



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LLPFR48LED2U1D54DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]LLPFR48LED2U1D54DMV40
 [TESTLAB]Radiant Vision Systems ProSource
 [ISSUEDATE]9/26/2018 4:09:04 PM
 [TESTDATE]13-Mar-2017 14:37:55
 [MANUFAC]Mobern Lighting Co.
 [LAMP]
 [_NUMBEROFRAYS]10000000
 [OTHER]Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	50.5
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</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	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388
3	434.528	434.565	434.514	434.842	434.727	434.787	434.909	435.010	435.122	435.314
6	430.997	430.909	431.357	431.575	431.568	431.464	431.477	431.336	431.322	431.639
9	426.962	426.493	426.892	426.970	427.554	427.765	427.556	427.159	426.924	427.074
12	422.240	421.500	421.516	422.232	423.570	423.879	423.553	422.677	421.882	421.523
15	416.300	415.791	416.257	416.708	417.745	418.541	418.307	417.949	416.143	414.662
18	408.498	409.429	409.108	409.140	409.016	409.627	410.107	411.334	409.780	407.014
21	398.590	399.835	400.402	399.493	398.987	398.488	399.832	402.316	400.928	398.985
24	387.931	388.903	390.262	388.544	388.606	388.583	389.858	391.448	390.122	389.684
27	377.701	378.501	378.790	378.567	378.415	378.575	380.084	380.118	379.350	378.412
30	366.826	367.025	366.439	366.922	365.738	365.243	366.381	367.551	368.291	366.602
33	354.016	353.349	353.151	354.224	352.780	352.204	351.213	352.921	354.192	355.362
36	339.352	338.274	338.876	340.220	338.294	339.817	337.765	340.222	338.440	342.432
39	323.413	323.396	324.419	322.196	322.781	326.634	323.754	327.351	325.099	325.958
42	307.278	306.798	307.560	306.116	308.586	311.270	309.517	310.244	311.002	308.885
45	291.428	287.656	290.263	289.701	292.309	293.648	293.131	292.702	293.359	293.967
48	273.571	268.889	273.055	272.145	275.066	275.247	275.805	276.606	273.917	278.357
51	252.157	252.616	252.335	253.652	257.496	256.640	258.756	259.694	256.055	259.051
54	231.147	233.934	235.102	231.552	238.254	237.207	239.419	241.939	237.417	238.127
57	213.797	213.049	215.404	212.784	220.608	217.425	221.051	221.679	218.982	218.220
60	195.055	192.738	192.854	193.992	200.335	197.619	202.338	200.762	199.094	199.066
63	170.305	171.898	172.655	174.217	176.343	177.099	182.536	181.250	178.502	179.650
66	144.891	147.630	149.702	154.079	155.631	157.796	160.415	160.408	157.362	159.091
69	124.465	124.806	128.959	130.796	135.050	137.375	138.823	137.475	136.744	137.011
72	105.867	105.009	108.435	109.617	115.192	116.754	118.075	115.903	116.981	114.794
75	85.071	85.348	86.928	88.978	92.292	96.394	95.296	95.048	95.870	93.796
78	63.460	65.010	67.260	70.223	71.145	74.588	74.526	74.077	74.776	73.530
81	46.040	47.543	52.889	55.380	55.849	57.970	57.765	58.457	56.909	56.065
84	29.097	31.394	33.241	37.771	36.257	37.258	39.428	38.680	39.091	37.606
87	14.145	16.311	17.020	19.344	20.148	20.454	21.155	20.186	21.912	20.823
90	4.910	6.972	6.766	8.043	8.522	8.758	8.150	8.131	9.147	7.828
93	38.519	32.507	23.635	15.044	10.853	6.129	5.696	4.838	6.653	5.337
96	107.180	96.210	79.739	79.952	60.836	46.499	39.907	38.732	39.657	35.553
99	197.115	176.117	176.155	162.263	149.899	132.686	119.016	115.666	111.149	110.943
102	289.452	272.962	262.306	248.701	239.770	236.346	230.042	223.189	225.638	229.733
105	401.938	388.254	370.452	352.255	345.255	345.886	338.752	345.971	343.531	346.056
108	505.609	493.499	484.131	467.951	463.261	447.610	451.649	457.055	456.122	460.423
111	592.195	586.018	589.315	581.425	572.836	557.074	557.436	559.365	552.793	566.742
114	685.309	686.755	689.618	690.316	680.466	668.436	667.294	660.994	652.212	666.830
117	802.557	792.914	788.299	777.242	770.417	766.899	774.361	759.457	753.182	763.644
120	907.270	880.194	869.931	869.782	867.533	862.808	868.326	853.989	848.387	856.875
123	966.574	962.139	962.673	957.739	954.387	947.848	950.716	945.077	940.716	945.587
126	1016.427	1045.590	1046.409	1028.792	1027.835	1023.760	1024.167	1027.744	1025.549	1029.462
129	1095.667	1115.096	1116.452	1102.248	1102.858	1095.906	1103.990	1101.541	1104.780	1107.797
132	1184.985	1170.802	1187.845	1170.153	1173.875	1166.315	1174.927	1169.744	1172.998	1177.776
135	1257.452	1238.523	1238.284	1236.496	1239.498	1231.361	1243.790	1231.435	1242.590	1238.336
138	1315.140	1309.762	1290.799	1294.908	1298.522	1295.470	1313.065	1294.546	1308.906	1297.534
141	1366.258	1367.538	1350.087	1352.851	1356.821	1363.536	1373.637	1353.126	1368.569	1361.336
144	1413.602	1416.491	1406.799	1421.204	1419.771	1425.662	1425.710	1404.939	1418.981	1418.779
147	1459.149	1467.440	1463.658	1470.089	1469.196	1475.554	1468.002	1458.851	1460.882	1460.276
150	1506.950	1515.002	1512.457	1512.404	1511.600	1519.612	1506.418	1503.813	1500.326	1498.731
153	1558.386	1556.998	1553.915	1553.304	1558.011	1562.990	1542.182	1542.449	1547.866	1546.936
156	1602.243	1595.444	1592.372	1587.422	1592.494	1595.249	1578.672	1584.456	1594.248	1594.567
159	1628.801	1629.546	1628.365	1621.795	1619.031	1620.470	1615.511	1618.834	1627.561	1630.024

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CANDELA TABULATION - (Cont.)

162	1646.503	1655.638	1659.246	1653.765	1645.245	1646.549	1646.640	1649.906	1657.743	1659.751
165	1666.204	1674.120	1682.395	1679.717	1673.926	1674.104	1677.304	1683.733	1689.205	1690.732
168	1689.849	1693.204	1695.605	1693.603	1690.652	1690.657	1696.549	1706.057	1713.044	1713.941
171	1715.249	1712.495	1709.338	1703.639	1699.253	1698.989	1704.166	1711.847	1718.147	1720.895
174	1733.578	1729.453	1725.137	1719.757	1715.542	1713.236	1713.909	1716.165	1718.827	1721.437
177	1737.682	1735.811	1733.642	1731.282	1729.326	1727.526	1726.668	1726.280	1726.242	1726.625
180	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897

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	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388
3	435.455	435.659	435.834	435.933	435.977	436.020	435.735	435.652	435.490	435.255
6	432.239	432.963	433.719	434.051	434.140	433.941	433.358	432.505	432.265	431.996
9	427.889	429.030	430.116	430.516	429.945	428.660	428.160	427.282	427.618	427.972
12	421.981	423.203	424.653	424.854	423.905	421.625	420.736	421.263	422.621	423.759
15	414.399	416.146	417.742	418.120	416.341	414.587	414.405	415.731	417.825	418.416
18	406.810	408.358	410.733	411.190	409.182	408.197	407.861	410.328	411.672	412.089
21	399.034	400.388	402.354	401.658	400.269	400.106	400.506	402.294	402.838	403.522
24	390.371	389.820	389.495	388.672	387.267	387.161	390.092	392.427	393.039	393.738
27	379.858	377.272	376.308	376.243	375.886	374.863	376.018	380.946	383.979	382.203
30	367.817	365.403	365.072	366.263	366.884	363.865	361.779	366.833	374.111	368.527
33	353.065	352.657	354.373	354.626	356.771	353.592	349.357	351.125	361.595	354.498
36	336.941	339.338	340.645	337.188	340.845	342.136	338.081	334.604	346.653	338.757
39	323.258	325.030	323.870	318.866	321.990	325.620	326.838	318.554	330.089	320.246
42	309.408	308.043	309.970	306.323	308.075	307.718	311.332	302.365	312.919	301.522
45	293.239	291.805	294.916	294.055	295.318	288.715	292.166	286.830	295.910	287.114
48	275.253	276.036	276.328	276.163	278.877	271.687	273.317	271.564	278.663	274.085
51	257.243	258.601	257.130	256.860	257.715	256.865	250.979	256.209	260.639	258.228
54	237.605	241.223	237.146	239.685	235.033	237.271	232.403	238.173	241.796	238.209
57	218.884	222.207	218.584	221.931	216.149	215.028	212.369	218.669	222.039	218.780
60	199.063	201.613	199.109	200.862	196.498	191.445	192.969	198.006	200.561	199.485
63	177.939	181.334	179.397	178.726	173.542	171.613	176.199	176.977	177.097	178.694
66	156.051	160.221	157.109	158.449	152.400	153.847	154.172	154.534	154.140	155.702
69	135.295	137.991	134.127	136.060	131.210	130.786	132.616	132.321	133.781	133.085
72	116.039	116.330	114.114	113.463	112.076	109.792	111.406	110.650	113.803	110.912
75	95.379	94.281	94.246	92.839	90.072	89.444	88.513	88.671	91.800	88.282
78	74.367	72.671	74.566	72.517	69.884	70.348	67.077	66.452	69.010	65.554
81	55.732	55.654	54.484	53.797	51.878	51.228	47.728	43.756	45.771	41.773
84	38.120	36.694	35.882	34.884	32.612	34.144	29.010	28.456	28.247	26.546
87	20.844	19.877	18.376	17.321	16.546	14.742	13.297	13.442	13.303	11.570
90	8.990	6.609	7.342	6.951	6.148	5.627	5.175	4.887	4.320	4.417
93	5.627	3.785	4.549	6.858	7.974	13.577	16.671	23.966	30.109	29.415
96	38.396	36.085	32.837	46.400	49.226	67.076	69.100	82.804	93.082	91.593
99	112.758	112.698	106.911	124.478	135.248	148.304	157.314	158.946	176.319	166.272
102	236.331	226.530	231.541	240.880	243.363	253.761	264.884	275.503	289.165	276.652
105	352.621	348.300	340.634	347.247	347.388	355.827	375.274	384.459	397.164	381.120
108	464.445	461.352	449.659	445.971	457.413	467.238	486.744	491.288	502.356	488.651
111	564.063	563.398	552.530	555.843	557.880	576.460	587.508	594.938	601.827	597.170
114	662.854	662.865	663.299	666.065	664.270	681.768	688.192	696.504	700.151	697.663
117	757.850	759.411	767.472	759.426	761.826	756.999	785.078	792.988	800.292	788.204
120	851.001	856.305	857.290	858.300	860.118	836.813	852.293	878.378	891.343	872.823
123	946.838	950.924	941.558	950.834	935.985	930.033	925.089	960.482	964.799	957.780
126	1033.630	1028.572	1018.829	1020.800	1008.576	1021.148	1000.373	1035.030	1035.214	1034.657
129	1110.361	1095.117	1105.053	1090.235	1099.243	1103.406	1074.934	1098.289	1116.569	1101.877
132	1174.980	1161.292	1182.248	1175.200	1184.581	1159.288	1169.416	1153.483	1197.477	1160.925

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CANDELA TABULATION - (Cont.)

135	1243.972	1220.561	1240.940	1245.257	1244.176	1222.441	1248.668	1215.833	1264.500	1223.993
138	1310.297	1284.754	1291.870	1289.151	1293.802	1300.170	1315.572	1276.841	1322.104	1283.175
141	1365.618	1355.013	1354.826	1345.591	1355.359	1372.797	1362.340	1332.225	1377.156	1334.663
144	1414.011	1412.921	1425.672	1417.484	1425.687	1425.605	1399.126	1390.625	1428.497	1388.476
147	1465.028	1462.934	1471.222	1471.971	1470.674	1455.417	1446.609	1457.492	1474.607	1453.171
150	1512.755	1506.801	1501.814	1508.417	1503.649	1488.790	1494.989	1515.754	1520.930	1512.732
153	1555.619	1546.213	1538.150	1551.242	1548.664	1532.923	1541.172	1562.307	1570.432	1561.092
156	1594.611	1586.040	1579.439	1593.521	1594.044	1581.957	1589.668	1601.362	1609.579	1599.298
159	1626.090	1618.205	1617.357	1627.078	1631.693	1632.352	1633.947	1631.991	1628.142	1626.808
162	1654.234	1644.253	1644.149	1652.450	1657.507	1662.940	1663.833	1655.886	1644.866	1650.464
165	1681.778	1671.169	1667.650	1672.530	1677.283	1681.557	1684.574	1679.914	1677.378	1677.717
168	1706.839	1696.997	1691.332	1692.040	1695.578	1698.227	1703.410	1707.734	1710.029	1707.238
171	1719.286	1715.430	1711.935	1710.950	1712.451	1715.791	1720.652	1723.786	1724.839	1721.639
174	1722.849	1723.349	1723.782	1724.267	1725.377	1726.785	1728.028	1728.475	1728.071	1726.359
177	1726.965	1727.503	1728.035	1728.559	1729.148	1729.591	1729.836	1730.112	1730.251	1730.251
180	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897

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	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388	436.388
3	434.949	434.877	434.553	434.286	434.113	433.942	433.800	433.774	433.702	433.748
6	432.199	432.132	431.896	431.578	431.275	430.851	430.547	430.384	430.410	430.596
9	428.895	429.147	429.427	429.468	429.393	429.182	428.901	428.724	428.833	429.009
12	424.729	425.294	425.788	425.915	426.456	426.457	425.877	425.563	426.033	426.568
15	419.131	419.050	418.617	419.551	421.022	421.260	418.863	417.897	419.405	421.598
18	411.175	411.762	410.848	412.163	414.523	414.341	411.181	409.295	411.925	414.303
21	402.912	403.541	402.846	403.613	406.460	405.811	403.568	403.147	403.897	404.708
24	392.179	390.545	391.499	392.532	394.720	394.175	394.568	395.600	393.535	392.088
27	378.137	378.263	381.058	381.457	382.869	382.655	384.195	382.873	381.000	379.875
30	364.721	367.066	371.703	371.100	370.916	372.371	373.219	368.723	369.128	369.400
33	352.837	355.674	360.998	359.895	358.122	359.599	359.383	357.033	357.621	355.756
36	341.001	343.988	346.679	345.927	344.559	345.800	343.666	344.758	344.409	340.228
39	328.925	328.290	328.290	329.030	328.697	331.685	329.700	328.572	330.500	326.633
42	312.615	309.197	311.201	312.552	313.192	314.612	315.073	311.017	315.113	312.091
45	293.821	288.584	296.177	298.095	297.693	297.354	297.434	295.036	297.134	295.791
48	275.174	271.578	280.662	280.760	281.136	280.328	278.333	279.268	277.687	279.098
51	253.020	257.313	260.060	261.170	263.233	260.939	259.980	261.729	259.510	260.844
54	233.921	237.556	236.661	242.730	244.029	241.157	239.876	242.356	240.150	241.303
57	213.339	215.721	217.967	222.389	224.589	220.736	220.521	221.698	220.794	220.246
60	193.949	193.174	199.527	199.029	202.093	200.275	200.784	200.673	200.089	200.047
63	177.001	172.943	176.953	177.792	180.756	179.912	180.071	179.839	178.414	180.845
66	153.528	154.140	154.763	157.921	158.999	158.300	157.332	158.044	155.369	159.614
69	130.153	131.007	132.094	134.328	135.650	136.112	134.399	134.405	132.992	136.375
72	108.391	109.033	111.823	112.097	113.010	114.826	112.915	110.781	112.523	113.827
75	86.439	87.357	89.642	92.802	90.036	92.596	90.858	88.994	91.169	91.387
78	66.080	67.934	68.621	71.786	69.546	69.867	68.978	68.070	69.433	69.531
81	45.724	46.813	46.205	46.994	45.970	47.209	44.169	45.003	45.227	48.915
84	26.121	28.447	25.702	25.928	27.541	27.914	26.380	27.066	27.889	29.744
87	10.331	9.849	11.006	10.332	10.669	10.582	10.912	10.862	11.411	11.110
90	4.282	3.948	4.218	3.322	4.006	4.457	4.597	3.378	4.300	4.750
93	21.413	20.126	17.897	19.790	19.282	17.883	21.006	20.955	21.438	20.838
96	83.149	86.203	70.489	70.049	66.844	67.310	70.391	67.076	72.524	71.212
99	172.950	166.261	162.200	160.339	150.957	150.636	143.971	148.846	151.990	161.852
102	270.944	260.162	258.057	261.559	255.101	247.120	239.392	244.416	248.034	251.452
105	378.183	360.984	361.901	362.663	361.770	369.138	362.979	371.158	374.568	374.061

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CANDELA TABULATION - (Cont.)

108	486.771	471.980	469.670	450.791	465.668	481.623	482.026	492.436	490.729	487.285
111	586.179	578.756	569.177	551.262	563.770	585.497	582.860	590.058	585.422	589.210
114	687.128	680.375	677.276	658.229	674.941	690.933	682.342	681.587	682.768	689.987
117	785.025	755.298	777.816	756.510	784.621	789.439	780.581	785.237	783.845	786.135
120	854.664	837.419	875.525	863.807	878.819	879.278	874.798	886.123	880.814	876.316
123	931.755	934.445	948.557	965.515	964.204	967.584	965.568	967.478	975.509	965.639
126	1007.709	1027.250	1019.709	1045.847	1037.905	1048.917	1043.783	1038.382	1057.468	1049.502
129	1079.814	1103.247	1107.278	1112.926	1111.462	1119.447	1114.827	1110.753	1126.172	1123.495
132	1172.402	1157.066	1187.983	1184.511	1178.413	1187.030	1182.453	1181.444	1184.078	1191.832
135	1250.307	1226.587	1252.239	1251.508	1245.788	1250.542	1258.068	1245.788	1248.243	1254.598
138	1316.255	1303.923	1305.444	1301.682	1306.944	1312.354	1325.049	1308.835	1310.997	1323.943
141	1364.617	1368.799	1359.470	1353.003	1362.785	1369.162	1376.206	1374.668	1364.174	1388.902
144	1401.891	1422.341	1425.619	1418.087	1423.758	1419.903	1421.679	1434.504	1414.104	1430.437
147	1447.543	1461.296	1477.999	1476.011	1474.677	1472.300	1470.599	1480.466	1471.524	1467.367
150	1498.231	1503.367	1516.005	1518.049	1516.975	1518.177	1515.817	1520.867	1521.281	1513.073
153	1547.354	1549.583	1556.354	1558.188	1556.459	1555.548	1558.755	1564.447	1557.479	1552.390
156	1593.124	1592.919	1595.958	1596.480	1593.898	1593.323	1599.599	1605.528	1591.891	1585.838
159	1630.130	1633.043	1629.503	1628.292	1628.118	1626.967	1632.301	1636.828	1627.091	1619.348
162	1657.371	1658.517	1653.068	1654.181	1655.616	1655.620	1658.388	1659.868	1656.869	1651.181
165	1681.863	1678.569	1675.255	1678.154	1681.216	1681.766	1679.204	1678.473	1677.647	1678.488
168	1702.117	1695.846	1693.992	1695.282	1698.827	1699.678	1698.083	1696.792	1697.346	1699.298
171	1716.018	1709.848	1706.665	1707.389	1710.743	1713.771	1715.633	1716.823	1718.405	1719.778
174	1724.329	1722.457	1721.519	1721.803	1724.253	1727.146	1729.680	1732.398	1734.376	1735.750
177	1730.112	1730.888	1730.911	1731.854	1733.199	1734.619	1736.045	1737.374	1738.565	1739.570
180	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897

Vert. Horizontal Angles

	300	310	320	330	340	350	360
0	436.388	436.388	436.388	436.388	436.388	436.388	436.388
3	433.818	433.881	434.034	434.288	434.184	434.397	434.528
6	430.885	431.063	431.286	431.423	431.346	430.973	430.997
9	429.078	429.011	428.898	428.612	428.340	427.407	426.962
12	426.282	425.497	425.311	424.865	424.296	423.219	422.240
15	420.428	418.480	417.574	418.328	418.447	416.959	416.300
18	412.214	409.294	408.609	410.323	410.179	409.753	408.498
21	402.448	400.386	401.007	402.366	402.180	400.670	398.590
24	391.101	391.697	392.301	392.272	393.146	391.219	387.931
27	380.777	382.197	381.961	380.845	380.718	381.318	377.701
30	369.096	369.498	368.765	367.076	366.159	368.976	366.826
33	355.338	355.897	355.167	353.222	352.966	354.024	354.016
36	342.379	342.620	341.003	340.191	341.749	338.711	339.352
39	329.624	328.989	326.407	324.341	328.221	324.582	323.413
42	315.141	313.004	312.421	308.824	308.064	308.414	307.278
45	296.731	294.740	295.466	291.844	288.773	289.357	291.428
48	277.901	276.321	276.521	273.606	274.041	270.885	273.571
51	260.244	258.275	257.570	255.389	255.842	254.404	252.157
54	240.696	239.241	238.159	235.888	237.351	234.871	231.147
57	221.167	219.244	220.788	218.063	215.263	213.595	213.797
60	199.911	199.018	200.149	197.099	193.003	193.247	195.055
63	179.208	178.353	176.213	175.184	173.734	172.050	170.305
66	157.103	157.921	155.347	154.947	150.790	147.438	144.891
69	134.274	135.698	134.004	131.742	129.782	125.166	124.465
72	113.658	113.658	114.251	110.003	109.372	106.528	105.867
75	92.213	91.938	92.592	88.884	87.550	85.639	85.071
78	71.070	69.599	71.443	69.418	66.858	63.598	63.460

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CANDELA TABULATION - (Cont.)

81	49.124	49.603	51.311	51.465	50.568	45.131	46.040
84	30.219	29.840	28.836	32.561	30.169	29.002	29.097
87	12.220	11.986	12.493	13.455	13.644	13.748	14.145
90	5.512	4.646	4.602	5.059	5.599	6.016	4.910
93	19.745	21.575	26.845	24.847	33.267	42.767	38.519
96	72.122	73.550	83.216	102.310	103.608	111.298	107.180
99	161.612	174.820	185.792	194.425	202.742	193.851	197.115
102	256.802	261.832	263.564	274.206	283.490	284.413	289.452
105	367.926	374.125	368.576	377.155	393.675	398.535	401.938
108	470.984	472.657	480.925	486.046	502.905	502.090	505.609
111	570.020	578.790	585.594	592.609	602.401	592.960	592.195
114	684.844	695.558	693.383	699.587	700.073	693.197	685.309
117	792.807	793.653	785.546	783.154	799.569	798.740	802.557
120	884.964	880.244	881.718	868.942	884.933	884.819	907.270
123	972.588	964.425	967.561	955.454	978.961	965.373	966.574
126	1047.891	1042.295	1040.502	1034.618	1052.087	1045.165	1016.427
129	1120.500	1115.238	1118.153	1117.972	1110.243	1109.878	1095.667
132	1184.526	1189.645	1192.948	1184.102	1182.936	1165.688	1184.985
135	1247.000	1253.518	1255.198	1244.576	1249.191	1237.088	1257.452
138	1310.628	1310.377	1310.834	1308.081	1313.992	1309.511	1315.140
141	1370.614	1372.346	1368.852	1371.808	1368.294	1368.465	1366.258
144	1423.044	1425.697	1424.016	1432.122	1416.758	1418.845	1413.602
147	1468.602	1471.971	1469.674	1478.552	1472.452	1467.493	1459.149
150	1520.803	1522.302	1517.508	1525.927	1523.365	1514.281	1506.950
153	1565.337	1570.698	1566.366	1567.541	1565.344	1560.803	1558.386
156	1591.985	1598.057	1597.242	1595.949	1599.412	1600.131	1602.243
159	1617.592	1620.121	1621.210	1621.285	1624.485	1627.198	1628.801
162	1648.113	1648.599	1645.945	1645.557	1645.250	1645.857	1646.503
165	1678.250	1677.740	1672.817	1668.309	1665.738	1662.885	1666.204
168	1701.151	1700.088	1697.111	1690.806	1687.693	1687.108	1689.849
171	1720.433	1719.686	1718.086	1716.110	1717.046	1714.973	1715.249
174	1736.874	1737.193	1737.831	1738.320	1737.799	1735.609	1733.578
177	1740.398	1740.998	1741.171	1740.808	1740.361	1739.203	1737.682
180	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897	1733.897

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	129.94	N.A.	2.00
0-30	337.68	N.A.	5.10
0-40	531.40	N.A.	8.10
0-60	987.07	N.A.	15.10
0-80	1230.28	N.A.	18.80
0-90	1274.04	N.A.	19.40
10-90	1240.64	N.A.	18.90
20-40	401.46	N.A.	6.10
20-50	605.52	N.A.	9.20
40-70	603.10	N.A.	9.20
60-80	243.21	N.A.	3.70
70-80	95.78	N.A.	1.50
80-90	43.76	N.A.	0.70
90-110	352.52	N.A.	5.40
90-120	1161.43	N.A.	17.70
90-130	1965.88	N.A.	30.00
90-150	3916.79	N.A.	59.70
90-180	5283.97	N.A.	80.60
110-180	4931.45	N.A.	75.20
0-180	6558.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.40
10-20	96.54
20-30	207.74
30-40	193.72
40-50	204.06
50-60	251.60
60-70	147.43
70-80	95.78
80-90	43.76
90-100	54.79
100-110	297.73
110-120	808.90
120-130	804.45
130-140	862.73
140-150	1088.18
150-160	666.31
160-170	465.15
170-180	235.72

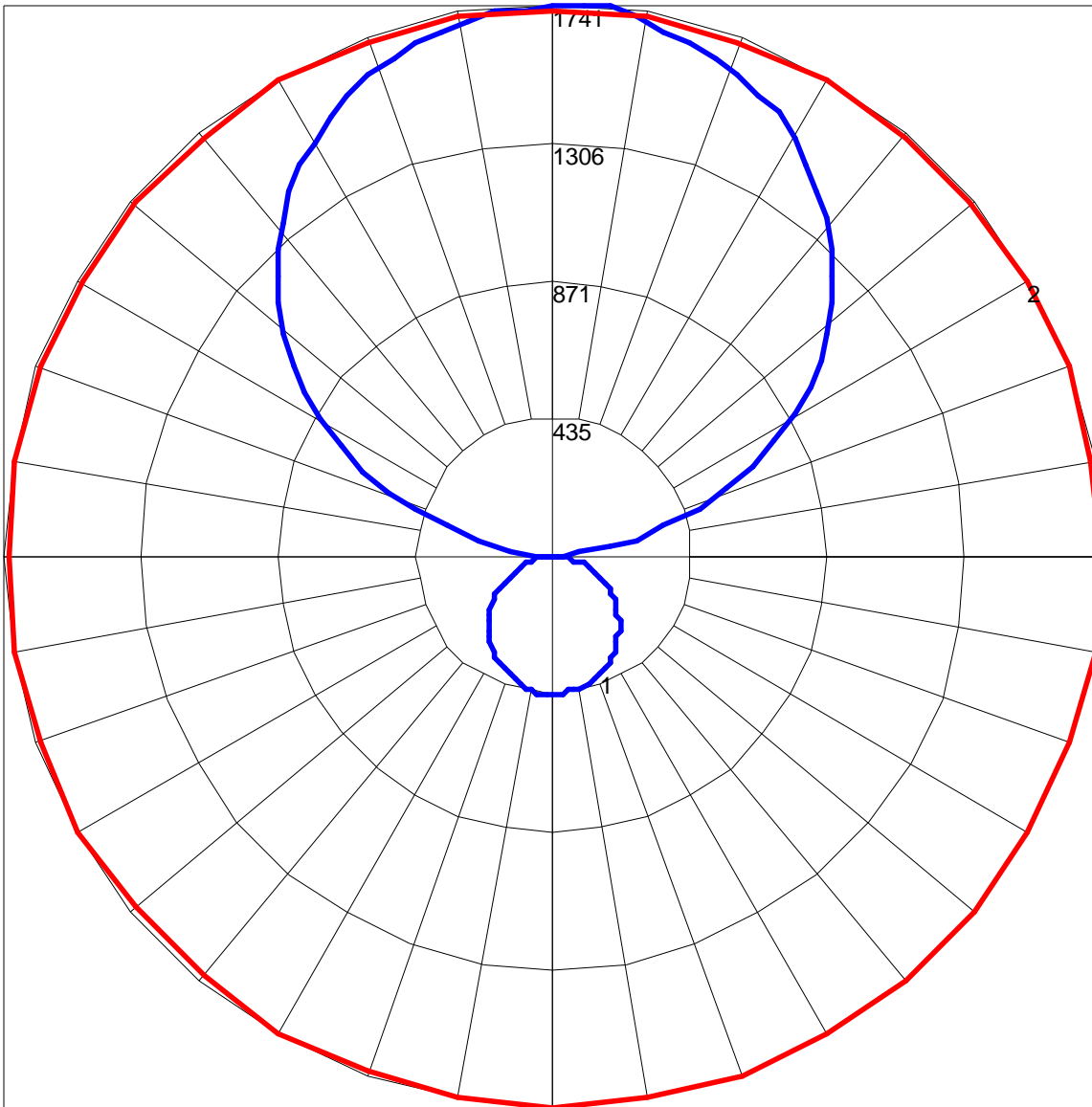
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16
2	82	75	69	65	72	67	62	58	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	53	48	44	40	37	31	28	26	19	17	16	11
4	68	58	51	45	60	52	45	40	39	35	31	27	25	22	17	15	14	9
5	63	52	44	38	55	46	39	34	35	30	27	24	21	19	15	13	12	8
6	57	46	38	33	50	41	34	29	31	26	23	22	19	17	13	12	10	7
7	53	41	34	28	47	37	30	25	28	23	20	20	17	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	27	22	40	30	24	20	23	19	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4

POLAR GRAPH



Maximum Candela = 1741.171 Located At Horizontal Angle = 320, Vertical Angle = 177
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (177) (Through Max. Cd.)