



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTHOWT40MWD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 2016-02-25

[ISSUEDATE] 2016-03-08 14:36:52

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] NUVHTHOWT40MWD120-277V

[LAMP] 4000K Ra80

CHARACTERISTICS

Lumens Per Lamp	30566 (1 lamp)
Total Lamp Lumens	30566
Luminaire Lumens	30566
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	236
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.38 m (Diameter)
Luminous Width (90-270)	0.38 m (Diameter)
Luminous Height	0.12 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17336	17684	17399
55	9742	9880	9818
65	7668	7765	7698
75	4739	4827	4771
85	548	564	551

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CANDELA TABULATION

	0	30	60	90	120	150	180	210	240	270
0	35834.76	35834.76	35834.76	35834.76	35834.76	35834.76	35834.76	35834.76	35834.76	35834.76
1	35826.66	35824.76	35826.87	35826.84	35824.52	35822.97	35826.66	35822.97	35824.52	35826.84
2	35798.22	35798.24	35798.60	35796.70	35794.01	35794.13	35798.22	35794.13	35794.01	35796.70
3	35748.93	35749.73	35754.51	35750.64	35742.40	35741.47	35748.93	35741.47	35742.40	35750.64
4	35679.71	35681.53	35689.47	35680.22	35670.63	35667.41	35679.71	35667.41	35670.63	35680.22
5	35591.50	35594.63	35601.35	35595.16	35576.78	35575.76	35591.50	35575.76	35576.78	35595.16
6	35475.19	35485.76	35493.92	35477.42	35460.16	35455.49	35475.19	35455.49	35460.16	35477.42
7	35325.36	35342.94	35352.38	35332.31	35311.82	35299.76	35325.36	35299.76	35311.82	35332.31
8	35134.47	35158.08	35172.90	35147.14	35120.52	35106.13	35134.47	35106.13	35120.52	35147.14
9	34897.44	34930.63	34946.03	34915.96	34880.57	34863.29	34897.44	34863.29	34880.57	34915.96
10	34606.97	34649.36	34667.16	34629.65	34588.23	34566.38	34606.97	34566.38	34588.23	34629.65
11	34260.81	34313.38	34332.16	34287.82	34240.73	34213.81	34260.81	34213.81	34240.73	34287.82
12	33857.20	33914.01	33936.19	33883.25	33834.62	33802.36	33857.20	33802.36	33834.62	33883.25
13	33382.20	33452.12	33469.37	33407.89	33359.21	33323.34	33382.20	33323.34	33359.21	33407.89
14	32845.18	32915.98	32934.23	32861.91	32809.73	32774.00	32845.18	32774.00	32809.73	32861.91
15	32223.36	32302.05	32317.60	32241.19	32181.89	32146.84	32223.36	32146.84	32181.89	32241.19
16	31532.27	31604.97	31623.07	31526.74	31476.41	31441.03	31532.27	31441.03	31476.41	31526.74
17	30748.28	30826.07	30830.84	30731.26	30680.21	30649.85	30748.28	30649.85	30680.21	30731.26
18	29882.40	29958.05	29956.43	29840.21	29803.55	29782.09	29882.40	29782.09	29803.55	29840.21
19	28926.39	28996.99	28992.55	28857.65	28834.06	28813.68	28926.39	28813.68	28834.06	28857.65
20	27872.44	27944.41	27929.72	27785.27	27765.11	27759.32	27872.44	27759.32	27765.11	27785.27
21	26727.95	26799.28	26773.79	26616.12	26608.18	26614.94	26727.95	26614.94	26608.18	26616.12
22	25490.43	25561.14	25529.55	25357.91	25361.74	25370.03	25490.43	25370.03	25361.74	25357.91
23	24213.25	24241.42	24241.85	24019.78	24080.68	24057.53	24213.25	24057.53	24080.68	24019.78
24	22817.76	22878.87	22833.69	22639.64	22682.66	22700.83	22817.76	22700.83	22682.66	22639.64
25	21350.14	21414.00	21361.50	21165.14	21234.89	21250.83	21350.14	21250.83	21234.89	21165.14
26	19841.54	19901.28	19839.30	19650.37	19740.64	19764.24	19841.54	19764.24	19740.64	19650.37
27	18297.55	18349.66	18288.43	18099.80	18222.96	18247.98	18297.55	18247.98	18222.96	18099.80
28	16754.92	16791.27	16721.89	16553.39	16701.80	16729.48	16754.92	16729.48	16701.80	16553.39
29	15220.66	15243.41	15168.39	15021.05	15196.40	15225.94	15220.66	15225.94	15196.40	15021.05
30	13719.95	13729.98	13651.34	13524.98	13726.19	13757.24	13719.95	13757.24	13726.19	13524.98
31	12275.97	12281.34	12185.25	12085.88	12305.13	12294.13	12275.97	12294.13	12305.13	12085.88
32	10906.30	10863.50	10802.74	10712.60	10965.74	10968.04	10906.30	10968.04	10965.74	10712.60
33	9574.15	9551.69	9473.70	9419.09	9662.70	9676.92	9574.15	9676.92	9662.70	9419.09
34	8372.08	8329.63	8255.70	8221.20	8458.73	8467.94	8372.08	8467.94	8458.73	8221.20
35	7264.28	7216.40	7153.50	7140.03	7355.29	7361.44	7264.28	7361.44	7355.29	7140.03
36	6273.68	6235.90	6179.40	6171.46	6363.91	6362.24	6273.68	6362.24	6363.91	6171.46
37	5410.55	5382.31	5335.15	5332.47	5488.32	5483.63	5410.55	5483.63	5488.32	5332.47
38	4672.92	4650.11	4617.21	4608.35	4737.44	4724.45	4672.92	4724.45	4737.44	4608.35
39	4048.24	4039.51	4013.15	4003.40	4090.15	4075.22	4048.24	4075.22	4090.15	4003.40
40	3525.43	3531.49	3512.19	3495.27	3545.07	3530.92	3525.43	3530.92	3545.07	3495.27
41	3088.77	3104.30	3093.16	3069.62	3090.17	3071.09	3088.77	3071.09	3090.17	3069.62
42	2737.50	2764.54	2754.50	2729.04	2722.34	2708.83	2737.50	2708.83	2722.34	2729.04
43	2417.90	2450.09	2446.77	2416.10	2390.66	2374.19	2417.90	2374.19	2390.66	2416.10
44	2163.88	2199.30	2199.98	2166.38	2132.44	2115.01	2163.88	2115.01	2132.44	2166.38
45	1950.08	1987.87	1990.42	1957.15	1919.16	1902.88	1950.08	1902.88	1919.16	1957.15
46	1770.55	1807.59	1812.07	1779.57	1743.53	1725.46	1770.55	1725.46	1743.53	1779.57
47	1620.28	1655.87	1660.61	1630.40	1597.44	1581.06	1620.28	1581.06	1597.44	1630.40
48	1492.33	1525.20	1531.67	1504.50	1474.56	1459.33	1492.33	1459.33	1474.56	1504.50
49	1384.43	1414.29	1421.74	1396.79	1371.49	1357.09	1384.43	1357.09	1371.49	1396.79
50	1293.08	1319.09	1327.12	1304.85	1283.53	1271.03	1293.08	1271.03	1283.53	1304.85
51	1219.20	1237.73	1245.97	1226.98	1209.68	1199.58	1219.20	1199.58	1209.68	1226.98
52	1148.79	1169.60	1178.32	1161.54	1146.70	1133.98	1148.79	1133.98	1146.70	1161.54
53	1091.40	1106.51	1115.04	1100.88	1087.52	1079.14	1091.40	1079.14	1087.52	1100.88

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54	1041.84	1054.18	1062.75	1050.58	1038.21	1031.28	1041.84	1031.28	1038.21	1050.58
55	998.05	1008.18	1016.24	1005.81	994.20	988.39	998.05	988.39	994.20	1005.81
56	958.83	967.43	975.02	965.79	954.74	949.57	958.83	949.57	954.74	965.79
57	923.28	930.39	937.53	929.23	918.03	913.73	923.28	913.73	918.03	929.23
58	890.30	896.66	902.77	895.42	884.14	880.41	890.30	880.41	884.14	895.42
59	859.34	865.02	870.56	863.62	852.03	848.35	859.34	848.35	852.03	863.62
60	829.65	835.00	839.75	833.09	821.57	817.29	829.65	817.29	821.57	833.09
61	800.78	806.00	810.23	803.54	791.76	787.80	800.78	787.80	791.76	803.54
62	772.09	777.78	781.05	774.78	762.16	758.88	772.09	758.88	762.16	774.78
63	743.56	749.93	752.51	746.19	733.49	730.32	743.56	730.32	733.49	746.19
64	714.69	721.80	723.53	717.11	704.97	701.55	714.69	701.55	704.97	717.11
65	684.75	692.96	693.77	687.43	675.57	672.15	684.75	672.15	675.57	687.43
66	654.26	663.32	663.21	656.64	645.64	642.05	654.26	642.05	645.64	656.64
67	622.72	632.62	631.92	625.16	614.68	610.70	622.72	610.70	614.68	625.16
68	589.79	600.63	599.03	592.18	582.66	578.59	589.79	578.59	582.66	592.18
69	555.57	566.60	564.90	558.19	549.32	545.26	555.57	545.26	549.32	558.19
70	521.09	531.87	529.85	523.35	515.81	511.49	521.09	511.49	515.81	523.35
71	486.45	496.73	494.20	489.04	481.95	477.66	486.45	477.66	481.95	489.04
72	451.82	461.65	458.83	454.54	447.97	443.89	451.82	443.89	447.97	454.54
73	417.28	426.19	423.97	419.98	413.73	410.23	417.28	410.23	413.73	419.98
74	382.91	391.19	388.90	385.70	379.44	376.31	382.91	376.31	379.44	385.70
75	347.98	355.45	353.41	350.37	344.83	341.94	347.98	341.94	344.83	350.37
76	312.90	319.84	318.18	315.58	309.72	307.69	312.90	307.69	309.72	315.58
77	277.31	284.30	283.06	280.15	274.32	272.93	277.31	272.93	274.32	280.15
78	242.51	249.33	248.19	245.26	238.86	238.09	242.51	238.09	238.86	245.26
79	207.92	214.38	213.45	210.50	203.83	203.66	207.92	203.66	203.83	210.50
80	174.61	180.52	179.67	176.53	170.32	170.42	174.61	170.42	170.32	176.53
81	141.62	146.59	145.89	143.34	138.26	138.27	141.62	138.27	138.26	143.34
82	111.11	114.80	114.30	112.08	108.64	108.31	111.11	108.31	108.64	112.08
83	81.64	84.08	83.80	82.14	79.70	79.89	81.64	79.89	79.70	82.14
84	53.83	55.42	54.97	53.73	52.13	52.82	53.83	52.82	52.13	53.73
85	30.33	31.42	30.97	30.49	29.00	29.64	30.33	29.64	29.00	30.49
86	13.59	14.02	13.81	13.04	12.98	13.31	13.59	13.31	12.98	13.04
87	7.78	7.82	7.90	7.79	7.76	7.74	7.78	7.74	7.76	7.79
88	6.65	6.69	6.71	6.63	6.67	6.66	6.65	6.66	6.67	6.63
89	6.29	6.32	6.34	6.28	6.29	6.26	6.29	6.26	6.29	6.28
90	6.42	6.46	6.47	6.42	6.42	6.41	6.42	6.41	6.42	6.42
91	6.61	6.65	6.67	6.62	6.61	6.60	6.61	6.60	6.61	6.62
92	6.80	6.84	6.84	6.81	6.81	6.78	6.80	6.78	6.81	6.81
93	6.99	7.03	7.03	7.00	6.99	6.97	6.99	6.97	6.99	7.00
94	7.20	7.24	7.25	7.21	7.20	7.18	7.20	7.18	7.20	7.21
95	7.42	7.46	7.47	7.42	7.41	7.40	7.42	7.40	7.41	7.42
96	7.64	7.68	7.69	7.65	7.63	7.62	7.64	7.62	7.63	7.65
97	7.88	7.91	7.92	7.89	7.87	7.85	7.88	7.85	7.87	7.89
98	8.14	8.17	8.18	8.14	8.11	8.10	8.14	8.10	8.11	8.14
99	8.42	8.45	8.46	8.42	8.39	8.37	8.42	8.37	8.39	8.42
100	8.72	8.75	8.75	8.72	8.68	8.66	8.72	8.66	8.68	8.72
101	9.04	9.07	9.08	9.05	9.00	8.98	9.04	8.98	9.00	9.05
102	9.39	9.42	9.43	9.39	9.35	9.33	9.39	9.33	9.35	9.39
103	9.77	9.81	9.81	9.79	9.73	9.71	9.77	9.71	9.73	9.79
104	10.20	10.23	10.24	10.22	10.16	10.13	10.20	10.13	10.16	10.22
105	10.66	10.70	10.71	10.70	10.62	10.60	10.66	10.60	10.62	10.70
106	11.19	11.24	11.23	11.25	11.15	11.13	11.19	11.13	11.15	11.25
107	11.78	11.83	11.82	11.87	11.74	11.71	11.78	11.71	11.74	11.87
108	12.44	12.49	12.49	12.56	12.41	12.38	12.44	12.38	12.41	12.56
109	13.21	13.25	13.25	13.36	13.17	13.14	13.21	13.14	13.17	13.36

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CANDELA TABULATION - (Cont.)

110	14.05	14.08	14.09	14.26	14.02	13.97	14.05	13.97	14.02	14.26
111	14.98	15.03	15.01	15.20	14.95	14.91	14.98	14.91	14.95	15.20
112	16.03	16.09	16.05	16.23	15.99	15.97	16.03	15.97	15.99	16.23
113	17.21	17.25	17.22	17.35	17.16	17.14	17.21	17.14	17.16	17.35
114	18.51	18.56	18.52	18.58	18.46	18.45	18.51	18.45	18.46	18.58
115	19.96	20.00	19.96	19.95	19.90	19.88	19.96	19.88	19.90	19.95
116	21.56	21.56	21.54	21.48	21.49	21.45	21.56	21.45	21.49	21.48
117	23.25	23.29	23.24	23.14	23.19	23.16	23.25	23.16	23.19	23.14
118	25.11	25.15	25.09	24.96	25.04	25.03	25.11	25.03	25.04	24.96
119	27.15	27.17	27.11	26.95	27.07	27.05	27.15	27.05	27.07	26.95
120	29.30	29.33	29.29	29.09	29.22	29.21	29.30	29.21	29.22	29.09
121	31.64	31.64	31.60	31.39	31.54	31.52	31.64	31.52	31.54	31.39
122	34.10	34.12	34.06	33.82	34.02	33.98	34.10	33.98	34.02	33.82
123	36.71	36.73	36.65	36.42	36.61	36.58	36.71	36.58	36.61	36.42
124	39.47	39.49	39.42	39.17	39.38	39.35	39.47	39.35	39.38	39.17
125	42.36	42.38	42.28	42.05	42.26	42.23	42.36	42.23	42.26	42.05
126	45.44	45.41	45.35	45.09	45.33	45.27	45.44	45.27	45.33	45.09
127	48.56	48.55	48.51	48.23	48.47	48.44	48.56	48.44	48.47	48.23
128	51.88	51.83	51.80	51.53	51.79	51.74	51.88	51.74	51.79	51.53
129	55.27	55.27	55.18	54.94	55.20	55.15	55.27	55.15	55.20	54.94
130	58.81	58.77	58.70	58.45	58.74	58.65	58.81	58.65	58.74	58.45
131	62.45	62.42	62.35	62.09	62.39	62.32	62.45	62.32	62.39	62.09
132	66.20	66.14	66.07	65.83	66.14	66.04	66.20	66.04	66.14	65.83
133	70.03	69.95	69.90	69.66	69.97	69.88	70.03	69.88	69.97	69.66
134	73.93	73.85	73.79	73.56	73.89	73.79	73.93	73.79	73.89	73.56
135	77.91	77.84	77.75	77.54	77.91	77.81	77.91	77.81	77.91	77.54
136	81.97	81.88	81.80	81.61	81.97	81.86	81.97	81.86	81.97	81.61
137	86.04	85.94	85.87	85.69	86.07	85.96	86.04	85.96	86.07	85.69
138	90.22	90.09	90.02	89.86	90.25	90.11	90.22	90.11	90.25	89.86
139	94.44	94.24	94.20	94.02	94.47	94.32	94.44	94.32	94.47	94.02
140	98.63	98.43	98.39	98.24	98.67	98.54	98.63	98.54	98.67	98.24
141	102.84	102.65	102.59	102.47	102.91	102.78	102.84	102.78	102.91	102.47
142	107.05	106.84	106.79	106.68	107.14	106.99	107.05	106.99	107.14	106.68
143	111.27	111.02	110.99	110.88	111.35	111.22	111.27	111.22	111.35	110.88
144	115.42	115.17	115.13	115.04	115.54	115.40	115.42	115.40	115.54	115.04
145	119.57	119.28	119.27	119.19	119.70	119.54	119.57	119.54	119.70	119.19
146	123.66	123.36	123.34	123.30	123.81	123.64	123.66	123.64	123.81	123.30
147	127.69	127.38	127.35	127.34	127.87	127.70	127.69	127.70	127.87	127.34
148	131.66	131.33	131.31	131.30	131.87	131.69	131.66	131.69	131.87	131.30
149	135.56	135.18	135.19	135.19	135.79	135.59	135.56	135.59	135.79	135.19
150	139.36	138.99	139.01	139.01	139.63	139.41	139.36	139.41	139.63	139.01
151	143.06	142.70	142.70	142.73	143.36	143.15	143.06	143.15	143.36	142.73
152	146.69	146.31	146.36	146.36	147.03	146.79	146.69	146.79	147.03	146.36
153	150.20	149.84	149.85	149.88	150.58	150.33	150.20	150.33	150.58	149.88
154	153.62	153.26	153.26	153.30	154.02	153.75	153.62	153.75	154.02	153.30
155	156.94	156.60	156.59	156.63	157.39	157.12	156.94	157.12	157.39	156.63
156	160.20	159.84	159.83	159.87	160.67	160.37	160.20	160.37	160.67	159.87
157	163.36	163.02	162.99	163.04	163.88	163.59	163.36	163.59	163.88	163.04
158	166.49	166.13	166.11	166.13	167.03	166.71	166.49	166.71	167.03	166.13
159	169.54	169.18	169.15	169.16	170.11	169.81	169.54	169.81	170.11	169.16
160	172.56	172.20	172.14	172.16	173.14	172.84	172.56	172.84	173.14	172.16
161	175.54	175.15	175.11	175.11	176.14	175.83	175.54	175.83	176.14	175.11
162	178.50	178.10	178.04	178.04	179.09	178.80	178.50	178.80	179.09	178.04
163	181.41	181.01	180.95	180.95	182.02	181.72	181.41	181.72	182.02	180.95
164	184.26	183.92	183.86	183.85	184.93	184.61	184.26	184.61	184.93	183.85
165	187.11	186.76	186.75	186.70	187.81	187.40	187.11	187.40	187.81	186.70

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CANDELA TABULATION - (Cont.)

166	189.93	189.56	189.59	189.57	190.68	190.17	189.93	190.17	190.68	189.57
167	192.72	192.33	192.36	192.37	193.47	192.92	192.72	192.92	193.47	192.37
168	195.51	195.14	195.09	195.20	196.24	195.68	195.51	195.68	196.24	195.20
169	198.26	197.90	197.84	197.96	198.94	198.40	198.26	198.40	198.94	197.96
170	200.85	200.52	200.45	200.54	201.52	200.95	200.85	200.95	201.52	200.54
171	203.26	202.92	202.86	202.90	203.92	203.33	203.26	203.33	203.92	202.90
172	205.32	205.02	204.94	204.96	206.02	205.41	205.32	205.41	206.02	204.96
173	207.32	207.01	206.94	206.94	208.01	207.39	207.32	207.39	208.01	206.94
174	209.23	208.92	208.88	208.87	209.91	209.31	209.23	209.31	209.91	208.87
175	210.82	210.54	210.48	210.47	211.52	210.91	210.82	210.91	211.52	210.47
176	212.20	211.92	211.86	211.86	212.91	212.28	212.20	212.28	212.91	211.86
177	213.41	213.14	213.07	213.07	214.14	213.49	213.41	213.49	214.14	213.07
178	214.37	214.11	214.05	214.06	215.12	214.46	214.37	214.46	215.12	214.06
179	215.09	214.84	214.77	214.80	215.85	215.19	215.09	215.19	215.85	214.80
180	214.95	214.95	214.95	214.95	214.95	214.95	214.95	214.95	214.95	214.95

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	35834.76	35834.76	35834.76
1	35826.87	35824.76	35826.66
2	35798.60	35798.24	35798.22
3	35754.51	35749.73	35748.93
4	35689.47	35681.53	35679.71
5	35601.35	35594.63	35591.50
6	35493.92	35485.76	35475.19
7	35352.38	35342.94	35325.36
8	35172.90	35158.08	35134.47
9	34946.03	34930.63	34897.44
10	34667.16	34649.36	34606.97
11	34332.16	34313.38	34260.81
12	33936.19	33914.01	33857.20
13	33469.37	33452.12	33382.20
14	32934.23	32915.98	32845.18
15	32317.60	32302.05	32223.36
16	31623.07	31604.97	31532.27
17	30830.84	30826.07	30748.28
18	29956.43	29958.05	29882.40
19	28992.55	28996.99	28926.39
20	27929.72	27944.41	27872.44
21	26773.79	26799.28	26727.95
22	25529.55	25561.14	25490.43
23	24241.85	24241.42	24213.25
24	22833.69	22878.87	22817.76
25	21361.50	21414.00	21350.14
26	19839.30	19901.28	19841.54
27	18288.43	18349.66	18297.55
28	16721.89	16791.27	16754.92
29	15168.39	15243.41	15220.66
30	13651.34	13729.98	13719.95
31	12185.25	12281.34	12275.97
32	10802.74	10863.50	10906.30
33	9473.70	9551.69	9574.15
34	8255.70	8329.03	8372.08
35	7153.50	7216.40	7264.28
36	6179.40	6235.90	6273.68

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CANDELA TABULATION - (Cont.)

37	5335.15	5382.31	5410.55
38	4617.21	4650.11	4672.92
39	4013.15	4039.51	4048.24
40	3512.19	3531.49	3525.43
41	3093.16	3104.30	3088.77
42	2754.50	2764.54	2737.50
43	2446.77	2450.09	2417.90
44	2199.98	2199.30	2163.88
45	1990.42	1987.87	1950.08
46	1812.07	1807.59	1770.55
47	1660.61	1655.87	1620.28
48	1531.67	1525.20	1492.33
49	1421.74	1414.29	1384.43
50	1327.12	1319.09	1293.08
51	1245.97	1237.73	1219.20
52	1178.32	1169.60	1148.79
53	1115.04	1106.51	1091.40
54	1062.75	1054.18	1041.84
55	1016.24	1008.18	998.05
56	975.02	967.43	958.83
57	937.53	930.39	923.28
58	902.77	896.66	890.30
59	870.56	865.02	859.34
60	839.75	835.00	829.65
61	810.23	806.00	800.78
62	781.05	777.78	772.09
63	752.51	749.93	743.56
64	723.53	721.80	714.69
65	693.77	692.96	684.75
66	663.21	663.32	654.26
67	631.92	632.62	622.72
68	599.03	600.63	589.79
69	564.90	566.60	555.57
70	529.85	531.87	521.09
71	494.20	496.73	486.45
72	458.83	461.65	451.82
73	423.97	426.19	417.28
74	388.90	391.19	382.91
75	353.41	355.45	347.98
76	318.18	319.84	312.90
77	283.06	284.30	277.31
78	248.19	249.33	242.51
79	213.45	214.38	207.92
80	179.67	180.52	174.61
81	145.89	146.59	141.62
82	114.30	114.80	111.11
83	83.80	84.08	81.64
84	54.97	55.42	53.83
85	30.97	31.42	30.33
86	13.81	14.02	13.59
87	7.90	7.82	7.78
88	6.71	6.69	6.65
89	6.34	6.32	6.29
90	6.47	6.46	6.42
91	6.67	6.65	6.61
92	6.84	6.84	6.80

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CANDELA TABULATION - (Cont.)

93	7.03	7.03	6.99
94	7.25	7.24	7.20
95	7.47	7.46	7.42
96	7.69	7.68	7.64
97	7.92	7.91	7.88
98	8.18	8.17	8.14
99	8.46	8.45	8.42
100	8.75	8.75	8.72
101	9.08	9.07	9.04
102	9.43	9.42	9.39
103	9.81	9.81	9.77
104	10.24	10.23	10.20
105	10.71	10.70	10.66
106	11.23	11.24	11.19
107	11.82	11.83	11.78
108	12.49	12.49	12.44
109	13.25	13.25	13.21
110	14.09	14.08	14.05
111	15.01	15.03	14.98
112	16.05	16.09	16.03
113	17.22	17.25	17.21
114	18.52	18.56	18.51
115	19.96	20.00	19.96
116	21.54	21.56	21.56
117	23.24	23.29	23.25
118	25.09	25.15	25.11
119	27.11	27.17	27.15
120	29.29	29.33	29.30
121	31.60	31.64	31.64
122	34.06	34.12	34.10
123	36.65	36.73	36.71
124	39.42	39.49	39.47
125	42.28	42.38	42.36
126	45.35	45.41	45.44
127	48.51	48.55	48.56
128	51.80	51.83	51.88
129	55.18	55.27	55.27
130	58.70	58.77	58.81
131	62.35	62.42	62.45
132	66.07	66.14	66.20
133	69.90	69.95	70.03
134	73.79	73.85	73.93
135	77.75	77.84	77.91
136	81.80	81.88	81.97
137	85.87	85.94	86.04
138	90.02	90.09	90.22
139	94.20	94.24	94.44
140	98.39	98.43	98.63
141	102.59	102.65	102.84
142	106.79	106.84	107.05
143	110.99	111.02	111.27
144	115.13	115.17	115.42
145	119.27	119.28	119.57
146	123.34	123.36	123.66
147	127.35	127.38	127.69
148	131.31	131.33	131.66

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CANDELA TABULATION - (Cont.)

149	135.19	135.18	135.56
150	139.01	138.99	139.36
151	142.70	142.70	143.06
152	146.36	146.31	146.69
153	149.85	149.84	150.20
154	153.26	153.26	153.62
155	156.59	156.60	156.94
156	159.83	159.84	160.20
157	162.99	163.02	163.36
158	166.11	166.13	166.49
159	169.15	169.18	169.54
160	172.14	172.20	172.56
161	175.11	175.15	175.54
162	178.04	178.10	178.50
163	180.95	181.01	181.41
164	183.86	183.92	184.26
165	186.75	186.76	187.11
166	189.59	189.56	189.93
167	192.36	192.33	192.72
168	195.09	195.14	195.51
169	197.84	197.90	198.26
170	200.45	200.52	200.85
171	202.86	202.92	203.26
172	204.94	205.02	205.32
173	206.94	207.01	207.32
174	208.88	208.92	209.23
175	210.48	210.54	210.82
176	211.86	211.92	212.20
177	213.07	213.14	213.41
178	214.05	214.11	214.37
179	214.77	214.84	215.09
180	214.95	214.95	214.95

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	12306.11	40.30	40.30
0-30	21867.78	71.50	71.50
0-40	26588.00	87.00	87.00
0-60	29107.99	95.20	95.20
0-80	30149.59	98.60	98.60
0-90	30208.79	98.80	98.80
10-90	26840.83	87.80	87.80
20-40	14281.89	46.70	46.70
20-50	15888.38	52.00	52.00
40-70	3194.16	10.50	10.50
60-80	1041.6	3.40	3.40
70-80	367.42	1.20	1.20
80-90	59.20	0.20	0.20
90-110	19.68	0.10	0.10
90-120	39.95	0.10	0.10
90-130	78.13	0.30	0.30
90-150	212.51	0.70	0.70
90-180	356.85	1.20	1.20
110-180	337.18	1.10	1.10
0-180	30565.64	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3367.97
10-20	8938.14
20-30	9561.67
30-40	4720.23
40-50	1606.49
50-60	913.50
60-70	674.18
70-80	367.42
80-90	59.20
90-100	8.15
100-110	11.52
110-120	20.28
120-130	38.18
130-140	60.01
140-150	74.37
150-160	71.98
160-170	52.56
170-180	19.80

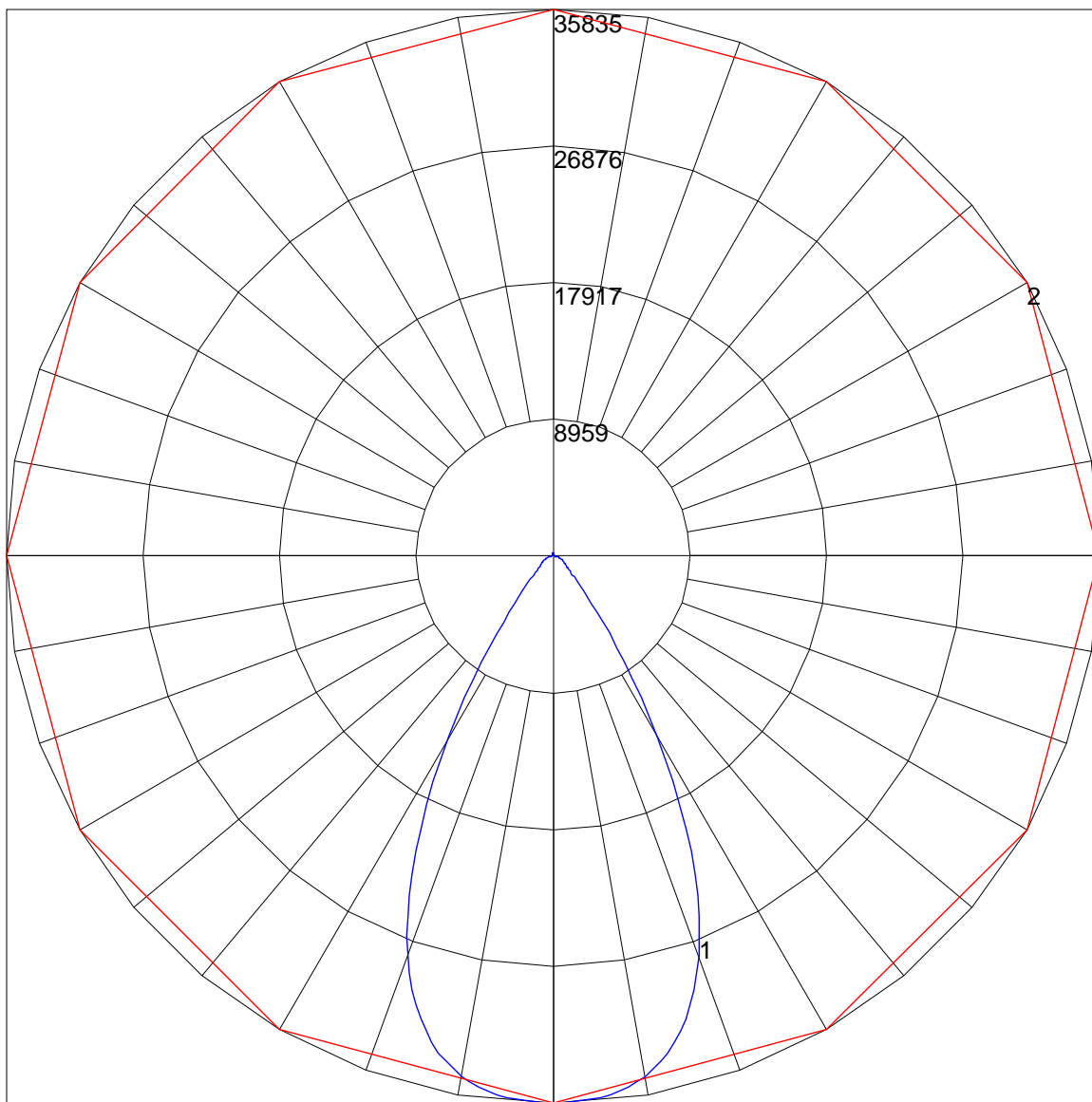
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	106	106	106	101	101	101	99
1	113	110	107	105	110	108	105	103	103	101	100	99	98	96	96	95	93	92
2	107	102	97	94	104	100	96	93	96	93	90	93	91	88	90	88	86	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	88	82	78	94	87	82	77	85	80	76	82	79	75	80	77	74	73
5	91	83	77	72	89	81	76	72	80	75	71	78	74	70	76	72	69	68
6	87	77	71	67	85	77	71	67	75	70	66	73	69	66	72	68	65	64
7	82	73	67	63	81	72	66	62	71	66	62	70	65	62	68	64	61	60
8	78	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	57	54	53
10	71	62	56	52	70	61	56	52	60	55	52	60	55	52	59	54	51	50

POLAR GRAPH



Maximum Candela = 35834.76 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)