



IES INDOOR REPORT
PHOTOMETRIC FILENAME : NLSR48LRA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 8,387P4
 [TESTLAB] CSA Group
 [ISSUEDATE] 10/30/2015 09:15:23 AM
 [MANUFAC] LAMAR LIGHTING CO., INC.
 [LUMINAIRE] NLSR48LRA40
 [_AMBIENT] 24.6 deg C
 [_POWERFACTOR] 0.9954
 [_ATHD] 4.93%
 [_CURRENT] 0.1988
 [_VOLTAGE] 120.05
 [_STABILIZATION] 35:23.2 Stable
 [_POWER VARIATION] 0.24 %
 [_LIGHT VARIATION] 0.48 %
 [_Lumens] 2,843

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2843
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	23.86
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	6405	9061	15331
55	4856	8084	16176
65	3419	7140	17531
75	1998	6328	21010
85	611	5773	38240

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766
2.5	768.599	768.088	767.235	768.293	769.811	771.825	770.107	768.594	768.032	767.337
5.0	764.336	763.176	762.797	764.326	767.035	768.727	767.505	766.345	766.238	765.466
7.5	757.353	756.331	756.090	758.314	761.371	763.937	763.707	763.406	763.651	763.324
10.0	747.640	747.037	747.303	750.263	754.552	758.186	758.738	759.761	760.845	760.558
12.5	735.847	735.259	735.632	739.804	745.657	750.753	753.284	755.272	757.215	757.445
15.0	721.094	721.058	722.152	727.729	735.361	742.119	746.316	750.079	752.696	753.284
17.5	704.541	704.776	706.581	713.901	723.379	732.805	738.418	743.489	747.195	748.397
20.0	685.371	686.572	689.312	698.570	710.159	721.518	729.666	736.092	741.230	742.513
22.5	664.386	666.135	669.902	681.961	695.626	709.321	719.448	727.739	733.848	735.407
25.0	641.208	643.795	649.004	663.205	679.569	695.360	707.762	718.216	725.372	727.443
27.5	616.206	620.193	627.058	642.982	662.035	679.957	695.022	707.496	715.516	718.318
30.0	590.533	594.863	603.518	622.033	642.926	664.059	681.036	695.452	705.195	708.385
32.5	563.828	567.314	578.735	599.592	623.296	646.663	666.232	682.570	693.228	696.955
35.0	535.114	539.664	552.224	575.724	602.010	627.779	650.405	668.752	680.336	684.471
37.5	505.919	511.507	525.427	550.971	580.805	608.502	633.433	654.142	666.559	670.383
40.0	476.955	482.552	499.642	526.884	557.356	588.948	615.761	637.610	650.967	655.588
42.5	447.096	453.480	473.453	501.237	534.158	567.984	597.445	620.249	635.120	639.588
45.0	416.930	424.526	443.701	475.682	510.714	546.918	578.280	602.158	617.013	621.619
47.5	387.689	394.708	416.337	449.396	486.565	524.869	557.448	582.620	598.303	603.155
50.0	357.825	365.799	389.085	423.463	462.442	502.520	536.218	562.407	577.406	582.763
52.5	328.415	337.821	362.088	398.138	438.661	478.897	514.298	540.487	556.298	561.298
55.0	299.686	309.230	335.173	372.609	415.002	456.502	491.764	518.035	533.115	538.186
57.5	271.933	282.188	308.427	347.314	390.613	432.618	468.494	494.750	509.324	514.093
60.0	245.274	255.917	283.578	323.181	366.622	409.205	445.056	471.112	484.802	489.316
62.5	218.594	230.290	258.933	299.487	343.128	385.915	421.193	445.659	459.272	463.919
65.0	192.978	204.807	235.622	276.437	320.134	362.599	397.340	420.805	434.060	437.965
67.5	167.035	180.479	212.807	254.516	298.096	340.245	373.636	396.114	407.554	410.995
70.0	143.417	157.930	190.770	232.990	276.191	317.532	349.635	371.300	382.132	385.368
72.5	120.250	135.903	170.081	212.649	256.096	295.683	326.064	346.277	356.153	359.435
75.0	98.841	115.460	151.044	193.055	235.735	273.911	303.423	322.521	332.275	334.800
77.5	78.060	95.804	132.723	174.217	216.958	254.164	281.472	299.262	307.425	310.344
80.0	58.854	78.341	115.235	157.214	198.565	233.986	260.548	276.452	284.565	286.584
82.5	41.274	62.566	100.303	141.623	181.292	215.721	240.622	256.254	262.706	264.883
85.0	25.039	49.065	86.771	127.207	165.429	198.289	221.733	236.553	242.718	244.901
87.5	9.779	37.839	74.983	114.054	150.513	181.358	203.785	217.183	223.814	225.725
90.0	0.199	28.903	64.391	101.990	137.002	166.477	187.605	199.782	205.891	207.542
92.5	0.184	23.137	55.378	90.983	124.114	152.087	171.722	183.945	189.717	191.368
95.0	0.102	17.708	47.945	81.357	112.418	138.898	157.726	168.860	174.682	176.098
97.5	0.066	13.992	41.520	72.452	102.005	126.670	144.276	155.134	160.593	162.388
100.0	0.015	11.650	36.219	65.014	92.338	115.480	132.247	142.737	147.711	149.373
102.5	0.087	9.774	31.531	57.960	83.561	105.363	121.083	130.862	135.923	137.319
105.0	0.000	8.465	27.866	51.795	75.494	95.891	110.915	120.613	125.249	126.885
107.5	0.015	7.428	24.609	46.519	68.455	87.318	101.468	110.481	115.414	117.136
110.0	0.000	5.981	21.910	41.791	61.891	79.732	93.141	101.473	106.452	108.006
112.5	0.005	3.860	19.543	37.553	56.007	72.601	85.171	93.422	98.038	99.505
115.0	0.010	2.484	17.626	33.668	50.711	65.940	77.697	85.774	90.273	91.551
117.5	0.000	2.045	15.863	30.447	45.804	59.897	71.067	78.689	82.988	84.266
120.0	0.051	1.794	14.288	27.589	41.566	54.627	64.861	72.043	76.332	77.513
122.5	0.128	1.585	12.857	24.824	37.711	49.510	59.228	66.016	69.876	71.527
125.0	0.230	1.370	11.154	22.385	33.898	44.868	53.901	60.071	63.915	65.137
127.5	0.256	1.329	8.563	20.402	30.672	40.722	48.953	54.903	58.389	59.739
130.0	0.256	1.288	5.945	18.296	27.661	36.817	44.239	49.714	53.185	54.427
132.5	0.378	1.074	4.141	16.404	24.993	33.131	40.022	44.878	48.221	49.402

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CANDELA TABULATION - (Cont.)

135.0	0.506	0.941	3.538	14.523	22.339	29.880	36.101	40.661	43.518	44.469
137.5	0.501	0.721	3.277	11.400	19.809	26.664	32.236	36.551	39.281	40.027
140.0	0.516	0.629	2.755	7.985	17.667	23.577	28.883	32.691	35.155	35.769
142.5	0.705	0.767	2.663	5.465	15.300	21.031	25.754	29.179	31.372	31.873
145.0	0.777	0.757	2.428	4.366	11.722	18.577	22.682	25.933	27.804	28.157
147.5	0.879	0.889	2.157	3.824	7.796	15.581	19.814	22.580	24.308	24.216
150.0	0.915	0.910	1.799	3.399	5.107	11.139	16.895	19.599	21.000	21.097
152.5	0.946	0.976	1.493	2.970	4.340	7.003	12.335	16.118	17.892	17.728
155.0	0.976	1.007	1.206	2.582	3.834	4.918	7.602	11.006	13.307	13.220
157.5	1.079	1.104	1.104	2.183	3.195	4.161	5.102	6.441	7.970	8.430
160.0	1.150	1.145	1.150	1.799	2.730	3.476	4.217	4.821	5.107	5.286
162.5	1.222	1.186	1.186	1.329	2.050	2.812	3.374	3.844	4.130	4.315
165.0	1.278	1.201	1.186	1.166	1.585	2.157	2.679	3.031	3.221	3.353
167.5	1.212	1.431	1.247	1.196	1.206	1.431	2.045	2.219	2.433	2.157
170.0	1.411	1.304	1.288	1.273	1.247	1.273	1.319	1.508	1.651	1.365
172.5	1.314	1.329	1.390	1.390	1.329	1.360	1.278	1.334	1.324	1.304
175.0	1.477	1.421	1.493	1.452	1.472	1.534	1.467	1.462	1.436	1.431
177.5	1.738	1.723	1.610	1.636	1.621	1.528	1.569	1.569	1.574	1.590
180.0	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641

**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	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766
2.5	765.839	764.254	762.322	759.873	759.393	762.399	765.399	769.008	769.734	769.612
5.0	763.978	762.424	760.517	757.430	756.407	759.158	761.954	765.226	766.682	766.483
7.5	762.010	759.878	757.108	753.493	752.037	754.051	756.075	759.009	761.100	761.013
10.0	759.117	756.637	753.064	748.463	745.529	746.618	748.213	750.902	752.803	753.555
12.5	755.794	752.578	748.111	741.859	737.498	737.242	737.902	739.763	742.436	743.443
15.0	751.423	747.262	741.756	734.012	728.036	725.822	724.984	725.449	728.843	730.459
17.5	746.270	741.470	734.548	724.672	717.275	711.872	710.072	710.077	713.686	715.619
20.0	739.993	734.375	725.981	714.484	704.408	697.440	693.346	692.088	696.029	697.885
22.5	732.749	726.149	716.232	702.583	690.105	680.642	674.728	672.141	675.674	678.260
25.0	724.549	716.493	705.114	689.343	674.488	662.352	653.349	649.669	653.758	656.846
27.5	714.642	706.064	693.003	674.508	657.490	642.512	631.741	625.607	630.299	633.939
30.0	704.868	694.271	679.635	659.208	639.204	621.568	608.241	600.026	604.509	609.734
32.5	693.519	681.992	665.572	642.747	619.764	599.208	583.637	573.408	577.579	583.545
35.0	680.540	668.348	649.981	625.060	598.809	576.041	557.632	545.353	549.525	556.457
37.5	666.058	653.099	632.789	605.890	577.119	551.493	530.845	515.959	520.376	528.203
40.0	651.049	637.313	615.546	585.830	555.092	525.928	503.261	487.644	491.703	499.555
42.5	634.772	620.535	597.128	566.348	531.694	500.736	475.462	457.355	461.655	469.614
45.0	617.064	602.178	577.814	545.312	508.240	474.849	446.656	428.012	431.023	440.501
47.5	597.905	582.257	558.046	523.832	484.730	448.885	418.463	398.639	401.113	410.499
50.0	577.344	561.885	536.755	501.099	460.796	422.773	390.593	369.311	372.113	381.284
52.5	555.858	540.364	514.896	479.143	436.335	397.300	362.901	340.745	342.836	352.595
55.0	533.330	518.157	492.056	456.686	412.743	372.690	335.674	312.425	314.587	324.653
57.5	509.712	494.474	469.225	432.838	389.371	346.277	309.475	285.158	286.451	297.155
60.0	485.021	470.452	445.317	409.257	366.331	322.894	283.987	257.563	258.596	269.648
62.5	459.400	445.654	420.963	385.828	342.847	298.065	259.920	232.468	231.972	243.546
65.0	433.968	420.943	396.788	362.676	319.843	275.838	236.200	206.883	205.676	218.088
67.5	407.462	396.446	373.028	339.483	297.616	253.974	213.600	183.122	180.500	193.607
70.0	382.424	370.824	349.109	316.709	275.706	232.816	191.112	158.508	156.039	170.766
72.5	356.628	346.174	326.279	294.507	255.692	212.286	170.409	136.557	133.224	148.693
75.0	332.101	322.654	303.080	273.921	235.418	193.188	150.891	115.848	111.247	128.357
77.5	307.671	299.543	281.564	254.133	216.258	174.672	132.549	96.239	90.442	108.538
80.0	284.769	277.214	260.768	234.252	198.422	157.204	115.235	78.638	71.251	91.147

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CANDELA TABULATION - (Cont.)

82.5	263.166	256.065	240.811	215.496	181.205	141.807	100.251	62.044	53.436	74.651
85.0	243.428	236.302	221.447	197.794	165.373	126.670	86.127	48.390	36.622	59.897
87.5	224.156	217.551	203.913	181.430	150.277	113.348	73.945	36.776	20.888	47.383
90.0	206.193	200.595	187.493	166.462	136.756	101.417	63.363	27.768	7.182	36.408
92.5	189.936	184.487	172.055	152.000	123.833	90.488	54.356	20.939	4.979	27.968
95.0	174.299	169.269	157.705	138.632	112.597	80.601	46.846	16.246	4.197	21.700
97.5	160.803	155.374	144.670	126.650	101.749	71.829	40.421	12.913	3.415	17.038
100.0	148.090	142.993	132.370	115.337	91.924	64.145	35.063	10.679	2.490	13.296
102.5	136.450	131.291	121.211	105.200	83.208	57.086	30.723	8.987	1.626	10.464
105.0	125.540	120.659	110.941	95.886	75.254	51.217	26.981	7.668	0.849	8.210
107.5	115.720	110.910	101.662	87.231	67.984	45.773	23.740	6.630	0.475	6.625
110.0	106.728	102.005	92.987	79.420	61.441	40.993	20.709	4.816	0.220	5.388
112.5	98.033	93.821	85.120	70.960	54.637	35.615	17.682	2.771	0.143	4.013
115.0	90.298	85.856	77.825	64.309	49.592	31.357	15.362	1.897	0.128	2.387
117.5	82.942	78.807	71.236	58.282	42.849	26.654	13.526	1.503	0.087	1.442
120.0	76.414	72.325	64.120	52.879	37.093	23.229	11.262	1.375	0.051	1.048
122.5	70.086	66.047	57.352	45.982	32.175	19.533	9.789	1.232	0.102	0.751
125.0	64.268	60.316	52.061	39.925	27.564	17.319	8.373	0.874	0.235	0.404
127.5	58.640	54.918	45.982	34.061	22.963	15.101	6.334	0.843	0.112	0.235
130.0	53.293	49.597	39.674	29.420	20.177	12.714	4.233	0.751	0.179	0.256
132.5	48.390	43.590	34.624	24.895	18.040	11.190	3.103	0.629	0.210	0.235
135.0	43.227	38.084	29.036	21.803	15.290	9.662	2.796	0.613	0.322	0.399
137.5	38.754	33.412	24.701	19.385	13.240	8.496	2.668	0.496	0.419	0.424
140.0	33.974	28.096	19.513	16.972	12.049	6.543	2.438	0.542	0.455	0.486
142.5	30.524	23.837	16.680	14.554	10.853	4.662	2.321	0.608	0.598	0.593
145.0	27.109	18.643	14.518	12.136	9.202	4.084	2.101	0.772	0.619	0.593
147.5	23.214	14.866	12.182	10.965	6.656	3.711	1.764	0.869	0.705	0.705
150.0	18.659	11.972	10.464	9.324	4.851	3.072	1.564	0.874	0.797	0.905
152.5	13.695	10.265	8.818	6.318	4.289	2.750	1.304	0.879	0.982	0.946
155.0	9.616	7.898	6.017	4.764	3.573	2.398	1.145	0.982	0.941	0.966
157.5	5.725	4.601	4.253	4.028	3.088	1.978	1.058	1.068	1.063	1.074
160.0	3.282	3.323	3.814	3.497	2.530	1.595	1.140	1.109	1.176	1.186
162.5	2.837	2.735	3.272	2.771	2.014	1.145	1.125	1.150	1.150	1.140
165.0	2.285	2.234	2.587	2.183	1.488	1.186	1.206	1.196	1.314	1.263
167.5	1.805	1.718	1.937	1.462	1.237	1.196	1.191	1.237	1.314	1.401
170.0	1.344	1.339	1.324	1.293	1.252	1.324	1.319	1.324	1.431	1.498
172.5	1.324	1.288	1.293	1.365	1.447	1.339	1.324	1.375	1.585	1.600
175.0	1.544	1.488	1.477	1.508	1.503	1.518	1.523	1.523	1.646	1.646
177.5	1.661	1.549	1.626	1.574	1.636	1.667	1.605	1.667	1.682	1.615
180.0	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641

**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	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766	767.766
2.5	769.054	769.837	772.229	773.098	771.074	769.407	768.732	767.894	766.192	764.484
5.0	766.100	767.240	770.292	771.365	769.796	768.431	767.991	766.708	765.241	763.063
7.5	760.896	763.114	766.504	768.758	767.710	766.958	766.800	765.788	763.687	761.008
10.0	753.882	756.867	761.177	764.638	764.638	764.581	764.980	764.004	761.489	758.258
12.5	744.006	748.683	754.572	759.014	760.180	761.141	762.250	761.325	758.703	754.695
15.0	731.962	738.352	746.081	751.781	754.342	756.617	758.186	757.327	754.419	749.705
17.5	717.919	725.889	735.269	742.763	746.991	750.559	753.008	752.502	749.194	743.249
20.0	702.143	711.504	722.755	732.371	738.684	743.535	746.781	746.444	742.937	736.220
22.5	683.577	695.569	709.152	720.444	728.731	735.596	739.660	739.926	735.653	727.586
25.0	663.660	677.616	693.463	707.583	718.052	726.502	731.435	731.859	727.274	718.021
27.5	642.461	658.001	676.793	693.448	705.681	716.028	722.356	722.857	718.078	708.022

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CANDELA TABULATION - (Cont.)

30.0	619.421	637.328	658.216	677.514	692.385	704.464	711.744	712.843	707.485	696.260
32.5	594.756	615.132	638.238	660.235	677.744	691.572	700.032	701.714	695.651	683.572
35.0	568.996	591.586	617.954	642.016	662.014	677.268	686.838	688.745	682.841	669.948
37.5	542.429	567.938	596.933	623.189	645.625	662.219	672.458	674.513	668.414	654.847
40.0	515.423	543.109	574.384	603.139	627.411	645.717	657.102	659.223	652.767	638.540
42.5	488.262	517.708	551.544	581.577	608.681	628.275	640.150	642.527	635.524	621.174
45.0	459.743	491.330	527.425	559.825	588.294	609.601	621.578	624.308	617.668	601.928
47.5	432.230	465.504	502.852	537.788	567.662	589.761	601.769	604.627	598.288	582.088
50.0	403.654	439.678	478.238	514.988	545.987	568.955	581.183	583.366	577.641	561.359
52.5	376.990	413.643	453.194	491.483	523.147	546.043	558.629	561.548	555.388	539.030
55.0	350.070	388.026	428.427	467.365	499.396	522.722	534.925	537.803	531.602	515.949
57.5	324.029	362.211	403.833	442.985	475.815	497.863	510.086	512.708	506.788	491.621
60.0	298.096	336.932	378.861	418.888	451.098	472.502	483.841	486.509	480.543	466.731
62.5	272.592	312.134	354.655	394.084	424.955	446.574	457.616	460.146	454.692	441.324
65.0	248.781	288.225	330.941	369.301	400.607	420.528	430.778	433.012	427.869	415.841
67.5	225.403	265.389	307.201	345.249	375.395	394.616	404.083	406.041	401.374	389.923
70.0	203.381	242.472	284.309	321.923	350.796	368.959	377.347	378.978	375.512	364.312
72.5	181.962	221.022	262.312	298.873	326.672	343.864	351.271	352.524	349.354	339.815
75.0	161.350	201.576	241.644	276.856	303.090	318.907	326.233	327.270	324.249	315.543
77.5	142.354	184.712	221.462	255.626	280.301	295.279	301.225	303.218	299.972	291.686
80.0	125.561	167.847	202.583	235.285	259.153	272.500	278.532	279.657	276.697	269.142
82.5	109.637	150.983	184.758	216.422	238.669	251.832	256.771	257.967	255.058	248.995
85.0	94.771	134.118	168.338	198.131	218.896	231.732	236.732	237.902	235.086	229.140
87.5	81.864	118.164	152.752	181.087	201.239	212.797	217.516	218.676	216.376	210.308
90.0	70.346	105.200	138.315	165.102	184.221	195.652	200.263	200.692	198.714	192.942
92.5	60.291	93.672	125.040	150.881	169.161	179.441	183.679	184.380	182.805	177.448
95.0	51.324	82.963	112.730	137.508	154.694	164.223	168.722	169.437	167.950	162.858
97.5	43.672	73.449	101.535	124.912	141.158	150.651	155.067	155.522	154.336	149.470
100.0	37.139	64.912	91.265	113.287	128.899	137.738	142.262	143.305	141.567	136.848
102.5	31.720	57.520	82.135	102.864	117.801	126.624	130.647	131.936	130.167	125.346
105.0	27.114	50.716	73.863	93.458	107.347	115.848	120.173	121.338	119.616	115.025
107.5	23.592	44.975	66.405	84.558	97.711	106.100	110.435	111.646	109.985	105.256
110.0	20.494	39.904	59.652	76.384	89.210	97.246	101.494	102.721	101.028	96.325
112.5	17.810	35.426	53.185	69.227	81.102	88.933	93.166	94.265	92.670	88.182
115.0	15.316	31.398	47.547	62.602	73.771	81.501	85.386	86.541	84.982	80.749
117.5	12.923	27.421	42.481	56.508	67.034	74.323	78.249	79.144	77.948	73.715
120.0	10.822	23.290	36.403	50.696	61.012	67.719	71.435	72.611	71.256	67.284
122.5	9.023	19.804	32.206	44.290	55.210	61.523	65.290	66.528	64.999	61.216
125.0	7.622	16.864	27.712	39.337	49.898	55.966	59.458	60.480	59.217	55.506
127.5	6.094	14.365	23.709	33.392	44.863	50.660	54.019	54.913	53.855	50.261
130.0	4.442	12.233	20.392	28.944	39.546	45.497	48.927	49.903	48.687	45.349
132.5	2.822	10.418	17.478	25.090	34.082	41.121	43.953	44.929	43.759	40.789
135.0	2.285	9.089	14.988	21.506	28.704	36.817	39.511	40.405	39.352	36.500
137.5	1.943	7.632	12.780	18.342	24.297	32.604	35.257	36.045	35.237	32.574
140.0	1.692	5.792	11.093	15.684	20.980	27.886	31.326	32.078	31.265	28.939
142.5	1.401	3.773	9.595	13.225	17.642	23.336	27.702	28.249	27.564	25.580
145.0	1.125	3.093	7.995	11.221	14.794	19.180	24.098	24.921	24.129	22.196
147.5	0.941	2.668	5.746	9.605	12.315	15.781	20.888	21.491	20.888	19.119
150.0	0.879	2.270	3.849	7.714	10.132	13.041	17.826	18.332	17.795	16.261
152.5	0.915	1.799	3.287	5.276	7.842	10.505	14.585	15.459	14.912	13.669
155.0	0.961	1.339	2.617	3.665	5.163	7.729	10.802	12.535	11.798	10.582
157.5	1.079	1.166	2.167	3.139	3.374	4.458	6.871	9.104	8.261	6.753
160.0	1.196	1.135	1.600	2.438	2.852	2.842	3.594	5.281	4.821	4.054
162.5	1.196	1.212	1.258	1.718	2.219	2.244	2.433	3.323	3.103	2.863
165.0	1.293	1.247	1.268	1.288	1.595	1.810	1.958	2.413	2.306	2.009
167.5	1.360	1.442	1.406	1.365	1.442	1.488	1.605	1.707	1.626	1.544

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CANDELA TABULATION - (Cont.)

170.0	1.477	1.549	1.252	1.452	1.513	1.442	1.564	1.549	1.477	1.528
172.5	1.534	1.528	1.534	1.528	1.574	1.518	1.585	1.503	1.457	1.549
175.0	1.559	1.585	1.646	1.646	1.626	1.610	1.626	1.615	1.702	1.574
177.5	1.626	1.574	1.585	1.759	1.544	1.559	1.595	1.580	1.621	1.677
180.0	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641	1.641

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	767.766	767.766	767.766	767.766	767.766	767.766	767.766
2.5	762.567	759.730	759.086	762.358	765.287	768.707	768.599
5.0	760.635	757.542	756.167	758.631	761.054	764.372	764.336
7.5	757.864	753.964	751.965	753.381	755.140	758.125	757.353
10.0	754.373	749.107	746.122	746.367	747.114	749.061	747.640
12.5	749.567	742.912	738.725	737.258	736.670	738.060	735.847
15.0	743.505	735.029	728.874	725.986	724.202	724.534	721.094
17.5	736.016	726.185	717.541	712.654	709.597	708.871	704.541
20.0	727.254	715.036	705.027	697.405	693.008	690.882	685.371
22.5	717.413	703.488	691.096	681.404	674.406	670.792	664.386
25.0	706.744	690.299	675.474	663.037	654.285	648.462	641.208
27.5	694.128	675.786	657.940	643.662	632.201	625.463	616.206
30.0	680.591	659.770	639.690	622.110	608.906	600.614	590.533
32.5	666.012	642.900	620.290	599.638	584.312	573.653	563.828
35.0	650.420	625.443	600.195	576.506	558.655	546.279	535.114
37.5	633.822	606.892	578.735	552.674	532.313	518.536	505.919
40.0	616.374	587.543	556.186	528.300	505.582	490.123	476.955
42.5	597.654	567.110	533.601	503.261	478.125	461.194	447.096
45.0	578.137	546.238	510.510	477.783	450.245	432.342	416.930
47.5	558.154	524.517	486.744	451.962	422.369	403.250	387.689
50.0	535.865	502.387	462.242	426.852	394.171	374.587	357.825
52.5	513.546	479.158	438.722	400.541	366.924	346.123	328.415
55.0	490.456	455.684	415.023	375.190	340.705	317.348	299.686
57.5	467.012	432.204	391.395	350.862	314.838	289.702	271.933
60.0	442.607	408.602	368.013	326.498	289.068	262.813	245.274
62.5	417.906	384.647	343.976	302.237	264.321	237.033	218.594
65.0	393.598	360.646	320.921	278.691	241.189	211.637	192.978
67.5	368.176	337.116	298.285	256.740	218.538	187.554	167.035
70.0	344.861	314.240	276.304	235.249	195.570	164.397	143.417
72.5	320.660	291.921	254.721	214.080	173.915	142.206	120.250
75.0	297.503	269.883	234.303	194.082	154.326	121.763	98.841
77.5	275.031	249.537	214.392	175.188	135.437	101.892	78.060
80.0	254.465	229.565	196.245	157.542	118.307	83.888	58.854
82.5	234.671	211.161	179.181	141.684	102.240	67.627	41.274
85.0	215.778	193.607	162.567	126.527	87.978	53.027	25.039
87.5	198.018	177.110	147.522	112.730	75.484	40.814	9.779
90.0	181.573	161.555	133.725	100.282	64.585	31.050	0.199
92.5	165.982	147.031	120.832	88.811	54.801	23.270	0.184
95.0	152.031	134.210	108.850	78.893	46.381	17.718	0.102
97.5	138.862	121.809	98.227	69.692	39.690	13.669	0.066
100.0	126.870	110.424	88.565	61.640	33.949	10.628	0.015
102.5	115.710	100.451	79.793	54.611	29.062	8.511	0.087
105.0	105.783	91.321	71.425	48.365	25.039	6.712	0.000
107.5	96.622	82.722	64.161	42.823	21.644	5.501	0.015
110.0	87.870	74.952	57.735	37.982	18.914	4.248	0.000
112.5	80.100	67.892	51.779	33.586	16.358	2.950	0.005
115.0	72.795	61.242	46.412	30.074	14.518	1.651	0.010

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CANDELA TABULATION - (Cont.)

117.5	66.359	55.465	41.566	26.690	12.662	1.068	0.000
120.0	60.122	49.919	37.297	23.628	10.970	0.803	0.051
122.5	54.366	45.047	33.499	21.026	9.585	0.552	0.128
125.0	49.280	40.441	29.834	18.643	8.189	0.404	0.230
127.5	44.423	36.372	26.797	16.425	6.758	0.317	0.256
130.0	39.961	32.507	23.643	14.411	4.892	0.256	0.256
132.5	35.743	29.072	21.067	12.703	3.425	0.281	0.378
135.0	31.991	25.949	18.526	11.057	2.306	0.389	0.506
137.5	28.474	22.897	16.358	9.314	1.835	0.394	0.501
140.0	25.136	20.090	14.293	7.305	1.493	0.481	0.516
142.5	22.079	17.478	12.284	5.051	1.344	0.634	0.705
145.0	19.042	15.086	10.178	3.394	1.012	0.629	0.777
147.5	16.456	12.862	7.719	2.638	0.920	0.757	0.879
150.0	13.981	10.434	5.102	2.219	0.900	0.900	0.915
152.5	11.292	7.382	3.425	1.784	0.992	0.971	0.946
155.0	8.016	4.672	2.602	1.462	1.033	1.017	0.976
157.5	4.908	3.241	2.132	1.298	1.104	1.191	1.079
160.0	3.205	2.362	1.564	1.232	1.206	1.140	1.150
162.5	2.438	1.748	1.304	1.273	1.360	1.186	1.222
165.0	1.677	1.370	1.247	1.298	1.365	1.273	1.278
167.5	1.416	1.396	1.370	1.488	1.355	1.406	1.212
170.0	1.498	1.605	1.534	1.605	1.472	1.554	1.411
172.5	1.651	1.569	1.564	1.518	1.600	1.544	1.314
175.0	1.636	1.615	1.564	1.554	1.702	1.626	1.477
177.5	1.707	1.631	1.636	1.728	1.713	1.718	1.738
180.0	1.641	1.641	1.641	1.641	1.641	1.641	1.641

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	281.14	N.A.	9.90
0-30	598.32	N.A.	21.00
0-40	983.75	N.A.	34.60
0-60	1776.95	N.A.	62.50
0-80	2358.67	N.A.	83.00
0-90	2536.8	N.A.	89.20
10-90	2464.15	N.A.	86.70
20-40	702.61	N.A.	24.70
20-50	1110.19	N.A.	39.00
40-70	1121.88	N.A.	39.50
60-80	581.72	N.A.	20.50
70-80	253.04	N.A.	8.90
80-90	178.13	N.A.	6.30
90-110	198.23	N.A.	7.00
90-120	248.62	N.A.	8.70
90-130	278.97	N.A.	9.80
90-150	303.24	N.A.	10.70
90-180	306.45	N.A.	10.80
110-180	108.21	N.A.	3.80
0-180	2843.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.64
10-20	208.50
20-30	317.18
30-40	385.43
40-50	407.58
50-60	385.62
60-70	328.68
70-80	253.04
80-90	178.13
90-100	119.42
100-110	78.82
110-120	50.39
120-130	30.35
130-140	16.52
140-150	7.75
150-160	2.52
160-170	0.54
170-180	0.14

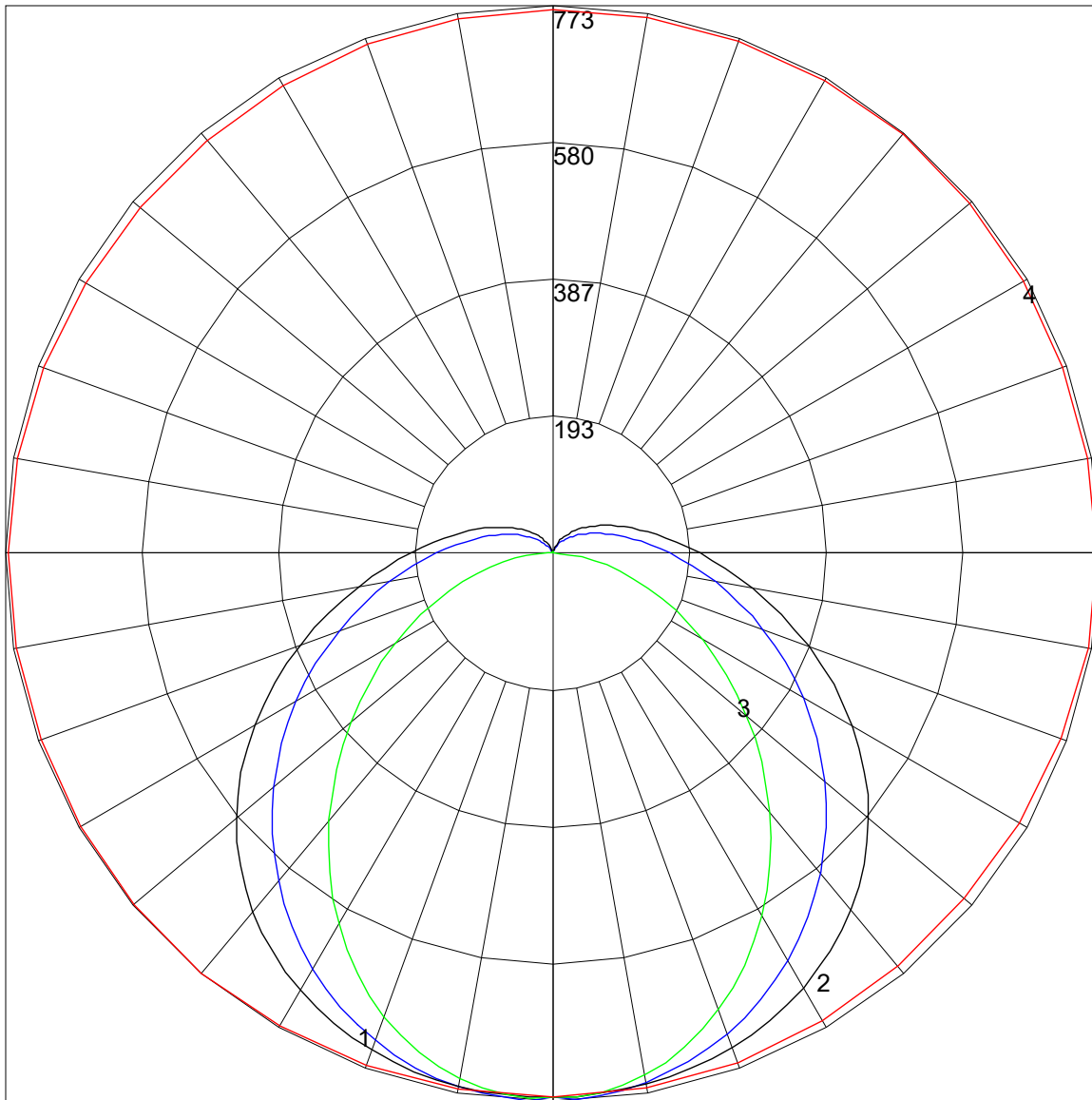
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	59	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 = 773.098 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.)