



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVHOWT40VWD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 1  
 [TESTLAB] BEGHELLI  
 [TESTDATE] 2015-12-24  
 [ISSUEDATE] 2015-12-24 11:39:46  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [MANUFAC] BEGHELLI  
 [LUMINAIRE] NUVHTVHOWT40VWD120-277V  
 [LAMP] 4000K Ra80

### CHARACTERISTICS

Lumens Per Lamp	35654 (1 lamp)
Total Lamp Lumens	35654
Luminaire Lumens	35655
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	310.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
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	106752	108977	111491
55	98456	101973	106113
65	80455	85971	91630
75	45143	54090	62466
85	3589	9122	15089

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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	12783.83	12783.83	12783.83	12783.83	12783.83	12783.83	12783.83	12783.83	12783.83	12783.83
1	12774.97	12777.27	12781.58	12787.77	12790.40	12790.97	12788.02	12784.59	12780.21	12775.41
2	12762.59	12767.51	12774.64	12787.17	12790.93	12792.87	12786.01	12780.38	12772.59	12763.45
3	12745.27	12753.15	12764.09	12781.29	12786.50	12787.72	12779.61	12770.75	12760.03	12748.40
4	12725.58	12735.37	12748.21	12770.76	12775.68	12776.96	12766.64	12757.92	12744.64	12730.71
5	12703.78	12713.84	12729.29	12755.39	12762.39	12763.14	12750.47	12741.41	12725.67	12708.18
6	12676.59	12688.35	12707.22	12736.50	12744.64	12745.60	12732.56	12721.91	12703.13	12682.86
7	12646.82	12659.13	12680.84	12715.75	12724.71	12726.57	12711.52	12699.15	12677.66	12654.22
8	12612.04	12626.11	12652.80	12689.95	12701.11	12703.86	12687.23	12674.16	12647.50	12621.76
9	12574.39	12589.03	12619.48	12659.72	12672.61	12678.36	12659.26	12644.13	12615.60	12584.96
10	12533.03	12546.98	12582.68	12624.79	12640.84	12649.08	12626.30	12611.23	12577.78	12542.19
11	12487.13	12501.81	12542.91	12588.65	12604.75	12615.56	12590.20	12574.83	12537.57	12497.28
12	12438.31	12453.13	12499.07	12546.36	12563.93	12578.48	12548.94	12533.17	12492.73	12449.20
13	12384.25	12400.63	12450.11	12499.58	12519.54	12536.86	12504.66	12488.47	12444.61	12396.23
14	12326.23	12344.84	12397.93	12450.49	12471.59	12491.96	12456.78	12439.12	12393.63	12340.60
15	12263.32	12284.46	12341.41	12395.97	12420.29	12442.58	12405.22	12386.64	12338.36	12280.87
16	12198.11	12221.35	12283.47	12338.37	12364.87	12389.73	12349.90	12331.75	12279.61	12216.98
17	12128.24	12154.01	12221.82	12276.54	12307.06	12331.73	12291.02	12271.53	12216.53	12151.03
18	12052.66	12082.68	12154.08	12212.46	12245.38	12269.55	12229.24	12208.48	12151.53	12079.53
19	11975.20	12007.99	12084.13	12142.72	12178.10	12202.87	12162.74	12141.03	12080.31	12004.39
20	11892.60	11927.78	12008.89	12069.67	12107.50	12132.56	12094.06	12071.08	12005.47	11925.47
21	11805.12	11844.62	11931.50	11992.80	12035.57	12058.75	12022.30	11998.61	11926.07	11841.10
22	11715.47	11757.79	11848.97	11910.96	11957.03	11980.03	11946.76	11921.05	11840.93	11752.00
23	11621.10	11665.83	11762.00	11826.79	11875.16	11897.45	11868.55	11841.74	11753.38	11658.72
24	11523.31	11570.17	11670.99	11737.66	11788.94	11811.92	11787.29	11758.19	11661.02	11562.42
25	11419.63	11469.55	11577.21	11645.33	11697.77	11724.00	11702.38	11669.16	11565.48	11461.04
26	11313.40	11365.64	11479.44	11551.43	11605.40	11632.69	11612.50	11575.61	11466.13	11352.85
27	11201.83	11258.11	11375.24	11452.25	11506.27	11537.56	11515.95	11476.14	11361.28	11240.25
28	11086.98	11148.54	11270.83	11349.23	11404.26	11439.02	11417.90	11373.82	11253.56	11124.90
29	10969.93	11034.74	11160.11	11242.50	11297.98	11335.28	11313.77	11265.34	11141.88	11006.55
30	10846.74	10916.68	11043.92	11132.62	11189.00	11230.35	11206.87	11154.20	11025.25	10880.79
31	10722.68	10795.20	10925.77	11018.82	11074.71	11120.35	11095.05	11037.98	10905.73	10755.10
32	10592.00	10670.61	10802.20	10899.62	10957.65	11005.69	10977.39	10914.06	10779.05	10625.62
33	10461.73	10539.97	10675.11	10777.26	10840.90	10886.38	10854.81	10789.68	10649.26	10491.80
34	10325.72	10405.46	10543.85	10649.35	10720.06	10764.91	10728.03	10657.91	10516.11	10357.59
35	10187.92	10268.24	10406.55	10513.61	10594.85	10637.67	10595.20	10519.10	10377.56	10219.53
36	10043.71	10125.73	10265.94	10375.82	10464.39	10505.38	10458.72	10378.45	10235.20	10079.96
37	9896.09	9979.11	10121.37	10232.29	10330.78	10369.31	10316.22	10232.17	10087.92	9937.68
38	9743.73	9826.43	9975.86	10083.00	10191.76	10229.34	10168.49	10081.82	9937.21	9789.84
39	9586.70	9669.96	9822.54	9929.92	10047.18	10081.33	10016.55	9932.17	9783.70	9638.73
40	9425.48	9512.62	9667.17	9772.36	9898.14	9930.07	9862.88	9776.04	9629.20	9483.07
41	9261.01	9348.23	9508.64	9613.53	9740.23	9771.18	9702.29	9617.07	9469.87	9321.59
42	9093.95	9179.05	9345.75	9449.80	9578.28	9606.37	9537.53	9451.66	9304.78	9151.11
43	8920.38	9007.75	9178.28	9285.02	9410.46	9437.65	9370.48	9283.26	9136.42	8974.23
44	8744.53	8833.10	9006.64	9115.04	9238.30	9264.55	9199.39	9110.30	8963.04	8789.82
45	8564.47	8656.86	8829.16	8944.73	9061.03	9089.19	9023.43	8933.92	8787.68	8604.94
46	8381.23	8472.17	8648.05	8770.16	8877.11	8910.54	8840.81	8753.14	8606.86	8407.72
47	8193.33	8285.21	8462.63	8593.18	8690.41	8726.19	8657.29	8570.26	8420.66	8210.64
48	8002.57	8091.19	8277.70	8411.68	8498.73	8540.53	8467.25	8383.02	8227.38	8007.49
49	7807.12	7898.43	8087.60	8229.72	8301.65	8351.21	8272.14	8189.72	8031.27	7801.31
50	7607.65	7696.38	7893.00	8039.21	8103.36	8155.96	8074.53	7985.11	7827.04	7588.18
51	7392.79	7493.70	7692.15	7842.21	7898.09	7953.26	7856.09	7763.27	7604.97	7362.49
52	7158.47	7273.36	7481.89	7626.05	7667.60	7728.55	7624.80	7529.38	7365.37	7119.82
53	6908.42	7033.26	7242.09	7394.31	7428.30	7493.69	7388.51	7285.61	7112.70	6863.92

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**CANDELA TABULATION - (Cont.)**

54	6656.77	6785.50	6993.80	7151.37	7179.04	7250.90	7150.55	7042.62	6853.96	6609.62
55	6407.32	6531.14	6741.16	6905.58	6930.75	7012.31	6920.73	6805.04	6604.65	6357.17
56	6162.14	6286.73	6493.55	6664.48	6697.14	6789.16	6698.16	6567.87	6368.56	6115.11
57	5917.07	6044.06	6255.23	6425.02	6465.42	6566.02	6471.21	6326.95	6129.54	5878.58
58	5676.38	5802.99	6016.01	6182.31	6238.66	6343.28	6246.10	6091.08	5892.63	5648.73
59	5430.61	5562.30	5775.91	5935.31	6013.99	6115.22	6015.21	5856.10	5653.03	5421.79
60	5184.21	5321.50	5538.78	5684.53	5792.08	5875.77	5780.73	5621.77	5409.10	5191.81
61	4942.45	5080.82	5300.74	5437.24	5561.24	5630.71	5537.14	5380.10	5164.09	4955.81
62	4678.98	4828.36	5057.15	5199.27	5325.43	5388.18	5284.56	5128.34	4898.09	4675.75
63	4397.50	4548.61	4803.30	4942.16	5067.57	5125.76	5008.20	4848.37	4611.93	4382.95
64	4130.68	4262.63	4521.64	4666.38	4784.43	4843.78	4715.43	4569.01	4324.94	4102.86
65	3857.82	3996.59	4248.07	4393.69	4507.20	4558.27	4436.55	4299.25	4057.86	3834.55
66	3595.82	3743.37	3987.80	4130.65	4239.98	4285.71	4173.60	4037.71	3796.50	3573.96
67	3331.69	3491.22	3727.58	3874.14	3972.34	4025.87	3916.96	3781.69	3539.09	3319.97
68	3063.08	3239.78	3474.65	3618.94	3715.05	3777.66	3666.85	3531.89	3281.56	3066.97
69	2800.01	2958.69	3218.81	3361.04	3465.05	3540.68	3406.01	3265.35	3000.58	2799.44
70	2536.94	2684.61	2954.26	3087.14	3195.92	3274.18	3118.55	2995.66	2729.22	2541.56
71	2274.13	2436.65	2689.72	2832.54	2924.93	3004.47	2851.77	2725.97	2480.19	2290.06
72	2024.47	2193.13	2425.76	2577.95	2665.27	2736.78	2597.08	2456.88	2237.71	2044.27
73	1783.66	1943.02	2179.91	2323.33	2413.29	2469.41	2356.55	2216.17	1983.30	1805.39
74	1556.18	1709.99	1921.82	2066.65	2164.74	2217.79	2104.92	1951.96	1739.04	1579.24
75	1325.66	1482.63	1694.12	1834.34	1920.94	1977.51	1865.45	1723.42	1518.06	1356.11
76	1116.97	1266.76	1468.99	1612.48	1688.31	1736.81	1628.34	1493.44	1295.32	1160.23
77	910.86	1070.96	1257.91	1390.43	1459.45	1504.37	1400.24	1273.04	1100.01	964.96
78	722.78	875.39	1046.73	1185.05	1247.40	1282.23	1185.77	1064.93	904.95	769.70
79	557.21	679.82	858.97	979.09	1054.91	1074.69	996.60	875.03	709.89	605.72
80	417.22	518.30	678.42	790.91	862.63	872.49	807.57	696.20	550.34	463.50
81	320.19	378.63	516.00	620.24	670.36	696.61	618.55	536.89	407.59	338.31
82	223.17	261.23	400.15	468.17	509.98	537.23	471.31	397.54	285.13	233.49
83	126.49	171.07	284.29	361.79	371.01	399.20	345.11	301.48	188.61	148.56
84	67.69	124.89	169.39	255.41	256.65	301.69	239.82	205.43	113.99	106.91
85	35.49	80.01	100.39	149.21	167.50	204.17	155.23	109.66	70.45	65.93
86	23.50	35.12	54.13	85.22	121.09	107.76	111.16	55.22	27.12	24.95
87	15.63	20.47	33.08	44.63	75.32	57.20	67.91	24.67	18.54	16.37
88	14.51	14.45	20.07	26.92	29.55	30.56	24.67	18.08	14.89	14.58
89	15.36	14.85	14.37	16.70	20.40	21.62	16.50	14.68	14.12	15.21
90	16.29	15.73	14.91	13.67	14.13	14.51	14.05	14.13	14.93	16.13
91	17.30	16.70	15.84	14.45	14.19	14.02	14.42	15.02	15.91	17.13
92	18.34	17.73	16.81	15.39	15.06	14.92	15.33	15.98	16.94	18.15
93	19.43	18.81	17.83	16.38	16.05	15.89	16.33	17.01	18.01	19.24
94	20.55	19.91	18.91	17.42	17.08	16.90	17.39	18.08	19.15	20.35
95	21.75	21.07	20.01	18.52	18.17	17.98	18.49	19.20	20.32	21.51
96	22.95	22.25	21.18	19.67	19.31	19.10	19.64	20.40	21.50	22.70
97	24.21	23.47	22.38	20.87	20.48	20.30	20.84	21.62	22.73	23.93
98	25.49	24.71	23.62	22.09	21.67	21.50	22.06	22.86	24.01	25.16
99	26.80	26.00	24.88	23.37	22.90	22.75	23.32	24.15	25.31	26.44
100	28.13	27.33	26.17	24.66	24.19	24.04	24.58	25.47	26.68	27.77
101	29.49	28.67	27.51	25.98	25.51	25.34	25.93	26.81	28.05	29.13
102	30.90	30.08	28.85	27.34	26.86	26.69	27.30	28.18	29.47	30.52
103	32.33	31.50	30.22	28.72	28.24	28.05	28.69	29.58	30.89	31.92
104	33.78	32.93	31.64	30.13	29.65	29.46	30.10	31.01	32.35	33.36
105	35.25	34.40	33.09	31.59	31.08	30.90	31.55	32.47	33.82	34.81
106	36.75	35.87	34.53	33.05	32.53	32.36	33.01	33.95	35.30	36.27
107	38.29	37.37	36.02	34.51	34.00	33.83	34.50	35.43	36.81	37.80
108	39.83	38.92	37.53	36.01	35.50	35.31	36.01	36.95	38.33	39.33
109	41.39	40.47	39.07	37.54	37.01	36.83	37.54	38.48	39.89	40.85

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110	42.96	42.02	40.61	39.06	38.53	38.34	39.07	40.03	41.44	42.39
111	44.54	43.59	42.14	40.62	40.05	39.90	40.60	41.57	42.98	43.92
112	46.11	45.15	43.70	42.16	41.61	41.45	42.20	43.14	44.56	45.47
113	47.70	46.72	45.28	43.71	43.17	43.02	43.75	44.71	46.12	47.04
114	49.30	48.30	46.87	45.26	44.71	44.56	45.31	46.27	47.68	48.60
115	50.86	49.90	48.43	46.81	46.25	46.13	46.87	47.82	49.24	50.14
116	52.44	51.44	50.00	48.39	47.80	47.69	48.42	49.40	50.78	51.67
117	54.01	53.02	51.56	49.92	49.34	49.25	49.97	50.95	52.34	53.22
118	55.56	54.60	53.12	51.47	50.89	50.79	51.54	52.50	53.88	54.77
119	57.14	56.14	54.71	53.02	52.43	52.35	53.09	54.05	55.42	56.30
120	58.71	57.69	56.28	54.55	53.96	53.87	54.63	55.58	56.96	57.83
121	60.25	59.25	57.81	56.09	55.47	55.41	56.15	57.13	58.48	59.34
122	61.79	60.80	59.35	57.63	57.00	56.95	57.68	58.65	59.99	60.88
123	63.34	62.34	60.89	59.15	58.51	58.46	59.19	60.17	61.50	62.40
124	64.88	63.88	62.44	60.67	60.04	59.99	60.71	61.69	63.03	63.91
125	66.41	65.42	63.96	62.18	61.55	61.50	62.23	63.21	64.54	65.42
126	67.95	66.96	65.53	63.71	63.07	63.00	63.75	64.75	66.04	66.93
127	69.50	68.51	67.07	65.22	64.57	64.54	65.24	66.25	67.55	68.44
128	71.00	70.05	68.59	66.73	66.10	66.05	66.76	67.77	69.07	69.96
129	72.54	71.57	70.11	68.24	67.60	67.56	68.27	69.30	70.59	71.46
130	74.06	73.08	71.63	69.74	69.10	69.07	69.77	70.80	72.09	72.98
131	75.59	74.62	73.16	71.28	70.63	70.61	71.31	72.35	73.62	74.47
132	77.10	76.12	74.70	72.80	72.15	72.13	72.83	73.88	75.14	75.96
133	78.59	77.64	76.19	74.30	73.66	73.64	74.33	75.37	76.65	77.45
134	80.06	79.13	77.69	75.80	75.16	75.14	75.82	76.89	78.12	78.93
135	81.53	80.61	79.19	77.31	76.68	76.66	77.31	78.38	79.60	80.39
136	83.00	82.10	80.71	78.78	78.17	78.15	78.79	79.86	81.09	81.84
137	84.41	83.56	82.17	80.26	79.67	79.64	80.25	81.35	82.53	83.25
138	85.80	84.96	83.60	81.72	81.14	81.11	81.73	82.82	83.98	84.66
139	87.17	86.34	85.00	83.15	82.60	82.57	83.18	84.25	85.41	86.04
140	88.51	87.72	86.40	84.58	84.08	84.03	84.62	85.68	86.83	87.39
141	89.84	89.06	87.77	86.04	85.51	85.47	86.07	87.12	88.24	88.75
142	91.14	90.38	89.13	87.44	86.93	86.88	87.48	88.52	89.63	90.05
143	92.41	91.68	90.45	88.83	88.33	88.28	88.86	89.88	90.99	91.37
144	93.66	92.93	91.78	90.19	89.70	89.65	90.24	91.24	92.31	92.63
145	94.90	94.18	93.06	91.55	91.08	91.03	91.59	92.58	93.65	93.91
146	96.13	95.43	94.37	92.89	92.40	92.37	92.91	93.90	94.93	95.13
147	97.32	96.64	95.64	94.22	93.73	93.70	94.23	95.22	96.21	96.35
148	98.50	97.82	96.86	95.54	95.01	95.00	95.52	96.50	97.49	97.55
149	99.65	98.99	98.07	96.83	96.32	96.30	96.80	97.76	98.72	98.73
150	100.79	100.16	99.27	98.11	97.58	97.57	98.06	99.00	99.95	99.89
151	101.91	101.29	100.44	99.35	98.82	98.82	99.29	100.21	101.13	101.01
152	103.00	102.42	101.60	100.58	100.06	100.03	100.50	101.41	102.30	102.13
153	104.10	103.52	102.73	101.76	101.26	101.24	101.67	102.57	103.42	103.25
154	105.18	104.62	103.85	102.93	102.44	102.43	102.84	103.72	104.52	104.34
155	106.27	105.72	104.97	104.09	103.59	103.60	103.97	104.86	105.62	105.44
156	107.34	106.79	106.08	105.23	104.74	104.76	105.10	105.97	106.69	106.53
157	108.41	107.86	107.19	106.36	105.88	105.90	106.22	107.06	107.76	107.61
158	109.46	108.91	108.28	107.47	106.98	107.02	107.31	108.12	108.80	108.67
159	110.50	109.94	109.37	108.55	108.05	108.13	108.36	109.18	109.81	109.72
160	111.48	110.94	110.39	109.61	109.10	109.19	109.40	110.21	110.79	110.73
161	112.45	111.91	111.40	110.65	110.16	110.24	110.43	111.21	111.78	111.73
162	113.37	112.86	112.38	111.66	111.17	111.26	111.43	112.18	112.73	112.70
163	114.25	113.77	113.30	112.63	112.16	112.26	112.42	113.13	113.65	113.62
164	115.11	114.64	114.22	113.59	113.13	113.22	113.37	114.07	114.57	114.50
165	115.94	115.48	115.10	114.52	114.08	114.17	114.31	114.97	115.43	115.36

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT40VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

166	116.75	116.30	115.95	115.43	114.99	115.09	115.21	115.86	116.27	116.17
167	117.51	117.08	116.77	116.31	115.88	115.98	116.09	116.72	117.10	116.98
168	118.27	117.84	117.56	117.16	116.72	116.85	116.92	117.54	117.89	117.75
169	119.00	118.58	118.34	117.98	117.55	117.68	117.75	118.34	118.64	118.51
170	119.78	119.40	119.18	118.76	118.36	118.49	118.54	119.11	119.37	119.32
171	120.52	120.15	119.98	119.53	119.13	119.27	119.30	119.85	120.06	120.08
172	121.11	120.80	120.67	120.23	119.83	120.00	119.99	120.52	120.69	120.73
173	121.59	121.33	121.22	120.82	120.45	120.63	120.60	121.09	121.22	121.24
174	122.04	121.76	121.68	121.37	120.99	121.18	121.15	121.61	121.71	121.74
175	122.40	122.17	122.18	121.89	121.50	121.68	121.64	122.07	122.15	122.21
176	122.71	122.54	122.59	122.31	121.95	122.13	122.06	122.48	122.51	122.55
177	123.00	122.84	122.94	122.72	122.35	122.54	122.45	122.84	122.82	122.85
178	123.24	123.11	123.25	123.07	122.69	122.91	122.78	123.16	123.10	123.06
179	123.40	123.30	123.50	123.35	123.01	123.22	123.08	123.44	123.33	123.22
180	123.30	123.30	123.30	123.30	123.30	123.30	123.30	123.30	123.30	123.30

Vert. Angles	Horizontal Angles		
	<u>300</u>	<u>330</u>	<u>360</u>
0	12783.83	12783.83	12783.83
1	12772.92	12772.77	12774.97
2	12758.66	12757.80	12762.59
3	12740.99	12740.15	12745.27
4	12720.31	12718.78	12725.58
5	12696.38	12694.61	12703.78
6	12669.71	12666.09	12676.59
7	12638.16	12634.89	12646.82
8	12604.08	12600.04	12612.04
9	12567.70	12560.25	12574.39
10	12525.29	12516.08	12533.03
11	12479.67	12468.64	12487.13
12	12429.11	12418.03	12438.31
13	12374.05	12362.51	12384.25
14	12315.56	12302.65	12326.23
15	12251.87	12239.23	12263.32
16	12185.71	12171.70	12198.11
17	12115.77	12100.27	12128.24
18	12042.18	12023.12	12052.66
19	11964.23	11943.59	11975.20
20	11881.42	11859.04	11892.60
21	11797.05	11770.07	11805.12
22	11707.67	11676.93	11715.47
23	11614.10	11581.38	11621.10
24	11517.09	11481.01	11523.31
25	11414.48	11376.55	11419.63
26	11309.11	11271.59	11313.40
27	11198.55	11161.42	11201.83
28	11086.71	11050.49	11086.98
29	10970.00	10934.36	10969.93
30	10848.06	10812.62	10846.74
31	10722.35	10688.15	10722.68
32	10591.13	10559.22	10592.00
33	10459.84	10425.63	10461.73
34	10322.31	10285.79	10325.72
35	10183.67	10143.60	10187.92
36	10042.10	9994.87	10043.71

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

37	9896.60	9843.29	9896.09
38	9748.10	9686.78	9743.73
39	9593.11	9529.22	9586.70
40	9433.93	9364.47	9425.48
41	9270.11	9197.54	9261.01
42	9100.20	9027.82	9093.95
43	8925.75	8854.12	8920.38
44	8745.39	8674.77	8744.53
45	8558.19	8493.60	8564.47
46	8365.76	8307.53	8381.23
47	8165.89	8119.96	8193.33
48	7960.77	7929.21	8002.57
49	7750.80	7731.16	7807.12
50	7537.01	7524.41	7607.65
51	7300.93	7296.56	7392.79
52	7054.33	7052.30	7158.47
53	6800.07	6799.32	6908.42
54	6546.80	6545.53	6656.77
55	6303.02	6296.05	6407.32
56	6062.50	6052.11	6162.14
57	5829.13	5806.90	5917.07
58	5592.80	5564.30	5676.38
59	5353.23	5319.12	5430.61
60	5114.50	5078.35	5184.21
61	4867.36	4824.11	4942.45
62	4594.36	4540.67	4678.98
63	4310.28	4261.45	4397.50
64	4044.55	3997.15	4130.68
65	3782.16	3735.09	3857.82
66	3527.12	3475.95	3595.82
67	3272.16	3215.74	3331.69
68	2997.66	2931.98	3063.08
69	2733.50	2667.99	2800.01
70	2469.82	2417.90	2536.94
71	2229.79	2171.41	2274.13
72	1975.39	1917.05	2024.47
73	1739.08	1685.21	1783.66
74	1514.14	1453.41	1556.18
75	1298.23	1241.01	1325.66
76	1087.17	1043.40	1116.97
77	891.39	846.16	910.86
78	708.77	648.93	722.78
79	548.79	490.55	557.21
80	405.28	353.32	417.22
81	307.40	242.89	320.19
82	209.53	157.61	223.17
83	112.43	114.33	126.49
84	59.84	71.48	67.69
85	32.81	28.62	35.49
86	22.23	19.94	23.50
87	15.01	14.62	15.63
88	14.70	14.89	14.51
89	15.58	15.75	15.36
90	16.51	16.72	16.29
91	17.51	17.74	17.30
92	18.56	18.80	18.34

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT40VWD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>93</b>	19.66	19.91	19.43
<b>94</b>	20.79	21.07	20.55
<b>95</b>	21.99	22.25	21.75
<b>96</b>	23.20	23.46	22.95
<b>97</b>	24.44	24.70	24.21
<b>98</b>	25.74	25.99	25.49
<b>99</b>	27.04	27.30	26.80
<b>100</b>	28.37	28.65	28.13
<b>101</b>	29.74	30.03	29.49
<b>102</b>	31.13	31.44	30.90
<b>103</b>	32.56	32.89	32.33
<b>104</b>	34.00	34.34	33.78
<b>105</b>	35.47	35.83	35.25
<b>106</b>	36.97	37.32	36.75
<b>107</b>	38.49	38.85	38.29
<b>108</b>	40.01	40.42	39.83
<b>109</b>	41.55	41.96	41.39
<b>110</b>	43.12	43.54	42.96
<b>111</b>	44.67	45.11	44.54
<b>112</b>	46.22	46.67	46.11
<b>113</b>	47.78	48.25	47.70
<b>114</b>	49.34	49.82	49.30
<b>115</b>	50.91	51.41	50.86
<b>116</b>	52.46	52.96	52.44
<b>117</b>	54.02	54.51	54.01
<b>118</b>	55.55	56.08	55.56
<b>119</b>	57.12	57.62	57.14
<b>120</b>	58.66	59.17	58.71
<b>121</b>	60.19	60.72	60.25
<b>122</b>	61.72	62.26	61.79
<b>123</b>	63.26	63.78	63.34
<b>124</b>	64.78	65.32	64.88
<b>125</b>	66.30	66.84	66.41
<b>126</b>	67.84	68.36	67.95
<b>127</b>	69.36	69.91	69.50
<b>128</b>	70.88	71.42	71.00
<b>129</b>	72.41	72.94	72.54
<b>130</b>	73.92	74.46	74.06
<b>131</b>	75.43	75.97	75.59
<b>132</b>	76.93	77.48	77.10
<b>133</b>	78.44	78.98	78.59
<b>134</b>	79.93	80.48	80.06
<b>135</b>	81.40	81.93	81.53
<b>136</b>	82.89	83.38	83.00
<b>137</b>	84.31	84.81	84.41
<b>138</b>	85.72	86.18	85.80
<b>139</b>	87.09	87.54	87.17
<b>140</b>	88.47	88.88	88.51
<b>141</b>	89.80	90.19	89.84
<b>142</b>	91.10	91.47	91.14
<b>143</b>	92.38	92.75	92.41
<b>144</b>	93.65	93.99	93.66
<b>145</b>	94.89	95.21	94.90
<b>146</b>	96.11	96.41	96.13
<b>147</b>	97.30	97.60	97.32
<b>148</b>	98.47	98.76	98.50

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

<b>149</b>	99.61	99.93	99.65
<b>150</b>	100.73	101.05	100.79
<b>151</b>	101.83	102.16	101.91
<b>152</b>	102.94	103.25	103.00
<b>153</b>	104.02	104.32	104.10
<b>154</b>	105.12	105.39	105.18
<b>155</b>	106.21	106.45	106.27
<b>156</b>	107.30	107.49	107.34
<b>157</b>	108.37	108.55	108.41
<b>158</b>	109.41	109.59	109.46
<b>159</b>	110.46	110.59	110.50
<b>160</b>	111.43	111.57	111.48
<b>161</b>	112.39	112.52	112.45
<b>162</b>	113.32	113.44	113.37
<b>163</b>	114.22	114.32	114.25
<b>164</b>	115.09	115.18	115.11
<b>165</b>	115.93	116.01	115.94
<b>166</b>	116.72	116.78	116.75
<b>167</b>	117.51	117.54	117.51
<b>168</b>	118.27	118.27	118.27
<b>169</b>	119.02	118.99	119.00
<b>170</b>	119.81	119.77	119.78
<b>171</b>	120.53	120.50	120.52
<b>172</b>	121.15	121.10	121.11
<b>173</b>	121.63	121.58	121.59
<b>174</b>	122.09	122.00	122.04
<b>175</b>	122.51	122.39	122.40
<b>176</b>	122.82	122.67	122.71
<b>177</b>	123.09	122.89	123.00
<b>178</b>	123.27	123.07	123.24
<b>179</b>	123.38	123.19	123.40
<b>180</b>	123.30	123.30	123.30



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT40VWD120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4694.26	13.20	13.20
0-30	10023.45	28.10	28.10
0-40	16519.77	46.30	46.30
0-60	29249.6	82.00	82.00
0-80	35087.37	98.40	98.40
0-90	35279.52	98.90	98.90
10-90	34069.14	95.60	95.60
20-40	11825.51	33.20	33.20
20-50	18602.66	52.20	52.20
40-70	16837.1	47.20	47.20
60-80	5837.77	16.40	16.40
70-80	1730.49	4.90	4.90
80-90	192.15	0.50	0.50
90-110	57.45	0.20	0.20
90-120	105.70	0.30	0.30
90-130	163.10	0.50	0.50
90-150	282.55	0.80	0.80
90-180	375.03	1.10	1.10
110-180	317.58	0.90	0.90
0-180	35654.54	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1210.38
10-20	3483.88
20-30	5329.19
30-40	6496.32
40-50	6777.16
50-60	5952.67
60-70	4107.28
70-80	1730.49
80-90	192.15
90-100	22.12
100-110	35.32
110-120	48.26
120-130	57.39
130-140	61.17
140-150	58.29
150-160	48.45
160-170	32.46
170-180	11.56

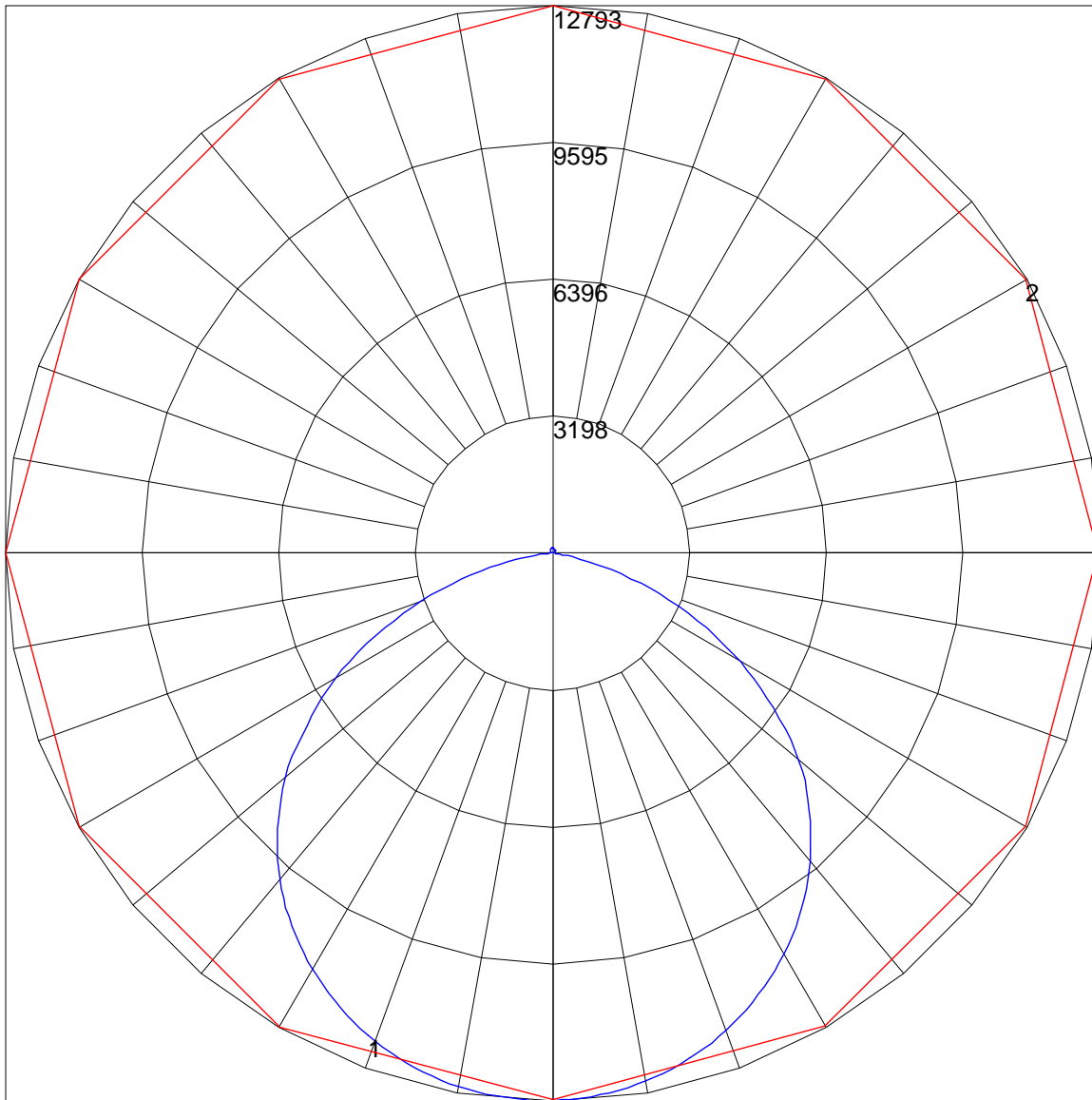
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT40VWD120-277V.IES**

**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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	90	89	87	85
2	100	92	86	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	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	51	46	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	34	59	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	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 12792.87 Located At Horizontal Angle = 150, Vertical Angle = 2  
# 1 - Vertical Plane Through Horizontal Angles (150 - 330) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)