



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTHOWT40WBD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]  
 [TESTLAB]  
 [TESTDATE] 2016-02-25  
 [ISSUEDATE] 2016-03-08 14:39:14  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [OTHER]  
 [MANUFAC] BEGHELLI  
 [LUMINAIRE] NUVHTHOWT40WBD120-277V  
 [LAMP] 4000K Ra80

### CHARACTERISTICS

Lumens Per Lamp	31010 (1 lamp)
Total Lamp Lumens	31010
Luminaire Lumens	31010
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	240.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.34
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	0.12 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	72992	73300	73032
55	31375	31066	30670
65	12586	12925	12836
75	5061	5521	5527
85	341	433	453

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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	14721.27	14721.27	14721.27	14721.27	14721.27	14721.27	14721.27	14721.27	14721.27	14721.27
1	14720.88	14720.66	14720.86	14720.47	14720.46	14720.64	14720.88	14720.64	14720.46	14720.47
2	14719.64	14719.02	14719.23	14719.06	14719.84	14720.02	14719.64	14720.02	14719.84	14719.06
3	14718.00	14717.16	14717.00	14716.63	14717.58	14717.75	14718.00	14717.75	14717.58	14716.63
4	14715.12	14714.31	14714.33	14714.58	14714.69	14714.89	14715.12	14714.89	14714.69	14714.58
5	14711.26	14711.44	14710.50	14711.37	14710.59	14711.18	14711.26	14711.18	14710.59	14711.37
6	14706.73	14706.55	14706.03	14706.49	14704.98	14706.60	14706.73	14706.60	14704.98	14706.49
7	14701.01	14700.83	14700.34	14700.81	14697.79	14700.30	14701.01	14700.30	14697.79	14700.81
8	14693.42	14693.45	14693.62	14694.16	14690.12	14692.42	14693.42	14692.42	14690.12	14694.16
9	14684.00	14684.73	14686.07	14686.38	14681.06	14682.91	14684.00	14682.91	14681.06	14686.38
10	14673.73	14674.66	14676.69	14677.69	14670.96	14672.47	14673.73	14672.47	14670.96	14677.69
11	14661.88	14663.23	14665.29	14667.15	14657.98	14660.11	14661.88	14660.11	14657.98	14667.15
12	14648.75	14650.37	14652.56	14654.48	14643.96	14646.23	14648.75	14646.23	14643.96	14654.48
13	14633.52	14635.19	14638.11	14640.62	14627.98	14630.88	14633.52	14630.88	14627.98	14640.62
14	14615.97	14618.41	14622.02	14625.39	14609.69	14612.97	14615.97	14612.97	14609.69	14625.39
15	14595.90	14599.22	14603.23	14607.59	14589.68	14592.55	14595.90	14592.55	14589.68	14607.59
16	14573.10	14577.09	14582.17	14587.58	14567.16	14569.32	14573.10	14569.32	14567.16	14587.58
17	14546.85	14552.28	14558.08	14564.25	14541.03	14542.85	14546.85	14542.85	14541.03	14564.25
18	14516.64	14523.26	14530.21	14536.46	14510.92	14512.67	14516.64	14512.67	14510.92	14536.46
19	14482.41	14489.29	14496.97	14504.82	14475.76	14476.78	14482.41	14476.78	14475.76	14504.82
20	14441.22	14450.32	14459.17	14467.27	14434.54	14436.25	14441.22	14436.25	14434.54	14467.27
21	14395.07	14405.57	14415.58	14422.98	14387.30	14388.92	14395.07	14388.92	14387.30	14422.98
22	14341.20	14353.67	14363.95	14371.78	14334.16	14334.53	14341.20	14334.53	14334.16	14371.78
23	14278.84	14293.55	14304.99	14312.91	14272.31	14271.95	14278.84	14271.95	14272.31	14312.91
24	14207.43	14224.83	14237.92	14244.76	14202.35	14199.74	14207.43	14199.74	14202.35	14244.76
25	14125.76	14146.10	14159.90	14167.20	14121.64	14117.05	14125.76	14117.05	14121.64	14167.20
26	14032.02	14055.13	14070.23	14077.55	14029.84	14022.07	14032.02	14022.07	14029.84	14077.55
27	13925.11	13952.36	13968.66	13974.77	13925.12	13914.66	13925.11	13914.66	13925.12	13974.77
28	13803.49	13834.78	13852.92	13858.21	13805.66	13791.84	13803.49	13791.84	13805.66	13858.21
29	13665.96	13701.52	13721.48	13725.40	13671.37	13652.83	13665.96	13652.83	13671.37	13725.40
30	13511.66	13552.20	13572.30	13574.97	13520.82	13496.11	13511.66	13496.11	13520.82	13574.97
31	13337.60	13382.12	13407.03	13405.69	13351.05	13319.39	13337.60	13319.39	13351.05	13405.69
32	13142.55	13191.53	13217.99	13214.35	13158.79	13122.57	13142.55	13122.57	13158.79	13214.35
33	12924.49	12980.28	13008.02	13002.30	12945.99	12902.22	12924.49	12902.22	12945.99	13002.30
34	12683.40	12743.57	12772.22	12763.92	12709.17	12658.46	12683.40	12658.46	12709.17	12763.92
35	12416.65	12481.53	12511.32	12500.60	12447.61	12390.45	12416.65	12390.45	12447.61	12500.60
36	12122.79	12192.93	12222.95	12209.38	12159.68	12096.64	12122.79	12096.64	12159.68	12209.38
37	11803.87	11874.27	11906.08	11890.48	11843.60	11776.04	11803.87	11776.04	11843.60	11890.48
38	11455.88	11527.25	11557.91	11539.82	11500.81	11425.84	11455.88	11425.84	11500.81	11539.82
39	11078.05	11149.06	11179.01	11158.42	11127.59	11049.89	11078.05	11049.89	11127.59	11158.42
40	10670.41	10741.37	10768.32	10745.90	10724.16	10646.14	10670.41	10646.14	10724.16	10745.90
41	10233.74	10297.63	10324.34	10297.51	10291.58	10212.98	10233.74	10212.98	10291.58	10297.51
42	9766.56	9824.25	9848.74	9822.79	9827.28	9754.03	9766.56	9754.03	9827.28	9822.79
43	9274.13	9323.51	9341.20	9315.30	9337.79	9267.20	9274.13	9267.20	9337.79	9315.30
44	8755.85	8795.10	8809.30	8777.18	8819.66	8754.85	8755.85	8754.85	8819.66	8777.18
45	8210.52	8241.21	8249.17	8215.04	8277.38	8223.60	8210.52	8223.60	8277.38	8215.04
46	7652.77	7669.41	7674.01	7637.26	7715.85	7669.15	7652.77	7669.15	7715.85	7637.26
47	7083.97	7093.22	7091.49	7050.88	7145.40	7110.40	7083.97	7110.40	7145.40	7050.88
48	6514.02	6515.55	6506.71	6466.65	6570.68	6544.64	6514.02	6544.64	6570.68	6466.65
49	5957.40	5946.61	5936.78	5895.74	6006.76	5991.15	5957.40	5991.15	6006.76	5895.74
50	5417.14	5399.93	5385.94	5341.22	5461.34	5452.15	5417.14	5452.15	5461.34	5341.22
51	4906.26	4884.01	4866.41	4825.04	4946.00	4944.15	4906.26	4944.15	4946.00	4825.04
52	4424.23	4402.51	4383.91	4340.13	4458.46	4463.22	4424.23	4463.22	4458.46	4340.13
53	3982.30	3955.93	3937.59	3897.33	4012.50	4019.09	3982.30	4019.09	4012.50	3897.33

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**CANDELA TABULATION - (Cont.)**

54	3581.58	3552.60	3535.05	3499.85	3605.74	3611.57	3581.58	3611.57	3605.74	3499.85
55	3214.23	3191.36	3173.83	3142.07	3234.84	3243.86	3214.23	3243.86	3234.84	3142.07
56	2888.29	2871.91	2852.30	2828.23	2912.21	2915.25	2888.29	2915.25	2912.21	2828.23
57	2602.28	2574.05	2569.98	2535.32	2607.08	2612.61	2602.28	2612.61	2607.08	2535.32
58	2332.37	2319.19	2312.19	2286.45	2344.10	2348.29	2332.37	2348.29	2344.10	2286.45
59	2099.95	2093.01	2087.82	2064.78	2111.64	2111.15	2099.95	2111.15	2111.64	2064.78
60	1892.67	1890.43	1888.00	1865.77	1902.07	1896.77	1892.67	1896.77	1902.07	1865.77
61	1705.94	1709.75	1710.63	1689.89	1716.74	1703.90	1705.94	1703.90	1716.74	1689.89
62	1535.82	1545.99	1550.08	1531.30	1547.41	1530.12	1535.82	1530.12	1547.41	1531.30
63	1383.03	1399.26	1406.06	1388.80	1397.32	1374.44	1383.03	1374.44	1397.32	1388.80
64	1250.25	1267.42	1279.06	1260.89	1262.88	1237.97	1250.25	1237.97	1262.88	1260.89
65	1123.86	1149.48	1158.76	1146.18	1145.12	1118.88	1123.86	1118.88	1145.12	1146.18
66	1016.24	1047.27	1054.85	1046.24	1033.96	1007.59	1016.24	1007.59	1033.96	1046.24
67	918.88	948.31	959.89	948.37	936.93	908.69	918.88	908.69	936.93	948.37
68	826.59	859.54	872.77	861.87	847.16	816.84	826.59	816.84	847.16	861.87
69	742.41	776.85	792.38	781.91	764.27	732.99	742.41	732.99	764.27	781.91
70	666.47	700.92	717.47	707.95	687.77	658.50	666.47	658.50	687.77	707.95
71	598.26	632.04	648.51	638.56	618.19	590.62	598.26	590.62	618.19	638.56
72	535.31	567.52	583.99	575.00	554.73	527.48	535.31	527.48	554.73	575.00
73	475.20	506.26	523.65	515.84	495.11	468.48	475.20	468.48	495.11	515.84
74	421.40	450.86	466.76	458.95	439.43	415.24	421.40	415.24	439.43	458.95
75	371.62	397.92	412.89	405.84	387.24	365.00	371.62	365.00	387.24	405.84
76	322.65	348.24	361.92	355.86	337.85	317.38	322.65	317.38	337.85	355.86
77	275.95	300.42	312.14	307.06	289.99	272.70	275.95	272.70	289.99	307.06
78	232.50	253.18	265.01	260.52	242.70	229.04	232.50	229.04	242.70	260.52
79	189.85	209.16	219.77	215.81	199.41	186.60	189.85	186.60	199.41	215.81
80	150.91	167.96	175.89	173.58	158.38	147.56	150.91	147.56	158.38	173.58
81	115.25	128.86	138.23	134.52	120.37	112.86	115.25	112.86	120.37	134.52
82	81.77	96.73	101.54	101.88	87.90	80.08	81.77	80.08	87.90	101.88
83	56.99	67.61	71.22	70.54	58.78	55.23	56.99	55.23	58.78	70.54
84	36.10	43.25	45.46	43.78	36.06	33.34	36.10	33.34	36.06	43.78
85	18.85	22.19	25.74	25.04	20.11	17.74	18.85	17.74	20.11	25.04
86	9.49	10.93	13.33	13.44	11.68	10.71	9.49	10.71	11.68	13.44
87	8.25	8.31	8.55	8.74	8.41	8.28	8.25	8.28	8.41	8.74
88	7.93	8.01	8.10	8.11	8.11	8.00	7.93	8.00	8.11	8.11
89	7.88	7.98	8.09	8.09	8.10	7.99	7.88	7.99	8.10	8.09
90	8.31	8.35	8.37	8.30	8.41	8.33	8.31	8.33	8.41	8.30
91	8.81	8.87	8.88	8.78	8.90	8.81	8.81	8.81	8.90	8.78
92	9.34	9.40	9.44	9.33	9.42	9.33	9.34	9.33	9.42	9.33
93	9.91	9.97	10.03	9.92	9.99	9.91	9.91	9.91	9.99	9.92
94	10.55	10.60	10.66	10.57	10.64	10.55	10.55	10.55	10.64	10.57
95	11.25	11.32	11.35	11.27	11.35	11.27	11.25	11.27	11.35	11.27
96	12.04	12.08	12.11	12.03	12.14	12.05	12.04	12.05	12.14	12.03
97	12.84	12.91	12.92	12.83	12.97	12.87	12.84	12.87	12.97	12.83
98	13.74	13.79	13.81	13.70	13.87	13.76	13.74	13.76	13.87	13.70
99	14.70	14.75	14.78	14.66	14.84	14.72	14.70	14.72	14.84	14.66
100	15.74	15.78	15.80	15.68	15.87	15.75	15.74	15.75	15.87	15.68
101	16.82	16.87	16.90	16.78	16.98	16.84	16.82	16.84	16.98	16.78
102	17.99	18.03	18.06	17.93	18.15	18.00	17.99	18.00	18.15	17.93
103	19.21	19.27	19.29	19.16	19.38	19.22	19.21	19.22	19.38	19.16
104	20.50	20.55	20.59	20.44	20.68	20.51	20.50	20.51	20.68	20.44
105	21.85	21.91	21.93	21.79	22.02	21.85	21.85	21.85	22.02	21.79
106	23.25	23.32	23.34	23.21	23.43	23.27	23.25	23.27	23.43	23.21
107	24.72	24.79	24.82	24.67	24.91	24.73	24.72	24.73	24.91	24.67
108	26.23	26.33	26.34	26.21	26.43	26.25	26.23	26.25	26.43	26.21
109	27.83	27.91	27.92	27.79	28.02	27.84	27.83	27.84	28.02	27.79

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110	29.45	29.54	29.56	29.42	29.66	29.46	29.45	29.46	29.66	29.42
111	31.13	31.21	31.24	31.08	31.32	31.12	31.13	31.12	31.32	31.08
112	32.85	32.94	32.96	32.81	33.04	32.85	32.85	32.85	33.04	32.81
113	34.61	34.70	34.74	34.59	34.82	34.61	34.61	34.61	34.82	34.59
114	36.43	36.52	36.55	36.40	36.62	36.42	36.43	36.42	36.62	36.40
115	38.28	38.37	38.41	38.25	38.47	38.26	38.28	38.26	38.47	38.25
116	40.16	40.25	40.30	40.14	40.35	40.15	40.16	40.15	40.35	40.14
117	42.09	42.18	42.23	42.06	42.28	42.07	42.09	42.07	42.28	42.06
118	44.02	44.13	44.18	44.02	44.22	44.01	44.02	44.01	44.22	44.02
119	46.01	46.10	46.16	46.00	46.20	45.99	46.01	45.99	46.20	46.00
120	48.00	48.10	48.16	48.00	48.20	47.98	48.00	47.98	48.20	48.00
121	50.01	50.13	50.19	50.03	50.21	50.00	50.01	50.00	50.21	50.03
122	52.04	52.15	52.22	52.07	52.24	52.02	52.04	52.02	52.24	52.07
123	54.09	54.21	54.27	54.13	54.29	54.07	54.09	54.07	54.29	54.13
124	56.16	56.27	56.35	56.19	56.35	56.13	56.16	56.13	56.35	56.19
125	58.21	58.34	58.41	58.26	58.39	58.18	58.21	58.18	58.39	58.26
126	60.28	60.39	60.48	60.33	60.46	60.24	60.28	60.24	60.46	60.33
127	62.33	62.44	62.52	62.40	62.52	62.30	62.33	62.30	62.52	62.40
128	64.38	64.49	64.57	64.45	64.57	64.34	64.38	64.34	64.57	64.45
129	66.41	66.54	66.61	66.49	66.60	66.38	66.41	66.38	66.60	66.49
130	68.42	68.54	68.63	68.52	68.62	68.39	68.42	68.39	68.62	68.52
131	70.43	70.55	70.64	70.55	70.61	70.40	70.43	70.40	70.61	70.55
132	72.42	72.52	72.63	72.53	72.60	72.38	72.42	72.38	72.60	72.53
133	74.39	74.48	74.60	74.51	74.56	74.34	74.39	74.34	74.56	74.51
134	76.32	76.41	76.52	76.46	76.49	76.28	76.32	76.28	76.49	76.46
135	78.22	78.32	78.44	78.38	78.40	78.19	78.22	78.19	78.40	78.38
136	80.10	80.20	80.32	80.27	80.27	80.07	80.10	80.07	80.27	80.27
137	81.95	82.04	82.16	82.12	82.11	81.92	81.95	81.92	82.11	82.12
138	83.77	83.85	83.97	83.94	83.93	83.74	83.77	83.74	83.93	83.94
139	85.55	85.64	85.76	85.73	85.71	85.53	85.55	85.53	85.71	85.73
140	87.32	87.41	87.53	87.50	87.47	87.31	87.32	87.31	87.47	87.50
141	89.07	89.14	89.27	89.25	89.22	89.06	89.07	89.06	89.22	89.25
142	90.80	90.87	91.00	90.97	90.94	90.79	90.80	90.79	90.94	90.97
143	92.53	92.59	92.73	92.70	92.66	92.51	92.53	92.51	92.66	92.70
144	94.24	94.30	94.42	94.41	94.37	94.23	94.24	94.23	94.37	94.41
145	95.98	96.03	96.15	96.13	96.09	95.97	95.98	95.97	96.09	96.13
146	97.72	97.77	97.89	97.87	97.83	97.71	97.72	97.71	97.83	97.87
147	99.48	99.54	99.64	99.62	99.59	99.48	99.48	99.48	99.59	99.62
148	101.29	101.33	101.43	101.42	101.37	101.28	101.29	101.28	101.37	101.42
149	103.12	103.15	103.25	103.24	103.19	103.10	103.12	103.10	103.19	103.24
150	104.99	105.03	105.12	105.10	105.06	104.97	104.99	104.97	105.06	105.10
151	106.90	106.93	107.02	107.00	106.95	106.87	106.90	106.87	106.95	107.00
152	108.83	108.86	108.96	108.93	108.89	108.81	108.83	108.81	108.89	108.93
153	110.81	110.83	110.92	110.90	110.84	110.77	110.81	110.77	110.84	110.90
154	112.80	112.84	112.92	112.90	112.83	112.76	112.80	112.76	112.83	112.90
155	114.83	114.87	114.95	114.92	114.86	114.78	114.83	114.78	114.86	114.92
156	116.85	116.91	116.99	116.97	116.90	116.81	116.85	116.81	116.90	116.97
157	118.90	118.96	119.04	119.02	118.92	118.85	118.90	118.85	118.92	119.02
158	120.95	121.00	121.09	121.08	120.97	120.90	120.95	120.90	120.97	121.08
159	122.97	123.04	123.13	123.12	123.00	122.93	122.97	122.93	123.00	123.12
160	124.98	125.05	125.14	125.13	125.00	124.94	124.98	124.94	125.00	125.13
161	126.96	127.02	127.14	127.12	126.98	126.91	126.96	126.91	126.98	127.12
162	128.90	128.97	129.09	129.07	128.92	128.85	128.90	128.85	128.92	129.07
163	130.79	130.87	130.98	130.99	130.81	130.74	130.79	130.74	130.81	130.99
164	132.66	132.72	132.84	132.85	132.66	132.60	132.66	132.60	132.66	132.85
165	134.43	134.51	134.62	134.65	134.44	134.39	134.43	134.39	134.44	134.65

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT40WBD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

166	136.18	136.27	136.37	136.40	136.17	136.13	136.18	136.13	136.17	136.40
167	137.84	137.92	138.04	138.07	137.83	137.80	137.84	137.80	137.83	138.07
168	139.43	139.51	139.66	139.72	139.43	139.42	139.43	139.42	139.43	139.72
169	140.92	140.99	141.21	141.29	140.95	140.97	140.92	140.97	140.95	141.29
170	142.33	142.41	142.60	142.74	142.37	142.40	142.33	142.40	142.37	142.74
171	143.59	143.69	143.84	144.03	143.64	143.65	143.59	143.65	143.64	144.03
172	144.71	144.81	144.95	145.15	144.75	144.76	144.71	144.76	144.75	145.15
173	145.76	145.85	145.99	146.19	145.78	145.81	145.76	145.81	145.78	146.19
174	146.72	146.82	146.97	147.11	146.73	146.77	146.72	146.77	146.73	147.11
175	147.52	147.62	147.77	147.88	147.50	147.56	147.52	147.56	147.50	147.88
176	148.20	148.30	148.44	148.55	148.16	148.24	148.20	148.24	148.16	148.55
177	148.77	148.87	149.02	149.12	148.72	148.81	148.77	148.81	148.72	149.12
178	149.22	149.32	149.47	149.57	149.17	149.26	149.22	149.26	149.17	149.57
179	149.56	149.65	149.80	149.91	149.50	149.60	149.56	149.60	149.50	149.91
180	149.39	149.39	149.39	149.39	149.39	149.39	149.39	149.39	149.39	149.39

Vert. Angles	Horizontal Angles		
	<u>300</u>	<u>330</u>	<u>360</u>
0	14721.27	14721.27	14721.27
1	14720.86	14720.66	14720.88
2	14719.23	14719.02	14719.64
3	14717.00	14717.16	14718.00
4	14714.33	14714.31	14715.12
5	14710.50	14711.44	14711.26
6	14706.03	14706.55	14706.73
7	14700.34	14700.83	14701.01
8	14693.62	14693.45	14693.42
9	14686.07	14684.73	14684.00
10	14676.69	14674.66	14673.73
11	14665.29	14663.23	14661.88
12	14652.56	14650.37	14648.75
13	14638.11	14635.19	14633.52
14	14622.02	14618.41	14615.97
15	14603.23	14599.22	14595.90
16	14582.17	14577.09	14573.10
17	14558.08	14552.28	14546.85
18	14530.21	14523.26	14516.64
19	14496.97	14489.29	14482.41
20	14459.17	14450.32	14441.22
21	14415.58	14405.57	14395.07
22	14363.95	14353.67	14341.20
23	14304.99	14293.55	14278.84
24	14237.92	14224.83	14207.43
25	14159.90	14146.10	14125.76
26	14070.23	14055.13	14032.02
27	13968.66	13952.36	13925.11
28	13852.92	13834.78	13803.49
29	13721.48	13701.52	13665.96
30	13572.30	13552.20	13511.66
31	13407.03	13382.12	13337.60
32	13217.99	13191.53	13142.55
33	13008.02	12980.28	12924.49
34	12772.22	12743.57	12683.40
35	12511.32	12481.53	12416.65
36	12222.95	12192.93	12122.79

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT40WBD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

37	11906.08	11874.27	11803.87
38	11557.91	11527.25	11455.88
39	11179.01	11149.06	11078.05
40	10768.32	10741.37	10670.41
41	10324.34	10297.63	10233.74
42	9848.74	9824.25	9766.56
43	9341.20	9323.51	9274.13
44	8809.30	8795.10	8755.85
45	8249.17	8241.21	8210.52
46	7674.01	7669.41	7652.77
47	7091.49	7093.22	7083.97
48	6506.71	6515.55	6514.02
49	5936.78	5946.61	5957.40
50	5385.94	5399.93	5417.14
51	4866.41	4884.01	4906.26
52	4383.91	4402.51	4424.23
53	3937.59	3955.93	3982.30
54	3535.05	3552.60	3581.58
55	3173.83	3191.36	3214.23
56	2852.30	2871.91	2888.29
57	2569.98	2574.05	2602.28
58	2312.19	2319.19	2332.37
59	2087.82	2093.01	2099.95
60	1888.00	1890.43	1892.67
61	1710.63	1709.75	1705.94
62	1550.08	1545.99	1535.82
63	1406.06	1399.26	1383.03
64	1279.06	1267.42	1250.25
65	1158.76	1149.48	1123.86
66	1054.85	1047.27	1016.24
67	959.89	948.31	918.88
68	872.77	859.54	826.59
69	792.38	776.85	742.41
70	717.47	700.92	666.47
71	648.51	632.04	598.26
72	583.99	567.52	535.31
73	523.65	506.26	475.20
74	466.76	450.86	421.40
75	412.89	397.92	371.62
76	361.92	348.24	322.65
77	312.14	300.42	275.95
78	265.01	253.18	232.50
79	219.77	209.16	189.85
80	175.89	167.96	150.91
81	138.23	128.86	115.25
82	101.54	96.73	81.77
83	71.22	67.61	56.99
84	45.46	43.25	36.10
85	25.74	22.19	18.85
86	13.33	10.93	9.49
87	8.55	8.31	8.25
88	8.10	8.01	7.93
89	8.09	7.98	7.88
90	8.37	8.35	8.31
91	8.88	8.87	8.81
92	9.44	9.40	9.34

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : NUVHTHOWT40WBD120-277V.IES

CANDELA TABULATION - (Cont.)

93	10.03	9.97	9.91
94	10.66	10.60	10.55
95	11.35	11.32	11.25
96	12.11	12.08	12.04
97	12.92	12.91	12.84
98	13.81	13.79	13.74
99	14.78	14.75	14.70
100	15.80	15.78	15.74
101	16.90	16.87	16.82
102	18.06	18.03	17.99
103	19.29	19.27	19.21
104	20.59	20.55	20.50
105	21.93	21.91	21.85
106	23.34	23.32	23.25
107	24.82	24.79	24.72
108	26.34	26.33	26.23
109	27.92	27.91	27.83
110	29.56	29.54	29.45
111	31.24	31.21	31.13
112	32.96	32.94	32.85
113	34.74	34.70	34.61
114	36.55	36.52	36.43
115	38.41	38.37	38.28
116	40.30	40.25	40.16
117	42.23	42.18	42.09
118	44.18	44.13	44.02
119	46.16	46.10	46.01
120	48.16	48.10	48.00
121	50.19	50.13	50.01
122	52.22	52.15	52.04
123	54.27	54.21	54.09
124	56.35	56.27	56.16
125	58.41	58.34	58.21
126	60.48	60.39	60.28
127	62.52	62.44	62.33
128	64.57	64.49	64.38
129	66.61	66.54	66.41
130	68.63	68.54	68.42
131	70.64	70.55	70.43
132	72.63	72.52	72.42
133	74.60	74.48	74.39
134	76.52	76.41	76.32
135	78.44	78.32	78.22
136	80.32	80.20	80.10
137	82.16	82.04	81.95
138	83.97	83.85	83.77
139	85.76	85.64	85.55
140	87.53	87.41	87.32
141	89.27	89.14	89.07
142	91.00	90.87	90.80
143	92.73	92.59	92.53
144	94.42	94.30	94.24
145	96.15	96.03	95.98
146	97.89	97.77	97.72
147	99.64	99.54	99.48
148	101.43	101.33	101.29

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT40WBD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>149</b>	103.25	103.15	103.12
<b>150</b>	105.12	105.03	104.99
<b>151</b>	107.02	106.93	106.90
<b>152</b>	108.96	108.86	108.83
<b>153</b>	110.92	110.83	110.81
<b>154</b>	112.92	112.84	112.80
<b>155</b>	114.95	114.87	114.83
<b>156</b>	116.99	116.91	116.85
<b>157</b>	119.04	118.96	118.90
<b>158</b>	121.09	121.00	120.95
<b>159</b>	123.13	123.04	122.97
<b>160</b>	125.14	125.05	124.98
<b>161</b>	127.14	127.02	126.96
<b>162</b>	129.09	128.97	128.90
<b>163</b>	130.98	130.87	130.79
<b>164</b>	132.84	132.72	132.66
<b>165</b>	134.62	134.51	134.43
<b>166</b>	136.37	136.27	136.18
<b>167</b>	138.04	137.92	137.84
<b>168</b>	139.66	139.51	139.43
<b>169</b>	141.21	140.99	140.92
<b>170</b>	142.60	142.41	142.33
<b>171</b>	143.84	143.69	143.59
<b>172</b>	144.95	144.81	144.71
<b>173</b>	145.99	145.85	145.76
<b>174</b>	146.97	146.82	146.72
<b>175</b>	147.77	147.62	147.52
<b>176</b>	148.44	148.30	148.20
<b>177</b>	149.02	148.87	148.77
<b>178</b>	149.47	149.32	149.22
<b>179</b>	149.80	149.65	149.56
<b>180</b>	149.39	149.39	149.39



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT40WBD120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5534.41	17.80	17.80
0-30	12043.44	38.80	38.80
0-40	19762.43	63.70	63.70
0-60	29010.7	93.60	93.60
0-80	30608.13	98.70	98.70
0-90	30658.4	98.90	98.90
10-90	29255.29	94.30	94.30
20-40	14228.03	45.90	45.90
20-50	20496.39	66.10	66.10
40-70	10422.72	33.60	33.60
60-80	1597.43	5.20	5.20
70-80	422.97	1.40	1.40
80-90	50.27	0.20	0.20
90-110	35.98	0.10	0.10
90-120	74.06	0.20	0.20
90-130	126.18	0.40	0.40
90-150	246.69	0.80	0.80
90-180	351.32	1.10	1.10
110-180	315.34	1.00	1.00
0-180	31009.71	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1403.1
10-20	4131.31
20-30	6509.03
30-40	7719.00
40-50	6268.37
50-60	2979.89
60-70	1174.46
70-80	422.97
80-90	50.27
90-100	12.60
100-110	23.37
110-120	38.09
120-130	52.12
130-140	60.35
140-150	60.16
150-160	52.91
160-170	37.79
170-180	13.93

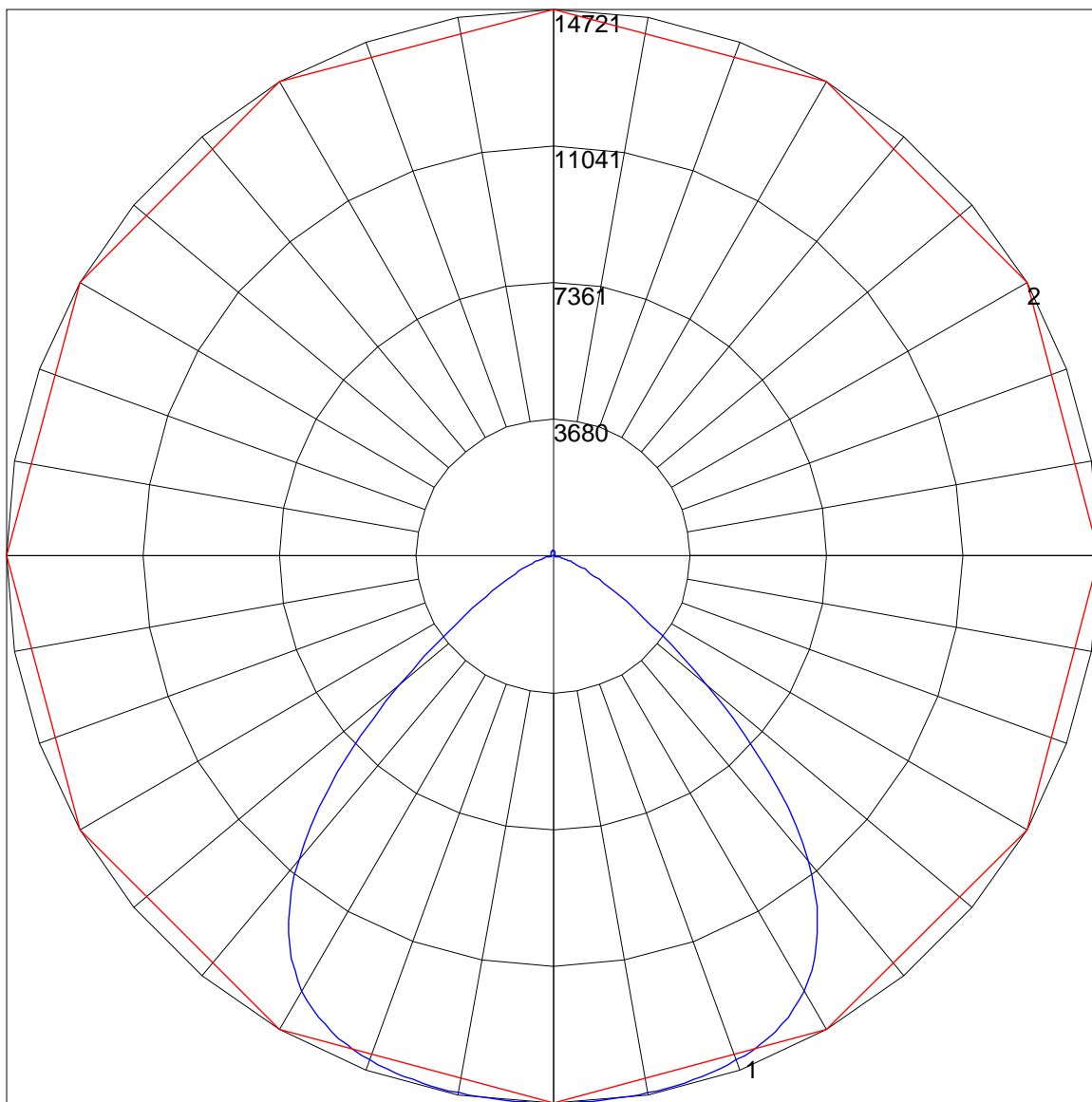
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTHOWT40WBD120-277V.IES**

**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	110	110	110	106	106	106	101	101	101	99
1	111	108	104	102	109	105	102	100	101	99	97	97	95	93	93	92	90	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	85	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	62	58	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	55	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33

POLAR GRAPH



Maximum Candela = 14721.27 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)