



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NLSR48MRA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 8,387P3
[TESTLAB] CSA Group
[ISSUEDATE] 10/29/2015 3:36:15 PM
[MANUFAC] LAMAR LIGHTING CO., INC.
[LUMINAIRE] NLSR48MRA40
[AMBIENT] 24.6 deg C
[POWERFACTOR] 0.9954
[ATHD] 4.93%
[CURRENT] 0.2759
[VOLTAGE] 120.05
[STABILIZATION] 35:23.2 Stable
[POWER VARIATION] 0.24 %
[LIGHT VARIATION] 0.48 %
[Lumens] 3,717

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3717
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	33.12
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.16 ft
Luminous Width (90-270)	3.75 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8373	11846	20042
55	6349	10568	21148
65	4469	9334	22919
75	2612	8273	27467
85	799	7548	49992

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713
2.5	1004.802	1004.134	1003.018	1004.401	1006.386	1009.019	1006.774	1004.796	1004.061	1003.152
5.0	999.229	997.712	997.217	999.215	1002.757	1004.969	1003.372	1001.855	1001.715	1000.706
7.5	990.100	988.763	988.449	991.356	995.353	998.707	998.407	998.012	998.333	997.906
10.0	977.402	976.613	976.961	980.830	986.437	991.189	991.911	993.247	994.664	994.290
12.5	961.984	961.216	961.704	967.157	974.809	981.472	984.780	987.380	989.919	990.220
15.0	942.697	942.650	944.081	951.372	961.350	970.184	975.671	980.590	984.012	984.780
17.5	921.058	921.365	923.724	933.294	945.685	958.008	965.346	971.975	976.821	978.391
20.0	895.996	897.567	901.149	913.252	928.402	943.252	953.905	962.305	969.022	970.699
22.5	868.563	870.848	875.774	891.539	909.403	927.306	940.545	951.385	959.371	961.410
25.0	838.262	841.644	848.454	867.019	888.411	909.055	925.268	938.935	948.291	950.998
27.5	805.575	810.788	819.763	840.581	865.489	888.919	908.614	924.920	935.406	939.068
30.0	772.013	777.674	788.988	813.194	840.508	868.135	890.329	909.175	921.913	926.083
32.5	737.101	741.659	756.589	783.856	814.845	845.393	870.975	892.334	906.268	911.140
35.0	699.563	705.511	721.931	752.653	787.017	820.706	850.285	874.270	889.414	894.820
37.5	661.396	668.701	686.899	720.294	759.296	795.504	828.097	855.170	871.403	876.402
40.0	623.531	630.848	653.190	688.803	728.641	769.942	804.994	833.557	851.020	857.061
42.5	584.495	592.842	618.953	655.275	698.313	742.535	781.049	810.862	830.303	836.144
45.0	545.059	554.990	580.058	621.866	667.665	714.994	755.994	787.211	806.631	812.653
47.5	506.832	516.008	544.284	587.503	636.095	686.170	728.761	761.668	782.172	788.514
50.0	467.790	478.215	508.656	553.600	604.558	656.952	701.007	735.244	754.852	761.855
52.5	429.343	441.639	473.364	520.492	573.468	626.070	672.350	706.587	727.257	733.793
55.0	391.784	404.261	438.178	487.117	542.539	596.792	642.891	677.235	696.950	703.580
57.5	355.502	368.908	403.212	454.050	510.655	565.569	612.470	646.794	665.847	672.083
60.0	320.650	334.564	370.726	422.499	479.291	534.961	581.829	615.892	633.789	639.690
62.5	285.772	301.062	338.507	391.524	448.576	504.513	550.632	582.617	600.414	606.489
65.0	252.283	267.748	308.033	361.390	418.516	474.032	519.450	550.124	567.454	572.559
67.5	218.367	235.943	278.207	332.733	389.706	444.807	488.460	517.846	532.802	537.300
70.0	187.492	206.465	249.396	304.591	361.069	415.115	457.084	485.406	499.568	503.798
72.5	157.204	177.668	222.350	277.999	334.798	386.551	426.268	452.693	465.605	469.895
75.0	129.216	150.942	197.463	252.383	308.180	358.088	396.669	421.637	434.388	437.690
77.5	102.049	125.246	173.511	227.757	283.633	332.272	367.973	391.229	401.902	405.718
80.0	76.941	102.417	150.648	205.529	259.588	305.894	340.619	361.410	372.016	374.656
82.5	53.959	81.793	131.127	185.146	237.006	282.016	314.569	335.005	343.439	346.286
85.0	32.733	64.143	113.437	166.300	216.269	259.227	289.875	309.249	317.309	320.162
87.5	12.785	49.468	98.026	149.104	196.768	237.093	266.411	283.927	292.595	295.095
90.0	0.261	37.786	84.179	133.333	179.104	217.639	245.259	261.178	269.164	271.323
92.5	0.241	30.247	72.397	118.944	162.257	198.826	224.495	240.474	248.019	250.178
95.0	0.134	23.150	62.680	106.360	146.966	181.584	206.197	220.753	228.365	230.216
97.5	0.087	18.291	54.279	94.718	133.353	165.598	188.614	202.809	209.946	212.292
100.0	0.020	15.231	47.349	84.994	120.715	150.969	172.889	186.603	193.105	195.277
102.5	0.114	12.778	41.221	75.772	109.240	137.743	158.294	171.078	177.694	179.519
105.0	0.000	11.067	36.429	67.712	98.695	125.360	145.001	157.679	163.740	165.879
107.5	0.020	9.710	32.172	60.815	89.492	114.152	132.651	144.433	150.882	153.134
110.0	0.000	7.819	28.643	54.634	80.911	104.235	121.764	132.658	139.167	141.198
112.5	0.007	5.046	25.549	49.093	73.219	94.912	111.345	122.132	128.167	130.085
115.0	0.013	3.248	23.043	44.014	66.295	86.204	101.575	112.134	118.015	119.686
117.5	0.000	2.673	20.737	39.804	59.880	78.305	92.907	102.871	108.492	110.163
120.0	0.067	2.346	18.679	36.068	54.339	71.415	84.794	94.184	99.791	101.334
122.5	0.167	2.072	16.808	32.453	49.300	64.725	77.429	86.304	91.350	93.509
125.0	0.301	1.791	14.582	29.265	44.315	58.657	70.466	78.532	83.558	85.155
127.5	0.334	1.738	11.194	26.672	40.098	53.237	63.996	71.775	76.333	78.098
130.0	0.334	1.684	7.772	23.918	36.162	48.131	57.835	64.992	69.530	71.154
132.5	0.495	1.403	5.413	21.446	32.673	43.313	52.321	58.670	63.041	64.585

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CANDELA TABULATION - (Cont.)

135.0	0.662	1.230	4.625	18.986	29.205	39.062	47.195	53.157	56.892	58.135
137.5	0.655	0.942	4.284	14.903	25.897	34.859	42.143	47.783	51.352	52.328
140.0	0.675	0.822	3.602	10.439	23.096	30.822	37.759	42.738	45.959	46.761
142.5	0.922	1.002	3.482	7.144	20.002	27.494	33.669	38.147	41.014	41.669
145.0	1.016	0.989	3.174	5.707	15.324	24.286	29.652	33.903	36.349	36.810
147.5	1.149	1.163	2.820	4.999	10.192	20.370	25.903	29.519	31.778	31.657
150.0	1.196	1.190	2.352	4.444	6.676	14.562	22.087	25.623	27.454	27.581
152.5	1.236	1.276	1.951	3.883	5.674	9.156	16.126	21.071	23.390	23.177
155.0	1.276	1.317	1.577	3.375	5.012	6.429	9.938	14.388	17.396	17.282
157.5	1.410	1.444	1.444	2.854	4.177	5.440	6.670	8.421	10.419	11.020
160.0	1.504	1.497	1.504	2.352	3.569	4.544	5.513	6.302	6.676	6.910
162.5	1.597	1.550	1.550	1.738	2.680	3.676	4.411	5.026	5.400	5.640
165.0	1.671	1.571	1.550	1.524	2.072	2.820	3.502	3.963	4.210	4.384
167.5	1.584	1.871	1.631	1.564	1.577	1.871	2.673	2.900	3.181	2.820
170.0	1.845	1.704	1.684	1.664	1.631	1.664	1.724	1.971	2.159	1.784
172.5	1.718	1.738	1.818	1.818	1.738	1.778	1.671	1.744	1.731	1.704
175.0	1.931	1.858	1.951	1.898	1.925	2.005	1.918	1.911	1.878	1.871
177.5	2.272	2.252	2.105	2.139	2.119	1.998	2.052	2.052	2.058	2.078
180.0	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713
2.5	1001.194	999.122	996.596	993.394	992.766	996.696	1000.619	1005.337	1006.286	1006.126
5.0	998.761	996.729	994.237	990.200	988.863	992.459	996.114	1000.392	1002.296	1002.036
7.5	996.188	993.401	989.779	985.054	983.149	985.783	988.429	992.265	994.998	994.885
10.0	992.405	989.164	984.493	978.478	974.642	976.065	978.151	981.666	984.152	985.134
12.5	988.061	983.858	978.017	969.844	964.143	963.809	964.671	967.104	970.599	971.915
15.0	982.347	976.908	969.710	959.585	951.773	948.879	947.783	948.391	952.829	954.941
17.5	975.611	969.336	960.287	947.375	937.705	930.641	928.289	928.295	933.014	935.540
20.0	967.404	960.060	949.086	934.056	920.884	911.775	906.422	904.778	909.931	912.356
22.5	957.934	949.307	936.342	918.498	902.185	889.815	882.082	878.701	883.319	886.700
25.0	947.215	936.683	921.806	901.189	881.768	865.903	854.134	849.322	854.669	858.705
27.5	934.263	923.049	905.974	881.795	859.547	839.966	825.885	817.866	824.001	828.759
30.0	921.485	907.632	888.498	861.793	835.642	812.586	795.163	784.424	790.285	797.115
32.5	906.649	891.579	870.113	840.274	810.227	783.354	762.998	749.625	755.079	762.878
35.0	889.681	873.742	849.730	817.150	782.833	753.067	729.002	712.949	718.402	727.465
37.5	870.748	853.807	827.255	792.089	754.477	720.975	693.983	674.522	680.296	690.528
40.0	851.127	833.170	804.713	765.865	725.680	687.554	657.921	637.505	642.811	653.076
42.5	829.848	811.236	780.635	740.396	695.092	654.620	621.579	597.908	603.528	613.934
45.0	806.698	787.237	755.386	712.896	664.431	620.777	583.920	559.548	563.484	575.874
47.5	781.650	761.194	729.543	684.814	633.695	586.834	547.064	521.147	524.382	536.652
50.0	754.771	734.562	701.708	655.094	602.406	552.697	510.628	482.807	486.469	498.458
52.5	726.683	706.426	673.132	626.391	570.427	519.396	474.426	445.462	448.195	460.953
55.0	697.231	677.396	643.272	597.032	539.585	487.224	438.832	408.438	411.265	424.424
57.5	666.355	646.433	613.426	565.856	509.031	452.693	404.582	372.791	374.482	388.476
60.0	634.076	615.030	582.169	535.028	478.910	422.125	371.261	336.716	338.066	352.515
62.5	600.581	582.611	550.332	504.399	448.209	389.666	339.797	303.909	303.261	318.391
65.0	567.333	550.305	518.728	474.132	418.135	360.608	308.788	270.461	268.884	285.110
67.5	532.682	518.280	487.665	443.811	389.078	332.025	279.242	239.398	235.970	253.105
70.0	499.949	484.785	456.395	414.039	360.434	304.364	249.844	207.220	203.992	223.246
72.5	466.226	452.559	426.549	385.014	334.270	277.525	222.778	178.523	174.166	194.388
75.0	434.161	421.811	396.222	358.102	307.766	252.557	197.262	151.450	145.435	167.803
77.5	402.223	391.597	368.093	332.232	282.718	228.351	173.284	125.814	118.236	141.893
80.0	372.283	362.406	340.906	306.242	259.401	205.516	150.648	102.805	93.148	119.158

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CANDELA TABULATION - (Cont.)

82.5	344.041	334.758	314.816	281.722	236.892	185.386	131.060	81.112	69.857	97.592
85.0	318.238	308.922	289.501	258.579	216.195	165.598	112.595	63.261	47.877	78.305
87.5	293.043	284.408	266.578	237.186	196.460	148.182	96.670	48.078	27.307	61.945
90.0	269.559	262.241	245.112	217.619	178.784	132.584	82.836	36.302	9.390	47.596
92.5	248.307	241.183	224.930	198.712	161.889	118.296	71.060	27.374	6.509	36.563
95.0	227.864	221.287	206.171	181.236	147.200	105.371	61.243	21.239	5.487	28.369
97.5	210.220	203.123	189.129	165.571	133.018	93.903	52.842	16.881	4.464	22.274
100.0	193.600	186.937	173.050	150.782	120.174	83.858	45.839	13.961	3.255	17.382
102.5	178.383	171.639	158.461	137.529	108.779	74.629	40.165	11.749	2.125	13.680
105.0	164.121	157.739	145.034	125.353	98.380	66.957	35.273	10.024	1.109	10.733
107.5	151.283	144.994	132.905	114.039	88.877	59.840	31.036	8.668	0.622	8.661
110.0	139.528	133.353	121.564	103.827	80.323	53.591	27.073	6.295	0.287	7.044
112.5	128.160	122.653	111.279	92.767	71.428	46.560	23.116	3.622	0.187	5.246
115.0	118.049	112.241	101.742	84.072	64.832	40.994	20.082	2.479	0.167	3.121
117.5	108.432	103.025	93.128	76.193	56.017	34.845	17.683	1.965	0.114	1.885
120.0	99.897	94.551	83.825	69.129	48.492	30.368	14.723	1.798	0.067	1.370
122.5	91.624	86.344	74.977	60.114	42.063	25.536	12.798	1.611	0.134	0.982
125.0	84.019	78.853	68.060	52.194	36.035	22.642	10.947	1.143	0.307	0.528
127.5	76.661	71.795	60.114	44.529	30.020	19.742	8.280	1.103	0.147	0.307
130.0	69.670	64.838	51.867	38.461	26.378	16.621	5.534	0.982	0.234	0.334
132.5	63.261	56.986	45.264	32.546	23.584	14.629	4.057	0.822	0.274	0.307
135.0	56.511	49.788	37.959	28.503	19.989	12.631	3.656	0.802	0.421	0.521
137.5	50.664	43.680	32.292	25.342	17.309	11.107	3.489	0.648	0.548	0.555
140.0	44.415	36.730	25.509	22.188	15.752	8.554	3.188	0.708	0.595	0.635
142.5	39.904	31.163	21.807	19.027	14.188	6.095	3.034	0.795	0.782	0.775
145.0	35.440	24.373	18.980	15.865	12.029	5.340	2.747	1.009	0.809	0.775
147.5	30.348	19.434	15.926	14.335	8.701	4.852	2.306	1.136	0.922	0.922
150.0	24.393	15.652	13.680	12.190	6.342	4.016	2.045	1.143	1.043	1.183
152.5	17.904	13.419	11.528	8.260	5.607	3.595	1.704	1.149	1.283	1.236
155.0	12.571	10.325	7.866	6.229	4.671	3.134	1.497	1.283	1.230	1.263
157.5	7.485	6.015	5.560	5.266	4.037	2.586	1.383	1.397	1.390	1.403
160.0	4.290	4.344	4.986	4.571	3.308	2.085	1.490	1.450	1.537	1.550
162.5	3.709	3.575	4.277	3.622	2.633	1.497	1.470	1.504	1.504	1.490
165.0	2.987	2.920	3.382	2.854	1.945	1.550	1.577	1.564	1.718	1.651
167.5	2.359	2.245	2.533	1.911	1.617	1.564	1.557	1.617	1.718	1.831
170.0	1.758	1.751	1.731	1.691	1.637	1.731	1.724	1.731	1.871	1.958
172.5	1.731	1.684	1.691	1.784	1.891	1.751	1.731	1.798	2.072	2.092
175.0	2.018	1.945	1.931	1.971	1.965	1.985	1.992	1.992	2.152	2.152
177.5	2.172	2.025	2.125	2.058	2.139	2.179	2.098	2.179	2.199	2.112
180.0	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713
2.5	1005.397	1006.420	1009.547	1010.683	1008.037	1005.858	1004.976	1003.880	1001.655	999.423
5.0	1001.534	1003.025	1007.014	1008.418	1006.366	1004.582	1004.007	1002.330	1000.412	997.565
7.5	994.731	997.632	1002.062	1005.010	1003.640	1002.657	1002.450	1001.127	998.380	994.878
10.0	985.562	989.465	995.099	999.623	999.623	999.550	1000.071	998.794	995.506	991.283
12.5	972.650	978.765	986.464	992.272	993.795	995.052	996.502	995.292	991.864	986.625
15.0	956.905	965.259	975.364	982.815	986.163	989.137	991.189	990.066	986.264	980.102
17.5	938.547	948.966	961.229	971.026	976.553	981.218	984.419	983.758	979.434	971.661
20.0	917.923	930.160	944.869	957.440	965.693	972.036	976.279	975.838	971.254	962.472
22.5	893.651	909.329	927.086	941.849	952.682	961.657	966.970	967.317	961.730	951.185
25.0	867.614	885.858	906.576	925.034	938.721	949.768	956.217	956.772	950.777	938.681
27.5	839.899	860.216	884.782	906.556	922.548	936.074	944.348	945.003	938.754	925.609

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CANDELA TABULATION - (Cont.)

30.0	809.779	833.190	860.496	885.725	905.166	920.957	930.474	931.911	924.907	910.231
32.5	777.534	804.172	834.379	863.136	886.025	904.103	915.163	917.362	909.436	893.644
35.0	743.858	773.390	807.861	839.318	865.462	885.404	897.914	900.407	892.688	875.834
37.5	709.126	742.475	780.381	814.704	844.036	865.729	879.115	881.802	873.829	856.092
40.0	673.820	710.015	750.902	788.494	820.225	844.156	859.039	861.813	853.372	834.773
42.5	638.313	676.807	721.042	760.305	795.738	821.354	836.879	839.986	830.831	812.071
45.0	601.029	642.323	689.512	731.869	769.086	796.941	812.599	816.168	807.487	786.910
47.5	565.061	608.561	657.387	703.058	742.114	771.004	786.703	790.438	782.152	760.973
50.0	527.703	574.798	625.208	673.252	713.778	743.805	759.790	762.644	755.159	733.874
52.5	492.844	540.762	592.468	642.524	683.918	713.851	730.305	734.121	726.068	704.682
55.0	457.652	507.273	560.089	610.993	652.869	683.363	699.316	703.078	694.972	674.508
57.5	423.609	473.524	527.937	579.122	622.040	650.864	666.843	670.271	662.533	642.704
60.0	389.706	440.477	495.290	547.618	589.728	617.710	632.533	636.021	628.222	610.165
62.5	356.364	408.057	463.646	515.192	555.551	583.813	598.249	601.557	594.426	576.950
65.0	325.235	376.801	432.644	482.793	523.720	549.764	563.163	566.083	559.360	543.635
67.5	294.674	346.948	401.608	451.350	490.759	515.887	528.264	530.824	524.722	509.752
70.0	265.883	316.988	371.682	420.855	458.601	482.346	493.312	495.444	490.913	476.271
72.5	237.881	288.946	342.925	390.722	427.064	449.539	459.222	460.860	456.716	444.246
75.0	210.936	263.524	315.905	361.938	396.235	416.912	426.489	427.846	423.896	412.515
77.5	186.101	241.477	289.521	334.183	366.442	386.023	393.796	396.402	392.158	381.325
80.0	164.148	219.430	264.841	307.592	338.795	356.244	364.130	365.600	361.731	351.853
82.5	143.330	197.382	241.537	282.931	312.016	329.225	335.680	337.244	333.442	325.516
85.0	123.896	175.335	220.071	259.020	286.166	302.947	309.483	311.013	307.331	299.559
87.5	107.022	154.478	199.695	236.739	263.083	278.193	284.362	285.879	282.871	274.939
90.0	91.965	137.529	180.822	215.841	240.835	255.778	261.807	262.368	259.782	252.236
92.5	78.819	122.459	163.466	197.249	221.147	234.587	240.127	241.042	238.984	231.980
95.0	67.097	108.458	147.374	179.766	202.234	214.691	220.572	221.508	219.563	212.907
97.5	57.093	96.021	132.738	163.299	184.538	196.948	202.722	203.317	201.766	195.404
100.0	48.552	84.861	119.312	148.102	168.512	180.067	185.981	187.345	185.072	178.904
102.5	41.468	75.197	107.376	134.475	154.003	165.538	170.797	172.482	170.169	163.867
105.0	35.447	66.302	96.563	122.179	140.336	151.450	157.104	158.628	156.376	150.374
107.5	30.842	58.797	86.812	110.543	127.739	138.706	144.373	145.957	143.785	137.603
110.0	26.792	52.167	77.984	99.857	116.625	127.131	132.684	134.288	132.076	125.928
112.5	23.284	46.313	69.530	90.501	106.026	116.264	121.798	123.235	121.149	115.282
115.0	20.022	41.047	62.159	81.840	96.442	106.547	111.626	113.137	111.098	105.565
117.5	16.895	35.848	55.536	73.874	87.634	97.164	102.297	103.466	101.902	96.369
120.0	14.148	30.448	47.590	66.275	79.762	88.530	93.388	94.925	93.154	87.962
122.5	11.795	25.890	42.103	57.902	72.176	80.430	85.355	86.973	84.974	80.029
125.0	9.964	22.047	36.229	51.426	65.233	73.165	77.730	79.067	77.416	72.564
127.5	7.966	18.779	30.996	43.653	58.650	66.229	70.619	71.789	70.405	65.707
130.0	5.808	15.992	26.658	37.839	51.700	59.479	63.963	65.239	63.649	59.285
132.5	3.689	13.620	22.849	32.800	44.556	53.758	57.460	58.737	57.206	53.324
135.0	2.987	11.882	19.595	28.115	37.525	48.131	51.653	52.822	51.446	47.717
137.5	2.540	9.978	16.707	23.979	31.764	42.624	46.093	47.122	46.066	42.584
140.0	2.212	7.572	14.502	20.503	27.427	36.456	40.953	41.936	40.873	37.832
142.5	1.831	4.932	12.544	17.289	23.063	30.508	36.215	36.930	36.035	33.442
145.0	1.470	4.043	10.452	14.669	19.341	25.075	31.504	32.580	31.544	29.018
147.5	1.230	3.489	7.512	12.557	16.099	20.630	27.307	28.095	27.307	24.994
150.0	1.149	2.967	5.032	10.085	13.246	17.048	23.304	23.965	23.264	21.259
152.5	1.196	2.352	4.297	6.897	10.252	13.734	19.067	20.209	19.494	17.870
155.0	1.256	1.751	3.422	4.792	6.750	10.105	14.121	16.387	15.424	13.834
157.5	1.410	1.524	2.834	4.103	4.411	5.828	8.982	11.902	10.800	8.828
160.0	1.564	1.484	2.092	3.188	3.729	3.716	4.698	6.904	6.302	5.300
162.5	1.564	1.584	1.644	2.245	2.900	2.934	3.181	4.344	4.057	3.742
165.0	1.691	1.631	1.657	1.684	2.085	2.366	2.560	3.154	3.014	2.626
167.5	1.778	1.885	1.838	1.784	1.885	1.945	2.098	2.232	2.125	2.018

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CANDELA TABULATION - (Cont.)

170.0	1.931	2.025	1.637	1.898	1.978	1.885	2.045	2.025	1.931	1.998
172.5	2.005	1.998	2.005	1.998	2.058	1.985	2.072	1.965	1.905	2.025
175.0	2.038	2.072	2.152	2.152	2.125	2.105	2.125	2.112	2.225	2.058
177.5	2.125	2.058	2.072	2.299	2.018	2.038	2.085	2.065	2.119	2.192
180.0	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145

Vert. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713	1003.713
2.5	996.916	993.207	992.365	996.642	1000.472	1004.943	1004.802
5.0	994.390	990.347	988.549	991.771	994.938	999.276	999.229
7.5	990.768	985.669	983.056	984.907	987.206	991.109	990.100
10.0	986.204	979.320	975.417	975.738	976.714	979.260	977.402
12.5	979.922	971.220	965.747	963.829	963.060	964.878	961.984
15.0	971.996	960.915	952.869	949.093	946.761	947.195	942.697
17.5	962.205	949.354	938.053	931.664	927.667	926.718	921.058
20.0	950.750	934.778	921.693	911.728	905.981	903.201	895.996
22.5	937.885	919.681	903.481	890.810	881.661	876.937	868.563
25.0	923.938	902.439	883.058	866.798	855.357	847.745	838.262
27.5	907.444	883.466	860.135	841.470	826.487	817.678	805.575
30.0	889.748	862.528	836.277	813.294	796.032	785.192	772.013
32.5	870.688	840.474	810.915	783.916	763.880	749.946	737.101
35.0	850.305	817.652	784.644	753.675	730.338	714.159	699.563
37.5	828.605	793.399	756.589	722.519	695.901	677.890	661.396
40.0	805.796	768.104	727.110	690.655	660.955	640.746	623.531
42.5	781.323	741.392	697.585	657.921	625.061	602.927	584.495
45.0	755.807	714.105	667.398	624.613	588.612	565.208	545.059
47.5	729.683	685.709	636.329	590.857	552.169	527.175	506.832
50.0	700.545	656.778	604.297	558.030	515.306	489.703	467.790
52.5	671.367	626.411	573.548	523.633	479.686	452.493	429.343
55.0	641.180	595.723	542.566	490.492	445.409	414.874	391.784
57.5	610.532	565.028	511.677	458.688	411.593	378.732	355.502
60.0	578.627	534.172	481.109	426.837	377.904	343.580	320.650
62.5	546.335	502.856	449.686	395.119	345.551	309.877	285.772
65.0	514.558	471.479	419.545	364.337	315.311	276.676	252.283
67.5	481.323	440.717	389.953	335.640	285.698	245.193	218.367
70.0	450.842	410.811	361.216	307.545	255.672	214.919	187.492
72.5	419.205	381.633	333.001	279.871	227.362	185.908	157.204
75.0	388.931	352.822	306.309	253.727	201.753	159.182	129.216
77.5	359.552	326.224	280.278	229.026	177.059	133.206	102.049
80.0	332.666	300.113	256.554	205.957	154.665	109.668	76.941
82.5	306.790	276.055	234.246	185.226	133.660	88.409	53.959
85.0	282.089	253.105	212.526	165.411	115.014	69.323	32.733
87.5	258.873	231.539	192.858	147.374	98.681	53.357	12.785
90.0	237.373	211.203	174.821	131.100	84.433	40.593	0.261
92.5	216.990	192.216	157.966	116.104	71.642	30.421	0.241
95.0	198.752	175.455	142.301	103.139	60.635	23.163	0.134
97.5	181.537	159.243	128.414	91.109	51.887	17.870	0.087
100.0	165.859	144.359	115.783	80.584	44.382	13.894	0.020
102.5	151.270	131.321	104.315	71.394	37.993	11.127	0.114
105.0	138.291	119.385	93.375	63.228	32.733	8.775	0.000
107.5	126.315	108.144	83.878	55.983	28.296	7.191	0.020
110.0	114.874	97.986	75.478	49.655	24.727	5.554	0.000
112.5	104.716	88.757	67.692	43.907	21.386	3.856	0.007
115.0	95.166	80.062	60.675	39.316	18.980	2.159	0.013

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CANDELA TABULATION - (Cont.)

117.5	86.752	72.511	54.339	34.892	16.554	1.397	0.000
120.0	78.599	65.259	48.759	30.889	14.342	1.049	0.067
122.5	71.074	58.891	43.794	27.487	12.531	0.722	0.167
125.0	64.424	52.869	39.002	24.373	10.706	0.528	0.301
127.5	58.075	47.550	35.032	21.472	8.835	0.414	0.334
130.0	52.241	42.497	30.909	18.839	6.396	0.334	0.334
132.5	46.728	38.006	27.541	16.607	4.478	0.368	0.495
135.0	41.822	33.923	24.219	14.455	3.014	0.508	0.662
137.5	37.224	29.933	21.386	12.176	2.399	0.515	0.655
140.0	32.860	26.264	18.686	9.550	1.951	0.628	0.675
142.5	28.864	22.849	16.059	6.603	1.758	0.829	0.922
145.0	24.894	19.722	13.306	4.438	1.323	0.822	1.016
147.5	21.513	16.814	10.091	3.448	1.203	0.989	1.149
150.0	18.278	13.640	6.670	2.900	1.176	1.176	1.196
152.5	14.763	9.650	4.478	2.332	1.297	1.270	1.236
155.0	10.479	6.108	3.402	1.911	1.350	1.330	1.276
157.5	6.416	4.237	2.787	1.697	1.444	1.557	1.410
160.0	4.190	3.088	2.045	1.611	1.577	1.490	1.504
162.5	3.188	2.286	1.704	1.664	1.778	1.550	1.597
165.0	2.192	1.791	1.631	1.697	1.784	1.664	1.671
167.5	1.851	1.824	1.791	1.945	1.771	1.838	1.584
170.0	1.958	2.098	2.005	2.098	1.925	2.032	1.845
172.5	2.159	2.052	2.045	1.985	2.092	2.018	1.718
175.0	2.139	2.112	2.045	2.032	2.225	2.125	1.931
177.5	2.232	2.132	2.139	2.259	2.239	2.245	2.272
180.0	2.145	2.145	2.145	2.145	2.145	2.145	2.145

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	367.54	N.A.	9.90
0-30	782.20	N.A.	21.00
0-40	1286.08	N.A.	34.60
0-60	2323.03	N.A.	62.50
0-80	3083.52	N.A.	83.00
0-90	3316.39	N.A.	89.20
10-90	3221.43	N.A.	86.70
20-40	918.54	N.A.	24.70
20-50	1451.37	N.A.	39.00
40-70	1466.65	N.A.	39.50
60-80	760.49	N.A.	20.50
70-80	330.80	N.A.	8.90
80-90	232.87	N.A.	6.30
90-110	259.15	N.A.	7.00
90-120	325.03	N.A.	8.70
90-130	364.71	N.A.	9.80
90-150	396.43	N.A.	10.70
90-180	400.62	N.A.	10.80
110-180	141.47	N.A.	3.80
0-180	3717.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.97
10-20	272.57
20-30	414.66
30-40	503.88
40-50	532.83
50-60	504.12
60-70	429.69
70-80	330.80
80-90	232.87
90-100	156.11
100-110	103.04
110-120	65.87
120-130	39.68
130-140	21.60
140-150	10.13
150-160	3.30
160-170	0.71
170-180	0.19

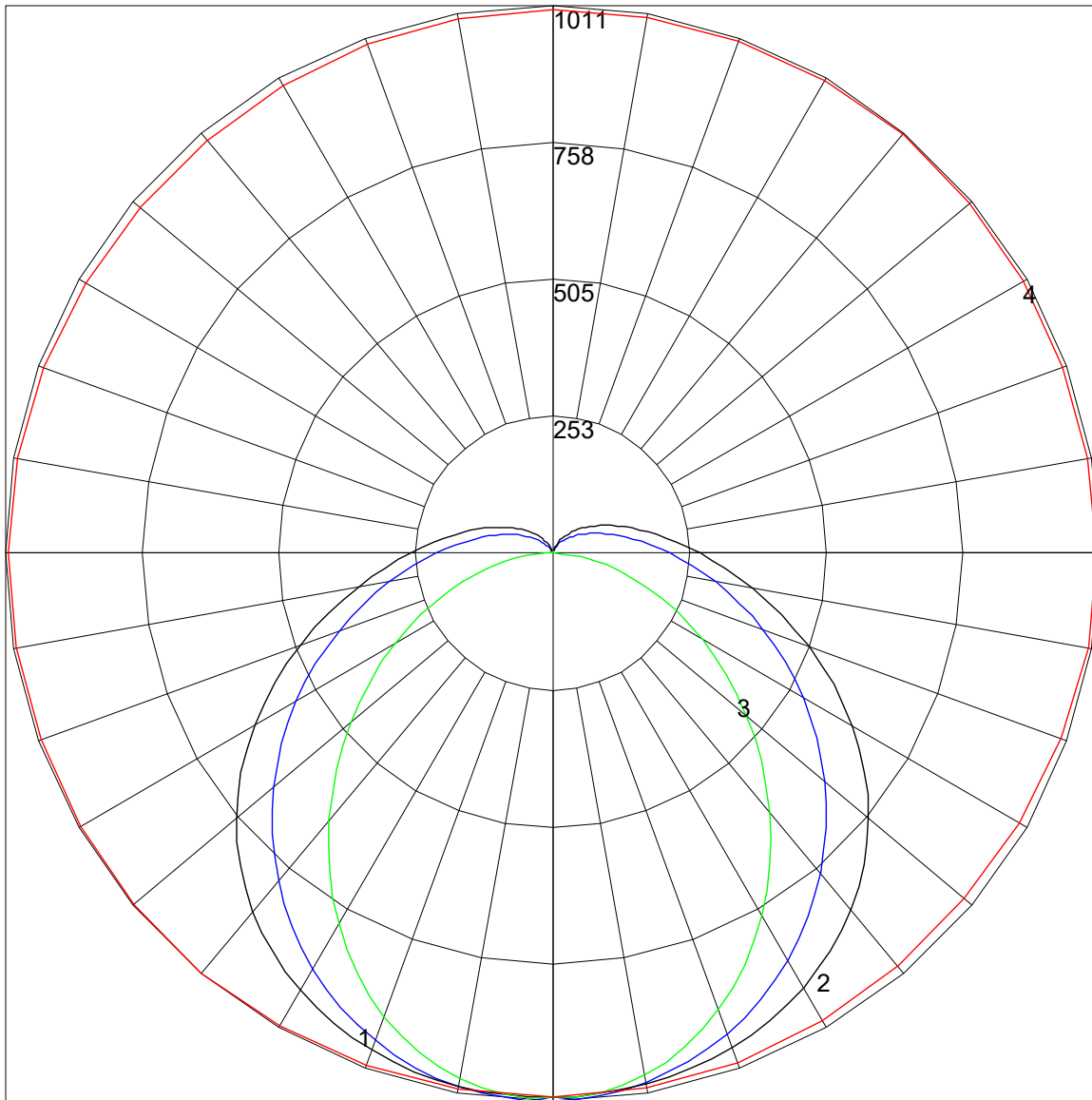
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	104	98	93	89	100	95	90	86	89	85	81	83	80	77	77	75	73	70
2	94	85	77	71	90	82	75	69	76	71	66	71	67	63	67	63	60	57
3	85	74	65	58	82	71	63	57	67	60	54	62	57	52	58	54	50	47
4	78	65	56	49	74	63	54	48	59	52	46	55	49	44	52	47	42	40
5	71	58	48	41	68	56	47	41	53	45	39	49	43	38	47	41	36	34
6	66	52	43	36	63	50	42	35	47	40	34	45	38	33	42	36	32	30
7	61	47	38	32	58	46	37	31	43	36	30	41	34	29	38	33	28	26
8	57	43	34	28	54	42	33	28	39	32	27	37	31	26	35	30	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	33	27	23	21
10	49	36	28	23	48	35	28	22	33	27	22	32	26	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 1010.683 Located At Horizontal Angle = 230, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (230 - 50) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)