



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVLOWT40WBD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] BEGHELLI
 [ISSUEDATE]
 [LUMCAT]
 [LUMINAIRE] NUVHTVLOWT40WBD120-277V
 [MANUFAC] BEGHELLI
 [LAMPCAT]
 [LAMP] 4000K

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	89.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.08
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	7439.454	7439.454	7439.454	7439.454	7439.454	7439.454	7439.454	7439.454	7439.454	7439.454
1	7440.947	7429.855	7416.203	7405.111	7439.241	7441.800	7434.121	7438.387	7448.626	7440.947
2	7431.561	7418.763	7404.258	7393.167	7421.323	7431.561	7421.323	7429.001	7446.066	7438.387
3	7418.763	7402.552	7386.341	7375.249	7403.405	7411.938	7405.965	7419.616	7440.093	7434.974
4	7400.845	7384.634	7361.597	7356.478	7376.955	7386.341	7388.900	7402.552	7423.882	7426.442
5	7382.928	7357.332	7337.707	7327.468	7350.505	7363.304	7362.451	7384.634	7408.524	7413.644
6	7358.184	7332.588	7305.285	7301.872	7313.817	7328.321	7339.413	7356.478	7382.928	7398.286
7	7333.440	7298.459	7276.275	7268.596	7281.394	7298.459	7306.138	7330.881	7361.597	7378.662
8	7297.605	7268.596	7235.321	7240.440	7238.733	7258.357	7275.421	7296.752	7330.028	7347.946
9	7266.890	7229.348	7203.751	7198.632	7202.045	7221.669	7234.467	7267.743	7301.872	7319.790
10	7225.935	7192.660	7158.531	7161.943	7153.411	7183.274	7197.779	7225.082	7260.917	7285.660
11	7191.806	7145.732	7120.989	7115.016	7103.071	7132.934	7150.851	7189.247	7226.788	7245.559
12	7144.026	7107.337	7074.915	7074.915	7059.557	7086.007	7111.603	7143.172	7180.714	7212.283
13	7104.777	7059.557	7036.520	7022.868	7016.042	7045.052	7060.410	7103.071	7143.172	7167.063
14	7053.584	7016.896	6985.327	6981.914	6963.143	6993.005	7019.455	7052.731	7093.686	7127.814
15	7011.776	6961.436	6944.372	6939.252	6917.069	6947.785	6967.409	7010.923	7051.024	7077.474
16	6968.262	6916.215	6902.564	6886.353	6858.196	6890.619	6922.188	6957.170	6998.978	7037.373
17	6916.215	6860.756	6845.398	6828.333	6807.856	6841.132	6864.168	6912.802	6954.610	6984.473
18	6857.343	6813.829	6795.058	6779.700	6744.718	6777.994	6815.535	6853.077	6899.151	6939.252
19	6807.003	6765.195	6731.919	6715.708	6690.965	6724.240	6751.543	6801.884	6852.224	6881.233
20	6740.452	6696.084	6679.020	6661.956	6635.505	6652.570	6696.084	6737.039	6791.645	6833.453
21	6684.139	6635.505	6608.202	6603.937	6562.129	6593.697	6621.000	6682.433	6736.186	6782.259
22	6620.147	6560.422	6544.210	6525.440	6497.284	6515.201	6559.568	6607.350	6661.102	6710.589
23	6531.413	6490.458	6455.476	6437.558	6405.989	6446.943	6475.953	6540.798	6595.404	6645.744
24	6454.623	6394.044	6382.099	6358.208	6324.080	6347.970	6402.576	6451.209	6526.293	6560.422
25	6344.557	6301.896	6271.180	6266.914	6208.895	6260.088	6319.813	6370.154	6426.466	6485.339
26	6245.583	6170.500	6167.086	6137.224	6102.242	6161.967	6201.216	6281.418	6339.438	6377.833
27	6101.389	6051.048	6050.196	6022.039	5952.075	6021.186	6092.003	6152.582	6218.280	6277.152
28	5968.286	5916.239	5880.404	5850.542	5813.853	5891.497	5935.864	6034.838	6104.802	6133.811
29	5770.338	5715.732	5721.705	5690.989	5656.007	5705.494	5793.376	5864.193	5935.864	6003.268
30	5585.189	5527.170	5491.335	5509.253	5428.197	5533.996	5629.557	5707.200	5778.018	5854.808
31	5380.417	5263.525	5279.736	5252.433	5224.277	5339.462	5392.361	5528.024	5597.988	5641.502
32	5092.027	5026.329	4987.081	5024.623	4938.448	5065.577	5179.056	5272.057	5346.288	5445.261
33	4829.235	4695.279	4725.142	4705.518	4682.481	4820.703	4882.135	5039.981	5117.624	5222.570
34	4470.029	4403.478	4441.873	4422.249	4403.478	4478.561	4616.783	4716.610	4798.519	4907.731
35	4163.722	4099.730	4061.335	4048.537	4034.886	4186.759	4330.954	4435.046	4517.809	4628.728
36	3766.121	3703.835	3749.056	3737.965	3728.579	3884.719	3950.417	4057.923	4219.182	4253.310
37	3444.456	3381.318	3429.098	3422.272	3338.657	3495.650	3638.991	3743.937	3832.672	3938.471
38	3125.351	3062.213	3034.057	3109.993	3029.790	3185.930	3249.069	3426.539	3512.714	3537.457
39	2736.282	2679.116	2726.896	2731.163	2659.492	2806.246	2939.349	3034.057	3115.966	3217.499
40	2405.488	2361.974	2338.766	2411.034	2430.573	2566.150	2567.344	2727.750	2803.687	2825.017
41	2074.011	2037.152	2079.813	2084.591	2108.396	2231.431	2340.558	2419.140	2486.800	2522.977
42	1834.341	1801.663	1785.622	1848.846	1871.969	1984.253	2022.221	2153.105	2213.769	2226.141
43	1567.880	1539.639	1578.204	1585.457	1606.787	1705.932	1789.718	1847.225	1899.442	1972.393
44	1382.134	1358.841	1352.783	1400.649	1419.932	1508.752	1532.045	1578.887	1673.253	1687.161
45	1184.528	1166.354	1195.876	1202.275	1219.681	1293.313	1352.100	1391.434	1425.904	1484.265
46	1051.510	1007.996	1031.119	1039.224	1053.132	1112.601	1159.870	1191.012	1256.369	1268.058
47	913.630	902.367	923.015	930.438	943.151	991.444	1002.280	1056.630	1077.448	1120.963
48	822.164	792.472	810.902	817.728	827.710	867.215	897.760	917.384	931.718	966.786
49	728.651	720.460	720.205	743.412	752.371	785.220	789.486	825.833	835.133	865.508
50	666.963	646.401	660.735	666.622	674.898	701.690	718.839	730.784	736.672	759.197
51	603.910	598.620	600.156	616.794	624.217	646.571	646.401	668.329	671.315	674.557
52	562.614	549.475	560.481	566.283	572.512	589.918	599.218	604.678	604.678	619.183
53	520.124	517.052	519.697	533.093	530.533	544.697	550.157	553.570	561.249	561.676

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54	492.309	484.545	493.077	498.367	502.548	514.749	510.824	519.783	516.540	524.390
55	463.385	462.702	465.859	475.671	473.367	482.924	484.459	485.057	487.190	485.824
56	443.931	440.518	447.430	451.525	453.914	461.508	457.071	462.190	456.559	460.228
57	423.198	425.672	428.061	434.802	432.925	438.641	438.641	437.959	431.389	434.119
58	405.280	409.205	414.239	416.628	418.079	422.857	418.676	421.321	414.751	412.703
59	392.397	397.431	398.540	403.489	401.356	405.451	404.513	402.891	396.578	397.943
60	377.380	383.950	387.021	387.960	385.315	389.069	388.301	386.680	383.694	381.646
61	365.776	373.370	372.943	372.858	372.858	376.612	375.759	374.479	368.848	369.872
62	351.271	360.230	361.681	360.998	357.159	360.742	360.230	359.633	357.500	356.305
63	338.729	346.579	347.176	345.726	344.275	348.115	344.702	347.688	343.251	345.214
64	319.958	333.098	334.207	332.671	327.723	331.477	332.245	331.733	328.405	329.258
65	304.856	314.924	314.924	312.962	312.535	315.692	315.095	316.801	314.412	315.351
66	285.232	299.737	299.054	297.092	292.484	295.300	299.822	297.263	296.495	297.774
67	269.618	280.198	278.662	276.700	276.359	278.577	280.027	277.041	282.246	279.601
68	249.909	263.902	258.270	260.233	256.649	257.929	264.584	260.830	263.902	264.499
69	230.455	244.448	241.974	240.182	237.281	237.622	245.387	241.376	245.472	245.387
70	215.012	227.981	222.264	224.312	221.923	222.520	226.872	225.763	230.711	230.455
71	196.582	208.783	206.565	205.285	203.237	203.152	211.684	206.992	212.282	211.514
72	181.736	189.159	187.538	186.344	185.149	185.149	193.852	188.306	197.436	192.999
73	164.075	174.399	172.436	171.754	170.900	170.644	179.091	174.569	179.859	178.323
74	148.973	155.116	153.495	153.153	152.983	153.836	161.344	157.078	161.686	159.553
75	131.993	140.696	135.406	139.161	139.161	139.502	143.939	143.171	147.949	144.792
76	115.953	123.803	122.011	122.096	122.693	123.120	130.714	126.362	130.799	127.642
77	104.093	110.578	106.653	109.724	107.165	108.103	115.526	111.260	118.257	111.687
78	90.271	95.817	94.708	94.964	95.646	96.755	104.093	99.827	103.666	99.742
79	79.776	81.483	80.885	81.227	81.653	83.274	90.100	86.602	89.674	86.090
80	67.063	69.794	67.575	70.391	70.476	73.206	76.619	76.534	79.008	72.950
81	56.825	55.801	57.081	57.507	57.166	61.091	65.357	64.504	65.442	62.626
82	44.453	44.879	44.197	47.439	44.026	49.146	52.900	52.644	55.118	50.255
83	33.958	33.446	35.153	36.177	34.726	39.931	40.357	43.344	42.405	41.125
84	25.682	23.549	25.853	26.621	24.999	29.948	31.399	33.532	31.825	31.569
85	15.102	16.041	18.430	18.771	18.003	21.416	21.757	25.341	24.232	22.269
86	7.423	7.252	9.897	10.153	9.897	12.201	13.140	15.358	14.931	14.761
87	2.730	3.242	4.181	5.290	4.949	5.802	7.252	7.167	7.679	6.570
88	0.683	0.683	1.792	2.560	2.986	3.669	3.498	3.498	2.901	3.072
89	0.597	0.512	0.512	0.597	1.109	1.365	1.621	1.280	1.195	1.280
90	0.512	0.512	0.512	0.512	1.109	1.109	1.109	1.109	1.109	1.109
91	0.512	0.427	0.512	0.512	1.024	1.024	1.024	1.109	1.024	1.024
92	0.512	0.512	0.427	0.427	0.939	1.024	0.939	0.939	0.939	0.939
93	0.427	0.427	0.427	0.427	0.853	0.853	0.939	0.853	0.853	0.853
94	0.427	0.427	0.341	0.427	0.853	0.853	0.853	0.853	0.853	0.853
95	0.341	0.427	0.427	0.341	0.768	0.853	0.853	0.768	0.853	0.768
96	0.341	0.427	0.341	0.341	0.853	0.768	0.768	0.768	0.853	0.853
97	0.341	0.427	0.341	0.341	0.768	0.768	0.768	0.853	0.768	0.768
98	0.341	0.427	0.341	0.341	0.768	0.768	0.768	0.683	0.683	0.683
99	0.341	0.341	0.341	0.341	0.683	0.768	0.683	0.683	0.768	0.683
100	0.341	0.256	0.341	0.256	0.683	0.683	0.683	0.683	0.597	0.683
101	0.341	0.256	0.256	0.341	0.683	0.683	0.683	0.683	0.683	0.683
102	0.341	0.341	0.341	0.256	0.683	0.683	0.683	0.597	0.597	0.597
103	0.256	0.256	0.256	0.341	0.597	0.597	0.683	0.683	0.683	0.597
104	0.256	0.256	0.256	0.256	0.597	0.597	0.597	0.683	0.597	0.597
105	0.256	0.256	0.256	0.256	0.597	0.597	0.597	0.597	0.683	0.597
106	0.341	0.256	0.256	0.256	0.683	0.597	0.597	0.512	0.512	0.683
107	0.341	0.256	0.341	0.256	0.597	0.597	0.597	0.512	0.597	0.597
108	0.256	0.256	0.256	0.256	0.597	0.512	0.683	0.597	0.597	0.512
109	0.256	0.256	0.256	0.341	0.512	0.597	0.597	0.512	0.512	0.597

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110	0.256	0.256	0.256	0.341	0.683	0.597	0.597	0.512	0.597	0.597
111	0.341	0.256	0.341	0.341	0.597	0.597	0.597	0.512	0.597	0.597
112	0.341	0.341	0.256	0.341	0.597	0.597	0.512	0.597	0.597	0.597
113	0.256	0.341	0.341	0.341	0.597	0.512	0.597	0.597	0.597	0.597
114	0.341	0.341	0.341	0.512	0.597	0.512	0.512	0.597	0.597	0.597
115	0.341	0.341	0.341	0.341	0.683	0.512	0.597	0.597	0.683	0.597
116	0.427	0.341	0.341	0.597	0.597	0.597	0.597	0.597	0.597	0.597
117	0.427	0.341	0.341	0.427	0.597	0.597	0.597	0.597	0.597	0.512
118	0.341	0.427	0.341	0.427	0.683	0.683	0.597	0.597	0.683	0.683
119	0.427	0.512	0.427	0.341	0.683	0.597	0.683	0.683	0.597	0.597
120	0.427	0.512	0.512	0.256	0.768	0.683	0.683	0.683	0.683	0.683
121	0.512	0.512	0.512	0.512	0.683	0.683	0.683	0.683	0.683	0.683
122	0.512	0.512	0.512	0.256	0.768	0.768	0.768	0.768	0.683	0.683
123	0.597	0.597	0.597	0.427	0.853	0.768	0.768	0.768	0.853	0.683
124	0.683	0.768	0.683	0.683	0.853	0.853	0.853	0.768	0.768	0.768
125	0.683	0.683	0.768	0.512	0.939	0.939	0.853	0.853	0.939	0.853
126	0.853	0.768	0.768	0.683	1.024	1.024	0.939	0.939	0.939	0.853
127	0.939	0.853	0.939	0.853	1.109	1.024	1.109	1.024	1.024	0.939
128	0.939	0.939	0.939	1.024	1.280	1.109	1.109	1.109	1.109	1.024
129	1.024	1.109	1.024	1.024	1.280	1.195	1.195	1.195	1.195	1.109
130	1.195	1.195	1.195	1.195	1.365	1.280	1.195	1.280	1.280	1.195
131	1.280	1.280	1.280	1.280	1.536	1.450	1.365	1.365	1.280	1.365
132	1.365	1.365	1.365	1.365	1.621	1.536	1.450	1.365	1.450	1.365
133	1.536	1.450	1.536	1.536	1.706	1.536	1.536	1.536	1.536	1.450
134	1.621	1.621	1.536	1.621	1.877	1.706	1.621	1.706	1.706	1.536
135	1.792	1.792	1.706	1.621	1.877	1.706	1.792	1.792	1.877	1.706
136	1.962	1.962	1.792	1.877	2.048	1.877	1.877	1.877	1.877	1.706
137	2.048	2.048	1.962	2.048	2.133	1.962	2.048	2.048	2.048	1.877
138	2.218	2.133	2.048	2.133	2.389	2.133	2.133	2.133	2.304	2.048
139	2.304	2.304	2.218	2.218	2.474	2.218	2.304	2.304	2.389	2.218
140	2.474	2.389	2.304	2.304	2.645	2.389	2.389	2.389	2.474	2.304
141	2.560	2.560	2.474	2.389	2.730	2.474	2.474	2.560	2.560	2.389
142	2.730	2.730	2.560	2.560	2.816	2.645	2.645	2.645	2.730	2.474
143	2.901	2.730	2.730	2.645	2.986	2.730	2.730	2.816	2.816	2.645
144	2.901	2.901	2.816	2.816	3.072	2.901	2.901	2.901	2.986	2.730
145	3.157	3.072	3.072	2.986	3.328	2.986	2.986	3.072	3.072	2.816
146	3.242	3.157	3.242	3.072	3.413	3.157	3.157	3.157	3.157	2.986
147	3.498	3.413	3.413	3.242	3.584	3.242	3.242	3.328	3.413	3.157
148	3.584	3.584	3.498	3.328	3.839	3.413	3.328	3.498	3.584	3.328
149	3.754	3.754	3.669	3.754	3.839	3.584	3.584	3.669	3.754	3.413
150	3.839	3.925	3.925	3.584	4.095	3.669	3.584	3.754	3.839	3.584
151	4.095	4.010	3.754	4.522	4.181	3.839	3.754	3.925	4.010	3.754
152	4.181	4.095	4.522	4.010	4.266	3.925	3.925	3.925	4.095	3.839
153	4.266	4.266	4.351	4.095	4.351	4.095	4.010	4.095	4.266	3.839
154	4.437	4.351	4.181	4.181	4.437	4.095	4.181	4.181	4.351	3.925
155	4.522	4.522	4.949	4.266	4.607	4.181	4.266	4.266	4.351	4.095
156	4.607	4.522	4.437	4.351	4.607	4.266	4.266	4.351	4.437	4.181
157	4.693	4.522	4.522	4.437	4.693	4.351	4.351	4.522	4.607	4.266
158	4.778	4.607	3.584	4.522	4.863	4.437	4.351	4.607	4.607	4.351
159	4.863	4.693	4.266	4.522	4.863	4.522	4.437	4.607	4.778	4.522
160	4.949	4.863	4.522	4.693	4.949	4.607	4.522	4.693	4.863	4.607
161	4.949	4.863	4.607	4.607	4.949	4.693	4.607	4.778	4.863	4.607
162	5.034	4.949	4.607	4.778	4.949	4.693	4.607	4.863	4.949	4.607
163	5.119	5.034	4.778	4.778	5.034	4.778	4.607	4.949	4.949	4.693
164	5.119	5.119	4.181	4.863	5.119	4.863	4.778	5.034	5.119	4.863
165	5.205	5.205	4.778	4.863	5.119	4.863	4.863	5.119	5.119	4.863

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CANDELA TABULATION - (Cont.)

166	5.290	5.205	5.119	5.034	5.205	4.949	4.778	5.290	5.205	5.034
167	5.290	5.290	4.266	5.034	5.205	5.034	4.949	5.205	5.290	5.034
168	5.375	5.290	5.205	5.205	5.375	5.119	5.034	5.290	5.461	5.205
169	5.461	5.461	5.375	5.375	5.375	5.205	5.205	5.375	5.375	5.205
170	5.546	5.546	5.375	5.461	5.375	5.375	5.290	5.461	5.461	5.375
171	5.631	5.631	5.375	5.546	5.546	5.375	5.375	5.461	5.546	5.375
172	5.631	5.802	5.461	5.631	5.546	5.461	5.375	5.631	5.546	5.461
173	5.802	5.887	6.143	5.717	5.546	5.546	5.546	5.631	5.717	5.546
174	5.973	5.887	5.802	5.717	5.631	5.546	5.631	5.631	5.717	5.546
175	5.973	5.973	5.802	5.887	5.717	5.631	5.717	5.802	5.802	5.546
176	5.973	6.058	5.887	5.973	5.887	5.802	5.802	5.802	5.887	5.717
177	5.973	6.058	5.973	5.973	5.973	5.887	5.887	5.973	5.887	5.887
178	6.143	6.058	6.058	5.973	6.058	6.058	5.887	6.058	6.058	5.973
179	6.143	6.058	5.973	6.058	6.143	5.973	5.973	6.058	6.143	5.973
180	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047	6.047

Vert. Angles Horizontal 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	7439.454	7439.454	7439.454	7439.454	7439.454	7439.454	7439.454
1	7435.828	7425.589	7463.984	7458.012	7443.506	7440.947	7440.947
2	7440.947	7429.855	7470.810	7458.012	7441.800	7436.681	7431.561
3	7440.093	7428.148	7470.810	7457.158	7434.974	7426.442	7418.763
4	7429.855	7421.323	7468.250	7454.599	7425.589	7413.644	7400.845
5	7419.616	7414.497	7458.012	7444.360	7409.377	7394.020	7382.928
6	7404.258	7399.139	7446.919	7428.148	7391.459	7376.102	7358.184
7	7388.047	7384.634	7431.561	7410.230	7365.010	7349.652	7333.440
8	7363.304	7360.744	7415.351	7383.781	7341.120	7324.055	7297.605
9	7341.120	7337.707	7388.900	7362.451	7312.963	7291.633	7266.890
10	7308.698	7305.285	7363.304	7330.881	7284.807	7262.624	7225.935
11	7278.834	7276.275	7326.615	7301.872	7249.825	7221.669	7191.806
12	7236.173	7237.880	7295.899	7260.917	7215.696	7185.833	7144.026
13	7200.338	7206.311	7254.944	7222.522	7169.622	7138.906	7104.777
14	7153.411	7162.796	7218.256	7172.182	7131.228	7101.365	7053.584
15	7115.016	7115.870	7172.182	7132.080	7090.272	7048.465	7011.776
16	7063.823	7076.621	7132.080	7080.887	7042.492	7006.657	6968.262
17	7022.868	7029.694	7080.887	7039.933	7003.244	6953.757	6916.215
18	6968.262	6986.179	7038.226	6987.886	6947.785	6907.683	6857.343
19	6922.188	6927.308	6981.060	6940.105	6885.499	6847.104	6807.003
20	6859.903	6878.674	6929.867	6888.060	6829.187	6795.058	6740.452
21	6804.443	6812.122	6875.261	6818.095	6772.874	6723.388	6684.139
22	6730.213	6753.250	6801.030	6755.810	6698.644	6657.689	6620.147
23	6664.515	6673.900	6737.039	6670.488	6631.239	6589.432	6531.413
24	6595.404	6604.790	6649.157	6597.110	6539.091	6493.871	6454.623
25	6496.430	6506.669	6570.661	6493.871	6457.182	6409.402	6344.557
26	6408.548	6417.081	6462.301	6398.310	6341.144	6289.097	6245.583
27	6287.391	6313.841	6362.475	6263.501	6232.785	6176.472	6101.389
28	6173.913	6170.500	6221.693	6141.490	6109.921	6012.654	5968.286
29	6006.681	6039.957	6093.709	6004.975	5928.185	5860.780	5770.338
30	5853.101	5845.422	5943.543	5803.614	5760.953	5685.870	5585.189
31	5678.191	5665.393	5726.825	5621.024	5522.905	5436.729	5380.417
32	5429.903	5464.032	5528.024	5357.379	5305.333	5209.772	5092.027
33	5202.093	5179.056	5248.167	5119.331	5059.605	4892.374	4829.235
34	4881.282	4919.677	4994.760	4854.832	4714.903	4609.957	4470.029
35	4596.306	4560.470	4717.463	4492.212	4416.275	4231.979	4163.722
36	4292.559	4255.017	4336.926	4179.934	4022.941	3916.288	3766.121

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CANDELA TABULATION - (Cont.)

37	3895.811	3933.352	4013.555	3851.443	3696.156	3593.770	3444.456
38	3569.027	3525.512	3680.799	3436.777	3367.666	3185.930	3125.351
39	3163.746	3196.168	3266.986	3106.580	2963.239	2868.531	2736.282
40	2845.494	2796.861	2941.908	2713.245	2654.373	2528.096	2405.488
41	2521.697	2550.024	2521.612	2388.082	2263.512	2183.736	2074.011
42	2246.789	2208.650	2245.424	2058.483	2006.948	1873.675	1834.341
43	1931.097	1958.400	1931.097	1821.543	1719.156	1651.411	1567.880
44	1704.993	1677.690	1704.310	1557.898	1516.004	1410.205	1382.134
45	1457.388	1479.572	1458.924	1377.441	1298.774	1245.021	1184.528
46	1285.379	1267.546	1251.591	1182.053	1151.593	1073.012	1051.510
47	1104.325	1091.441	1111.151	1052.705	996.478	957.486	913.630
48	954.670	973.611	964.653	916.446	893.494	838.973	822.164
49	856.208	850.321	866.191	810.902	787.609	760.562	728.651
50	754.077	768.497	764.657	736.245	717.559	679.677	666.963
51	686.502	684.028	696.997	659.199	644.865	626.435	603.910
52	616.794	628.313	626.862	607.409	595.890	571.403	562.614
53	570.549	569.782	579.764	553.997	545.465	535.055	520.124
54	522.684	522.598	530.789	517.735	503.742	497.002	492.309
55	490.944	490.944	497.770	479.596	475.927	471.576	463.385
56	458.095	457.156	462.958	453.743	446.491	444.699	443.931
57	430.706	434.290	439.068	425.758	425.672	425.843	423.198
58	412.362	409.888	412.959	405.878	402.891	405.024	405.280
59	392.311	392.311	394.530	383.438	387.021	386.680	392.397
60	378.063	372.858	374.052	363.728	368.677	372.602	377.380
61	361.766	355.111	359.206	349.053	355.026	355.879	365.776
62	349.394	341.459	341.289	331.477	337.961	342.654	351.271
63	333.866	324.139	326.613	317.399	323.030	325.931	338.729
64	316.375	308.781	306.819	298.457	303.235	310.658	319.958
65	302.041	290.437	288.133	283.270	287.962	292.229	304.856
66	283.952	275.847	272.946	265.267	269.277	277.468	285.232
67	269.703	257.844	254.260	250.933	250.591	258.953	269.618
68	251.018	239.670	239.073	233.271	235.489	244.448	249.909
69	233.015	225.507	221.240	219.619	217.401	226.274	230.455
70	218.339	207.930	207.248	202.726	203.408	208.527	215.012
71	201.019	194.108	190.354	186.002	186.173	194.449	196.582
72	186.685	177.214	177.214	173.289	173.460	177.300	181.736
73	169.706	161.174	161.003	156.737	156.396	163.392	164.075
74	152.129	147.949	144.195	144.195	140.270	146.754	148.973
75	138.393	131.226	131.482	129.093	127.898	134.041	131.993
76	122.096	119.110	116.721	117.489	113.564	118.939	115.953
77	110.066	104.690	105.544	103.666	102.643	104.861	104.093
78	95.731	91.039	91.977	90.697	89.674	93.854	90.271
79	82.251	80.629	79.350	80.373	77.046	80.715	79.776
80	71.841	67.746	69.623	67.319	67.405	69.794	67.063
81	58.872	57.678	57.763	57.422	55.459	56.569	56.825
82	48.463	44.965	48.463	44.965	45.989	43.770	44.453
83	37.542	34.470	37.883	33.788	35.494	34.555	33.958
84	27.815	26.962	27.986	25.682	26.791	23.976	25.682
85	20.221	17.662	19.795	16.126	16.211	16.211	15.102
86	11.348	10.665	10.495	9.129	7.764	7.167	7.423
87	5.802	4.863	5.034	3.839	3.669	2.560	2.730
88	2.474	2.389	2.304	1.195	1.024	0.768	0.683
89	1.195	1.109	0.512	0.597	0.512	0.512	0.597
90	1.109	1.024	0.427	0.427	0.512	0.512	0.512
91	0.256	1.024	0.427	0.427	0.427	0.427	0.512
92	1.109	0.939	0.427	0.427	0.427	0.512	0.512

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CANDELA TABULATION - (Cont.)

93	0.597	0.853	0.427	0.341	0.427	0.427	0.427
94	0.171	0.853	0.341	0.341	0.427	0.427	0.427
95	0.939	0.768	0.341	0.341	0.427	0.427	0.341
96	0.597	0.768	0.256	0.341	0.341	0.256	0.341
97	0.256	0.768	0.341	0.341	0.341	0.341	0.341
98	0.853	0.768	0.256	0.341	0.341	0.256	0.341
99	0.768	0.853	0.256	0.341	0.256	0.256	0.341
100	0.683	0.683	0.256	0.341	0.341	0.341	0.341
101	0.512	0.683	0.256	0.256	0.256	0.341	0.341
102	0.512	0.597	0.256	0.341	0.256	0.341	0.341
103	0.597	0.597	0.256	0.256	0.256	0.341	0.256
104	0.597	0.597	0.171	0.341	0.256	0.256	0.256
105	0.683	0.597	0.256	0.256	0.256	0.256	0.256
106	0.597	0.597	0.171	0.256	0.341	0.256	0.341
107	0.597	0.597	0.256	0.341	0.256	0.341	0.341
108	0.597	0.597	0.256	0.256	0.256	0.341	0.256
109	0.597	0.597	0.256	0.256	0.341	0.256	0.256
110	0.597	0.597	0.256	0.341	0.256	0.256	0.256
111	0.597	0.597	0.256	0.341	0.341	0.341	0.341
112	0.597	0.597	0.256	0.256	0.341	0.256	0.341
113	0.597	0.683	0.256	0.341	0.341	0.256	0.256
114	0.597	0.597	0.256	0.256	0.341	0.256	0.341
115	0.683	0.597	0.256	0.341	0.341	0.256	0.341
116	0.597	0.683	0.341	0.341	0.427	0.341	0.427
117	0.597	0.683	0.256	0.427	0.427	0.341	0.427
118	0.683	0.597	0.341	0.427	0.427	0.427	0.341
119	0.683	0.683	0.341	0.427	0.427	0.427	0.427
120	0.683	0.683	0.427	0.427	0.512	0.427	0.427
121	0.683	0.683	0.512	0.427	0.427	0.427	0.512
122	0.683	0.683	0.427	0.512	0.512	0.512	0.512
123	0.768	0.768	0.512	0.597	0.512	0.512	0.597
124	0.853	0.853	0.512	0.512	0.597	0.683	0.683
125	0.853	0.853	0.597	0.683	0.597	0.768	0.683
126	0.939	0.939	0.683	0.768	0.768	0.853	0.853
127	1.024	0.939	0.768	0.853	0.853	0.939	0.939
128	1.024	1.109	0.853	0.853	0.853	0.939	0.939
129	1.109	1.195	0.939	0.939	1.024	1.024	1.024
130	1.195	1.280	1.024	1.109	1.109	1.109	1.195
131	1.280	1.365	1.195	1.195	1.195	1.195	1.280
132	1.450	1.450	1.195	1.280	1.280	1.280	1.365
133	1.450	1.621	1.450	1.450	1.365	1.365	1.536
134	1.621	1.621	1.536	1.536	1.450	1.536	1.621
135	1.706	1.706	1.621	1.621	1.621	1.621	1.792
136	1.877	1.877	1.706	1.706	1.706	1.792	1.962
137	1.877	1.962	1.792	1.877	1.877	1.877	2.048
138	2.048	2.133	1.962	2.048	1.962	2.048	2.218
139	2.133	2.218	2.048	2.133	2.133	2.218	2.304
140	2.304	2.389	2.218	2.304	2.218	2.218	2.474
141	2.389	2.474	2.389	2.389	2.304	2.389	2.560
142	2.560	2.645	2.560	2.474	2.474	2.474	2.730
143	2.645	2.730	2.645	2.645	2.560	2.560	2.901
144	2.816	2.901	2.730	2.730	2.730	2.645	2.901
145	2.986	2.986	2.986	2.986	2.901	2.901	3.157
146	3.072	3.157	3.072	3.157	3.072	2.986	3.242
147	3.242	3.328	3.328	3.242	3.157	3.072	3.498
148	3.328	3.413	3.328	3.498	3.242	3.328	3.584

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CANDELA TABULATION - (Cont.)

149	3.498	3.584	3.584	3.584	3.498	3.413	3.754
150	3.584	3.669	3.754	3.754	3.584	3.584	3.839
151	3.669	3.839	3.839	3.839	3.754	3.669	4.095
152	3.839	4.010	4.010	4.010	3.839	3.839	4.181
153	4.010	4.095	4.181	4.181	4.010	3.925	4.266
154	4.095	4.181	4.266	4.266	4.095	4.010	4.437
155	4.181	4.351	4.437	4.351	4.181	4.181	4.522
156	4.181	4.437	4.522	4.437	4.351	4.181	4.607
157	4.351	4.522	4.522	4.522	4.351	4.351	4.693
158	4.351	4.522	4.693	4.607	4.351	4.351	4.778
159	4.437	4.607	4.778	4.693	4.522	4.437	4.863
160	4.522	4.693	4.778	4.778	4.607	4.607	4.949
161	4.607	4.693	4.863	4.863	4.607	4.693	4.949
162	4.607	4.863	4.863	4.949	4.693	4.693	5.034
163	4.607	4.863	4.949	4.949	4.778	4.778	5.119
164	4.693	5.034	4.949	5.034	4.693	4.863	5.119
165	4.778	5.034	5.034	5.119	4.863	4.863	5.205
166	4.863	5.119	5.119	5.119	4.949	4.949	5.290
167	5.034	5.205	5.119	5.205	5.034	5.034	5.290
168	5.034	5.290	5.290	5.290	5.119	5.119	5.375
169	5.034	5.290	5.290	5.461	5.290	5.205	5.461
170	5.205	5.461	5.375	5.461	5.461	5.375	5.546
171	5.375	5.461	5.546	5.546	5.461	5.461	5.631
172	5.461	5.546	5.546	5.631	5.631	5.546	5.631
173	5.546	5.631	5.631	5.717	5.631	5.631	5.802
174	5.546	5.631	5.802	5.887	5.717	5.631	5.973
175	5.717	5.887	5.802	5.887	5.802	5.717	5.973
176	5.802	5.887	5.887	5.973	5.887	5.802	5.973
177	5.887	5.973	6.058	5.973	5.973	5.973	5.973
178	6.058	6.058	6.143	5.973	5.973	5.973	6.143
179	6.058	6.058	6.143	6.058	5.973	6.058	6.143
180	6.047	6.047	6.047	6.047	6.047	6.047	6.047

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2684.32	N.A.	26.10
0-30	5600.48	N.A.	54.50
0-40	8246.08	N.A.	80.30
0-60	9790.52	N.A.	95.30
0-80	10237.11	N.A.	99.60
0-90	10263.82	N.A.	99.90
10-90	9563.14	N.A.	93.10
20-40	5561.76	N.A.	54.10
20-50	6659.16	N.A.	64.80
40-70	1843.79	N.A.	17.90
60-80	446.59	N.A.	4.30
70-80	147.23	N.A.	1.40
80-90	26.71	N.A.	0.30
90-110	1.13	N.A.	0.00
90-120	1.60	N.A.	0.00
90-130	2.33	N.A.	0.00
90-150	5.55	N.A.	0.10
90-180	9.46	N.A.	0.10
110-180	8.34	N.A.	0.10
0-180	10273.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	700.67
10-20	1983.65
20-30	2916.16
30-40	2645.61
40-50	1097.4
50-60	447.04
60-70	299.36
70-80	147.23
80-90	26.71
90-100	0.66
100-110	0.47
110-120	0.48
120-130	0.72
130-140	1.34
140-150	1.88
150-160	1.97
160-170	1.41
170-180	0.54

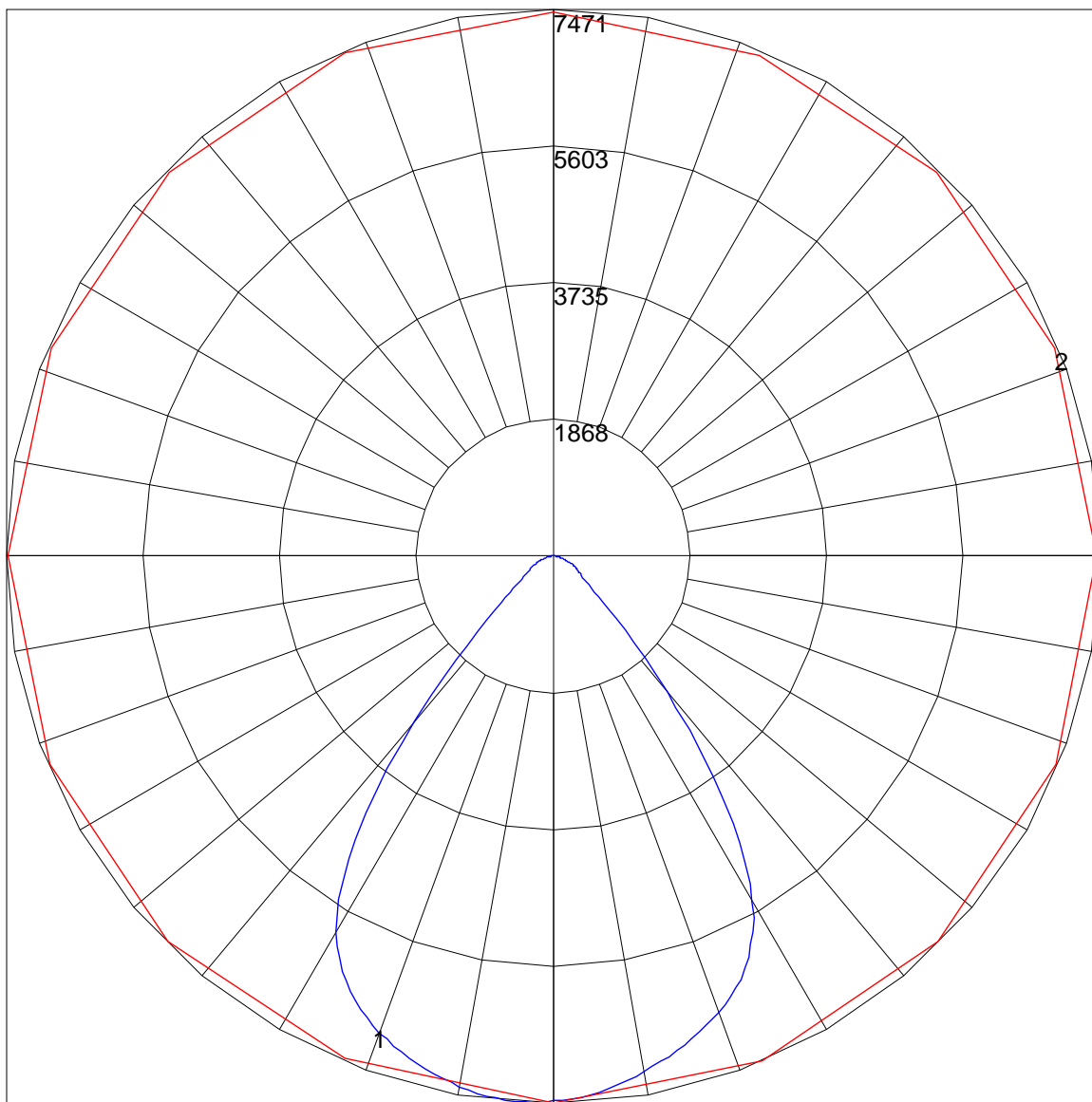
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	91	89	86	89	86	84	82
3	99	91	85	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	73	70	68
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 7470.81 Located At Horizontal Angle = 270, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)