



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTHOWT50MWD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] NUVHTHOWT50MWD120-277V
 [LAMPCAT]
 [LAMP] 5000K Ra80

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	33553
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	242.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	35721.20035721.20035721.20035721.20035721.20035721.20035721.20035721.20035721.20035721.20035721.200									
1	35749.99035852.38035929.17036031.55035408.70035459.89035587.88035647.60035724.39035835.310									
2	35749.99035835.31035912.10035997.43035374.57035425.77035536.68035613.48035681.73035809.720									
3	35724.39035809.72035869.44035971.83035331.91035366.04035485.49035545.22035639.07035775.590									
4	35707.33035767.05035826.78035895.04035246.59035306.32035400.17035476.96035562.28035732.930									
5	35664.67035724.39035767.05035835.31035161.27035186.86035331.91035383.11035494.02035647.600									
6	35613.48035656.14035681.73035724.39035041.82035101.54035195.40035280.72035366.04035579.350									
7	35545.22035570.81035570.81035630.54034930.90034947.96035041.82035118.61035238.06035451.360									
8	35442.83035459.89035468.43035468.43034743.19034811.45034879.70034965.03035067.41035314.850									
9	35323.38035306.32035289.25035323.38034581.07034581.07034700.53034743.19034896.77035101.540									
10	35144.20035152.73035118.61035135.67034342.18034384.84034444.56034529.89034623.74034896.770									
11	34956.50034922.36034913.84034845.57034094.74034145.93034197.13034222.72034393.37034606.680									
12	34692.00034666.40034615.21034589.61033761.98033813.18033847.31033932.63034017.95034325.110									
13	34418.96034299.52034308.05034197.13033446.29033497.48033506.02033497.48033676.66033907.030									
14	34035.02033966.76033872.90033838.77033079.41033036.75033011.15033113.54033275.65033506.020									
15	33651.07033557.21033471.89033309.78032558.94032610.14032558.94032652.80032712.52033062.340									
16	33224.45032977.02033002.62032806.38032072.61031987.28032038.48031995.81032192.05032430.960									
17	32593.07032456.55032320.04032260.31031390.03031432.69031313.24031398.56031449.75031850.770									
18	32029.94031697.19031714.25031483.88030767.18030818.37030656.26030562.40030775.71031040.210									
19	31210.85031006.08030852.50030775.71029888.36029948.08029743.31029803.04029837.17030297.900									
20	30485.61030255.24030076.07029803.04029128.99029180.18028932.75028762.11028992.47029282.570									
21	29675.05029205.78029035.13028949.81028292.83028088.06027806.50027832.09028079.53028369.620									
22	28463.48028292.83028105.12027755.30027132.45027149.52026816.76026842.36026850.89027405.480									
23	27456.67027013.00027106.86026739.97026134.18025861.15025750.23025578.73025784.36026074.460									
24	26390.15025657.23025469.52025369.70024862.03024852.64024424.33024438.83024439.68025011.340									
25	24643.60024197.37024307.44023903.86023721.27023701.65023228.96022926.07023240.91023506.260									
26	23410.70022957.64022775.05022663.28022209.36022176.94021654.77021663.30021658.18022231.540									
27	21799.82021668.42021487.54021037.89020940.62020902.23020343.37020019.14020347.63020569.470									
28	20465.38020007.20020149.69019685.53019627.51019242.71018661.67018671.90019002.10019200.900									
29	19110.46018647.16018441.54018299.90017941.55017885.23017296.51017311.02017291.39017463.740									
30	17410.84016944.98017053.34016554.21016576.39016181.35015594.33015612.25015927.94016075.550									
31	16058.49015589.21015329.83015160.90014881.04014834.97014255.63014272.69014249.66014704.420									
32	14407.50014268.43013986.01013457.87013550.87013183.13012945.93012650.72012944.23013033.810									
33	13132.79012676.32012364.89012149.02011946.81011907.56011377.71011410.13011381.98011751.420									
34	11908.42011462.18011131.98011091.61010725.85010690.87010190.8809942.593 10199.41010238.660									
35	10457.08010029.6209973.309 9454.550 9578.268 9271.961 8814.634 8853.029 8822.313 9114.114									
36	9364.108 8962.241 8631.191 8393.995 8267.719 8233.590 7810.392 7609.885 7813.805 7823.190									
37	8094.515 7730.189 7653.399 7197.779 7323.202 7062.969 6686.699 6713.149 6888.912 6888.060									
38	7166.209 6838.572 6559.568 6355.648 6276.299 6233.638 5888.083 5904.294 5848.835 6041.663									
39	6120.160 6028.865 5783.137 5435.875 5543.382 5325.810 5179.056 5013.531 5111.651 5107.385									
40	5378.710 5138.955 5095.440 4799.372 4744.766 4695.279 4408.597 4393.239 4307.917 4454.670									
41	4720.876 4517.809 4349.725 4239.659 4192.731 4140.685 3882.159 3726.873 3758.442 3759.295									
42	4005.876 3847.177 3838.645 3639.844 3601.449 3548.549 3319.886 3274.665 3183.370 3291.730									
43	3511.008 3382.171 3289.170 3228.591 3197.022 3145.828 2939.349 2800.274 2801.980 2806.246									
44	2980.303 2976.038 2913.752 2790.035 2763.585 2715.805 2536.628 2537.311 2463.507 2540.382									
45	2616.831 2503.950 2479.377 2460.691 2519.564 2477.927 2317.862 2205.578 2203.274 2208.991									
46	2202.592 2221.363 2217.865 2155.494 2206.176 2170.511 2030.497 1983.911 1933.400 1988.945									
47	1953.792 1922.735 1937.069 1947.393 1991.590 1911.985 1836.560 1751.750 1753.285 1760.367									
48	1693.304 1722.057 1747.484 1725.897 1761.818 1736.221 1632.213 1596.036 1563.870 1607.385									
49	1521.209 1512.677 1546.635 1574.791 1604.910 1549.195 1462.763 1431.706 1436.143 1446.381									
50	1343.056 1373.943 1411.570 1413.788 1437.167 1421.809 1347.749 1295.873 1301.504 1312.426									
51	1227.530 1231.028 1268.997 1304.832 1322.664 1286.146 1225.226 1203.299 1188.197 1220.960									
52	1108.676 1113.966 1172.412 1189.647 1199.544 1193.401 1141.867 1104.154 1110.297 1122.499									
53	1030.009 1037.432 1070.708 1110.639 1095.622 1093.574 1051.937 1036.152 1025.658 1053.900									

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CANDELA TABULATION - (Cont.)

54	947.759	956.462	1001.853	1026.084	1023.525	1007.911	989.652	961.752	966.103	979.157
55	892.043	901.002	927.708	967.127	945.370	948.015	921.736	909.534	899.893	913.374
56	832.062	841.874	876.771	902.538	890.422	882.061	862.095	851.089	852.795	866.447
57	789.827	799.639	821.311	856.635	829.588	834.877	819.008	799.469	799.554	813.803
58	742.730	752.712	782.063	805.100	775.749	782.148	770.801	762.524	751.859	775.579
59	700.410	718.839	738.378	759.026	737.184	743.924	735.221	719.693	717.133	731.894
60	669.438	680.359	706.809	725.750	693.157	700.239	694.096	687.611	677.031	698.533
61	633.517	650.752	670.291	687.526	659.796	660.308	663.295	649.472	646.913	659.455
62	606.214	618.415	642.647	658.687	620.975	630.446	627.289	620.719	611.504	623.535
63	574.389	593.501	610.395	624.900	592.136	595.549	592.989	587.017	585.140	596.317
64	549.987	562.103	579.423	598.962	558.007	568.758	566.625	555.021	553.741	563.553
65	520.295	539.236	555.277	567.051	525.926	536.335	534.799	530.277	522.940	538.212
66	497.087	509.715	525.414	542.052	501.097	511.336	509.544	500.329	498.708	507.240
67	468.504	481.217	501.524	511.080	470.637	480.449	478.487	476.098	469.101	482.326
68	445.296	456.815	471.576	485.739	446.064	449.221	453.402	445.211	445.041	450.928
69	416.372	426.696	446.918	453.487	414.751	423.966	421.492	419.870	414.495	419.615
70	392.994	402.123	415.263	427.123	390.178	392.738	390.264	388.813	390.178	394.530
71	364.070	371.749	390.178	394.615	360.230	368.506	365.862	358.780	360.230	363.728
72	341.118	347.688	359.121	369.189	330.538	338.985	335.657	335.231	330.879	339.582
73	312.876	318.166	334.890	337.876	307.586	309.890	312.194	305.880	307.757	309.890
74	291.034	295.129	304.771	312.706	279.174	286.853	283.099	282.587	278.492	286.171
75	263.902	266.547	274.908	281.563	256.649	258.185	259.721	253.578	255.369	256.137
76	236.087	243.424	250.335	251.103	228.578	235.404	230.626	224.909	226.018	226.274
77	214.159	214.841	220.046	226.701	200.592	207.504	201.702	201.787	196.668	202.555
78	186.770	192.060	195.814	195.729	178.835	179.774	179.006	173.119	173.033	173.289
79	164.587	163.819	165.952	171.839	151.276	158.017	150.594	150.082	143.939	150.082
80	137.369	135.662	142.915	142.573	129.775	131.140	122.608	120.987	114.758	121.499
81	115.868	113.564	114.758	120.304	103.240	109.468	100.766	93.513	92.063	94.025
82	88.564	86.858	87.455	93.172	78.582	83.104	75.510	72.950	66.295	72.524
83	63.053	66.978	67.405	68.855	59.981	57.934	55.886	48.463	46.586	46.159
84	43.344	43.173	45.391	49.999	37.968	39.163	32.337	25.170	21.587	21.928
85	19.027	21.587	29.692	28.924	22.696	19.965	16.894	10.239	6.740	8.618
86	6.229	8.788	13.481	15.358	8.874	7.423	5.802	4.607	4.351	4.437
87	2.645	2.901	4.607	4.437	4.351	4.437	3.669	3.413	3.328	3.242
88	1.621	1.877	2.218	2.133	3.072	2.986	2.901	2.816	2.816	2.816
89	1.365	1.365	1.365	1.450	2.816	2.730	2.645	2.560	2.560	2.560
90	1.195	1.280	1.365	1.280	2.560	2.560	2.474	2.474	2.218	2.389
91	1.195	1.280	1.280	1.280	2.389	2.389	2.304	2.304	2.218	2.389
92	1.195	1.195	1.195	1.280	2.218	2.304	2.218	2.133	2.218	2.218
93	1.109	1.109	1.195	1.195	2.304	2.218	2.218	2.133	2.389	2.133
94	1.024	1.109	1.109	1.109	2.218	2.133	2.048	2.048	2.048	1.962
95	1.024	1.109	1.109	1.109	2.048	2.133	2.048	1.962	1.962	1.962
96	1.024	1.109	1.024	1.109	1.962	1.877	1.877	1.962	1.962	1.877
97	0.939	0.939	1.024	1.024	1.962	1.962	1.877	1.877	1.450	1.877
98	0.939	0.939	0.939	0.939	1.877	1.792	1.877	1.792	1.792	1.792
99	0.939	0.939	0.939	1.024	1.792	1.792	1.792	1.706	1.450	1.792
100	0.939	0.853	0.939	0.939	1.706	1.792	1.706	1.706	1.706	1.706
101	0.853	0.939	0.853	0.939	1.706	1.706	1.621	1.621	1.621	1.621
102	0.853	0.853	0.939	0.939	1.706	1.706	1.706	1.621	1.621	1.621
103	0.853	0.853	0.853	0.853	1.621	1.706	1.621	1.536	1.621	1.621
104	0.768	0.853	0.853	0.939	1.621	1.621	1.621	1.621	1.621	1.536
105	0.853	0.853	0.853	0.939	1.536	1.536	1.536	1.536	1.536	1.621
106	0.768	0.853	0.853	0.853	1.621	1.536	1.536	1.536	1.536	1.450
107	0.853	0.853	0.853	0.939	1.536	1.536	1.450	1.536	1.536	1.536
108	0.768	0.853	0.853	0.853	1.536	1.536	1.450	1.450	1.450	1.450
109	0.939	0.853	0.853	0.853	1.536	1.536	1.450	1.536	1.536	1.450

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110	0.000	0.853	0.853	0.853	1.536	1.365	1.450	1.450	1.536	1.450
111	0.683	0.853	0.853	0.853	1.536	1.536	1.450	1.450	1.450	1.450
112	0.853	0.853	0.853	0.939	1.536	1.536	1.450	1.450	1.450	1.450
113	0.853	0.939	0.939	0.939	1.536	1.536	1.450	1.450	1.450	1.536
114	0.853	0.939	0.939	0.939	1.536	1.450	1.536	1.450	1.536	1.450
115	0.853	1.024	0.939	0.939	1.536	1.450	1.536	1.450	1.450	1.450
116	0.939	0.939	0.939	1.024	1.536	1.536	1.450	1.450	1.536	1.450
117	0.939	0.939	1.024	1.024	1.621	1.536	1.450	1.536	1.536	1.450
118	1.024	1.024	0.939	1.109	1.706	1.536	1.536	1.536	1.536	1.536
119	1.024	1.024	1.109	1.109	1.621	1.536	1.536	1.621	1.621	1.450
120	1.109	1.109	1.195	1.109	1.621	1.536	1.536	1.621	1.621	1.621
121	1.109	1.109	1.195	1.195	1.706	1.706	1.621	1.621	1.621	1.621
122	1.195	1.195	1.195	1.280	1.792	1.792	1.706	1.706	1.706	1.792
123	1.195	1.280	1.365	1.365	1.962	1.792	1.877	1.877	1.877	1.792
124	1.365	1.365	1.365	1.450	2.048	1.877	1.962	1.877	1.962	1.877
125	1.536	1.536	1.536	1.536	2.218	2.133	2.133	2.048	2.133	2.048
126	1.536	1.621	1.706	1.792	2.389	2.218	2.304	2.304	2.304	2.133
127	1.621	1.792	1.877	1.962	2.474	2.474	2.474	2.560	2.474	2.389
128	2.389	1.962	1.962	2.048	2.816	2.730	2.730	2.730	2.645	2.560
129	2.560	2.218	2.218	2.304	2.986	2.901	2.986	2.901	3.072	2.816
130	2.474	2.474	2.474	2.560	3.242	3.157	3.157	3.242	3.242	3.072
131	2.730	2.816	2.730	2.901	3.584	3.498	3.498	3.584	3.584	3.328
132	3.072	3.157	3.072	3.157	4.010	3.839	3.839	3.925	3.839	3.754
133	3.498	3.413	3.498	3.498	4.351	4.095	4.266	4.351	4.266	4.010
134	3.072	3.839	3.839	3.925	4.778	4.607	4.607	4.607	4.778	4.437
135	4.010	4.266	4.266	4.437	5.205	5.034	5.119	5.119	5.119	4.949
136	4.693	4.778	4.778	4.778	5.802	5.461	5.546	5.461	5.546	5.290
137	5.205	5.205	5.205	5.290	6.229	5.973	6.143	6.143	6.143	5.887
138	5.802	5.717	5.802	5.802	6.826	6.484	6.655	6.740	6.826	6.399
139	6.229	6.229	6.314	6.314	7.338	7.082	7.252	7.252	7.423	7.082
140	6.314	6.826	6.826	6.826	8.020	7.764	7.850	7.935	8.020	7.594
141	7.423	7.252	7.338	7.252	8.703	8.276	8.447	8.532	8.703	8.191
142	7.850	7.850	7.764	7.850	9.215	8.874	8.874	9.215	9.300	8.788
143	8.532	8.362	8.362	8.447	9.897	9.300	9.471	9.897	9.983	9.385
144	9.215	8.959	8.874	8.874	10.409	9.897	9.983	10.409	10.665	10.068
145	9.556	9.641	9.385	9.471	11.092	10.409	10.580	11.177	11.263	10.495
146	10.921	10.153	9.983	10.068	11.604	11.007	11.177	11.774	11.945	11.092
147	10.921	10.921	10.495	10.580	12.201	11.518	11.604	12.286	12.542	11.689
148	11.860	11.689	11.092	11.263	12.884	11.945	12.116	12.713	13.225	12.116
149	11.945	12.201	11.774	11.774	13.396	12.628	12.713	13.310	13.737	12.628
150	12.798	12.798	12.201	12.372	13.993	12.969	13.310	13.908	14.334	13.140
151	13.737	13.310	12.884	12.884	14.505	13.481	13.822	14.334	15.017	13.652
152	14.249	13.908	13.566	13.396	15.017	14.078	14.249	14.931	15.358	14.078
153	15.102	14.590	13.993	14.078	15.699	14.590	14.931	15.358	15.955	14.505
154	15.529	15.102	14.590	14.590	16.126	15.017	15.273	15.785	16.382	15.017
155	16.041	15.529	15.102	15.102	16.638	15.358	15.785	16.382	16.894	15.358
156	16.467	16.126	15.614	15.614	17.064	15.955	16.126	16.808	17.406	15.955
157	16.808	16.467	16.041	15.955	17.576	16.382	16.638	17.406	17.747	16.467
158	17.150	16.979	16.553	16.553	18.088	16.808	17.064	17.918	18.344	16.894
159	18.088	17.491	16.979	17.064	18.430	17.320	17.491	18.344	18.771	17.491
160	17.406	18.088	17.406	17.576	18.856	17.576	17.832	18.856	19.197	17.832
161	18.856	18.686	17.832	18.174	19.283	18.088	18.174	19.368	19.624	18.430
162	19.283	19.197	18.259	18.600	19.624	18.600	18.515	19.965	20.136	18.686
163	19.709	19.709	18.600	19.027	20.051	18.942	19.027	20.392	20.563	19.197
164	20.136	20.307	18.942	19.368	20.392	19.283	19.283	20.904	20.904	19.624
165	20.563	20.733	19.539	19.795	20.819	19.709	19.795	21.416	21.331	19.965

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CANDELA TABULATION - (Cont.)

166	20.989	21.160	19.965	20.307	21.331	20.221	20.307	21.842	21.842	20.648
167	21.331	21.501	20.648	20.904	21.842	20.819	21.075	22.269	22.269	21.075
168	21.757	22.184	21.160	21.416	22.184	21.331	21.672	22.696	22.696	21.501
169	22.184	22.696	21.757	22.013	22.610	21.928	22.098	23.122	22.952	21.928
170	22.610	23.122	22.354	22.696	23.037	22.440	22.610	23.549	23.378	22.354
171	23.293	23.549	22.952	23.293	23.378	22.866	23.208	23.805	23.976	22.952
172	23.976	24.061	23.634	23.890	23.890	23.378	23.634	24.232	24.317	23.549
173	24.402	24.402	24.232	24.232	24.317	23.805	24.146	24.658	24.573	23.890
174	24.658	25.085	24.573	24.829	24.658	24.232	24.573	24.914	24.743	24.146
175	24.914	25.426	25.085	25.255	24.999	24.573	24.829	25.426	24.999	24.743
176	25.426	25.767	25.682	25.853	25.511	24.999	25.511	25.853	25.511	25.255
177	25.938	26.109	26.023	26.194	26.109	25.682	25.853	26.194	26.109	25.853
178	26.365	26.194	26.365	26.450	26.279	25.853	26.109	26.279	26.365	26.109
179	26.621	26.194	26.450	26.535	26.450	25.938	26.109	26.109	26.621	26.109
180	26.333	26.333	26.333	26.333	26.333	26.333	26.333	26.333	26.333	26.333

Vert. Horizontal Angles
Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	35721.20035721.20035721.20035721.20035721.20035721.20035721.200						
1	35912.10036057.15035451.36035511.09035630.54035681.73035749.990						
2	35895.04036057.15035434.30035519.62035639.07035681.73035749.990						
3	35869.44036023.02035425.77035511.09035630.54035681.73035724.390						
4	35809.72035988.89035408.70035485.49035613.48035664.67035707.330						
5	35758.52035929.17035374.57035459.89035587.88035630.54035664.670						
6	35681.73035869.44035331.91035425.77035545.22035587.88035613.480						
7	35579.35035715.86035280.72035357.51035494.02035511.09035545.220						
8	35442.83035604.94035178.33035280.72035400.17035442.83035442.830						
9	35280.72035468.43035075.95035161.27035297.79035297.79035323.380						
10	35041.82035263.65034913.84035033.29035135.67035169.80035144.200						
11	34819.98035050.35034768.79034845.57034990.63034956.50034956.500						
12	34538.41034743.19034581.07034657.87034794.38034751.72034692.000						
13	34145.93034444.56034299.52034376.30034521.35034453.09034418.960						
14	33770.52034000.89034043.55034094.74034231.26034163.00034035.020						
15	33232.99033574.28033719.32033779.05033821.71033821.71033651.070						
16	32738.12033096.47033250.05033292.71033429.23033309.78033224.450						
17	32021.41032413.89032814.91032857.57032883.16032840.50032593.070						
18	31381.49031799.58032174.99032217.65032354.17032157.93032029.940						
19	30664.79030912.22031603.33031628.93031756.91031543.61031210.850						
20	29666.52030127.26030954.88030946.35030903.69030843.97030485.610						
21	28787.70029026.61030024.87030007.81030144.32029871.29029675.050						
22	27550.53028062.46029214.31029163.12029069.27028992.47028463.480						
23	26492.54027013.00028062.46027985.67028105.12027772.37027456.670						
24	25147.86025672.59027055.66026953.27027072.72026705.84026390.150						
25	23931.16024472.96025693.92025568.50025379.93025280.11024643.600						
26	22650.48022871.46024222.11024067.68024164.95023755.40023410.700						
27	20972.19021520.81022967.88022786.99022557.48022468.74021799.820						
28	19584.00019779.39021324.57021124.06021215.36020798.13020465.380						
29	17817.83018358.77019956.86019758.91019839.11019429.57019110.460						
30	16401.48016572.13018559.28018357.06018096.83017712.03017410.840						
31	14660.06015154.07016804.20016592.60016703.52016347.73016058.490						
32	13302.58013776.97015408.33015210.38014985.13014995.37014407.500						
33	11674.63012113.19014039.76013534.66013646.43013366.57013132.790						
34	10446.85010844.45012387.07012227.52012044.93012115.75011908.420						
35	9291.585 9368.375 11128.57010970.73010823.12010627.73010457.080						
36	7970.797 8285.637 9648.231 9512.569 9661.883 9507.450 9364.108						

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CANDELA TABULATION - (Cont.)

37	7016.896	7062.969	8554.401	8444.336	8316.353	8203.728	8094.515
38	5958.900	6194.390	7309.550	7209.724	7332.588	7254.944	7166.209
39	5215.745	5425.637	6419.640	6318.960	6238.758	6389.777	6120.160
40	4412.010	4593.746	5626.997	5362.499	5473.417	5435.875	5378.710
41	3865.094	4026.353	4771.216	4714.903	4803.638	4774.629	4720.876
42	3287.463	3430.804	4185.906	4143.245	4086.932	4059.629	4005.876
43	2900.954	3031.497	3569.027	3522.953	3598.889	3567.320	3511.008
44	2571.610	2614.271	3151.801	3109.140	3083.543	3143.269	2980.303
45	2282.368	2387.570	2796.861	2688.502	2736.282	2691.062	2616.831
46	2002.341	2095.171	2394.226	2380.830	2341.070	2353.356	2202.592
47	1815.314	1898.077	2153.702	2083.823	2102.509	2040.650	1953.792
48	1618.732	1689.123	1897.650	1873.419	1849.273	1828.796	1693.304
49	1486.568	1515.407	1683.236	1646.974	1676.751	1603.801	1521.209
50	1346.213	1397.321	1536.738	1504.486	1492.114	1452.866	1343.056
51	1250.226	1270.191	1379.148	1351.247	1367.714	1295.788	1227.530
52	1146.986	1182.139	1270.191	1245.618	1234.185	1190.330	1108.676
53	1058.848	1086.834	1151.764	1131.372	1142.208	1079.070	1030.009
54	996.734	1020.027	1069.087	1051.425	1042.637	986.580	947.759
55	927.964	946.735	977.963	963.799	973.697	923.357	892.043
56	878.989	882.743	913.801	902.111	898.272	854.758	832.062
57	823.871	836.755	842.898	833.512	845.116	806.636	789.827
58	784.111	785.135	792.814	785.135	785.817	753.565	742.730
59	738.719	747.508	736.501	730.784	733.344	715.341	700.410
60	697.167	703.140	695.717	691.195	695.205	672.339	669.438
61	666.025	670.206	649.472	645.462	651.264	640.770	633.517
62	629.763	632.152	615.344	612.101	618.927	604.252	606.214
63	602.204	596.231	576.181	573.877	581.471	577.034	574.389
64	568.758	569.014	546.830	545.294	553.570	544.441	549.987
65	542.564	536.421	512.530	511.677	520.209	519.527	520.295
66	510.653	510.653	480.023	479.852	494.698	489.152	497.087
67	479.169	478.913	454.853	455.364	463.641	465.347	468.504
68	453.914	453.061	424.393	425.331	439.153	436.167	445.296
69	422.601	421.492	400.332	401.526	408.949	406.475	416.372
70	398.369	390.520	371.152	372.090	384.888	382.841	392.994
71	368.421	366.373	348.029	349.309	355.367	353.746	364.070
72	344.616	336.511	320.470	321.323	332.074	331.050	341.118
73	315.265	313.047	298.542	299.396	304.003	303.235	312.876
74	285.659	284.550	271.922	272.519	277.041	281.307	291.034
75	261.939	261.768	250.762	251.103	255.455	254.601	263.902
76	232.162	233.100	224.568	224.653	228.663	233.015	236.087
77	208.442	203.920	198.118	197.862	207.077	206.138	214.159
78	178.665	180.968	176.873	176.361	179.603	184.467	186.770
79	149.314	152.897	151.106	149.740	158.017	158.017	164.587
80	126.106	125.509	130.543	128.666	131.908	131.993	137.369
81	98.291	103.837	105.117	102.387	111.345	111.175	115.868
82	72.694	77.643	85.578	82.507	86.005	85.408	88.564
83	52.814	56.739	62.968	59.384	62.456	65.186	63.053
84	29.010	31.740	41.125	37.371	44.453	41.381	43.344
85	13.396	12.798	25.255	22.610	23.976	19.624	19.027
86	4.949	5.887	9.129	8.106	11.092	7.082	6.229
87	3.242	3.498	3.328	3.242	2.986	2.645	2.645
88	2.816	2.816	1.450	1.536	1.706	1.706	1.621
89	2.560	2.645	1.280	1.365	1.280	1.365	1.365
90	2.389	2.389	1.195	1.280	1.280	1.195	1.195
91	2.389	2.389	1.109	1.195	1.280	1.195	1.195
92	2.218	2.218	1.109	1.195	1.195	1.195	1.195

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CANDELA TABULATION - (Cont.)

93	2.133	2.218	1.024	1.195	1.195	1.109	1.109
94	2.133	2.048	1.024	1.109	1.195	1.024	1.024
95	2.048	2.048	0.939	1.024	1.024	1.024	1.024
96	1.962	1.877	0.939	0.939	0.939	1.024	1.024
97	1.877	1.877	0.853	1.024	0.939	0.939	0.939
98	1.792	1.792	0.853	0.939	1.024	0.939	0.939
99	1.792	1.792	0.853	0.939	0.939	0.939	0.939
100	1.706	1.792	0.853	0.853	0.853	0.939	0.939
101	1.706	1.706	0.853	0.853	0.939	0.853	0.853
102	1.621	1.621	0.768	0.853	0.939	0.853	0.853
103	1.621	1.621	0.768	0.853	0.853	0.853	0.853
104	1.621	1.621	0.768	0.853	0.853	0.853	0.768
105	1.536	1.621	0.768	0.853	0.853	0.853	0.853
106	1.536	1.536	0.768	0.853	0.853	0.853	0.768
107	1.536	1.536	0.768	0.853	0.853	0.853	0.853
108	1.536	1.536	0.768	0.853	0.768	0.853	0.768
109	1.536	1.450	0.853	0.853	0.853	0.853	0.939
110	1.450	1.536	0.768	0.853	0.853	0.768	0.000
111	1.365	1.365	0.768	0.853	0.853	0.853	0.683
112	1.450	1.450	0.853	0.939	0.853	0.853	0.853
113	1.450	1.621	0.853	0.939	0.853	0.853	0.853
114	1.536	1.536	0.768	0.853	0.939	0.853	0.853
115	1.536	1.536	0.939	0.939	0.939	0.939	0.853
116	1.450	1.536	0.939	0.939	0.939	0.939	0.939
117	1.450	1.536	0.853	1.109	1.024	0.939	0.939
118	1.536	1.536	1.024	1.024	1.024	1.024	1.024
119	1.536	1.621	1.024	1.109	1.024	1.024	1.024
120	1.621	1.621	1.024	1.109	1.109	1.109	1.109
121	1.621	1.621	1.109	1.195	1.195	1.109	1.109
122	1.706	1.706	1.195	1.195	1.195	1.195	1.195
123	1.792	1.792	1.365	1.365	1.280	1.280	1.195
124	1.962	1.962	1.365	1.450	1.365	1.280	1.365
125	2.048	2.048	1.536	1.621	1.450	1.450	1.536
126	2.133	2.133	1.621	1.706	1.621	1.536	1.536
127	2.304	2.389	1.877	1.877	1.706	1.706	1.621
128	2.560	2.474	2.048	2.133	1.962	1.877	2.389
129	2.816	2.816	2.218	2.304	2.218	2.048	2.560
130	3.072	2.986	2.560	2.560	2.389	2.304	2.474
131	3.328	3.328	2.730	2.816	2.645	2.645	2.730
132	3.669	3.669	3.157	3.072	2.986	2.986	3.072
133	4.010	4.010	3.584	3.584	3.413	3.242	3.498
134	4.522	4.522	3.925	3.925	3.839	3.754	3.072
135	4.863	4.778	4.437	4.351	4.181	4.095	4.010
136	5.290	5.290	4.949	4.863	4.607	4.607	4.693
137	5.802	5.887	5.375	5.290	5.119	5.034	5.205
138	6.399	6.399	5.887	5.802	5.631	5.461	5.802
139	6.911	6.996	6.484	6.399	6.143	5.973	6.229
140	7.508	7.594	6.996	6.826	6.655	6.484	6.314
141	8.106	8.106	7.508	7.338	7.252	6.911	7.423
142	8.618	8.703	8.106	7.850	7.679	7.508	7.850
143	9.129	9.300	8.618	8.362	8.191	8.020	8.532
144	9.641	9.897	9.129	8.959	8.618	8.532	9.215
145	10.324	10.495	9.641	9.471	9.129	9.215	9.556
146	10.751	11.007	10.324	10.068	9.727	9.641	10.921
147	11.263	11.518	11.007	10.751	10.239	10.324	10.921
148	11.945	12.201	11.604	11.263	10.921	11.007	11.860

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CANDELA TABULATION - (Cont.)

149	12.457	12.798	12.286	11.860	11.433	11.433	11.945
150	13.054	13.225	12.884	12.372	12.030	12.201	12.798
151	13.652	13.822	13.481	12.969	12.542	12.542	13.737
152	14.163	14.334	14.163	13.737	13.054	13.140	14.249
153	14.590	14.931	14.675	14.163	13.737	13.652	15.102
154	15.102	15.358	15.273	14.846	14.419	14.163	15.529
155	15.614	15.870	15.870	15.443	14.761	14.675	16.041
156	16.041	16.467	16.382	15.785	15.273	15.102	16.467
157	16.553	16.979	16.979	16.382	15.785	15.529	16.808
158	16.979	17.491	17.406	16.723	16.126	16.041	17.150
159	17.320	17.832	17.918	17.235	16.553	16.467	18.088
160	17.747	18.430	18.344	17.832	16.894	17.064	17.406
161	18.003	18.771	18.771	18.259	17.320	17.491	18.856
162	18.430	19.368	19.197	18.771	17.662	17.918	19.283
163	18.771	19.880	19.539	19.197	18.088	18.430	19.709
164	19.197	20.221	19.965	19.539	18.515	18.771	20.136
165	19.709	20.819	20.307	20.136	18.942	19.283	20.563
166	20.221	21.245	20.648	20.392	19.368	19.624	20.989
167	20.904	21.757	21.075	20.904	19.880	20.221	21.331
168	21.501	22.269	21.501	21.416	20.392	20.733	21.757
169	21.842	22.610	21.842	21.842	21.075	21.245	22.184
170	22.525	23.208	22.354	22.440	21.757	21.757	22.610
171	23.037	23.634	22.866	22.866	22.269	22.440	23.293
172	23.720	24.146	23.549	23.549	23.037	22.952	23.976
173	24.146	24.573	24.061	24.146	23.549	23.549	24.402
174	24.487	24.999	24.487	24.573	23.976	23.976	24.658
175	24.914	25.341	24.829	25.085	24.487	24.487	24.914
176	25.426	25.853	25.341	25.597	24.999	25.170	25.426
177	25.938	26.194	25.597	25.767	25.597	25.682	25.938
178	26.279	26.450	26.023	25.938	25.938	25.853	26.365
179	26.450	26.621	26.450	26.023	26.109	25.938	26.621
180	26.333	26.333	26.333	26.333	26.333	26.333	26.333

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	12640.76	N.A.	37.70
0-30	23534.87	N.A.	70.10
0-40	29764.18	N.A.	88.70
0-60	32676.74	N.A.	97.40
0-80	33480.38	N.A.	99.80
0-90	33521.89	N.A.	99.90
10-90	30147.78	N.A.	89.90
20-40	17123.42	N.A.	51.00
20-50	19171.26	N.A.	57.10
40-70	3442.29	N.A.	10.30
60-80	803.64	N.A.	2.40
70-80	273.91	N.A.	0.80
80-90	41.50	N.A.	0.10
90-110	2.97	N.A.	0.00
90-120	4.18	N.A.	0.00
90-130	5.87	N.A.	0.00
90-150	15.80	N.A.	0.00
90-180	30.93	N.A.	0.10
110-180	27.96	N.A.	0.10
0-180	33552.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3374.11
10-20	9266.66
20-30	10894.11
30-40	6229.31
40-50	2047.85
50-60	864.71
60-70	529.73
70-80	273.91
80-90	41.50
90-100	1.69
100-110	1.28
110-120	1.21
120-130	1.69
130-140	3.65
140-150	6.28
150-160	7.15
160-170	5.67
170-180	2.31

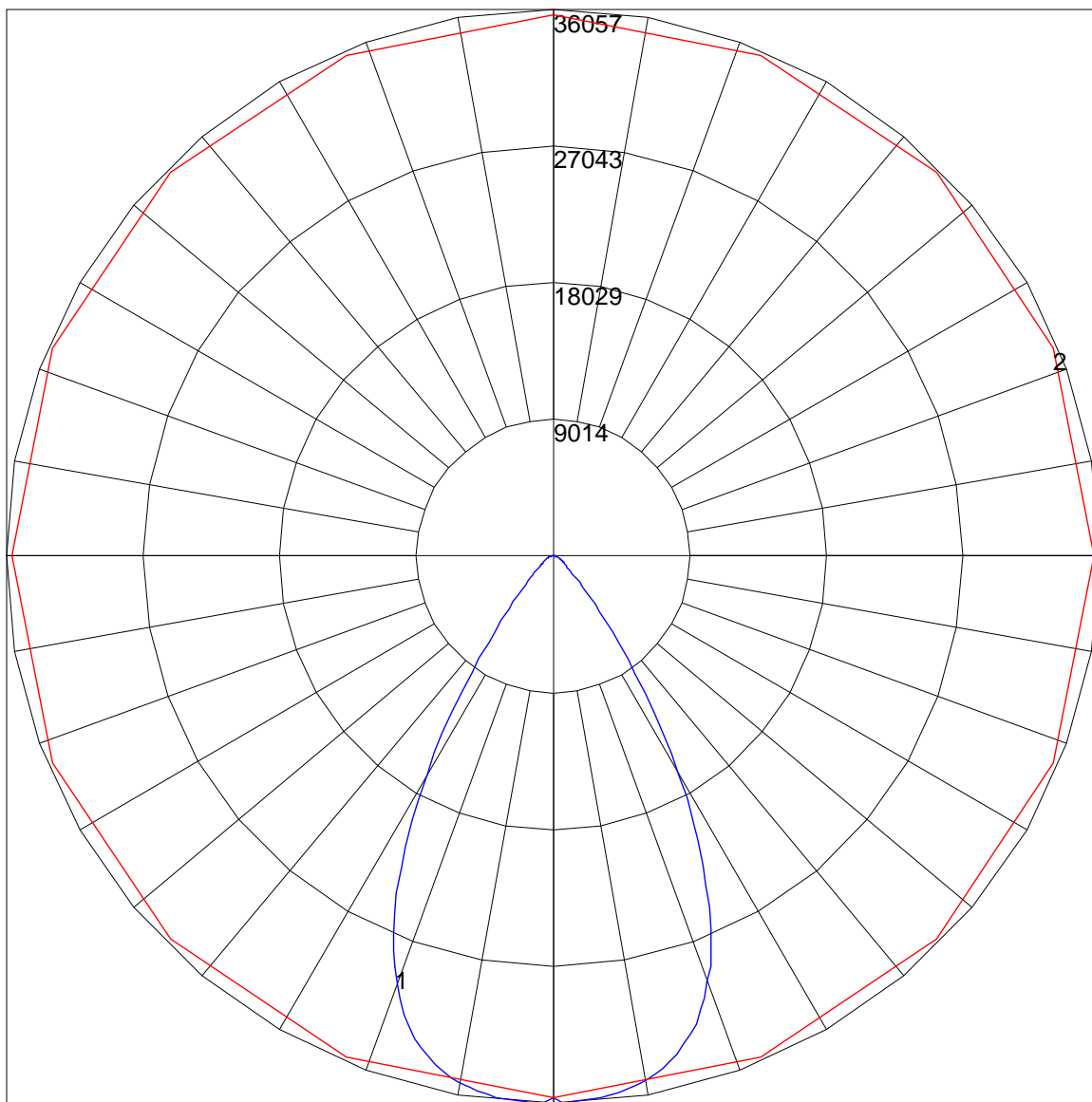
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	91	89	91	89	87	86
3	102	95	90	86	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	62	58	66	61	58	65	60	57	56
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

POLAR GRAPH



Maximum Candela = 36057.15 Located At Horizontal Angle = 247.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)