



IES INDOOR REPORT
PHOTOMETRIC FILENAME : NLSR48HRA35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 8,387P2
 [TESTLAB] CSA Group
 [ISSUEDATE] 10/28/2015 1:28:10 PM
 [MANUFAC] LAMAR LIGHTING CO., INC.
 [LUMINAIRE] NLSR48HRA35
 [_ AMBIENT] 24.6 deg C
 [_ POWERFACTOR] 0.9954
 [_ATHD] 4.93%
 [_CURRENT] 0.42386
 [_VOLTAGE] 120.05
 [_STABILIZATION] 35:23.2 Stable
 [_POWER VARIATION] 0.24 %
 [_LIGHT VARIATION] 0.48 %
 [_Lumens] 5,166

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5166
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	50.8
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	11638	16465	27858
55	8825	14689	29394
65	6212	12973	31856
75	3630	11499	38177
85	1110	10491	69486

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106
2.5	1396.620	1395.691	1394.140	1396.062	1398.821	1402.481	1399.360	1396.610	1395.589	1394.325
5.0	1388.873	1386.764	1386.077	1388.854	1393.777	1396.852	1394.632	1392.523	1392.328	1390.926
7.5	1376.184	1374.326	1373.890	1377.930	1383.485	1388.148	1387.730	1387.182	1387.628	1387.033
10.0	1358.535	1357.439	1357.922	1363.300	1371.094	1377.698	1378.701	1380.559	1382.528	1382.008
12.5	1337.105	1336.037	1336.715	1344.295	1354.931	1364.192	1368.790	1372.403	1375.933	1376.351
15.0	1310.297	1310.232	1312.220	1322.354	1336.223	1348.503	1356.129	1362.966	1367.722	1368.790
17.5	1280.219	1280.647	1283.926	1297.227	1314.449	1331.578	1341.777	1350.992	1357.727	1359.910
20.0	1245.386	1247.568	1252.547	1269.370	1290.428	1311.068	1325.875	1337.551	1346.886	1349.218
22.5	1207.254	1210.431	1217.277	1239.190	1264.019	1288.904	1307.306	1322.373	1333.473	1336.306
25.0	1165.138	1169.838	1179.304	1205.108	1234.843	1263.536	1286.071	1305.067	1318.072	1321.834
27.5	1119.705	1126.951	1139.426	1168.361	1202.981	1235.548	1262.923	1285.588	1300.163	1305.253
30.0	1073.056	1080.924	1096.650	1130.295	1168.259	1206.660	1237.508	1263.703	1281.408	1287.205
32.5	1024.530	1030.865	1051.617	1089.516	1132.589	1175.049	1210.608	1240.295	1259.663	1266.434
35.0	972.354	980.621	1003.444	1046.146	1093.910	1140.736	1181.849	1215.187	1236.236	1243.751
37.5	919.304	929.457	954.751	1001.168	1055.379	1105.707	1151.009	1188.639	1211.202	1218.150
40.0	866.673	876.844	907.898	957.399	1012.770	1070.176	1118.897	1158.598	1182.871	1191.268
42.5	812.416	824.018	860.310	910.796	970.617	1032.082	1085.615	1127.053	1154.075	1162.193
45.0	757.602	771.405	806.248	864.360	928.018	993.802	1050.790	1094.179	1121.173	1129.542
47.5	704.468	717.222	756.524	816.596	884.136	953.739	1012.938	1058.677	1087.175	1095.991
50.0	650.202	664.693	707.004	769.473	840.302	913.127	974.360	1021.948	1049.202	1058.937
52.5	596.763	613.854	657.949	723.455	797.089	870.203	934.529	982.117	1010.848	1019.932
55.0	544.558	561.901	609.043	677.066	754.100	829.508	893.583	941.319	968.722	977.937
57.5	494.128	512.762	560.443	631.104	709.782	786.109	851.300	899.008	925.491	934.158
60.0	445.686	465.026	515.289	587.251	666.189	743.566	808.710	856.056	880.932	889.134
62.5	397.207	418.460	470.506	544.196	623.496	701.245	765.349	809.806	834.542	842.986
65.0	350.660	372.154	428.149	502.312	581.714	658.878	722.006	764.643	788.729	795.826
67.5	303.518	327.948	386.692	462.481	541.669	618.257	678.933	719.777	740.566	746.817
70.0	260.603	286.974	346.647	423.365	501.866	576.986	635.321	674.688	694.371	700.251
72.5	218.505	246.948	309.054	386.404	465.351	537.285	592.490	629.218	647.165	653.128
75.0	179.603	209.801	274.462	350.799	428.353	497.723	551.349	586.052	603.776	608.364
77.5	141.843	174.085	241.170	316.569	394.234	461.840	511.462	543.787	558.622	563.926
80.0	106.944	142.354	209.393	285.674	360.813	425.176	473.442	502.340	517.081	520.751
82.5	74.999	113.688	182.259	257.342	329.425	391.987	437.233	465.639	477.362	481.319
85.0	45.498	89.156	157.671	231.147	300.601	360.311	402.910	429.839	441.042	445.008
87.5	17.770	68.757	136.251	207.247	273.496	329.546	370.297	394.643	406.691	410.165
90.0	0.362	52.520	117.004	185.325	248.945	302.506	340.897	363.023	374.124	377.124
92.5	0.334	42.042	100.628	165.326	225.528	276.357	312.036	334.246	344.733	347.734
95.0	0.186	32.177	87.122	147.834	204.274	252.391	286.603	306.834	317.414	319.987
97.5	0.121	25.424	75.445	131.653	185.353	230.172	262.163	281.893	291.814	295.074
100.0	0.028	21.170	65.813	118.138	167.787	209.839	240.306	259.367	268.406	271.425
102.5	0.158	17.761	57.295	105.319	151.838	191.456	220.019	237.789	246.985	249.521
105.0	0.000	15.383	50.634	94.116	137.180	174.243	201.543	219.165	227.590	230.562
107.5	0.028	13.497	44.717	84.530	124.389	158.665	184.377	200.754	209.718	212.848
110.0	0.000	10.868	39.813	75.938	112.462	144.881	169.246	184.387	193.434	196.258
112.5	0.009	7.013	35.512	68.237	101.770	131.922	154.764	169.756	178.144	180.810
115.0	0.019	4.514	32.028	61.177	92.147	119.819	141.184	155.860	164.034	166.357
117.5	0.000	3.716	28.824	55.325	83.229	108.839	129.136	142.986	150.798	153.120
120.0	0.093	3.260	25.963	50.133	75.529	99.262	117.859	130.910	138.703	140.849
122.5	0.232	2.880	23.362	45.107	68.525	89.964	107.622	119.958	126.971	129.972
125.0	0.418	2.489	20.269	40.677	61.595	81.530	97.943	109.155	116.140	118.360
127.5	0.464	2.415	15.559	37.072	55.734	73.996	88.951	99.764	106.099	108.551
130.0	0.464	2.341	10.803	33.245	50.263	66.899	80.387	90.336	96.643	98.900
132.5	0.687	1.951	7.524	29.808	45.414	60.202	72.724	81.548	87.623	89.769

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CANDELA TABULATION - (Cont.)

135.0	0.920	1.709	6.428	26.390	40.593	54.294	65.599	73.885	79.077	80.805
137.5	0.910	1.310	5.954	20.714	35.995	48.451	58.576	66.416	71.377	72.733
140.0	0.938	1.143	5.007	14.509	32.103	42.841	52.483	59.403	63.880	64.995
142.5	1.282	1.393	4.840	9.930	27.802	38.215	46.798	53.022	57.007	57.917
145.0	1.412	1.375	4.412	7.933	21.300	33.756	41.215	47.123	50.523	51.164
147.5	1.598	1.616	3.920	6.948	14.166	28.313	36.004	41.030	44.169	44.002
150.0	1.663	1.653	3.270	6.177	9.280	20.241	30.700	35.614	38.159	38.336
152.5	1.718	1.774	2.712	5.397	7.886	12.726	22.414	29.288	32.512	32.214
155.0	1.774	1.830	2.192	4.691	6.967	8.936	13.813	19.999	24.179	24.021
157.5	1.960	2.006	2.006	3.966	5.806	7.561	9.270	11.704	14.482	15.318
160.0	2.090	2.081	2.090	3.270	4.960	6.317	7.663	8.760	9.280	9.605
162.5	2.220	2.155	2.155	2.415	3.725	5.109	6.131	6.985	7.506	7.840
165.0	2.322	2.183	2.155	2.118	2.880	3.920	4.867	5.508	5.852	6.094
167.5	2.201	2.601	2.267	2.174	2.192	2.601	3.716	4.031	4.422	3.920
170.0	2.564	2.369	2.341	2.313	2.267	2.313	2.397	2.740	3.000	2.480
172.5	2.387	2.415	2.527	2.527	2.415	2.471	2.322	2.424	2.406	2.369
175.0	2.685	2.582	2.712	2.638	2.675	2.787	2.666	2.657	2.610	2.601
177.5	3.158	3.130	2.926	2.972	2.945	2.777	2.852	2.852	2.861	2.889
180.0	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982

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	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106
2.5	1391.604	1388.724	1385.213	1380.763	1379.890	1385.352	1390.805	1397.363	1398.682	1398.459
5.0	1388.222	1385.399	1381.934	1376.323	1374.465	1379.463	1384.544	1390.489	1393.136	1392.774
7.5	1384.646	1380.773	1375.738	1369.171	1366.523	1370.183	1373.862	1379.194	1382.993	1382.835
10.0	1379.389	1374.883	1368.390	1360.030	1354.698	1356.677	1359.575	1364.461	1367.917	1369.282
12.5	1373.351	1367.508	1359.389	1348.029	1340.105	1339.641	1340.839	1344.220	1349.079	1350.909
15.0	1365.409	1357.847	1347.843	1333.770	1322.912	1318.889	1317.366	1318.211	1324.379	1327.315
17.5	1356.045	1347.323	1334.746	1316.799	1303.358	1293.540	1290.270	1290.279	1296.837	1300.349
20.0	1344.638	1334.430	1319.177	1298.286	1279.978	1267.317	1259.876	1257.591	1264.753	1268.125
22.5	1331.476	1319.484	1301.463	1276.662	1253.987	1236.793	1226.046	1221.346	1227.764	1232.465
25.0	1316.576	1301.937	1281.260	1252.603	1225.609	1203.557	1187.199	1180.511	1187.942	1193.553
27.5	1298.574	1282.987	1259.254	1225.646	1194.723	1167.507	1147.935	1136.788	1145.315	1151.929
30.0	1280.814	1261.558	1234.963	1197.844	1161.497	1129.450	1105.233	1090.306	1098.452	1107.945
32.5	1260.192	1239.245	1209.409	1167.934	1126.170	1088.819	1060.525	1041.938	1049.518	1060.358
35.0	1236.607	1214.453	1181.078	1135.794	1088.095	1046.722	1013.272	990.960	998.540	1011.136
37.5	1210.292	1186.744	1149.839	1100.960	1048.682	1002.116	964.598	937.548	945.574	959.795
40.0	1183.019	1158.060	1118.507	1064.510	1008.655	955.662	914.474	886.096	893.472	907.740
42.5	1153.443	1127.573	1085.039	1029.110	966.140	909.885	863.961	831.059	838.871	853.334
45.0	1121.266	1094.216	1049.945	990.886	923.522	862.846	811.617	777.740	783.211	800.433
47.5	1086.451	1058.017	1014.024	951.853	880.802	815.667	760.388	724.366	728.861	745.916
50.0	1049.090	1021.000	975.336	910.545	837.310	768.219	709.745	671.075	676.165	692.829
52.5	1010.049	981.894	935.616	870.649	792.863	721.932	659.426	619.168	622.967	640.699
55.0	969.112	941.542	894.113	829.842	749.994	677.215	609.953	567.707	571.636	589.926
57.5	926.197	898.506	852.628	786.509	707.525	629.218	562.347	518.159	520.509	539.960
60.0	881.331	854.857	809.183	743.659	665.659	586.730	516.032	468.017	469.893	489.976
62.5	834.775	809.796	764.931	701.087	622.985	541.614	472.299	422.417	421.516	442.547
65.0	788.562	764.893	721.003	659.017	581.185	501.225	429.198	375.926	373.734	396.287
67.5	740.398	720.381	677.828	616.873	540.796	461.496	388.132	332.751	327.985	351.802
70.0	694.901	673.824	634.364	575.491	500.984	423.049	347.269	288.024	283.537	310.299
72.5	648.029	629.033	592.880	535.149	464.617	385.744	309.649	248.137	242.081	270.189
75.0	603.460	586.294	550.726	497.742	427.777	351.041	274.183	210.507	202.147	233.238
77.5	559.068	544.298	511.629	461.784	392.962	317.396	240.854	174.875	164.341	197.224
80.0	517.453	503.724	473.841	425.659	360.553	285.655	209.393	142.893	129.470	165.623

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CANDELA TABULATION - (Cont.)

82.5	478.198	465.295	437.577	391.578	329.267	257.677	182.167	112.741	97.098	135.647
85.0	442.333	429.384	402.390	359.410	300.499	230.172	156.501	87.930	66.546	108.839
87.5	407.313	395.312	370.529	329.676	273.069	205.965	134.365	66.825	37.955	86.100
90.0	374.672	364.500	340.693	302.478	248.499	184.284	115.137	50.458	13.051	66.156
92.5	345.133	335.231	312.640	276.199	225.017	164.425	98.770	38.048	9.047	50.820
95.0	316.718	307.577	286.566	251.908	204.600	146.460	85.124	29.520	7.626	39.432
97.5	292.195	282.330	262.879	230.135	184.888	130.520	73.448	23.464	6.205	30.960
100.0	269.093	259.832	240.529	209.578	167.035	116.558	63.713	19.405	4.524	24.161
102.5	247.942	238.569	220.251	191.158	151.197	103.730	55.827	16.330	2.954	19.015
105.0	228.119	219.248	201.590	174.234	136.743	93.066	49.027	13.934	1.542	14.918
107.5	210.275	201.534	184.730	158.507	123.534	83.174	43.138	12.048	0.864	12.039
110.0	193.936	185.353	168.967	144.314	111.644	74.488	37.630	8.750	0.399	9.791
112.5	178.135	170.481	154.671	128.941	99.281	64.716	32.131	5.035	0.260	7.292
115.0	164.081	156.009	141.416	116.856	90.113	56.979	27.913	3.446	0.232	4.338
117.5	150.714	143.199	129.442	105.904	77.860	48.433	24.579	2.731	0.158	2.619
120.0	138.852	131.421	116.512	96.085	67.401	42.209	20.464	2.499	0.093	1.904
122.5	127.352	120.014	104.213	83.555	58.465	35.493	17.788	2.239	0.186	1.365
125.0	116.781	109.601	94.599	72.547	50.086	31.471	15.215	1.588	0.427	0.734
127.5	106.554	99.792	83.555	61.893	41.726	27.440	11.509	1.533	0.204	0.427
130.0	96.838	90.122	72.092	53.458	36.664	23.102	7.691	1.365	0.325	0.464
132.5	87.930	79.207	62.914	45.237	32.781	20.334	5.638	1.143	0.381	0.427
135.0	78.548	69.203	52.762	39.618	27.783	17.556	5.081	1.115	0.585	0.725
137.5	70.420	60.713	44.884	35.224	24.059	15.438	4.849	0.901	0.762	0.771
140.0	61.735	51.052	35.456	30.839	21.894	11.890	4.431	0.985	0.827	0.882
142.5	55.465	43.315	30.310	26.446	19.721	8.472	4.217	1.105	1.087	1.078
145.0	49.260	33.877	26.381	22.052	16.720	7.422	3.818	1.403	1.124	1.078
147.5	42.181	27.012	22.136	19.925	12.094	6.744	3.205	1.579	1.282	1.282
150.0	33.905	21.755	19.015	16.943	8.815	5.583	2.842	1.588	1.449	1.644
152.5	24.885	18.652	16.024	11.481	7.793	4.997	2.369	1.598	1.783	1.718
155.0	17.473	14.352	10.933	8.657	6.493	4.357	2.081	1.783	1.709	1.756
157.5	10.404	8.360	7.728	7.320	5.611	3.595	1.923	1.941	1.932	1.951
160.0	5.964	6.038	6.930	6.354	4.598	2.898	2.071	2.016	2.136	2.155
162.5	5.155	4.970	5.945	5.035	3.660	2.081	2.044	2.090	2.090	2.071
165.0	4.152	4.059	4.700	3.966	2.703	2.155	2.192	2.174	2.387	2.294
167.5	3.279	3.121	3.521	2.657	2.248	2.174	2.164	2.248	2.387	2.545
170.0	2.443	2.434	2.406	2.350	2.276	2.406	2.397	2.406	2.601	2.722
172.5	2.406	2.341	2.350	2.480	2.629	2.434	2.406	2.499	2.880	2.907
175.0	2.805	2.703	2.685	2.740	2.731	2.759	2.768	2.768	2.991	2.991
177.5	3.019	2.815	2.954	2.861	2.972	3.028	2.917	3.028	3.056	2.935
180.0	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982

Vert. 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	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106
2.5	1397.446	1398.868	1403.215	1404.794	1401.116	1398.087	1396.861	1395.338	1392.245	1389.142
5.0	1392.077	1394.149	1399.694	1401.645	1398.793	1396.313	1395.514	1393.183	1390.517	1386.560
7.5	1382.621	1386.653	1392.811	1396.908	1395.003	1393.638	1393.350	1391.511	1387.693	1382.826
10.0	1369.877	1375.301	1383.132	1389.421	1389.421	1389.319	1390.043	1388.269	1383.699	1377.828
12.5	1351.930	1360.430	1371.131	1379.203	1381.321	1383.067	1385.083	1383.401	1378.636	1371.354
15.0	1330.045	1341.657	1355.702	1366.059	1370.713	1374.846	1377.698	1376.137	1370.852	1362.288
17.5	1304.529	1319.010	1336.055	1349.673	1357.355	1363.839	1368.288	1367.369	1361.359	1350.556
20.0	1275.863	1292.871	1313.316	1330.789	1342.261	1351.076	1356.974	1356.361	1349.989	1337.783
22.5	1242.125	1263.917	1288.598	1309.117	1324.175	1336.650	1344.035	1344.518	1336.752	1322.094
25.0	1205.935	1231.294	1260.090	1285.746	1304.770	1320.125	1329.089	1329.860	1321.527	1304.714
27.5	1167.414	1195.652	1229.799	1260.062	1282.291	1301.092	1312.591	1313.502	1304.817	1286.545

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CANDELA TABULATION - (Cont.)

30.0	1125.548	1158.088	1196.042	1231.108	1258.130	1280.080	1293.307	1295.305	1285.570	1265.171
32.5	1080.729	1117.755	1159.741	1199.712	1231.526	1256.653	1272.026	1275.082	1264.066	1242.116
35.0	1033.921	1074.970	1122.882	1166.606	1202.944	1230.662	1248.051	1251.516	1240.787	1217.361
37.5	985.647	1031.999	1084.686	1132.394	1173.164	1203.316	1221.922	1225.656	1214.574	1189.921
40.0	936.573	986.882	1043.712	1095.963	1140.067	1173.331	1194.017	1197.872	1186.140	1160.289
42.5	887.220	940.725	1002.209	1056.782	1106.032	1141.637	1163.215	1167.534	1154.808	1128.734
45.0	835.397	892.794	958.383	1017.257	1068.987	1107.704	1129.468	1134.428	1122.362	1093.761
47.5	785.404	845.866	913.731	977.212	1031.497	1071.653	1093.473	1098.666	1087.147	1057.711
50.0	733.478	798.938	869.005	935.783	992.112	1033.847	1056.066	1060.033	1049.629	1020.044
52.5	685.027	751.629	823.498	893.072	950.608	992.214	1015.083	1020.387	1009.194	979.469
55.0	636.111	705.082	778.493	849.247	907.452	949.837	972.010	977.240	965.972	937.529
57.5	588.793	658.172	733.803	804.948	864.602	904.665	926.875	931.640	920.884	893.323
60.0	541.669	612.238	688.426	761.159	819.689	858.582	879.185	884.034	873.194	848.095
62.5	495.327	567.177	644.443	716.089	772.185	811.468	831.533	836.131	826.219	801.929
65.0	452.058	523.732	601.351	671.056	727.942	764.141	782.765	786.825	777.480	755.623
67.5	409.580	482.238	558.213	627.351	682.128	717.055	734.258	737.816	729.335	708.528
70.0	369.563	440.596	516.617	584.965	637.430	670.434	685.677	688.640	682.342	661.990
72.5	330.642	401.619	476.646	543.081	593.595	624.834	638.294	640.569	634.810	617.477
75.0	293.189	366.284	439.091	503.074	550.745	579.485	592.796	594.682	589.192	573.373
77.5	258.671	335.639	402.418	464.496	509.334	536.551	547.354	550.977	545.079	530.021
80.0	228.156	304.995	368.114	427.536	470.906	495.159	506.120	508.164	502.786	489.057
82.5	199.221	274.351	335.723	393.259	433.685	457.604	466.577	468.751	463.465	452.449
85.0	172.209	243.706	305.887	360.023	397.755	421.080	430.164	432.291	427.173	416.370
87.5	148.754	214.715	277.565	329.054	365.671	386.673	395.247	397.356	393.176	382.149
90.0	127.826	191.158	251.332	300.007	334.748	355.518	363.897	364.677	361.082	350.595
92.5	109.554	170.212	227.209	274.165	307.382	326.062	333.763	335.036	332.175	322.440
95.0	93.262	150.751	204.841	249.865	281.094	298.409	306.583	307.884	305.181	295.929
97.5	79.356	133.464	184.498	226.977	256.497	273.747	281.773	282.599	280.444	271.601
100.0	67.485	117.952	165.837	205.854	234.222	250.283	258.504	260.399	257.240	248.667
102.5	57.638	104.520	149.246	186.913	214.056	230.089	237.399	239.740	236.526	227.766
105.0	49.269	92.156	134.217	169.821	195.060	210.507	218.366	220.484	217.353	209.012
107.5	42.869	81.725	120.664	153.649	177.550	192.793	200.670	202.872	199.853	191.261
110.0	37.240	72.510	108.393	138.796	162.102	176.705	184.424	186.653	183.579	175.033
112.5	32.363	64.373	96.643	125.792	147.370	161.601	169.292	171.289	168.391	160.235
115.0	27.830	57.053	86.397	113.753	134.050	148.095	155.154	157.253	154.420	146.729
117.5	23.483	49.826	77.192	102.681	121.807	135.053	142.187	143.812	141.639	133.947
120.0	19.665	42.321	66.147	92.119	110.864	123.051	129.804	131.941	129.479	122.262
122.5	16.395	35.986	58.521	80.480	100.321	111.793	118.639	120.887	118.110	111.236
125.0	13.850	30.644	50.356	71.479	90.670	101.696	108.040	109.898	107.604	100.860
127.5	11.072	26.102	43.082	60.676	81.520	92.054	98.157	99.782	97.860	91.329
130.0	8.072	22.229	37.054	52.594	71.860	82.672	88.905	90.679	88.468	82.403
132.5	5.128	18.931	31.759	45.590	61.930	74.721	79.867	81.641	79.514	74.117
135.0	4.152	16.516	27.235	39.079	52.158	66.899	71.795	73.420	71.507	66.323
137.5	3.530	13.868	23.223	33.329	44.151	59.245	64.066	65.497	64.029	59.190
140.0	3.075	10.524	20.157	28.499	38.122	50.671	56.923	58.288	56.812	52.585
142.5	2.545	6.855	17.435	24.031	32.056	42.404	50.337	51.331	50.086	46.482
145.0	2.044	5.620	14.528	20.389	26.882	34.852	43.788	45.284	43.844	40.333
147.5	1.709	4.849	10.441	17.454	22.377	28.675	37.955	39.051	37.955	34.741
150.0	1.598	4.124	6.995	14.017	18.411	23.696	32.391	33.310	32.335	29.548
152.5	1.663	3.270	5.973	9.586	14.249	19.089	26.502	28.090	27.096	24.839
155.0	1.746	2.434	4.756	6.660	9.382	14.045	19.628	22.777	21.439	19.228
157.5	1.960	2.118	3.939	5.703	6.131	8.100	12.484	16.544	15.011	12.271
160.0	2.174	2.062	2.907	4.431	5.183	5.165	6.530	9.596	8.760	7.366
162.5	2.174	2.201	2.285	3.121	4.031	4.078	4.422	6.038	5.638	5.202
165.0	2.350	2.267	2.304	2.341	2.898	3.288	3.558	4.384	4.189	3.651
167.5	2.471	2.619	2.554	2.480	2.619	2.703	2.917	3.103	2.954	2.805

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CANDELA TABULATION - (Cont.)

170.0	2.685	2.815	2.276	2.638	2.750	2.619	2.842	2.815	2.685	2.777
172.5	2.787	2.777	2.787	2.777	2.861	2.759	2.880	2.731	2.647	2.815
175.0	2.833	2.880	2.991	2.991	2.954	2.926	2.954	2.935	3.093	2.861
177.5	2.954	2.861	2.880	3.195	2.805	2.833	2.898	2.870	2.945	3.047
180.0	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982	2.982

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106	1395.106
2.5	1385.659	1380.503	1379.333	1385.278	1390.600	1396.815	1396.620
5.0	1382.147	1376.528	1374.029	1378.506	1382.909	1388.938	1388.873
7.5	1377.113	1370.025	1366.393	1368.966	1372.162	1377.587	1376.184
10.0	1370.768	1361.201	1355.776	1356.222	1357.578	1361.117	1358.535
12.5	1362.037	1349.943	1342.335	1339.669	1338.601	1341.127	1337.105
15.0	1351.020	1335.619	1324.435	1319.187	1315.945	1316.549	1310.297
17.5	1337.412	1319.549	1303.841	1294.961	1289.406	1288.087	1280.219
20.0	1321.490	1299.290	1281.102	1267.252	1259.263	1255.399	1245.386
22.5	1303.609	1278.306	1255.789	1238.177	1225.461	1218.893	1207.254
25.0	1284.223	1254.340	1227.402	1204.802	1188.899	1178.319	1165.138
27.5	1261.298	1227.969	1195.541	1169.597	1148.771	1136.528	1119.705
30.0	1236.700	1198.866	1162.379	1130.434	1106.441	1091.374	1073.056
32.5	1210.208	1168.213	1127.127	1089.600	1061.751	1042.384	1024.530
35.0	1181.877	1136.491	1090.612	1047.567	1015.130	992.641	972.354
37.5	1151.715	1102.781	1051.617	1004.262	967.264	942.230	919.304
40.0	1120.012	1067.622	1010.643	959.972	918.691	890.601	866.673
42.5	1085.996	1030.494	969.604	914.474	868.800	838.035	812.416
45.0	1050.530	992.567	927.646	868.178	818.138	785.608	757.602
47.5	1014.219	953.098	884.461	821.259	767.485	732.744	704.468
50.0	973.719	912.886	839.939	775.632	716.247	680.661	650.202
52.5	933.164	870.677	797.201	727.821	666.737	628.940	596.763
55.0	891.205	828.021	754.137	681.757	619.093	576.652	544.558
57.5	848.606	785.357	711.203	637.551	572.091	526.417	494.128
60.0	804.260	742.470	668.715	593.279	525.265	477.557	445.686
62.5	759.376	698.942	625.038	549.194	480.297	430.712	397.207
65.0	715.207	655.330	583.145	506.408	438.264	384.565	350.660
67.5	669.012	612.572	542.013	466.521	397.105	340.804	303.518
70.0	626.645	571.004	502.070	427.470	355.369	298.725	260.603
72.5	582.671	530.448	462.852	389.005	316.021	258.401	218.505
75.0	540.592	490.403	425.752	352.666	280.426	221.255	179.603
77.5	499.757	453.433	389.571	318.334	246.103	185.148	141.843
80.0	462.388	417.141	356.595	286.268	214.975	152.432	106.944
82.5	426.421	383.701	325.589	257.454	185.780	122.884	74.999
85.0	392.089	351.802	295.399	229.912	159.864	96.355	45.498
87.5	359.819	321.827	268.062	204.841	137.161	74.163	17.770
90.0	329.936	293.560	242.991	182.222	117.357	56.421	0.362
92.5	301.605	267.170	219.564	161.378	99.578	42.284	0.334
95.0	276.255	243.873	197.791	143.357	84.279	32.196	0.186
97.5	252.326	221.338	178.488	126.637	72.120	24.839	0.121
100.0	230.534	200.652	160.932	112.007	61.688	19.312	0.028
102.5	210.257	182.529	144.992	99.234	52.808	15.466	0.158
105.0	192.217	165.939	129.786	87.883	45.498	12.196	0.000
107.5	175.571	150.315	116.586	77.814	39.330	9.995	0.028
110.0	159.669	136.195	104.910	69.017	34.369	7.719	0.000
112.5	145.549	123.367	94.088	61.029	29.725	5.360	0.009
115.0	132.275	111.282	84.335	54.647	26.381	3.000	0.019

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CANDELA TABULATION - (Cont.)

117.5	120.581	100.786	75.529	48.498	23.009	1.941	0.000
120.0	109.248	90.707	67.773	42.934	19.934	1.458	0.093
122.5	98.789	81.855	60.871	38.206	17.417	1.003	0.232
125.0	89.546	73.485	54.211	33.877	14.881	0.734	0.418
127.5	80.721	66.091	48.693	29.846	12.280	0.576	0.464
130.0	72.612	59.069	42.962	26.186	8.890	0.464	0.464
132.5	64.949	52.827	38.280	23.083	6.224	0.511	0.687
135.0	58.131	47.151	33.663	20.092	4.189	0.706	0.920
137.5	51.740	41.605	29.725	16.925	3.335	0.715	0.910
140.0	45.674	36.506	25.972	13.274	2.712	0.873	0.938
142.5	40.119	31.759	22.321	9.178	2.443	1.152	1.282
145.0	34.602	27.412	18.494	6.168	1.839	1.143	1.412
147.5	29.901	23.371	14.026	4.793	1.672	1.375	1.598
150.0	25.405	18.959	9.270	4.031	1.635	1.635	1.663
152.5	20.519	13.413	6.224	3.242	1.802	1.765	1.718
155.0	14.565	8.490	4.728	2.657	1.876	1.849	1.774
157.5	8.917	5.889	3.874	2.359	2.006	2.164	1.960
160.0	5.824	4.292	2.842	2.239	2.192	2.071	2.090
162.5	4.431	3.177	2.369	2.313	2.471	2.155	2.220
165.0	3.047	2.489	2.267	2.359	2.480	2.313	2.322
167.5	2.573	2.536	2.489	2.703	2.462	2.554	2.201
170.0	2.722	2.917	2.787	2.917	2.675	2.824	2.564
172.5	3.000	2.852	2.842	2.759	2.907	2.805	2.387
175.0	2.972	2.935	2.842	2.824	3.093	2.954	2.685
177.5	3.103	2.963	2.972	3.140	3.112	3.121	3.158
180.0	2.982	2.982	2.982	2.982	2.982	2.982	2.982

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	510.86	N.A.	9.90
0-30	1087.21	N.A.	21.00
0-40	1787.58	N.A.	34.60
0-60	3228.88	N.A.	62.50
0-80	4285.93	N.A.	83.00
0-90	4609.6	N.A.	89.20
10-90	4477.6	N.A.	86.70
20-40	1276.72	N.A.	24.70
20-50	2017.32	N.A.	39.00
40-70	2038.56	N.A.	39.50
60-80	1057.05	N.A.	20.50
70-80	459.79	N.A.	8.90
80-90	323.68	N.A.	6.30
90-110	360.21	N.A.	7.00
90-120	451.77	N.A.	8.70
90-130	506.92	N.A.	9.80
90-150	551.02	N.A.	10.70
90-180	556.85	N.A.	10.80
110-180	196.64	N.A.	3.80
0-180	5166.45	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.00
10-20	378.86
20-30	576.36
30-40	700.36
40-50	740.61
50-60	700.70
60-70	597.25
70-80	459.79
80-90	323.68
90-100	216.99
100-110	143.22
110-120	91.56
120-130	55.15
130-140	30.02
140-150	14.07
150-160	4.58
160-170	0.98
170-180	0.26

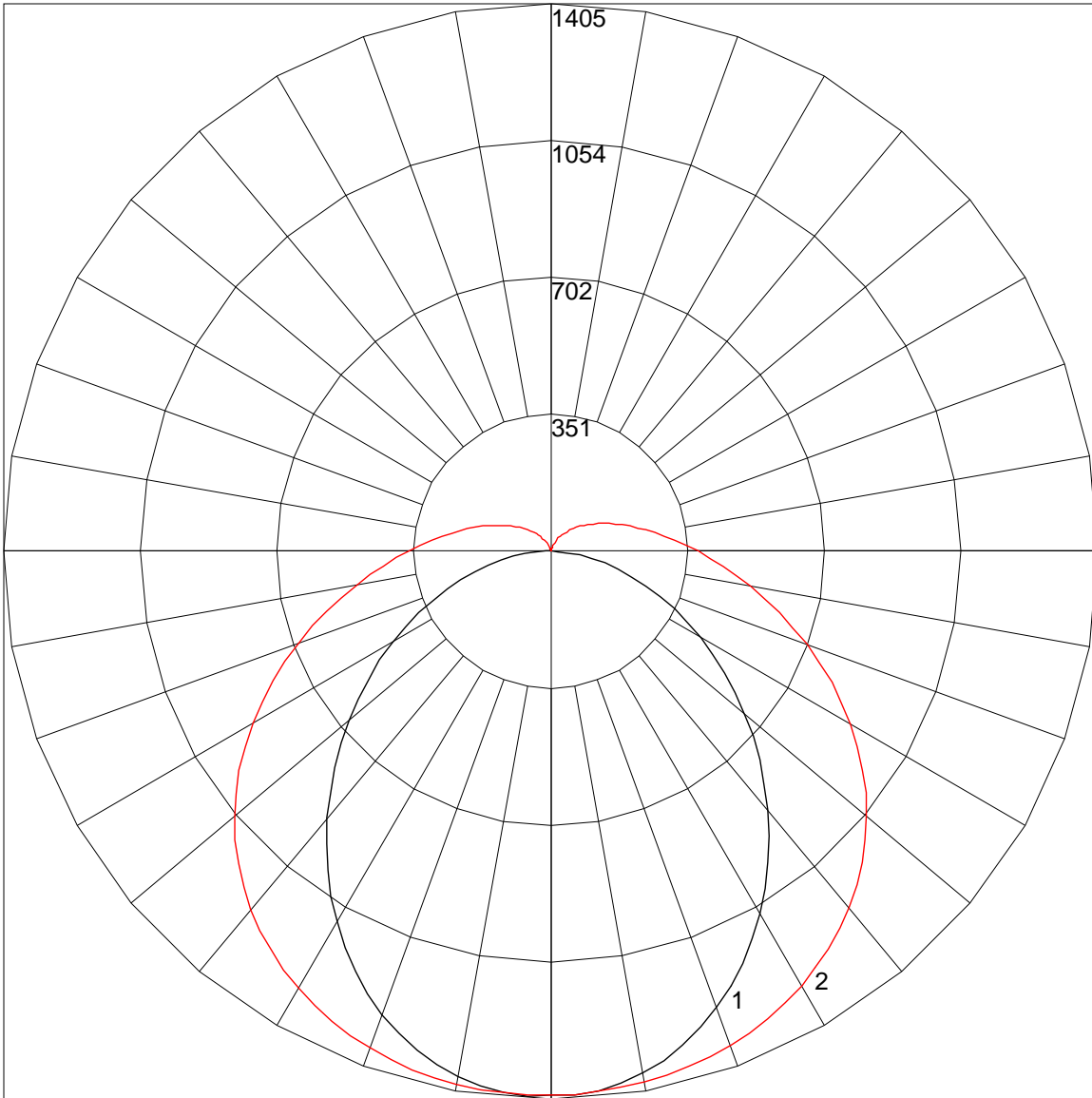
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1404.794 Located At Horizontal Angle = 230, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)