



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L45PSF48-LED1U2D72DMVWH30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L45PSF48-LED1U2D72DMVWH30
 [TESTDATE] 24-Jan-2018 06:47:38
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUE DATE] 1/24/2018 9:19:26 AM
 [MANUFAC] Mobern Lighting Co.
 [LAMP] LED Module
 [_TOTALLUMINAIRELUMENS] 7042.4
 [MORE] (1) OSRAM OT30W (UPL) - (1) OSRAM OT50W (DWNL)
 [BOARD/LAMP TYPE] (2) LED TAPE - 43" (UPL) - (2) LED TAPE - 23" & 24" (DWNL)
 [_NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4580
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.13 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8995	4836	4022
55	8462	3701	3033
65	7024	2617	2097
75	6331	1516	1124
85	3686	462	347

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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	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913
3	1354.340	1353.859	1353.495	1353.293	1353.001	1352.520	1351.993	1351.395	1350.810	1350.479
6	1351.785	1351.070	1351.356	1351.590	1351.356	1350.557	1348.945	1346.234	1343.595	1341.099
9	1346.390	1343.589	1342.750	1341.392	1341.775	1341.171	1338.278	1333.650	1328.697	1324.446
12	1333.468	1328.359	1324.277	1321.352	1322.171	1320.722	1318.031	1311.927	1305.401	1300.091
15	1309.548	1306.545	1304.940	1297.452	1291.602	1290.497	1288.508	1285.505	1276.385	1269.034
18	1278.121	1281.338	1279.180	1270.301	1257.932	1253.336	1252.056	1252.530	1245.738	1234.922
21	1243.671	1241.344	1241.461	1235.812	1224.925	1216.013	1213.602	1215.539	1208.649	1200.381
24	1207.297	1196.026	1194.895	1192.912	1189.019	1180.081	1173.276	1172.190	1165.742	1161.595
27	1168.784	1160.386	1150.318	1151.442	1146.177	1136.466	1129.674	1123.148	1119.950	1115.231
30	1126.138	1125.761	1106.287	1102.653	1092.396	1080.072	1075.106	1069.367	1072.207	1066.175
33	1078.421	1076.426	1059.688	1052.688	1044.478	1032.726	1023.626	1011.673	1017.107	1018.875
36	1030.393	1014.981	1013.142	1000.655	995.923	990.021	979.790	964.710	959.055	968.305
39	984.672	952.659	967.726	934.550	943.202	937.846	925.782	920.959	909.031	910.000
42	930.111	896.649	914.758	879.716	895.342	877.448	866.320	863.876	858.507	851.110
45	859.007	851.155	854.977	824.843	844.512	820.332	807.423	804.869	802.457	798.447
48	790.777	799.747	793.903	765.193	782.034	762.164	754.175	751.146	746.128	745.732
51	743.086	733.622	733.401	709.670	714.369	700.817	699.367	693.205	696.494	686.348
54	699.673	662.837	677.696	652.600	650.754	642.720	635.232	631.884	642.161	625.469
57	648.180	603.011	605.676	595.614	591.149	584.857	576.316	568.730	580.827	568.795
60	567.775	549.107	537.413	529.269	524.173	527.124	516.295	509.158	512.258	512.440
63	489.365	487.357	489.898	466.934	457.184	467.428	455.455	452.114	447.655	451.750
66	422.974	419.737	427.173	411.235	401.173	405.340	388.934	392.041	385.905	388.661
69	379.847	357.311	353.216	344.272	344.714	337.577	324.090	330.843	325.396	326.326
72	339.066	297.479	283.627	283.094	293.533	275.697	268.671	272.837	268.749	265.765
75	279.513	239.759	221.071	222.040	232.635	218.712	213.310	214.831	212.277	207.753
78	211.133	181.538	164.723	166.172	170.820	161.824	160.959	158.795	158.431	153.770
81	156.741	131.586	123.779	125.086	126.210	121.855	118.540	118.930	113.425	111.917
84	102.427	84.240	71.194	77.798	73.287	73.560	73.521	72.533	70.733	71.149
87	56.030	41.353	30.550	29.354	37.043	33.995	32.344	32.539	33.026	33.546
90	23.621	10.718	7.098	9.945	8.294	11.908	11.505	10.926	13.338	11.394
93	16.958	12.174	9.730	11.362	13.533	14.254	15.268	16.172	18.525	16.906
96	30.953	26.507	22.574	24.264	25.174	26.786	27.436	26.624	27.677	27.053
99	48.132	40.904	38.226	38.077	40.313	41.145	40.053	40.748	39.572	39.214
102	64.538	56.654	51.551	52.936	55.250	56.225	56.166	55.737	55.666	56.023
105	83.512	74.782	67.951	69.901	73.066	72.670	72.982	71.981	71.298	71.331
108	99.632	91.825	86.495	87.613	91.461	89.141	89.849	88.614	88.231	87.132
111	111.442	105.534	107.035	104.793	106.541	107.529	105.462	105.482	105.631	104.032
114	125.274	123.981	129.623	124.923	122.590	126.977	123.383	123.636	123.909	121.615
117	146.490	145.073	148.297	142.135	138.742	144.209	141.927	141.537	141.459	139.230
120	169.078	164.268	160.387	159.880	158.340	160.927	159.016	158.613	158.223	156.455
123	186.114	180.758	177.502	177.209	177.073	176.852	176.462	175.994	175.610	173.075
126	198.503	196.651	197.314	192.556	192.887	191.711	193.446	192.705	192.153	189.481
129	209.443	213.824	212.842	205.608	208.500	206.108	209.683	207.779	207.753	205.900
132	223.073	227.357	228.345	220.194	225.082	221.669	222.761	222.774	221.474	221.377
135	241.637	237.536	241.845	236.463	241.800	236.639	236.704	237.334	235.768	235.235
138	259.142	247.851	255.378	250.230	255.599	250.224	252.128	252.063	249.678	249.158
141	269.951	262.340	268.118	262.522	266.656	263.575	265.720	265.271	263.042	264.296
144	278.128	277.452	279.597	277.842	277.556	276.445	277.966	277.160	275.977	277.563
147	288.535	290.309	290.407	289.809	288.541	289.854	289.796	290.023	288.320	286.455
150	299.422	301.255	300.319	300.163	299.949	303.231	300.826	300.423	299.214	294.989
153	308.360	310.505	310.433	309.803	311.395	314.411	309.738	308.964	310.375	306.910
156	316.875	319.377	320.885	318.786	320.307	322.809	319.514	319.754	321.087	318.435
159	326.534	329.433	330.479	328.958	329.329	331.181	330.349	329.355	328.607	325.481

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162	335.049	337.408	337.623	336.823	336.726	338.091	337.064	335.335	333.580	330.395
165	340.216	340.970	341.705	341.867	342.387	342.511	341.211	339.612	337.922	336.115
168	344.064	343.947	344.532	345.494	346.469	346.157	344.961	343.460	342.426	341.529
171	348.569	348.127	348.744	349.063	349.492	349.186	348.107	346.846	345.800	345.039
174	351.487	351.234	351.221	351.104	350.811	350.337	349.531	348.543	347.743	347.080
177	350.655	350.636	350.603	350.239	350.135	349.771	349.362	348.972	348.621	348.348
180	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491

Vert. Horizontal Angles
Angles

	100	110	120	130	140	150	160	170	180	190
0	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913
3	1350.154	1350.232	1350.563	1351.135	1352.182	1353.287	1354.294	1355.406	1356.361	1357.167
6	1339.396	1338.935	1339.383	1340.209	1342.289	1344.856	1347.320	1348.750	1350.836	1351.948
9	1322.158	1320.988	1320.735	1321.528	1323.413	1326.188	1330.426	1332.181	1335.288	1336.608
12	1297.172	1296.243	1296.444	1296.841	1299.551	1300.695	1304.758	1309.295	1313.949	1316.022
15	1264.107	1264.120	1262.293	1261.091	1259.713	1263.489	1271.198	1280.220	1291.069	1285.953
18	1230.190	1227.200	1224.925	1221.291	1215.136	1217.183	1221.512	1245.205	1262.274	1261.760
21	1196.104	1194.505	1191.755	1186.432	1179.321	1170.273	1168.225	1191.352	1224.086	1208.922
24	1159.405	1159.229	1153.880	1149.902	1144.760	1122.283	1117.935	1136.245	1184.397	1149.583
27	1113.801	1114.015	1107.203	1100.430	1110.011	1091.714	1090.225	1078.590	1149.830	1093.787
30	1063.978	1063.328	1052.207	1035.710	1058.811	1036.717	1056.932	1027.578	1110.544	1039.428
33	1011.998	1007.968	1002.313	983.014	997.919	1017.068	1010.230	973.407	1056.958	976.157
36	958.899	956.793	956.826	942.266	934.017	951.964	963.521	904.273	996.801	915.681
39	909.356	906.171	899.106	898.092	880.854	875.940	909.460	837.336	939.159	868.211
42	856.596	844.824	838.922	840.547	832.916	823.738	845.474	774.111	881.088	823.862
45	798.596	786.311	784.940	779.753	770.698	783.497	769.613	719.062	817.921	777.432
48	738.380	736.105	734.506	721.857	707.395	744.939	695.428	667.530	750.633	729.709
51	681.486	682.688	677.098	662.057	659.555	690.950	622.323	620.555	681.980	686.530
54	621.263	624.799	615.842	599.319	610.642	617.064	571.363	567.378	615.972	639.665
57	565.636	562.503	561.138	540.969	558.239	550.173	517.341	513.662	555.035	579.332
60	510.042	500.051	497.068	484.035	492.622	488.423	451.464	459.504	494.604	514.091
63	451.223	440.745	433.225	424.287	428.070	427.570	397.579	405.886	429.780	446.186
66	385.755	380.120	371.163	368.335	374.192	364.708	333.476	347.412	361.640	374.179
69	319.637	317.954	310.830	313.573	312.390	296.276	275.067	290.823	292.415	306.228
72	259.863	260.806	257.289	259.584	256.399	238.465	222.241	235.423	223.275	243.483
75	203.716	206.537	203.814	205.309	201.818	184.457	171.060	181.428	156.162	183.631
78	153.003	156.377	153.276	149.773	150.540	136.838	123.272	130.071	97.077	127.465
81	108.569	109.915	105.768	103.701	102.245	93.691	82.192	76.303	48.119	73.833
84	66.137	66.404	64.506	60.099	58.571	55.386	43.725	41.288	20.579	40.170
87	32.058	30.121	28.788	25.473	25.272	20.670	14.839	13.539	4.472	14.404
90	11.394	12.402	8.489	7.767	7.930	9.100	5.993	4.530	0.559	1.911
93	16.536	13.819	12.597	11.446	10.965	6.935	4.862	3.367	2.788	6.818
96	26.234	25.441	23.848	19.773	19.779	16.939	12.844	10.978	9.769	14.761
99	36.881	37.459	35.828	33.429	32.383	28.216	24.505	21.144	21.391	24.284
102	53.443	53.527	52.052	49.725	48.516	42.581	37.888	36.205	38.590	39.286
105	69.134	69.543	66.592	65.689	64.278	56.823	52.338	52.409	55.659	54.054
108	86.209	85.891	82.797	80.834	80.600	72.806	67.853	69.927	73.086	70.128
111	103.532	102.258	99.040	96.239	96.681	89.856	83.700	88.367	90.558	87.470
114	121.543	119.275	115.817	112.534	114.881	110.402	100.074	106.489	108.771	105.254
117	138.768	136.207	131.722	128.862	130.754	128.674	116.571	123.643	128.167	122.915
120	154.973	153.523	148.245	145.340	148.102	144.651	126.971	140.244	147.238	138.489
123	171.210	170.833	166.588	161.135	164.820	159.809	146.406	158.015	164.664	156.455
126	186.933	185.893	183.612	177.684	178.880	176.923	163.195	173.569	181.720	171.047
129	202.618	199.556	200.921	194.746	193.251	196.943	178.815	185.568	199.563	183.872
132	217.210	213.401	215.423	210.528	207.291	212.290	200.089	195.617	216.333	195.266

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135	233.545	227.038	228.338	226.668	224.029	223.886	220.207	207.733	230.295	207.142
138	248.644	242.957	242.261	243.821	238.004	234.078	239.739	220.460	243.347	218.153
141	259.993	258.466	255.684	258.004	247.656	247.962	254.202	233.818	257.536	230.015
144	270.016	269.431	266.617	266.948	261.352	266.688	265.772	247.949	271.849	244.218
147	282.022	279.838	276.198	275.483	279.103	282.457	274.046	263.614	284.830	261.085
150	293.845	291.687	288.041	287.046	293.657	290.517	282.392	279.441	296.426	272.954
153	304.895	302.146	299.773	299.292	302.510	298.174	295.724	292.259	306.858	290.192
156	314.197	310.524	308.613	308.022	307.242	303.465	306.267	299.045	315.984	304.967
159	320.235	316.316	315.776	315.477	313.865	312.461	313.267	317.661	323.654	315.679
162	326.222	322.952	322.933	323.362	321.789	321.834	323.271	324.824	329.946	327.236
165	333.515	332.046	331.753	331.903	330.856	330.622	332.085	333.976	335.101	332.683
168	340.580	339.885	339.683	339.384	339.014	338.182	338.715	339.599	339.612	337.603
171	344.669	344.513	344.461	344.344	344.116	343.876	344.175	343.947	343.752	342.797
174	346.749	346.710	346.801	346.872	346.983	347.041	346.976	346.729	346.612	346.352
177	348.127	347.997	347.912	347.854	347.821	347.828	347.724	347.678	347.600	347.477
180	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491

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	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913
3	1357.798	1358.539	1358.877	1359.351	1359.696	1359.949	1360.118	1360.092	1360.014	1359.689
6	1353.826	1354.801	1355.269	1355.828	1357.083	1358.240	1359.202	1360.190	1360.840	1361.119
9	1339.591	1339.702	1341.606	1343.790	1346.845	1349.445	1351.200	1352.487	1354.021	1355.471
12	1317.192	1318.063	1321.742	1324.544	1329.536	1333.215	1334.580	1335.314	1337.102	1340.092
15	1288.904	1284.237	1284.094	1291.673	1300.091	1308.307	1308.762	1308.944	1310.718	1316.588
18	1245.660	1238.588	1236.859	1248.143	1260.460	1274.058	1279.102	1278.706	1282.404	1286.818
21	1198.223	1192.581	1201.707	1212.159	1221.525	1236.254	1244.223	1248.890	1252.589	1256.892
24	1148.758	1152.879	1178.411	1187.927	1186.100	1196.130	1207.024	1214.694	1217.755	1221.155
27	1110.596	1126.905	1154.985	1155.687	1149.960	1154.419	1171.170	1171.118	1173.464	1177.169
30	1053.000	1094.281	1102.445	1094.795	1099.078	1107.860	1132.456	1121.828	1125.559	1130.018
33	1017.471	1046.929	1035.008	1035.170	1044.199	1052.174	1078.382	1071.265	1076.452	1078.252
36	984.054	985.302	969.852	992.829	997.347	1004.718	1015.703	1018.686	1027.448	1029.236
39	939.484	910.078	920.075	952.048	943.156	959.432	961.278	963.170	980.063	981.129
42	865.364	855.653	873.106	890.110	884.117	900.919	906.821	908.589	925.899	921.817
45	788.508	812.558	807.878	822.607	831.012	840.560	846.391	857.831	860.509	860.392
48	715.292	769.593	741.968	765.505	783.529	784.231	785.063	804.947	793.032	803.881
51	644.605	715.832	690.612	705.568	725.543	724.230	729.001	744.276	737.178	745.985
54	589.634	646.243	634.699	634.861	655.869	666.477	666.711	679.705	682.467	686.120
57	528.755	577.700	579.611	568.737	592.702	608.614	602.706	616.180	625.950	621.725
60	470.574	506.460	518.121	511.576	526.948	547.137	538.330	552.955	563.472	556.146
63	415.421	442.494	458.874	452.816	464.392	483.346	478.341	488.351	498.257	490.132
66	356.973	384.553	404.651	394.608	401.056	416.032	416.734	422.909	427.979	423.780
69	295.951	315.588	338.806	335.036	336.700	347.925	353.912	357.877	359.144	360.477
72	240.415	254.910	279.168	276.633	278.447	284.563	293.897	295.074	297.011	299.338
75	184.879	199.738	220.317	220.824	221.084	222.943	231.374	235.683	234.435	235.449
78	133.594	149.636	163.085	164.229	167.615	164.463	170.761	177.456	174.226	173.777
81	86.430	97.051	101.588	107.139	105.826	110.357	107.640	113.678	112.456	118.235
84	46.306	56.758	54.912	60.898	62.055	64.415	65.611	65.708	69.108	66.891
87	15.216	20.865	23.231	27.404	25.603	27.319	27.904	31.200	30.134	28.509
90	1.820	3.919	5.850	9.139	9.262	7.611	8.216	12.772	10.250	10.042
93	12.135	17.953	24.544	29.750	34.502	38.363	40.293	43.693	43.049	42.692
96	19.669	28.801	34.567	41.236	45.350	48.132	51.272	53.683	52.910	51.850
99	30.647	39.039	48.171	53.521	56.465	59.969	63.602	64.870	65.780	64.415
102	42.471	50.557	61.737	65.273	69.218	71.389	76.167	77.174	77.616	74.854
105	55.334	63.784	75.484	79.053	82.771	84.961	89.290	91.916	91.052	89.628

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CANDELA TABULATION - (Cont.)

108	69.478	78.845	89.979	93.489	96.980	99.346	103.519	106.886	104.572	104.572
111	84.162	94.757	104.780	108.459	110.903	114.686	118.885	121.719	118.527	119.047
114	101.426	113.282	120.978	122.622	124.533	131.202	135.115	136.896	134.446	134.368
117	109.141	129.974	135.206	136.474	137.806	147.413	150.117	152.802	151.125	150.345
120	131.703	146.341	151.996	151.073	153.952	162.558	164.274	168.597	167.388	166.322
123	148.635	162.662	168.012	164.677	172.523	177.684	179.328	183.508	183.261	182.149
126	162.409	179.478	180.446	179.569	188.643	192.998	194.109	198.185	197.229	196.547
129	177.255	197.704	191.730	195.474	204.457	206.739	208.533	213.141	209.872	209.690
132	197.496	211.035	202.735	210.125	217.301	218.250	221.643	226.791	221.994	223.574
135	217.392	221.156	218.978	225.270	228.780	229.859	235.508	237.880	236.496	237.438
138	236.723	230.867	234.331	241.384	242.229	244.874	248.098	248.449	250.224	252.011
141	250.705	243.009	243.711	254.026	254.787	258.778	258.817	260.513	260.676	264.803
144	261.137	259.317	255.021	262.288	264.108	267.917	270.101	272.675	270.471	273.650
147	270.861	274.079	270.517	271.784	273.734	277.855	283.842	283.231	282.555	282.659
150	281.391	284.095	285.740	285.207	287.651	290.335	294.541	292.786	294.339	293.657
153	295.724	292.311	297.323	299.006	300.352	299.676	300.852	302.237	304.310	304.187
156	298.967	297.810	302.906	306.702	307.866	307.521	308.015	311.408	312.721	313.222
159	311.194	307.528	309.601	312.942	314.853	316.758	318.129	319.826	319.332	319.494
162	321.613	318.129	318.409	321.308	322.686	325.071	327.151	327.177	325.630	324.694
165	329.075	326.644	327.392	329.036	329.582	331.110	332.702	333.229	332.039	331.597
168	335.172	333.996	335.049	335.432	335.549	336.024	337.116	338.019	338.396	339.072
171	342.160	341.282	341.308	341.256	340.918	340.730	340.996	341.705	343.044	344.922
174	346.248	345.949	345.514	345.033	344.578	344.175	344.123	344.662	345.878	347.373
177	347.314	347.184	346.989	346.794	346.703	346.690	346.794	347.100	347.503	348.081
180	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491	348.491

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913	1355.913
3	1359.189	1358.480	1357.525	1356.784	1355.646	1354.938	1354.340
6	1360.879	1360.034	1358.818	1357.161	1355.068	1353.020	1351.785
9	1356.537	1356.862	1356.400	1354.775	1352.812	1349.146	1346.390
12	1343.563	1345.617	1346.826	1345.168	1342.588	1338.200	1333.468
15	1320.689	1323.374	1322.555	1322.659	1321.573	1314.072	1309.548
18	1291.309	1292.518	1286.389	1287.786	1288.066	1285.648	1278.121
21	1260.694	1260.226	1252.530	1249.267	1252.998	1251.263	1243.671
24	1224.229	1227.603	1220.940	1212.822	1216.098	1213.693	1207.297
27	1182.753	1187.478	1189.324	1181.706	1173.835	1172.301	1168.784
30	1133.652	1134.809	1143.506	1140.620	1129.719	1127.262	1126.138
33	1084.603	1085.383	1093.326	1090.011	1086.397	1082.744	1078.421
36	1037.549	1038.011	1039.525	1031.218	1041.404	1033.695	1030.393
39	981.337	985.335	986.823	961.987	993.187	972.289	984.672
42	921.531	926.991	939.406	912.886	938.801	910.273	930.111
45	858.097	868.127	882.115	862.374	880.295	861.945	859.007
48	799.448	808.515	814.573	800.390	823.283	810.771	790.777
51	746.369	746.960	746.057	739.641	761.104	746.538	743.086
54	685.795	684.489	677.378	680.426	701.681	676.617	699.673
57	622.050	619.742	617.051	627.718	627.633	614.113	648.180
60	551.161	557.960	555.490	562.341	560.287	567.515	567.775
63	487.318	497.237	490.795	495.488	509.190	504.354	489.365
66	427.479	433.920	430.261	432.783	439.679	432.185	422.974
69	365.345	362.466	364.877	362.102	364.227	365.488	379.847
72	301.736	297.238	307.372	301.242	294.339	309.341	339.066
75	234.175	238.530	244.341	239.148	231.705	249.996	279.513
78	174.947	178.438	182.006	178.951	169.338	187.505	211.133

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CANDELA TABULATION - (Cont.)

81	118.963	123.656	125.560	125.294	125.099	135.083	156.741
84	72.280	72.611	71.168	74.717	71.175	87.171	102.427
87	26.741	33.761	30.673	26.578	25.044	39.318	56.030
90	9.529	6.636	6.662	5.083	3.581	9.366	23.621
93	40.085	36.055	32.565	25.285	18.785	17.615	16.958
96	53.423	48.256	44.161	38.350	30.361	31.167	30.953
99	64.584	61.373	58.643	51.551	45.454	44.031	48.132
102	76.147	72.429	70.349	62.991	57.024	58.558	64.538
105	88.374	88.146	85.624	78.825	74.054	76.082	83.512
108	103.506	103.285	100.750	95.335	90.298	92.365	99.632
111	118.072	119.028	114.666	114.406	109.226	108.316	111.442
114	134.400	135.798	130.130	129.649	129.168	124.878	125.274
117	151.775	151.417	145.333	146.315	146.328	144.046	146.490
120	168.161	166.965	163.657	161.863	158.808	161.577	169.078
123	184.450	181.434	180.908	178.386	176.533	171.158	186.114
126	199.550	195.325	195.578	192.673	195.682	192.432	198.503
129	213.356	209.501	209.833	207.363	209.774	209.404	209.443
132	224.334	224.315	223.964	220.792	224.438	224.601	223.073
135	236.099	237.035	238.673	235.001	238.914	235.397	241.637
138	249.925	248.124	252.336	247.500	252.733	245.336	259.142
141	263.822	260.240	263.906	259.441	264.894	259.889	269.951
144	276.211	272.051	274.891	275.015	276.204	274.930	278.128
147	285.441	282.782	285.642	287.410	287.007	286.650	288.535
150	294.983	293.163	295.535	297.245	296.484	297.355	299.422
153	305.441	304.109	304.973	305.896	306.845	308.392	308.360
156	315.061	314.275	314.041	315.055	317.551	318.032	316.875
159	322.458	322.946	323.238	324.928	325.858	326.495	326.534
162	326.904	328.822	330.031	332.137	332.761	334.028	335.049
165	332.813	335.198	337.493	339.352	339.989	339.599	340.216
168	341.152	343.824	346.203	346.593	345.949	344.799	344.064
171	347.366	349.901	351.364	351.559	350.974	349.381	348.569
174	349.271	350.902	351.838	352.319	352.306	351.890	351.487
177	348.731	349.414	349.999	350.161	350.668	350.668	350.655
180	348.491	348.491	348.491	348.491	348.491	348.491	348.491

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	403.73	N.A.	8.80
0-30	1030.82	N.A.	22.50
0-40	1596.43	N.A.	34.90
0-60	2855.16	N.A.	62.30
0-80	3469.01	N.A.	75.70
0-90	3562.69	N.A.	77.80
10-90	3458.3	N.A.	75.50
20-40	1192.69	N.A.	26.00
20-50	1768.68	N.A.	38.60
40-70	1640.04	N.A.	35.80
60-80	613.85	N.A.	13.40
70-80	232.54	N.A.	5.10
80-90	93.68	N.A.	2.00
90-110	88.25	N.A.	1.90
90-120	234.18	N.A.	5.10
90-130	379.81	N.A.	8.30
90-150	746.88	N.A.	16.30
90-180	1017.11	N.A.	22.20
110-180	928.87	N.A.	20.30
0-180	4579.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.39
10-20	299.34
20-30	627.08
30-40	565.61
40-50	575.99
50-60	682.74
60-70	381.32
70-80	232.54
80-90	93.68
90-100	25.38
100-110	62.86
110-120	145.93
120-130	145.63
130-140	159.84
140-150	207.23
150-160	130.22
160-170	92.56
170-180	47.45

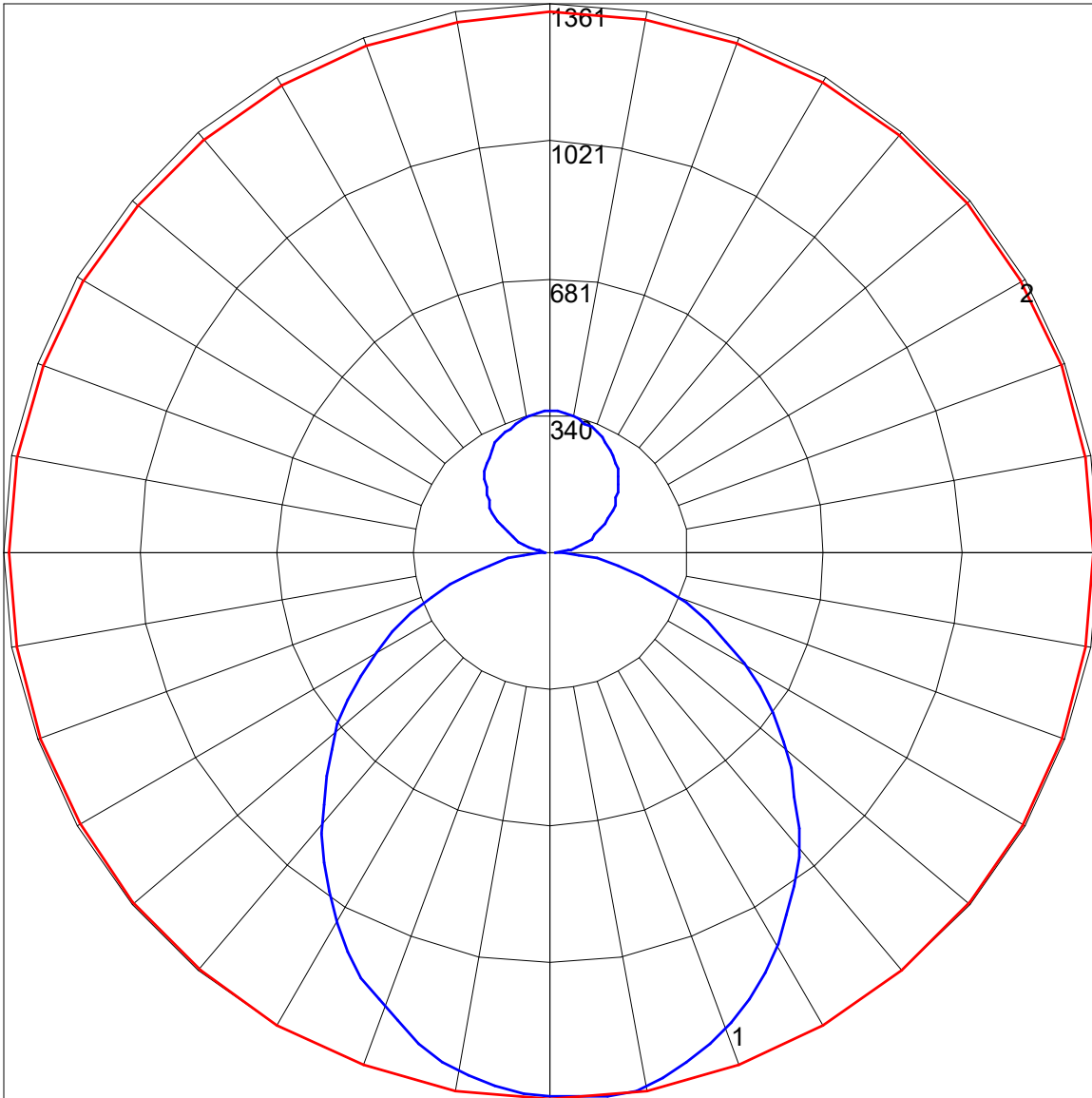
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	104	99	95	91	91	99	95	91	87	86	83	81	79	76	74	72	70	68	65
2	94	86	80	74	74	90	82	77	72	75	71	67	69	65	62	63	60	57	54
3	86	76	68	62	62	82	72	65	60	66	61	56	61	56	52	55	52	48	45
4	79	67	58	52	52	75	64	56	50	59	52	47	54	49	44	49	45	42	39
5	72	60	51	45	45	68	57	49	43	53	46	41	48	43	38	44	40	36	33
6	66	54	45	39	39	63	51	43	38	47	41	36	44	38	34	40	35	32	29
7	61	48	40	34	34	58	47	39	33	43	36	31	40	34	30	37	32	28	26
8	57	44	36	30	30	54	42	35	29	39	33	28	36	31	26	34	29	25	23
9	53	40	32	27	27	51	39	31	26	36	30	25	33	28	24	31	26	23	21
10	50	37	29	24	24	47	36	29	24	33	27	23	31	25	21	29	24	20	19

POLAR GRAPH



Maximum Candela = 1361.119 Located At Horizontal Angle = 290, Vertical Angle = 6
1 - Vertical Plane Through Horizontal Angles (290 - 110) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (6) (Through Max. Cd.)