	1100.39	1100.89	1100.39	1105.73	1105.93	1111.49	1110.45	1070.16	1081.37

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CANDELA TABULATION - (Cont.)

71	994.46	992.20	992.33	992.20	994.46	995.11	998.79	1000.06	966.58	973.94
72	898.11	896.89	898.01	896.89	898.11	898.56	901.92	902.25	874.20	881.19
73	805.02	804.83	806.00	804.83	805.02	805.36	807.51	808.70	786.05	791.53
74	717.81	718.41	719.95	718.41	717.81	717.64	719.43	720.81	701.89	707.55
75	639.41	640.40	642.48	640.40	639.41	638.90	640.45	641.20	624.41	631.19
76	562.95	564.28	565.37	564.28	562.95	560.53	562.37	562.99	550.24	555.29
77	490.00	491.13	493.73	491.13	490.00	490.29	489.25	488.23	478.77	486.34
78	416.11	416.56	420.57	416.56	416.11	416.76	416.42	413.74	407.80	415.52
79	348.88	350.16	352.35	350.16	348.88	348.29	347.73	345.35	340.60	348.23
80	284.68	287.03	288.41	287.03	284.68	284.39	283.31	280.72	278.19	284.50
81	225.44	224.42	227.96	224.42	225.44	222.32	222.14	217.45	217.86	224.71
82	168.13	169.14	170.42	169.14	168.13	167.65	164.91	160.49	161.35	167.72
83	122.81	120.65	124.10	120.65	122.81	120.27	117.65	114.45	116.18	122.06
84	81.47	80.38	81.81	80.38	81.47	80.69	80.02	74.14	76.16	79.84
85	42.28	41.22	40.69	41.22	42.28	40.92	41.05	38.41	40.47	40.02
86	17.05	16.54	16.88	16.54	17.05	17.15	17.82	16.94	16.82	16.83
87	8.79	8.80	8.82	8.80	8.79	8.79	8.82	8.84	8.68	8.73
88	8.30	8.28	8.27	8.28	8.30	8.32	8.34	8.30	8.04	8.11
89	8.02	7.99	7.95	7.99	8.02	8.06	8.04	8.03	7.72	7.80
90	8.39	8.36	8.34	8.36	8.39	8.41	8.42	8.44	8.11	8.20

Vert. Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	18012.75	18012.75	18012.75	18012.75	18012.75
1	18011.77	18011.72	18012.09	18011.33	18011.61
2	18008.09	18008.89	18008.67	18008.42	18008.98
3	18004.10	18003.61	18003.00	18003.26	18002.70
4	17997.22	17996.42	17996.40	17995.90	17995.51
5	17988.07	17987.89	17986.98	17986.93	17986.24
6	17976.88	17976.02	17975.25	17975.74	17974.45
7	17963.65	17962.53	17960.93	17960.85	17959.80
8	17946.73	17945.12	17944.37	17942.96	17941.91
9	17926.84	17926.10	17924.63	17923.35	17922.57
10	17904.97	17903.35	17902.68	17900.18	17899.10
11	17879.18	17877.70	17876.07	17874.29	17872.54
12	17851.76	17849.46	17848.29	17845.48	17842.84
13	17820.82	17817.94	17815.92	17813.53	17810.34
14	17786.58	17782.82	17779.65	17777.70	17774.16
15	17748.14	17743.92	17739.94	17736.82	17733.82
16	17705.30	17700.00	17694.93	17693.19	17688.74
17	17657.21	17651.76	17646.63	17643.42	17640.00
18	17603.32	17598.31	17591.59	17589.50	17585.12
19	17544.63	17538.55	17531.38	17528.78	17523.75
20	17479.30	17472.15	17465.02	17460.53	17455.38
21	17404.03	17396.86	17390.47	17385.89	17379.90
22	17321.48	17315.42	17306.05	17302.21	17295.13
23	17229.64	17222.81	17213.79	17209.02	17200.91
24	17125.20	17118.96	17109.45	17104.51	17096.23
25	17009.63	17004.98	16993.75	16989.14	16978.97
26	16879.29	16875.41	16864.21	16859.66	16849.23
27	16736.60	16731.59	16720.30	16716.26	16706.26
28	16576.13	16572.09	16562.22	16556.51	16546.76
29	16399.04	16395.04	16384.86	16379.63	16370.32
30	16201.24	16200.02	16189.49	16187.82	16174.29
31	15983.37	15983.03	15972.59	15969.98	15959.45

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CANDELA TABULATION - (Cont.)

32	15745.16	15744.53	15734.30	15733.43	15723.03
33	15481.88	15480.62	15472.68	15472.93	15461.94
34	15195.14	15195.87	15188.50	15189.69	15175.16
35	14880.25	14883.68	14874.92	14878.36	14867.28
36	14537.86	14542.73	14539.12	14540.60	14533.02
37	14168.61	14174.16	14170.50	14174.77	14168.24
38	13770.16	13777.86	13780.39	13778.86	13774.09
39	13345.60	13353.15	13349.83	13358.48	13352.32
40	12888.46	12899.13	12903.02	12904.97	12904.31
41	12402.02	12415.92	12411.55	12423.63	12419.21
42	11889.63	11904.76	11911.43	11912.08	11915.41
43	11349.00	11369.28	11375.52	11377.70	11384.94
44	10789.39	10808.02	10811.10	10819.66	10825.09
45	10205.19	10225.73	10238.54	10240.34	10249.94
46	9608.67	9625.93	9638.73	9648.50	9654.94
47	9000.27	9025.61	9029.18	9044.33	9054.18
48	8387.43	8416.21	8421.78	8436.83	8441.63
49	7781.81	7802.44	7819.23	7826.50	7844.53
50	7175.54	7199.15	7215.75	7231.47	7241.89
51	6590.05	6612.79	6624.70	6642.12	6656.96
52	6031.34	6048.13	6060.20	6080.05	6096.30
53	5500.54	5508.42	5526.03	5540.13	5562.32
54	4998.11	5011.34	5020.61	5039.96	5060.99
55	4532.66	4545.60	4557.34	4569.81	4592.72
56	4111.70	4127.05	4133.00	4146.99	4164.71
57	3730.91	3745.97	3752.83	3765.10	3779.76
58	3388.25	3404.58	3408.88	3417.35	3433.32
59	3074.41	3090.10	3099.29	3107.63	3120.48
60	2804.50	2820.29	2827.01	2829.27	2846.88
61	2548.56	2561.92	2570.74	2562.85	2589.14
62	2302.46	2316.21	2323.91	2328.80	2341.10
63	2092.15	2105.29	2110.82	2118.11	2127.06
64	1901.79	1915.01	1921.00	1927.64	1934.11
65	1734.22	1744.03	1748.10	1754.30	1759.17
66	1581.10	1590.63	1594.68	1601.26	1603.95
67	1441.83	1451.27	1454.83	1461.12	1464.65
68	1315.02	1321.98	1324.97	1330.64	1334.71
69	1193.62	1201.59	1212.54	1208.48	1215.30
70	1084.52	1091.63	1097.77	1096.35	1100.89
71	981.61	986.06	987.84	989.39	992.33
72	887.90	891.82	893.09	895.54	898.01
73	798.26	801.64	802.32	804.29	806.00
74	714.57	717.99	718.15	719.35	719.95
75	636.80	640.04	640.19	641.38	642.48
76	561.59	564.69	564.04	564.12	565.37
77	489.81	492.72	492.14	493.36	493.73
78	419.27	420.37	419.94	420.30	420.57
79	352.01	353.83	353.11	352.03	352.35
80	288.29	291.06	289.13	287.46	288.41
81	227.44	230.22	228.65	226.82	227.96
82	169.82	171.07	169.93	169.62	170.42
83	123.49	123.95	122.67	123.12	124.10
84	81.67	81.68	80.26	79.92	81.81
85	38.31	40.62	39.69	40.31	40.69
86	15.90	16.26	15.99	16.83	16.88
87	8.79	8.85	8.87	8.86	8.82

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CANDELA TABULATION - (Cont.)

88	8.18	8.24	8.26	8.26	8.27
89	7.86	7.90	7.91	7.94	7.95
90	8.26	8.28	8.32	8.32	8.34

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6731.03	17.50	17.50
0-30	14551.14	37.90	37.90
0-40	23779.8	61.90	61.90
0-60	35812.61	93.30	93.30
0-80	38306.54	99.80	99.80
0-90	38395.8	100.00	100.00
10-90	36681.5	95.50	95.50
20-40	17048.78	44.40	44.40
20-50	24867.86	64.80	64.80
40-70	13837.5	36.00	36.00
60-80	2493.93	6.50	6.50
70-80	689.23	1.80	1.80
80-90	89.27	0.20	0.20
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	38395.8	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1714.3
10-20	5016.72
20-30	7820.12
30-40	9228.66
40-50	7819.09
50-60	4213.72
60-70	1804.7
70-80	689.23
80-90	89.27
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

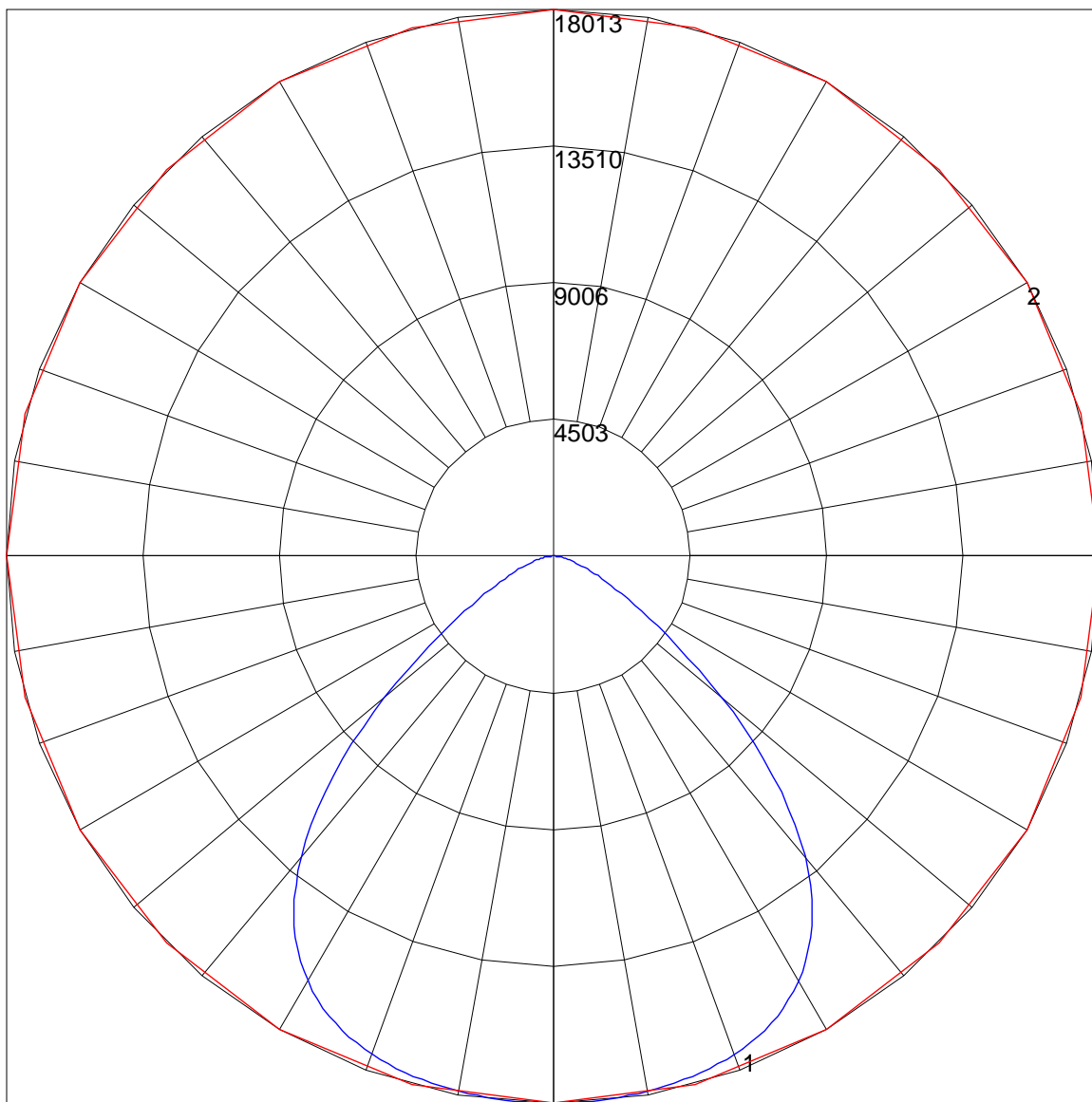
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	77	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	53	46	41	51	45	41	50	45	41	39
9	62	50	43	38	61	50	42	38	49	42	37	48	42	37	47	41	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 18012.75 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)