



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVHOWT40MWD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB]

[TESTDATE] 2015-12-24

[ISSUEDATE] 2015-12-24 18:31:26

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] NUVHTVHOWT40MWD120-277V

[LAMP] 4000K Ra80

### CHARACTERISTICS

Lumens Per Lamp	36721 (1 lamp)
Total Lamp Lumens	36721
Luminaire Lumens	36724
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	309.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.38 m (Diameter)
Luminous Width (90-270)	0.38 m (Diameter)
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	54839	53995	57898
55	24751	24385	25693
65	15597	15934	16875
75	11233	11334	11918
85	2294	2477	2905

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**CANDELA TABULATION**

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	32033.78	32033.78	32033.78	32033.78	32033.78	32033.78	32033.78	32033.78	32033.78	32033.78
1	32025.72	32023.85	32028.91	32029.42	32025.18	32025.56	32025.72	32025.56	32025.18	32029.42
2	32002.98	31997.09	32003.30	31999.96	31998.22	31999.59	32002.98	31999.59	31998.22	31999.96
3	31959.49	31956.75	31961.25	31954.47	31956.29	31957.54	31959.49	31957.54	31956.29	31954.47
4	31903.01	31898.17	31900.33	31892.97	31893.36	31898.61	31903.01	31898.61	31893.36	31892.97
5	31825.55	31822.95	31819.25	31811.91	31811.80	31820.81	31825.55	31820.81	31811.80	31811.91
6	31730.23	31726.06	31722.93	31707.07	31712.05	31722.86	31730.23	31722.86	31712.05	31707.07
7	31614.70	31611.34	31603.78	31581.69	31591.57	31605.96	31614.70	31605.96	31591.57	31581.69
8	31472.78	31469.67	31457.75	31435.76	31447.94	31466.97	31472.78	31466.97	31447.94	31435.76
9	31312.46	31303.88	31293.26	31263.81	31280.12	31306.76	31312.46	31306.76	31280.12	31263.81
10	31122.98	31115.03	31098.98	31063.00	31091.11	31124.04	31122.98	31124.04	31091.11	31063.00
11	30909.01	30893.49	30872.71	30839.47	30871.75	30909.27	30909.01	30909.27	30871.75	30839.47
12	30664.60	30640.78	30620.99	30583.24	30630.72	30671.91	30664.60	30671.91	30630.72	30583.24
13	30389.55	30357.35	30334.04	30299.12	30358.04	30405.37	30389.55	30405.37	30358.04	30299.12
14	30079.97	30034.24	30007.47	29975.89	30051.05	30102.68	30079.97	30102.68	30051.05	29975.89
15	29726.89	29671.50	29650.33	29611.98	29706.41	29761.77	29726.89	29761.77	29706.41	29611.98
16	29338.76	29268.94	29249.82	29208.22	29330.14	29384.45	29338.76	29384.45	29330.14	29208.22
17	28901.81	28825.28	28793.23	28765.78	28914.01	28965.08	28901.81	28965.08	28914.01	28765.78
18	28419.40	28329.58	28295.91	28271.24	28438.99	28497.86	28419.40	28497.86	28438.99	28271.24
19	27889.56	27786.85	27745.29	27713.22	27943.07	27983.59	27889.56	27983.59	27943.07	27713.22
20	27296.76	27182.32	27143.08	27132.68	27427.35	27422.06	27296.76	27422.06	27427.35	27132.68
21	26676.71	26520.95	26480.44	26520.94	26808.03	26802.84	26676.71	26802.84	26808.03	26520.94
22	26018.89	25807.70	25767.90	25808.87	26138.71	26128.41	26018.89	26128.41	26138.71	25808.87
23	25257.71	25014.47	24985.79	25044.92	25411.57	25397.60	25257.71	25397.60	25411.57	25044.92
24	24434.78	24193.90	24147.99	24220.33	24637.83	24598.37	24434.78	24598.37	24637.83	24220.33
25	23561.92	23339.49	23256.90	23339.34	23788.07	23740.19	23561.92	23740.19	23788.07	23339.34
26	22623.23	22374.22	22279.55	22396.65	22894.61	22830.81	22623.23	22830.81	22894.61	22396.65
27	21628.33	21351.30	21284.86	21406.37	21944.15	21866.63	21628.33	21866.63	21944.15	21406.37
28	20579.98	20291.31	20269.93	20376.85	20962.81	20831.96	20579.98	20831.96	20962.81	20376.85
29	19481.94	19181.84	19168.54	19318.65	19936.00	19803.54	19481.94	19803.54	19936.00	19318.65
30	18357.26	18036.91	18041.06	18222.77	18886.81	18755.59	18357.26	18755.59	18886.81	18222.77
31	17204.80	16871.28	16900.24	17120.58	17813.36	17628.66	17204.80	17628.66	17813.36	17120.58
32	16038.61	15698.52	15736.21	16004.83	16727.34	16484.82	16038.61	16484.82	16727.34	16004.83
33	14862.98	14528.38	14602.42	14904.07	15638.72	15361.11	14862.98	15361.11	15638.72	14904.07
34	13720.52	13373.87	13489.62	13805.85	14552.85	14227.95	13720.52	14227.95	14552.85	13805.85
35	12580.49	12261.08	12397.52	12728.29	13478.39	13062.72	12580.49	13062.72	13478.39	12728.29
36	11479.36	11205.69	11294.78	11695.54	12425.66	11969.68	11479.36	11969.68	12425.66	11695.54
37	10445.02	10177.88	10278.15	10682.69	11401.00	10913.48	10445.02	10913.48	11401.00	10682.69
38	9482.86	9174.49	9316.49	9729.18	10414.60	9905.72	9482.86	9905.72	10414.60	9729.18
39	8550.80	8272.43	8415.73	8817.89	9477.67	8964.85	8550.80	8964.85	9477.67	8817.89
40	7659.30	7444.82	7575.10	7998.79	8590.87	8077.50	7659.30	8077.50	8590.87	7998.79
41	6866.61	6670.11	6808.70	7208.91	7787.32	7254.02	6866.61	7254.02	7787.32	7208.91
42	6144.70	5975.50	6098.81	6448.64	7009.53	6500.26	6144.70	6500.26	7009.53	6448.64
43	5498.53	5351.72	5462.46	5780.38	6259.88	5815.19	5498.53	5815.19	6259.88	5780.38
44	4915.16	4787.70	4888.97	5174.10	5612.80	5195.60	4915.16	5195.60	5612.80	5174.10
45	4399.62	4288.12	4375.65	4645.02	5033.18	4638.59	4399.62	4638.59	5033.18	4645.02
46	3940.36	3838.03	3914.14	4151.77	4501.46	4148.33	3940.36	4148.33	4501.46	4151.77
47	3547.92	3443.12	3510.08	3703.17	4008.71	3705.16	3547.92	3705.16	4008.71	3703.17
48	3185.74	3109.28	3150.87	3318.70	3586.77	3318.26	3185.74	3318.26	3586.77	3318.70
49	2850.64	2797.24	2834.04	2980.09	3213.62	2978.25	2850.64	2978.25	3213.62	2980.09
50	2573.00	2504.56	2554.79	2679.62	2884.76	2681.16	2573.00	2681.16	2884.76	2679.62
51	2330.23	2267.62	2316.17	2421.21	2597.17	2443.02	2330.23	2443.02	2597.17	2421.21
52	2114.87	2060.43	2086.72	2193.88	2344.64	2214.05	2114.87	2214.05	2344.64	2193.88
53	1925.93	1878.03	1899.28	1995.77	2125.98	1995.20	1925.93	1995.20	2125.98	1995.77

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**CANDELA TABULATION - (Cont.)**

54	1759.59	1719.68	1736.37	1824.50	1935.02	1823.57	1759.59	1823.57	1935.02	1824.50
55	1610.74	1580.67	1593.22	1672.05	1765.71	1674.71	1610.74	1674.71	1765.71	1672.05
56	1482.18	1458.04	1466.78	1539.99	1619.78	1541.70	1482.18	1541.70	1619.78	1539.99
57	1364.61	1348.69	1357.02	1422.68	1488.86	1424.43	1364.61	1424.43	1488.86	1422.68
58	1259.70	1250.23	1261.10	1319.28	1372.53	1321.19	1259.70	1321.19	1372.53	1319.28
59	1166.12	1160.83	1171.57	1226.53	1268.99	1225.70	1166.12	1225.70	1268.99	1226.53
60	1084.24	1083.58	1088.34	1142.34	1174.60	1136.53	1084.24	1136.53	1174.60	1142.34
61	1006.26	1009.65	1013.20	1066.20	1087.86	1057.42	1006.26	1057.42	1087.86	1066.20
62	929.44	937.46	944.78	997.80	1012.53	983.19	929.44	983.19	1012.53	997.80
63	861.73	872.72	880.18	930.60	939.35	915.62	861.73	915.62	939.35	930.60
64	801.27	815.43	821.14	865.14	867.12	853.92	801.27	853.92	867.12	865.14
65	747.89	762.79	765.33	809.18	804.42	795.42	747.89	795.42	804.42	809.18
66	698.47	712.71	713.41	755.94	747.19	741.47	698.47	741.47	747.19	755.94
67	650.93	664.53	666.36	705.33	694.38	691.25	650.93	691.25	694.38	705.33
68	605.74	617.79	619.88	655.84	643.72	642.32	605.74	642.32	643.72	655.84
69	563.26	572.78	575.79	609.15	596.17	596.71	563.26	596.71	596.17	609.15
70	521.56	529.08	533.96	562.20	551.16	552.73	521.56	552.73	551.16	562.20
71	481.55	486.24	493.29	517.76	507.51	509.86	481.55	509.86	507.51	517.76
72	442.92	446.02	453.38	472.88	465.93	468.54	442.92	468.54	465.93	472.88
73	404.26	407.16	414.05	430.99	423.95	428.22	404.26	428.22	423.95	430.99
74	366.79	367.78	374.64	389.46	384.18	388.09	366.79	388.09	384.18	389.46
75	329.87	329.06	336.62	349.98	345.08	349.26	329.87	349.26	345.08	349.98
76	293.73	291.15	298.43	310.70	306.52	310.51	293.73	310.51	306.52	310.70
77	257.76	254.73	261.51	271.15	268.03	271.91	257.76	271.91	268.03	271.15
78	222.15	219.21	224.97	232.89	230.62	233.62	222.15	233.62	230.62	232.89
79	187.81	186.15	188.38	196.60	194.83	195.29	187.81	195.29	194.83	196.60
80	154.89	155.09	151.69	161.95	160.63	158.33	154.89	158.33	160.63	161.95
81	121.73	125.34	119.40	129.58	127.34	124.89	121.73	124.89	127.34	129.58
82	92.53	96.10	89.50	98.14	95.40	93.35	92.53	93.35	95.40	98.14
83	64.24	68.16	64.95	71.85	69.62	63.42	64.24	63.42	69.62	71.85
84	41.57	42.41	43.47	48.27	46.77	39.94	41.57	39.94	46.77	48.27
85	22.68	23.98	25.01	28.73	27.08	21.42	22.68	21.42	27.08	28.73
86	8.46	14.41	14.47	17.65	16.23	8.17	8.46	8.17	16.23	17.65
87	5.12	6.96	6.80	9.04	7.76	5.12	5.12	5.12	7.76	9.04
88	4.21	4.64	4.70	5.09	4.93	4.30	4.21	4.30	4.93	5.09
89	4.03	4.23	4.33	4.58	4.53	4.12	4.03	4.12	4.53	4.58
90	4.23	4.19	4.22	4.33	4.45	4.33	4.23	4.33	4.45	4.33
91	4.48	4.42	4.45	4.53	4.70	4.59	4.48	4.59	4.70	4.53
92	4.75	4.68	4.72	4.81	5.00	4.87	4.75	4.87	5.00	4.81
93	5.05	4.97	5.01	5.12	5.33	5.18	5.05	5.18	5.33	5.12
94	5.39	5.29	5.33	5.46	5.69	5.51	5.39	5.51	5.69	5.46
95	5.75	5.64	5.67	5.82	6.07	5.86	5.75	5.86	6.07	5.82
96	6.13	6.03	6.04	6.21	6.50	6.27	6.13	6.27	6.50	6.21
97	6.56	6.44	6.46	6.64	6.97	6.71	6.56	6.71	6.97	6.64
98	7.03	6.88	6.94	7.11	7.50	7.21	7.03	7.21	7.50	7.11
99	7.53	7.37	7.44	7.64	8.09	7.77	7.53	7.77	8.09	7.64
100	8.08	7.92	8.00	8.23	8.72	8.37	8.08	8.37	8.72	8.23
101	8.73	8.53	8.62	8.86	9.41	9.02	8.73	9.02	9.41	8.86
102	9.42	9.20	9.29	9.55	10.16	9.74	9.42	9.74	10.16	9.55
103	10.19	9.96	10.03	10.32	11.03	10.53	10.19	10.53	11.03	10.32
104	11.02	10.77	10.85	11.18	11.95	11.42	11.02	11.42	11.95	11.18
105	11.96	11.66	11.78	12.13	12.96	12.37	11.96	12.37	12.96	12.13
106	12.98	12.65	12.78	13.15	14.09	13.44	12.98	13.44	14.09	13.15
107	14.09	13.75	13.86	14.28	15.30	14.62	14.09	14.62	15.30	14.28
108	15.31	14.95	15.05	15.50	16.61	15.86	15.31	15.86	16.61	15.50
109	16.67	16.23	16.36	16.83	18.02	17.24	16.67	17.24	18.02	16.83

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110	18.12	17.64	17.78	18.28	19.57	18.73	18.12	18.73	19.57	18.28
111	19.66	19.20	19.30	19.84	21.21	20.35	19.66	20.35	21.21	19.84
112	21.36	20.85	20.96	21.51	22.99	22.07	21.36	22.07	22.99	21.51
113	23.18	22.62	22.76	23.31	24.86	23.92	23.18	23.92	24.86	23.31
114	25.11	24.55	24.64	25.25	26.86	25.89	25.11	25.89	26.86	25.25
115	27.20	26.57	26.68	27.29	28.99	28.01	27.20	28.01	28.99	27.29
116	29.42	28.74	28.84	29.47	31.26	30.23	29.42	30.23	31.26	29.47
117	31.76	31.06	31.15	31.80	33.62	32.58	31.76	32.58	33.62	31.80
118	34.19	33.51	33.57	34.23	36.11	35.07	34.19	35.07	36.11	34.23
119	36.77	36.04	36.12	36.79	38.72	37.65	36.77	37.65	38.72	36.79
120	39.49	38.73	38.82	39.45	41.44	40.36	39.49	40.36	41.44	39.45
121	42.29	41.54	41.60	42.26	44.27	43.19	42.29	43.19	44.27	42.26
122	45.23	44.46	44.54	45.20	47.24	46.15	45.23	46.15	47.24	45.20
123	48.30	47.50	47.60	48.25	50.29	49.21	48.30	49.21	50.29	48.25
124	51.46	50.67	50.75	51.42	53.46	52.38	51.46	52.38	53.46	51.42
125	54.72	53.94	53.99	54.69	56.72	55.63	54.72	55.63	56.72	54.69
126	58.08	57.28	57.39	58.06	60.07	58.99	58.08	58.99	60.07	58.06
127	61.55	60.75	60.85	61.51	63.51	62.44	61.55	62.44	63.51	61.51
128	65.06	64.30	64.39	65.07	67.00	65.94	65.06	65.94	67.00	65.07
129	68.69	67.93	68.05	68.69	70.61	69.54	68.69	69.54	70.61	68.69
130	72.36	71.63	71.74	72.38	74.22	73.20	72.36	73.20	74.22	72.38
131	76.11	75.40	75.51	76.19	77.96	76.96	76.11	76.96	77.96	76.19
132	79.93	79.23	79.35	79.99	81.76	80.74	79.93	80.74	81.76	79.99
133	83.78	83.11	83.22	83.88	85.57	84.57	83.78	84.57	85.57	83.88
134	87.67	87.03	87.16	87.80	89.43	88.47	87.67	88.47	89.43	87.80
135	91.60	90.99	91.10	91.75	93.30	92.36	91.60	92.36	93.30	91.75
136	95.54	94.96	95.09	95.72	97.21	96.28	95.54	96.28	97.21	95.72
137	99.53	98.95	99.07	99.68	101.12	100.25	99.53	100.25	101.12	99.68
138	103.50	102.94	103.09	103.69	105.10	104.18	103.50	104.18	105.10	103.69
139	107.47	106.90	107.09	107.66	109.02	108.11	107.47	108.11	109.02	107.66
140	111.38	110.87	111.05	111.61	112.95	112.06	111.38	112.06	112.95	111.61
141	115.33	114.83	115.02	115.57	116.88	115.98	115.33	115.98	116.88	115.57
142	119.21	118.73	118.88	119.48	120.80	119.87	119.21	119.87	120.80	119.48
143	123.05	122.60	122.80	123.32	124.65	123.70	123.05	123.70	124.65	123.32
144	126.84	126.39	126.57	127.11	128.46	127.49	126.84	127.49	128.46	127.11
145	130.59	130.17	130.36	130.89	132.25	131.25	130.59	131.25	132.25	130.89
146	134.28	133.86	134.06	134.59	136.01	134.96	134.28	134.96	136.01	134.59
147	137.89	137.51	137.72	138.24	139.73	138.60	137.89	138.60	139.73	138.24
148	141.46	141.07	141.29	141.84	143.36	142.23	141.46	142.23	143.36	141.84
149	145.00	144.58	144.83	145.38	146.98	145.75	145.00	145.75	146.98	145.38
150	148.44	148.06	148.30	148.86	150.54	149.21	148.44	149.21	150.54	148.86
151	151.82	151.44	151.70	152.28	154.04	152.63	151.82	152.63	154.04	152.28
152	155.19	154.78	155.07	155.67	157.53	156.03	155.19	156.03	157.53	155.67
153	158.52	158.08	158.40	159.03	160.97	159.45	158.52	159.45	160.97	159.03
154	161.81	161.39	161.72	162.35	164.46	162.78	161.81	162.78	164.46	162.35
155	165.13	164.64	165.02	165.68	167.92	166.15	165.13	166.15	167.92	165.68
156	168.45	167.93	168.32	168.99	171.36	169.53	168.45	169.53	171.36	168.99
157	171.78	171.25	171.64	172.32	174.83	172.91	171.78	172.91	174.83	172.32
158	175.14	174.56	174.97	175.64	178.30	176.31	175.14	176.31	178.30	175.64
159	178.50	177.90	178.31	178.99	181.78	179.72	178.50	179.72	181.78	178.99
160	181.89	181.27	181.68	182.35	185.26	183.16	181.89	183.16	185.26	182.35
161	185.32	184.65	185.07	185.73	188.76	186.62	185.32	186.62	188.76	185.73
162	188.78	188.09	188.48	189.12	192.25	190.11	188.78	190.11	192.25	189.12
163	192.23	191.54	191.92	192.54	195.72	193.58	192.23	193.58	195.72	192.54
164	195.70	195.04	195.36	195.95	199.19	197.07	195.70	197.07	199.19	195.95
165	199.19	198.48	198.81	199.34	202.61	200.51	199.19	200.51	202.61	199.34

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT40MWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

166	202.63	201.96	202.21	202.74	206.02	203.96	202.63	203.96	206.02	202.74
167	206.04	205.37	205.62	206.09	209.37	207.35	206.04	207.35	209.37	206.09
168	209.40	208.73	208.98	209.38	212.63	210.68	209.40	210.68	212.63	209.38
169	212.77	212.12	212.30	212.65	215.91	214.02	212.77	214.02	215.91	212.65
170	216.03	215.39	215.55	215.83	219.10	217.27	216.03	217.27	219.10	215.83
171	219.15	218.51	218.65	218.87	222.09	220.34	219.15	220.34	222.09	218.87
172	221.98	221.35	221.46	221.62	224.73	223.15	221.98	223.15	224.73	221.62
173	224.42	223.82	223.93	224.05	227.06	225.50	224.42	225.50	227.06	224.05
174	226.70	226.09	226.22	226.26	229.26	227.72	226.70	227.72	229.26	226.26
175	228.72	228.16	228.25	228.27	231.25	229.77	228.72	229.77	231.25	228.27
176	230.46	229.90	230.01	229.99	232.90	231.47	230.46	231.47	232.90	229.99
177	231.86	231.36	231.48	231.40	234.29	232.93	231.86	232.93	234.29	231.40
178	232.96	232.52	232.65	232.49	235.42	234.09	232.96	234.09	235.42	232.49
179	233.78	233.29	233.45	233.26	236.24	234.96	233.78	234.96	236.24	233.26
180	232.63	232.63	232.63	232.63	232.63	232.63	232.63	232.63	232.63	232.63

Vert. Angles	Horizontal Angles		
	<u>300</u>	<u>330</u>	<u>360</u>
0	32033.78	32033.78	32033.78
1	32028.91	32023.85	32025.72
2	32003.30	31997.09	32002.98
3	31961.25	31956.75	31959.49
4	31900.33	31898.17	31903.01
5	31819.25	31822.95	31825.55
6	31722.93	31726.06	31730.23
7	31603.78	31611.34	31614.70
8	31457.75	31469.67	31472.78
9	31293.26	31303.88	31312.46
10	31098.98	31115.03	31122.98
11	30872.71	30893.49	30909.01
12	30620.99	30640.78	30664.60
13	30334.04	30357.35	30389.55
14	30007.47	30034.24	30079.97
15	29650.33	29671.50	29726.89
16	29249.82	29268.94	29338.76
17	28793.23	28825.28	28901.81
18	28295.91	28329.58	28419.40
19	27745.29	27786.85	27889.56
20	27143.08	27182.32	27296.76
21	26480.44	26520.95	26676.71
22	25767.90	25807.70	26018.89
23	24985.79	25014.47	25257.71
24	24147.99	24193.90	24434.78
25	23256.90	23339.49	23561.92
26	22279.55	22374.22	22623.23
27	21284.86	21351.30	21628.33
28	20269.93	20291.31	20579.98
29	19168.54	19181.84	19481.94
30	18041.06	18036.91	18357.26
31	16900.24	16871.28	17204.80
32	15736.21	15698.52	16038.61
33	14602.42	14528.38	14862.98
34	13489.62	13373.87	13720.52
35	12397.52	12261.08	12580.49
36	11294.78	11205.69	11479.36

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

37	10278.15	10177.88	10445.02
38	9316.49	9174.49	9482.86
39	8415.73	8272.43	8550.80
40	7575.10	7444.82	7659.30
41	6808.70	6670.11	6866.61
42	6098.81	5975.50	6144.70
43	5462.46	5351.72	5498.53
44	4888.97	4787.70	4915.16
45	4375.65	4288.12	4399.62
46	3914.14	3838.03	3940.36
47	3510.08	3443.12	3547.92
48	3150.87	3109.28	3185.74
49	2834.04	2797.24	2850.64
50	2554.79	2504.56	2573.00
51	2316.17	2267.62	2330.23
52	2086.72	2060.43	2114.87
53	1899.28	1878.03	1925.93
54	1736.37	1719.68	1759.59
55	1593.22	1580.67	1610.74
56	1466.78	1458.04	1482.18
57	1357.02	1348.69	1364.61
58	1261.10	1250.23	1259.70
59	1171.57	1160.83	1166.12
60	1088.34	1083.58	1084.24
61	1013.20	1009.65	1006.26
62	944.78	937.46	929.44
63	880.18	872.72	861.73
64	821.14	815.43	801.27
65	765.33	762.79	747.89
66	713.41	712.71	698.47
67	666.36	664.53	650.93
68	619.88	617.79	605.74
69	575.79	572.78	563.26
70	533.96	529.08	521.56
71	493.29	486.24	481.55
72	453.38	446.02	442.92
73	414.05	407.16	404.26
74	374.64	367.78	366.79
75	336.62	329.06	329.87
76	298.43	291.15	293.73
77	261.51	254.73	257.76
78	224.97	219.21	222.15
79	188.38	186.15	187.81
80	151.69	155.09	154.89
81	119.40	125.34	121.73
82	89.50	96.10	92.53
83	64.95	68.16	64.24
84	43.47	42.41	41.57
85	25.01	23.98	22.68
86	14.47	14.41	8.46
87	6.80	6.96	5.12
88	4.70	4.64	4.21
89	4.33	4.23	4.03
90	4.22	4.19	4.23
91	4.45	4.42	4.48
92	4.72	4.68	4.75

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

93	5.01	4.97	5.05
94	5.33	5.29	5.39
95	5.67	5.64	5.75
96	6.04	6.03	6.13
97	6.46	6.44	6.56
98	6.94	6.88	7.03
99	7.44	7.37	7.53
100	8.00	7.92	8.08
101	8.62	8.53	8.73
102	9.29	9.20	9.42
103	10.03	9.96	10.19
104	10.85	10.77	11.02
105	11.78	11.66	11.96
106	12.78	12.65	12.98
107	13.86	13.75	14.09
108	15.05	14.95	15.31
109	16.36	16.23	16.67
110	17.78	17.64	18.12
111	19.30	19.20	19.66
112	20.96	20.85	21.36
113	22.76	22.62	23.18
114	24.64	24.55	25.11
115	26.68	26.57	27.20
116	28.84	28.74	29.42
117	31.15	31.06	31.76
118	33.57	33.51	34.19
119	36.12	36.04	36.77
120	38.82	38.73	39.49
121	41.60	41.54	42.29
122	44.54	44.46	45.23
123	47.60	47.50	48.30
124	50.75	50.67	51.46
125	53.99	53.94	54.72
126	57.39	57.28	58.08
127	60.85	60.75	61.55
128	64.39	64.30	65.06
129	68.05	67.93	68.69
130	71.74	71.63	72.36
131	75.51	75.40	76.11
132	79.35	79.23	79.93
133	83.22	83.11	83.78
134	87.16	87.03	87.67
135	91.10	90.99	91.60
136	95.09	94.96	95.54
137	99.07	98.95	99.53
138	103.09	102.94	103.50
139	107.09	106.90	107.47
140	111.05	110.87	111.38
141	115.02	114.83	115.33
142	118.88	118.73	119.21
143	122.80	122.60	123.05
144	126.57	126.39	126.84
145	130.36	130.17	130.59
146	134.06	133.86	134.28
147	137.72	137.51	137.89
148	141.29	141.07	141.46

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

149	144.83	144.58	145.00
150	148.30	148.06	148.44
151	151.70	151.44	151.82
152	155.07	154.78	155.19
153	158.40	158.08	158.52
154	161.72	161.39	161.81
155	165.02	164.64	165.13
156	168.32	167.93	168.45
157	171.64	171.25	171.78
158	174.97	174.56	175.14
159	178.31	177.90	178.50
160	181.68	181.27	181.89
161	185.07	184.65	185.32
162	188.48	188.09	188.78
163	191.92	191.54	192.23
164	195.36	195.04	195.70
165	198.81	198.48	199.19
166	202.21	201.96	202.63
167	205.62	205.37	206.04
168	208.98	208.73	209.40
169	212.30	212.12	212.77
170	215.55	215.39	216.03
171	218.65	218.51	219.15
172	221.46	221.35	221.98
173	223.93	223.82	224.42
174	226.22	226.09	226.70
175	228.25	228.16	228.72
176	230.01	229.90	230.46
177	231.48	231.36	231.86
178	232.65	232.52	232.96
179	233.45	233.29	233.78
180	232.63	232.63	232.63



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT40MWD120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	11324.07	30.80	30.80
0-30	21964.71	59.80	59.80
0-40	29921.62	81.50	81.50
0-60	35121.44	95.60	95.60
0-80	36270.82	98.80	98.80
0-90	36321.23	98.90	98.90
10-90	33306.38	90.70	90.70
20-40	18597.55	50.60	50.60
20-50	22260.00	60.60	60.60
40-70	5988.07	16.30	16.30
60-80	1149.38	3.10	3.10
70-80	361.12	1.00	1.00
80-90	50.41	0.10	0.10
90-110	19.71	0.10	0.10
90-120	47.35	0.10	0.10
90-130	96.72	0.30	0.30
90-150	249.12	0.70	0.70
90-180	402.93	1.10	1.10
110-180	383.22	1.00	1.00
0-180	36724.16	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3014.85
10-20	8309.22
20-30	10640.64
30-40	7956.91
40-50	3662.45
50-60	1537.37
60-70	788.25
70-80	361.12
80-90	50.41
90-100	6.49
100-110	13.22
110-120	27.65
120-130	49.37
130-140	70.77
140-150	81.62
150-160	76.24
160-170	56.10
170-180	21.47

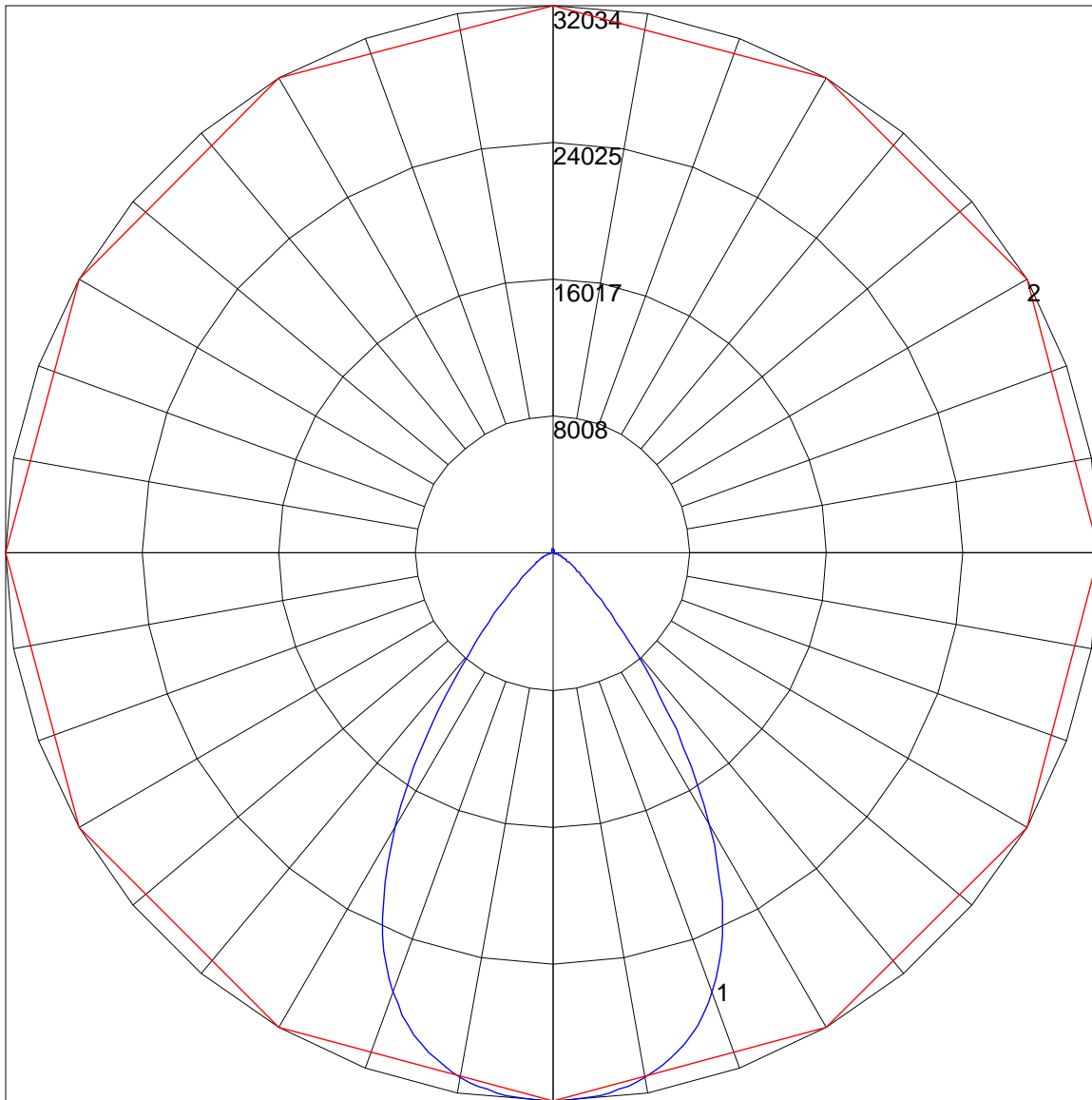
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT40MWD120-277V.IES**

**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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	87	82	98	91	86	82	88	84	80	85	82	79	83	80	77	76
4	94	85	79	75	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	89	79	73	68	87	78	72	68	76	71	67	74	70	66	73	69	65	64
6	84	74	67	62	82	73	67	62	71	66	61	70	65	61	68	64	60	59
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	59	56	54
8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	60	56	52	51
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	53	49	45	44

POLAR GRAPH



Maximum Candela = 32033.78 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)