



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVHOWT50MWD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 1  
 [TESTLAB] BEGHELLI  
 [TESTDATE] 2016-04-05  
 [ISSUEDATE] 2016-04-07 09:42:13  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [MANUFAC] BEGHELLI  
 [LUMINAIRE] NUVHTVHOWT50MWD120-277V  
 [LAMP] 5000K Ra80

### CHARACTERISTICS

Lumens Per Lamp	38018 (1 lamp)
Total Lamp Lumens	38018
Luminaire Lumens	38029
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	290.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.90
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	25572	24861	23230
55	10253	10086	9892
65	6221	6212	6340
75	3649	3692	3746
85	448	444	459

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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	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88
1	39139.46	39138.39	39135.73	39137.55	39136.16	39137.84	39135.98	39137.24	39137.68	39137.17
2	39101.16	39099.19	39096.97	39098.05	39095.44	39096.76	39092.64	39102.56	39102.62	39100.75
3	39036.32	39035.11	39029.43	39031.55	39028.16	39025.81	39019.97	39038.33	39039.75	39038.92
4	38947.22	38945.60	38938.73	38933.78	38928.36	38925.68	38919.57	38950.51	38949.49	38950.53
5	38831.56	38826.01	38818.38	38811.82	38804.21	38798.25	38783.80	38832.72	38834.49	38833.34
6	38684.92	38676.08	38661.95	38655.96	38641.93	38635.56	38618.57	38685.95	38686.92	38686.54
7	38500.78	38492.54	38476.44	38466.54	38450.59	38437.61	38413.36	38505.74	38509.13	38509.08
8	38286.02	38274.21	38255.73	38240.25	38218.24	38201.21	38170.40	38295.42	38299.28	38297.03
9	38032.13	38017.78	37996.05	37976.74	37949.02	37924.47	37887.61	38047.01	38046.95	38049.27
10	37743.80	37720.76	37694.42	37665.16	37637.17	37599.69	37557.80	37755.75	37756.09	37758.54
11	37405.55	37384.71	37348.68	37309.88	37271.03	37228.87	37171.52	37421.43	37421.58	37422.70
12	37021.63	36994.32	36953.77	36908.52	36859.62	36807.96	36741.30	37039.47	37038.17	37041.04
13	36586.83	36551.36	36509.67	36454.46	36395.65	36332.98	36246.31	36603.69	36607.43	36609.63
14	36098.58	36061.32	36008.16	35941.32	35877.34	35798.71	35704.96	36117.66	36120.21	36115.33
15	35549.71	35505.15	35448.08	35376.92	35290.40	35203.52	35081.86	35573.68	35570.70	35576.71
16	34946.07	34894.08	34828.74	34743.46	34650.92	34542.98	34413.28	34968.84	34967.85	34970.05
17	34265.40	34216.77	34145.81	34047.26	33939.43	33820.65	33662.24	34305.58	34297.47	34303.07
18	33530.31	33473.76	33394.27	33288.69	33168.87	33030.76	32850.30	33568.38	33564.29	33565.55
19	32722.99	32659.13	32572.71	32452.94	32318.33	32162.97	31958.06	32765.87	32761.61	32764.29
20	31843.37	31773.24	31681.85	31546.34	31402.14	31225.42	31002.83	31883.07	31885.97	31881.92
21	30892.83	30815.37	30713.92	30579.02	30421.66	30224.36	29972.76	30939.70	30933.02	30937.66
22	29869.60	29793.88	29672.92	29529.64	29355.22	29144.30	28863.02	29915.73	29909.00	29912.95
23	28773.90	28684.79	28570.63	28394.65	28214.06	27987.26	27689.95	28833.60	28820.50	28819.37
24	27585.20	27508.22	27374.09	27204.42	27020.38	26771.28	26448.44	27670.79	27656.87	27650.14
25	26347.07	26249.77	26125.96	25942.94	25745.78	25476.14	25163.14	26445.11	26433.51	26407.48
26	25030.08	24951.17	24792.91	24636.89	24407.05	24161.19	23798.79	25187.17	25134.72	25133.85
27	23681.81	23626.79	23440.11	23297.30	23040.13	22804.85	22412.85	23899.02	23814.60	23833.44
28	22304.23	22197.52	22064.60	21870.63	21649.72	21367.67	20979.60	22495.15	22468.01	22430.90
29	20845.84	20735.30	20595.19	20396.40	20195.71	19894.16	19505.51	21071.53	21036.65	20987.21
30	19371.58	19237.86	19107.94	18917.28	18701.79	18410.22	18012.37	19619.59	19576.95	19522.40
31	17849.54	17742.55	17596.56	17417.11	17208.54	16928.85	16525.56	18156.33	18099.57	18055.15
32	16368.71	16237.15	16099.72	15930.70	15740.53	15453.59	15065.06	16695.18	16627.68	16557.77
33	14883.50	14766.49	14636.80	14463.56	14285.11	14009.75	13630.93	15236.73	15174.64	15104.11
34	13448.56	13337.41	13208.75	13062.16	12882.07	12621.26	12238.71	13826.00	13753.34	13683.83
35	12109.86	11960.14	11879.87	11711.03	11572.09	11405.00	10968.70	12459.20	12484.77	12309.23
36	10810.50	10704.99	10598.32	10478.15	10315.39	10128.03	9748.48	11188.74	11159.14	11038.96
37	9548.51	9494.92	9354.86	9285.13	9097.61	8890.76	8570.90	9968.42	9862.93	9821.56
38	8425.46	8333.91	8250.95	8151.64	8021.12	7828.32	7534.92	8797.97	8728.91	8648.50
39	7404.60	7324.97	7256.35	7161.78	7051.05	6872.95	6611.37	7765.00	7697.62	7616.50
40	6493.20	6427.65	6369.08	6280.90	6184.41	6035.40	5799.70	6826.33	6764.14	6693.15
41	5686.23	5626.85	5573.84	5509.05	5424.37	5287.68	5089.12	5991.40	5935.84	5861.01
42	4991.37	4934.36	4894.65	4834.20	4762.95	4647.47	4477.26	5250.41	5209.64	5144.01
43	4387.42	4339.03	4306.81	4253.31	4192.59	4093.50	3948.05	4614.65	4575.07	4518.61
44	3866.36	3827.79	3796.72	3756.35	3705.25	3623.06	3497.13	4062.87	4029.07	3985.02
45	3426.43	3393.56	3366.76	3331.17	3289.00	3217.80	3112.63	3589.19	3561.40	3521.14
46	3047.26	3041.03	2997.90	2989.14	2952.32	2890.37	2785.82	3205.97	3160.02	3150.18
47	2747.02	2719.41	2704.95	2675.92	2642.46	2590.79	2485.65	2852.17	2838.96	2810.43
48	2466.37	2423.40	2430.81	2383.50	2354.37	2311.40	2244.85	2524.79	2540.08	2493.98
49	2203.09	2186.82	2174.26	2154.05	2128.04	2090.69	2035.69	2265.75	2259.19	2243.79
50	1993.99	1982.74	1971.69	1953.85	1931.96	1900.64	1853.82	2042.79	2038.50	2027.36
51	1814.27	1805.79	1795.91	1781.32	1760.99	1736.43	1697.30	1849.56	1847.36	1839.75
52	1660.48	1652.00	1644.23	1629.78	1614.96	1594.83	1563.14	1683.88	1682.54	1676.72
53	1525.88	1519.40	1511.90	1498.42	1486.54	1470.84	1448.62	1539.09	1539.12	1534.82

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54	1409.04	1403.07	1395.55	1384.69	1374.72	1364.79	1347.46	1415.47	1414.87	1412.52
55	1305.87	1301.44	1294.76	1284.61	1278.19	1272.58	1259.89	1306.95	1306.17	1305.78
56	1219.81	1213.63	1209.89	1198.91	1194.23	1193.27	1183.12	1212.82	1216.46	1213.53
57	1140.15	1139.29	1131.49	1124.46	1121.34	1123.27	1117.95	1132.72	1133.13	1136.60
58	1065.58	1068.62	1058.08	1053.65	1053.11	1056.36	1056.72	1056.20	1055.54	1063.03
59	1002.98	1001.32	996.33	993.40	994.30	999.26	997.73	991.51	991.35	993.36
60	945.96	945.14	940.31	939.01	940.55	947.24	947.32	933.28	932.52	935.85
61	895.05	894.49	889.99	889.82	892.09	899.37	901.17	880.64	879.47	883.70
62	848.41	847.55	843.51	844.30	846.67	854.51	857.24	831.28	830.77	834.59
63	805.36	804.75	800.64	802.25	804.61	813.21	816.43	785.76	785.96	789.81
64	765.44	765.10	761.04	763.05	765.39	774.29	778.16	744.44	744.84	748.40
65	726.92	726.82	723.43	725.98	728.18	736.61	740.94	705.35	706.21	709.98
66	690.31	690.70	687.38	690.46	692.42	700.52	705.02	668.52	669.61	673.64
67	654.39	655.08	652.04	655.46	657.08	665.13	669.95	632.78	634.25	638.86
68	619.36	620.26	617.06	620.60	622.50	630.00	635.04	598.04	600.37	604.22
69	584.45	585.25	582.33	586.21	587.37	594.75	599.63	563.46	565.91	570.37
70	549.50	550.40	547.38	551.59	552.82	559.45	563.98	529.34	532.11	535.89
71	514.57	515.18	512.32	517.43	518.07	524.16	528.22	495.62	498.49	502.06
72	479.80	480.59	477.55	482.99	483.41	489.10	492.36	462.25	465.59	468.48
73	445.11	446.20	442.87	448.81	448.62	454.19	456.73	429.17	432.20	434.96
74	410.30	411.48	408.15	414.64	414.05	419.37	420.92	396.55	399.42	401.69
75	375.18	376.49	373.09	379.61	379.15	384.22	385.12	363.47	365.78	367.75
76	339.68	341.35	338.03	344.48	343.69	348.62	349.46	330.16	331.88	333.84
77	304.07	306.45	303.31	309.16	308.19	312.69	313.61	296.68	298.14	299.87
78	268.53	271.10	267.66	272.97	272.21	276.44	277.65	262.78	264.10	265.37
79	232.75	235.42	232.44	236.98	236.81	240.14	241.30	229.01	229.80	230.46
80	197.39	200.04	198.09	201.17	201.77	204.00	205.46	195.28	195.97	196.58
81	163.00	165.25	163.89	166.08	166.52	168.82	169.91	161.92	162.27	162.71
82	129.49	131.73	130.81	131.89	132.66	134.16	134.58	128.77	129.36	129.27
83	96.70	99.12	98.14	98.76	98.83	101.15	100.86	96.79	96.53	96.72
84	66.21	67.35	66.46	66.89	66.80	68.31	68.75	65.67	65.42	65.12
85	38.33	38.44	37.96	38.04	38.07	38.29	39.31	36.58	36.87	36.68
86	16.72	16.48	16.62	16.72	16.63	17.08	17.18	15.81	16.14	15.93
87	5.79	5.84	5.94	5.82	5.93	5.90	5.83	5.55	5.54	5.61
88	4.72	4.70	4.69	4.69	4.70	4.72	4.75	4.66	4.66	4.65
89	4.27	4.28	4.25	4.25	4.24	4.25	4.25	4.24	4.23	4.25
90	4.32	4.33	4.32	4.32	4.32	4.30	4.29	4.31	4.30	4.30

**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	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88	39149.88
1	39137.43	39140.26	39139.46	39140.26	39137.43	39137.17	39137.68	39137.24	39135.98	39137.84
2	39100.29	39100.63	39101.16	39100.63	39100.29	39100.75	39102.62	39102.56	39092.64	39096.76
3	39040.42	39038.22	39036.32	39038.22	39040.42	39038.92	39039.75	39038.33	39019.97	39025.81
4	38952.04	38950.47	38947.22	38950.47	38952.04	38950.53	38949.49	38950.51	38919.57	38925.68
5	38833.47	38834.10	38831.56	38834.10	38833.47	38833.34	38834.49	38832.72	38783.80	38798.25
6	38688.51	38688.40	38684.92	38688.40	38688.51	38686.54	38686.92	38685.95	38618.57	38635.56
7	38509.34	38509.46	38500.78	38509.46	38509.34	38509.08	38509.13	38505.74	38413.36	38437.61
8	38294.95	38294.58	38286.02	38294.58	38294.95	38297.03	38299.28	38295.42	38170.40	38201.21
9	38048.09	38046.76	38032.13	38046.76	38048.09	38049.27	38046.95	38047.01	37887.61	37924.47
10	37756.29	37753.73	37743.80	37753.73	37756.29	37758.54	37756.09	37755.75	37557.80	37599.69
11	37424.17	37421.00	37405.55	37421.00	37424.17	37422.70	37421.58	37421.43	37171.52	37228.87
12	37041.41	37043.04	37021.63	37043.04	37041.41	37041.04	37038.17	37039.47	36741.30	36807.96
13	36607.90	36608.64	36586.83	36608.64	36607.90	36609.63	36607.43	36603.69	36246.31	36332.98
14	36123.50	36117.77	36098.58	36117.77	36123.50	36115.33	36120.21	36117.66	35704.96	35798.71

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15	35578.53	35573.91	35549.71	35573.91	35578.53	35576.71	35570.70	35573.68	35081.86	35203.52
16	34969.59	34965.89	34946.07	34965.89	34969.59	34970.05	34967.85	34968.84	34413.28	34542.98
17	34306.05	34291.76	34265.40	34291.76	34306.05	34303.07	34297.47	34305.58	33662.24	33820.65
18	33570.50	33557.22	33530.31	33557.22	33570.50	33565.55	33564.29	33568.38	32850.30	33030.76
19	32762.54	32757.56	32722.99	32757.56	32762.54	32764.29	32761.61	32765.87	31958.06	32162.97
20	31883.51	31874.85	31843.37	31874.85	31883.51	31881.92	31885.97	31883.07	31002.83	31225.42
21	30935.42	30927.86	30892.83	30927.86	30935.42	30937.66	30933.02	30939.70	29972.76	30224.36
22	29910.35	29905.15	29869.60	29905.15	29910.35	29912.95	29909.00	29915.73	28863.02	29144.30
23	28824.68	28802.08	28773.90	28802.08	28824.68	28819.37	28820.50	28833.60	27689.95	27987.26
24	27656.00	27636.14	27585.20	27636.14	27656.00	27650.14	27656.87	27670.79	26448.44	26771.28
25	26411.60	26381.75	26347.07	26381.75	26411.60	26407.48	26433.51	26445.11	25163.14	25476.14
26	25106.43	25093.99	25030.08	25093.99	25106.43	25133.85	25134.72	25187.17	23798.79	24161.19
27	23762.84	23784.82	23681.81	23784.82	23762.84	23833.44	23814.60	23899.02	22412.85	22804.85
28	22395.35	22364.31	22304.23	22364.31	22395.35	22430.90	22468.01	22495.15	20979.60	21367.67
29	20958.43	20902.98	20845.84	20902.98	20958.43	20987.21	21036.65	21071.53	19505.51	19894.16
30	19483.61	19431.63	19371.58	19431.63	19483.61	19522.40	19576.95	19619.59	18012.37	18410.22
31	17982.25	17931.76	17849.54	17931.76	17982.25	18055.15	18099.57	18156.33	16525.56	16928.85
32	16494.33	16438.80	16368.71	16438.80	16494.33	16557.77	16627.68	16695.18	15065.06	15453.59
33	15040.91	14965.97	14883.50	14965.97	15040.91	15104.11	15174.64	15236.73	13630.93	14009.75
34	13610.17	13533.68	13448.56	13533.68	13610.17	13683.83	13753.34	13826.00	12238.71	12621.26
35	12270.01	12155.73	12109.86	12155.73	12270.01	12309.23	12484.77	12459.20	10968.70	11405.00
36	10973.88	10882.89	10810.50	10882.89	10973.88	11038.96	11159.14	11188.74	9748.48	10128.03
37	9708.52	9662.83	9548.51	9662.83	9708.52	9821.56	9862.93	9968.42	8570.90	8890.76
38	8576.80	8493.07	8425.46	8493.07	8576.80	8648.50	8728.91	8797.97	7534.92	7828.32
39	7545.39	7468.93	7404.60	7468.93	7545.39	7616.50	7697.62	7765.00	6611.37	6872.95
40	6624.44	6545.72	6493.20	6545.72	6624.44	6693.15	6764.14	6826.33	5799.70	6035.40
41	5803.22	5738.17	5686.23	5738.17	5803.22	5861.01	5935.84	5991.40	5089.12	5287.68
42	5085.16	5032.40	4991.37	5032.40	5085.16	5144.01	5209.64	5250.41	4477.26	4647.47
43	4474.53	4421.28	4387.42	4421.28	4474.53	4518.61	4575.07	4614.65	3948.05	4093.50
44	3946.46	3895.21	3866.36	3895.21	3946.46	3985.02	4029.07	4062.87	3497.13	3623.06
45	3492.26	3448.58	3426.43	3448.58	3492.26	3521.14	3561.40	3589.19	3112.63	3217.80
46	3104.08	3089.92	3047.26	3089.92	3104.08	3150.18	3160.02	3205.97	2785.82	2890.37
47	2793.33	2760.54	2747.02	2760.54	2793.33	2810.43	2838.96	2852.17	2485.65	2590.79
48	2504.46	2454.60	2466.37	2454.60	2504.46	2493.98	2540.08	2524.79	2244.85	2311.40
49	2233.18	2212.03	2203.09	2212.03	2233.18	2243.79	2259.19	2265.75	2035.69	2090.69
50	2018.55	2003.09	1993.99	2003.09	2018.55	2027.36	2038.50	2042.79	1853.82	1900.64
51	1831.50	1820.99	1814.27	1820.99	1831.50	1839.75	1847.36	1849.56	1697.30	1736.43
52	1673.43	1662.61	1660.48	1662.61	1673.43	1676.72	1682.54	1683.88	1563.14	1594.83
53	1533.83	1525.66	1525.88	1525.66	1533.83	1534.82	1539.12	1539.09	1448.62	1470.84
54	1412.22	1407.60	1409.04	1407.60	1412.22	1412.52	1414.87	1415.47	1347.46	1364.79
55	1306.80	1303.02	1305.87	1303.02	1306.80	1305.78	1306.17	1306.95	1259.89	1272.58
56	1218.87	1213.89	1219.81	1213.89	1218.87	1213.53	1216.46	1212.82	1183.12	1193.27
57	1137.28	1138.02	1140.15	1138.02	1137.28	1136.60	1133.13	1132.72	1117.95	1123.27
58	1061.03	1066.31	1065.58	1066.31	1061.03	1063.03	1055.54	1056.20	1056.72	1056.36
59	996.81	997.95	1002.98	997.95	996.81	993.36	991.35	991.51	997.73	999.26
60	939.62	941.64	945.96	941.64	939.62	935.85	932.52	933.28	947.32	947.24
61	888.29	890.75	895.05	890.75	888.29	883.70	879.47	880.64	901.17	899.37
62	840.42	843.72	848.41	843.72	840.42	834.59	830.77	831.28	857.24	854.51
63	796.32	800.71	805.36	800.71	796.32	789.81	785.96	785.76	816.43	813.21
64	755.98	760.66	765.44	760.66	755.98	748.40	744.84	744.44	778.16	774.29
65	718.00	722.67	726.92	722.67	718.00	709.98	706.21	705.35	740.94	736.61
66	681.75	686.25	690.31	686.25	681.75	673.64	669.61	668.52	705.02	700.52
67	646.69	651.12	654.39	651.12	646.69	638.86	634.25	632.78	669.95	665.13
68	612.26	615.98	619.36	615.98	612.26	604.22	600.37	598.04	635.04	630.00
69	577.89	581.51	584.45	581.51	577.89	570.37	565.91	563.46	599.63	594.75
70	543.79	546.46	549.50	546.46	543.79	535.89	532.11	529.34	563.98	559.45

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

71	509.99	511.47	514.57	511.47	509.99	502.06	498.49	495.62	528.22	524.16
72	476.15	476.70	479.80	476.70	476.15	468.48	465.59	462.25	492.36	489.10
73	442.70	442.05	445.11	442.05	442.70	434.96	432.20	429.17	456.73	454.19
74	409.11	407.68	410.30	407.68	409.11	401.69	399.42	396.55	420.92	419.37
75	375.02	372.73	375.18	372.73	375.02	367.75	365.78	363.47	385.12	384.22
76	340.91	337.63	339.68	337.63	340.91	333.84	331.88	330.16	349.46	348.62
77	306.53	302.74	304.07	302.74	306.53	299.87	298.14	296.68	313.61	312.69
78	271.34	267.66	268.53	267.66	271.34	265.37	264.10	262.78	277.65	276.44
79	235.71	232.40	232.75	232.40	235.71	230.46	229.80	229.01	241.30	240.14
80	200.79	198.03	197.39	198.03	200.79	196.58	195.97	195.28	205.46	204.00
81	165.87	163.22	163.00	163.22	165.87	162.71	162.27	161.92	169.91	168.82
82	132.51	129.08	129.49	129.08	132.51	129.27	129.36	128.77	134.58	134.16
83	99.33	96.61	96.70	96.61	99.33	96.72	96.53	96.79	100.86	101.15
84	66.98	65.34	66.21	65.34	66.98	65.12	65.42	65.67	68.75	68.31
85	37.89	37.12	38.33	37.12	37.89	36.68	36.87	36.58	39.31	38.29
86	16.78	16.10	16.72	16.10	16.78	15.93	16.14	15.81	17.18	17.08
87	5.70	5.66	5.79	5.66	5.70	5.61	5.54	5.55	5.83	5.90
88	4.69	4.71	4.72	4.71	4.69	4.65	4.66	4.66	4.75	4.72
89	4.25	4.28	4.27	4.28	4.25	4.25	4.23	4.24	4.25	4.25
90	4.32	4.33	4.32	4.33	4.32	4.30	4.30	4.31	4.29	4.30

**Vert. Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	39149.88	39149.88	39149.88	39149.88	39149.88
1	39136.16	39137.55	39135.73	39138.39	39139.46
2	39095.44	39098.05	39096.97	39099.19	39101.16
3	39028.16	39031.55	39029.43	39035.11	39036.32
4	38928.36	38933.78	38938.73	38945.60	38947.22
5	38804.21	38811.82	38818.38	38826.01	38831.56
6	38641.93	38655.96	38661.95	38676.08	38684.92
7	38450.59	38466.54	38476.44	38492.54	38500.78
8	38218.24	38240.25	38255.73	38274.21	38286.02
9	37949.02	37976.74	37996.05	38017.78	38032.13
10	37637.17	37665.16	37694.42	37720.76	37743.80
11	37271.03	37309.88	37348.68	37384.71	37405.55
12	36859.62	36908.52	36953.77	36994.32	37021.63
13	36395.65	36454.46	36509.67	36551.36	36586.83
14	35877.34	35941.32	36008.16	36061.32	36098.58
15	35290.40	35376.92	35448.08	35505.15	35549.71
16	34650.92	34743.46	34828.74	34894.08	34946.07
17	33939.43	34047.26	34145.81	34216.77	34265.40
18	33168.87	33288.69	33394.27	33473.76	33530.31
19	32318.33	32452.94	32572.71	32659.13	32722.99
20	31402.14	31546.34	31681.85	31773.24	31843.37
21	30421.66	30579.02	30713.92	30815.37	30892.83
22	29355.22	29529.64	29672.92	29793.88	29869.60
23	28214.06	28394.65	28570.63	28684.79	28773.90
24	27020.38	27204.42	27374.09	27508.22	27585.20
25	25745.78	25942.94	26125.96	26249.77	26347.07
26	24407.05	24636.89	24792.91	24951.17	25030.08
27	23040.13	23297.30	23440.11	23626.79	23681.81
28	21649.72	21870.63	22064.60	22197.52	22304.23
29	20195.71	20396.40	20595.19	20735.30	20845.84
30	18701.79	18917.28	19107.94	19237.86	19371.58
31	17208.54	17417.11	17596.56	17742.55	17849.54

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

32	15740.53	15930.70	16099.72	16237.15	16368.71
33	14285.11	14463.56	14636.80	14766.49	14883.50
34	12882.07	13062.16	13208.75	13337.41	13448.56
35	11572.09	11711.03	11879.87	11960.14	12109.86
36	10315.39	10478.15	10598.32	10704.99	10810.50
37	9097.61	9285.13	9354.86	9494.92	9548.51
38	8021.12	8151.64	8250.95	8333.91	8425.46
39	7051.05	7161.78	7256.35	7324.97	7404.60
40	6184.41	6280.90	6369.08	6427.65	6493.20
41	5424.37	5509.05	5573.84	5626.85	5686.23
42	4762.95	4834.20	4894.65	4934.36	4991.37
43	4192.59	4253.31	4306.81	4339.03	4387.42
44	3705.25	3756.35	3796.72	3827.79	3866.36
45	3289.00	3331.17	3366.76	3393.56	3426.43
46	2952.32	2989.14	2997.90	3041.03	3047.26
47	2642.46	2675.92	2704.95	2719.41	2747.02
48	2354.37	2383.50	2430.81	2423.40	2466.37
49	2128.04	2154.05	2174.26	2186.82	2203.09
50	1931.96	1953.85	1971.69	1982.74	1993.99
51	1760.99	1781.32	1795.91	1805.79	1814.27
52	1614.96	1629.78	1644.23	1652.00	1660.48
53	1486.54	1498.42	1511.90	1519.40	1525.88
54	1374.72	1384.69	1395.55	1403.07	1409.04
55	1278.19	1284.61	1294.76	1301.44	1305.87
56	1194.23	1198.91	1209.89	1213.63	1219.81
57	1121.34	1124.46	1131.49	1139.29	1140.15
58	1053.11	1053.65	1058.08	1068.62	1065.58
59	994.30	993.40	996.33	1001.32	1002.98
60	940.55	939.01	940.31	945.14	945.96
61	892.09	889.82	889.99	894.49	895.05
62	846.67	844.30	843.51	847.55	848.41
63	804.61	802.25	800.64	804.75	805.36
64	765.39	763.05	761.04	765.10	765.44
65	728.18	725.98	723.43	726.82	726.92
66	692.42	690.46	687.38	690.70	690.31
67	657.08	655.46	652.04	655.08	654.39
68	622.50	620.60	617.06	620.26	619.36
69	587.37	586.21	582.33	585.25	584.45
70	552.82	551.59	547.38	550.40	549.50
71	518.07	517.43	512.32	515.18	514.57
72	483.41	482.99	477.55	480.59	479.80
73	448.62	448.81	442.87	446.20	445.11
74	414.05	414.64	408.15	411.48	410.30
75	379.15	379.61	373.09	376.49	375.18
76	343.69	344.48	338.03	341.35	339.68
77	308.19	309.16	303.31	306.45	304.07
78	272.21	272.97	267.66	271.10	268.53
79	236.81	236.98	232.44	235.42	232.75
80	201.77	201.17	198.09	200.04	197.39
81	166.52	166.08	163.89	165.25	163.00
82	132.66	131.89	130.81	131.73	129.49
83	98.83	98.76	98.14	99.12	96.70
84	66.80	66.89	66.46	67.35	66.21
85	38.07	38.04	37.96	38.44	38.33
86	16.63	16.72	16.62	16.48	16.72
87	5.93	5.82	5.94	5.84	5.79

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

<b>88</b>	4.70	4.69	4.69	4.70	4.72
<b>89</b>	4.24	4.25	4.25	4.28	4.27
<b>90</b>	4.32	4.32	4.32	4.33	4.32

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	13552.79	35.60	35.60
0-30	25341.25	66.70	66.60
0-40	32848.8	86.40	86.40
0-60	36844.74	96.90	96.90
0-80	37960.77	99.80	99.80
0-90	38029.42	100.00	100.00
10-90	34358.82	90.40	90.30
20-40	19296.01	50.80	50.70
20-50	22090.17	58.10	58.10
40-70	4717.65	12.40	12.40
60-80	1116.03	2.90	2.90
70-80	394.31	1.00	1.00
80-90	68.65	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	38029.42	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3670.6
10-20	9882.19
20-30	11788.46
30-40	7507.55
40-50	2794.16
50-60	1201.78
60-70	721.72
70-80	394.31
80-90	68.65
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



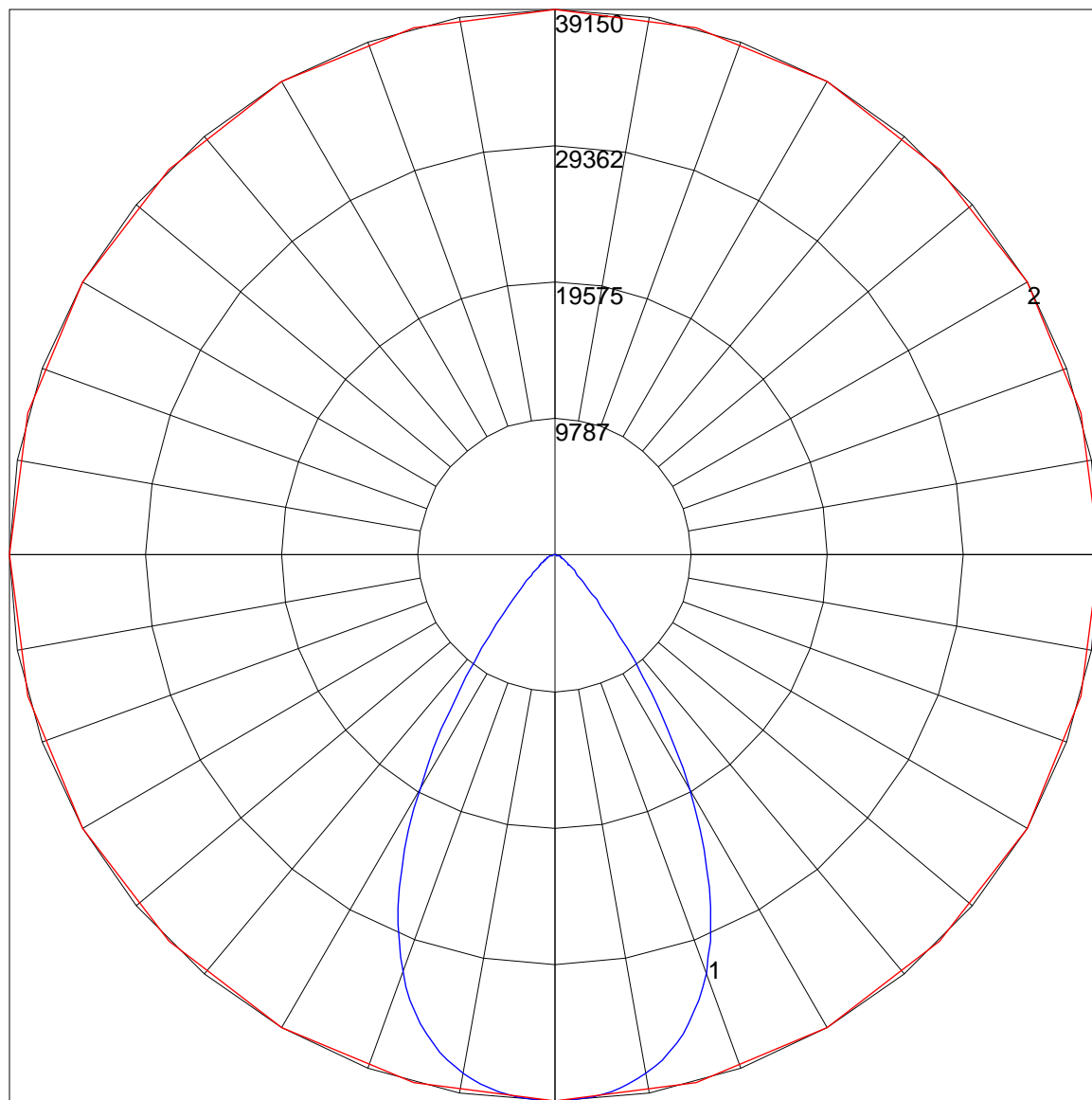
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : NUVHTVHOWT50MWD120-277V.IES**

**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	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	56	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

POLAR GRAPH



Maximum Candela = 39149.88 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.)