



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : L45PSF48-LED1U2D54DMVWH40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]L45PSF48-LED1U2D54DMVWH40  
 [TESTLAB]Radiant Vision Systems ProSource  
 [ISSUE DATE]6/1/2017 6:30:31 AM  
 [TEST DATE]31-May-2017 07:37:09  
 [MANUFAC]Mobern Lighting Co.  
 [LAMP]LED Module  
 [\_NUMBER OF FRAYS]10000000  
 [OTHER]Absolute Photometry measurement

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4629
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	58
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.22
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	8790	4519	3588
55	7275	3206	2493
65	5869	2146	1619
75	4353	1253	963
85	2393	515	453

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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>
<b>0</b>	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149
<b>3</b>	1559.692	1558.529	1556.889	1555.536	1553.669	1551.961	1551.069	1550.525	1550.379	1550.884
<b>6</b>	1552.142	1549.559	1546.661	1541.809	1536.615	1532.031	1529.574	1528.083	1528.615	1531.448
<b>9</b>	1536.214	1534.222	1530.864	1523.098	1513.561	1504.960	1498.568	1496.561	1498.425	1503.128
<b>12</b>	1510.058	1509.964	1507.526	1500.717	1490.853	1476.677	1465.737	1460.215	1461.407	1466.945
<b>15</b>	1472.854	1469.922	1469.120	1462.779	1451.691	1438.120	1426.147	1421.038	1419.377	1423.240
<b>18</b>	1428.502	1425.781	1414.570	1411.259	1400.139	1390.454	1379.717	1373.577	1372.234	1370.395
<b>21</b>	1381.032	1379.089	1370.728	1361.187	1349.071	1337.150	1328.666	1319.466	1310.197	1307.702
<b>24</b>	1330.522	1333.423	1330.416	1309.504	1291.760	1279.853	1267.974	1253.532	1239.715	1239.996
<b>27</b>	1275.846	1278.643	1274.503	1254.504	1229.301	1217.140	1204.293	1182.003	1168.487	1171.613
<b>30</b>	1215.280	1211.871	1205.643	1187.017	1155.720	1139.271	1126.136	1109.578	1097.015	1099.465
<b>33</b>	1147.650	1143.104	1130.311	1114.049	1085.081	1061.537	1040.757	1027.651	1018.261	1020.339
<b>36</b>	1074.748	1072.233	1049.137	1041.749	1012.256	988.776	963.956	948.670	936.763	937.963
<b>39</b>	999.331	999.334	977.607	959.430	936.993	917.058	890.348	876.671	860.943	857.170
<b>42</b>	925.086	920.994	904.476	884.289	865.682	841.905	821.336	797.194	785.981	780.275
<b>45</b>	853.710	838.130	829.185	811.387	790.811	762.555	745.511	721.086	713.570	708.470
<b>48</b>	778.092	759.161	758.386	740.450	716.143	683.795	670.062	653.772	642.862	641.526
<b>51</b>	693.971	692.869	680.284	665.842	643.747	612.911	602.119	588.676	576.042	578.224
<b>54</b>	616.095	624.024	615.961	583.609	572.958	548.649	535.722	527.960	509.127	515.503
<b>57</b>	556.691	553.073	546.816	520.212	511.005	488.526	477.610	466.213	454.266	451.667
<b>60</b>	498.993	486.119	474.267	458.234	447.284	430.944	419.353	406.065	404.485	392.129
<b>63</b>	426.569	420.268	410.860	398.402	382.502	376.577	365.840	352.066	354.211	341.943
<b>66</b>	352.924	349.416	346.371	342.792	327.720	323.642	311.460	304.063	302.471	297.562
<b>69</b>	293.930	289.260	296.598	280.910	276.128	269.638	258.829	260.041	255.802	254.534
<b>72</b>	244.078	241.981	245.935	230.533	232.214	223.217	215.669	216.282	215.846	213.299
<b>75</b>	194.645	194.740	189.783	185.713	182.975	185.046	175.819	171.310	175.390	175.132
<b>78</b>	146.298	145.554	142.727	144.201	138.367	137.997	139.978	134.354	136.908	139.673
<b>81</b>	107.531	106.235	113.173	112.373	110.181	110.038	112.002	110.151	108.134	110.562
<b>84</b>	68.164	71.816	72.464	75.332	74.951	76.338	81.880	82.500	81.819	82.881
<b>87</b>	34.182	38.676	38.786	40.730	45.325	50.969	53.053	58.470	58.357	58.698
<b>90</b>	9.544	12.833	16.900	22.257	23.878	32.568	32.107	37.473	38.295	44.944
<b>93</b>	14.948	19.642	26.279	34.477	43.201	50.238	56.055	60.436	64.512	64.488
<b>96</b>	26.312	29.469	35.936	44.026	51.139	58.996	65.924	68.951	72.971	73.953
<b>99</b>	39.084	39.696	48.165	54.485	62.777	68.965	74.299	78.779	81.214	81.996
<b>102</b>	55.847	54.345	60.247	66.462	73.997	79.318	83.877	88.393	89.951	89.867
<b>105</b>	71.933	68.543	72.876	78.866	85.750	91.779	94.124	98.868	99.159	99.087
<b>108</b>	88.311	84.316	86.997	91.876	98.681	103.617	105.856	108.695	109.332	108.693
<b>111</b>	105.063	101.904	102.377	106.424	111.568	114.995	117.652	119.181	120.547	118.955
<b>114</b>	123.202	120.623	120.828	124.952	125.606	128.554	129.600	130.726	132.988	130.560
<b>117</b>	143.596	140.501	141.827	141.780	139.976	142.268	141.906	142.770	145.404	143.779
<b>120</b>	165.599	161.778	159.346	158.831	158.941	156.375	155.820	155.456	157.714	156.941
<b>123</b>	188.641	185.496	180.421	177.867	178.304	172.415	172.254	169.947	171.200	168.682
<b>126</b>	214.023	209.424	202.122	199.554	194.529	190.079	188.457	186.186	185.486	180.788
<b>129</b>	242.769	233.161	222.498	224.767	213.027	206.693	204.987	202.914	201.553	195.282
<b>132</b>	273.057	256.845	249.573	246.206	235.176	224.980	222.160	221.524	217.959	211.995
<b>135</b>	302.866	283.998	276.800	266.949	259.839	248.925	244.660	240.870	236.042	230.375
<b>138</b>	332.294	311.520	306.555	290.249	282.556	274.935	268.151	261.308	255.204	250.661
<b>141</b>	361.674	338.014	334.427	317.771	305.114	299.233	289.379	283.392	276.512	273.068
<b>144</b>	390.287	365.857	360.114	351.715	335.573	324.468	314.108	307.176	299.477	296.981
<b>147</b>	417.103	397.823	387.898	380.274	367.606	350.552	340.250	335.222	324.651	321.924
<b>150</b>	441.160	428.074	413.725	405.696	394.571	377.954	368.341	362.499	351.538	348.790
<b>153</b>	462.134	454.769	440.668	430.808	421.601	407.530	396.887	387.968	380.303	378.419
<b>156</b>	482.081	479.069	470.059	458.582	449.516	436.267	425.542	418.079	412.101	410.008
<b>159</b>	502.669	503.063	497.119	489.735	478.281	465.508	456.464	449.621	444.677	442.313

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**CANDELA TABULATION - (Cont.)**

162	521.701	523.576	518.398	512.409	502.163	492.357	483.548	477.823	475.747	474.099
165	536.822	537.155	535.549	530.375	523.474	516.352	509.505	505.585	503.204	504.167
168	548.874	548.993	547.793	545.149	542.372	537.459	533.274	530.465	530.261	531.354
171	559.517	559.521	559.826	558.037	556.509	554.915	553.756	553.495	553.944	554.572
174	570.344	570.543	571.785	572.073	571.724	571.304	571.830	572.007	572.294	572.959
177	581.694	581.878	581.798	583.070	582.809	583.234	583.860	584.356	584.792	585.332
180	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200

**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	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149
3	1551.284	1552.070	1552.799	1553.282	1553.693	1554.182	1553.515	1553.887	1554.134	1554.287
6	1535.391	1539.399	1543.144	1544.717	1545.275	1544.841	1543.182	1540.580	1540.656	1540.751
9	1510.851	1518.913	1525.033	1526.741	1524.420	1520.343	1520.251	1517.922	1519.457	1519.752
12	1475.446	1485.407	1493.427	1493.339	1490.432	1484.369	1485.952	1490.424	1494.740	1494.952
15	1427.438	1437.854	1443.725	1444.840	1441.437	1446.213	1456.124	1463.488	1469.394	1467.404
18	1373.800	1378.454	1387.084	1392.238	1396.851	1411.745	1423.360	1435.313	1436.985	1436.687
21	1314.136	1322.032	1331.287	1338.062	1350.492	1367.783	1378.897	1389.225	1391.203	1389.670
24	1250.446	1256.801	1260.689	1271.989	1285.111	1294.920	1314.416	1329.721	1335.765	1330.945
27	1177.201	1176.541	1185.229	1200.760	1216.647	1224.993	1240.372	1265.700	1276.218	1266.653
30	1098.731	1096.634	1110.808	1130.663	1153.276	1163.482	1171.766	1196.429	1215.032	1196.279
33	1018.071	1018.166	1042.017	1062.643	1094.013	1106.728	1103.056	1121.432	1152.911	1121.085
36	938.955	946.255	969.103	981.976	1017.308	1045.923	1029.835	1039.314	1087.026	1040.022
39	862.603	875.734	883.948	895.679	928.041	963.900	968.973	960.878	1014.763	962.594
42	783.956	798.100	811.198	826.177	852.804	878.426	891.111	886.494	938.002	887.529
45	710.877	725.130	738.724	762.764	784.011	791.961	827.851	815.570	859.610	814.776
48	643.829	651.317	661.701	687.002	713.989	718.564	741.093	746.064	781.867	745.187
51	580.366	575.490	593.956	614.738	639.601	656.511	655.510	681.049	706.468	681.415
54	513.001	515.881	533.863	556.442	566.599	580.683	590.720	613.181	633.252	612.252
57	452.733	462.428	478.693	496.993	504.539	507.467	523.739	546.115	561.648	541.516
60	397.352	406.236	419.124	428.313	440.778	439.799	457.872	479.701	490.901	473.298
63	348.063	351.406	364.382	367.849	373.676	381.492	405.084	417.323	420.907	411.556
66	300.793	299.907	310.820	316.283	318.196	329.170	342.566	354.945	354.144	350.046
69	254.391	252.722	259.456	260.868	266.341	272.683	284.635	293.254	293.292	290.127
72	211.761	210.253	214.893	212.191	221.395	223.107	231.621	234.841	239.169	233.707
75	170.474	170.462	172.530	171.062	175.369	175.638	179.917	183.473	191.308	181.528
78	133.735	134.688	135.755	133.694	135.060	135.231	135.554	138.196	146.250	134.097
81	105.976	107.212	103.430	102.393	99.696	97.284	97.261	92.289	97.408	88.048
84	82.473	76.762	76.399	70.973	64.570	63.264	60.174	61.641	59.613	58.622
87	57.567	54.380	50.799	45.121	36.818	31.818	31.885	30.185	29.282	30.153
90	42.287	41.977	35.491	32.377	23.344	15.537	15.871	10.581	8.948	9.496
93	64.983	61.725	54.522	47.753	45.567	37.686	31.120	22.212	14.905	13.126
96	73.344	72.005	63.938	57.689	54.784	48.679	41.023	32.546	24.111	23.169
99	81.948	80.042	72.835	68.698	65.010	58.880	52.461	42.697	35.075	33.587
102	90.281	85.817	81.110	77.551	73.489	67.740	60.514	53.444	46.662	45.448
105	100.219	94.671	91.794	89.895	84.760	78.409	71.960	66.634	62.446	58.966
108	110.335	104.991	103.549	101.630	97.791	89.369	84.605	81.791	80.422	75.293
111	120.533	116.245	115.175	113.684	111.313	102.408	99.039	99.303	99.815	95.129
114	132.012	128.410	127.241	127.621	126.047	120.151	117.358	117.576	118.847	115.861
117	143.282	140.365	139.450	141.667	139.781	136.341	136.864	137.314	136.921	137.433
120	153.091	151.407	152.398	155.673	156.858	152.899	152.798	159.001	158.961	160.289
123	163.636	163.672	167.469	170.422	175.141	172.832	174.449	181.300	188.486	183.389
126	176.908	178.982	183.353	187.861	193.366	196.143	198.488	204.856	218.096	207.449
129	193.742	195.887	201.005	207.209	213.637	220.953	220.380	232.605	240.896	234.869
132	210.830	214.233	218.162	227.478	234.211	241.851	249.279	259.241	262.587	260.249

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**CANDELA TABULATION - (Cont.)**

135	229.769	232.848	238.105	249.062	257.578	264.968	276.668	283.890	289.435	283.356
138	250.633	253.715	259.988	272.170	283.024	289.720	303.748	308.806	317.216	306.925
141	273.673	276.989	282.397	295.952	307.488	315.311	329.481	336.646	341.302	333.419
144	297.419	300.302	308.263	319.602	333.486	345.548	354.883	364.066	365.939	360.276
147	322.799	327.006	334.369	344.320	360.813	373.376	382.763	390.527	395.449	387.664
150	349.467	355.227	363.331	372.883	388.356	401.327	409.763	418.570	425.492	416.136
153	377.923	382.846	393.650	405.027	418.807	429.710	439.500	448.643	451.274	445.419
156	409.712	414.758	423.685	434.997	448.927	459.058	469.838	475.500	474.931	471.949
159	442.972	447.781	455.376	464.056	477.333	488.831	494.331	499.353	499.417	496.934
162	475.631	478.105	483.522	490.860	500.644	511.346	516.147	522.640	523.704	521.739
165	504.894	508.751	512.322	517.941	525.172	533.681	540.190	543.077	545.755	542.996
168	532.690	534.702	538.131	542.372	548.471	553.398	558.481	561.723	563.411	562.182
171	555.598	556.582	557.980	560.327	563.568	567.675	571.802	573.903	575.337	574.681
174	573.426	574.140	575.249	576.187	578.032	580.062	581.784	582.522	583.351	583.048
177	585.624	586.067	586.512	586.921	587.545	588.264	588.372	588.815	588.948	588.768
180	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200

**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	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149
3	1554.325	1555.726	1555.679	1556.189	1556.734	1557.074	1557.356	1557.804	1558.119	1558.668
6	1543.401	1545.155	1545.772	1545.710	1545.622	1544.220	1542.898	1542.372	1542.723	1544.172
9	1522.872	1522.793	1524.693	1524.827	1522.623	1518.799	1515.249	1513.328	1514.786	1517.865
12	1493.839	1492.700	1494.666	1492.157	1488.273	1480.845	1475.317	1473.770	1476.842	1482.990
15	1464.695	1457.899	1450.915	1447.232	1441.408	1434.860	1426.676	1426.929	1431.115	1441.056
18	1428.242	1421.925	1406.597	1396.527	1388.405	1379.955	1375.060	1373.025	1380.520	1387.327
21	1381.862	1375.199	1355.248	1337.429	1330.627	1322.501	1315.058	1311.267	1317.584	1327.870
24	1317.486	1300.086	1284.063	1266.031	1256.427	1252.292	1246.554	1240.149	1246.340	1257.640
27	1243.061	1230.130	1214.685	1195.875	1182.138	1172.881	1168.526	1159.746	1172.204	1179.630
30	1174.377	1169.840	1151.914	1126.384	1106.833	1096.929	1088.541	1076.750	1095.166	1098.121
33	1106.045	1112.000	1088.274	1054.064	1028.590	1013.028	1006.203	997.262	1005.927	1011.703
36	1032.401	1046.162	1005.774	973.731	948.085	927.588	921.511	918.385	915.661	938.502
39	968.965	956.627	915.045	890.362	862.406	849.052	839.805	836.647	840.362	867.734
42	894.685	868.437	840.079	814.242	788.124	769.742	759.172	755.634	768.172	780.418
45	812.798	785.060	770.992	740.383	713.865	697.229	684.115	679.912	693.767	698.972
48	742.833	713.407	700.139	663.445	640.724	627.725	615.008	610.985	620.782	630.259
51	649.905	646.550	625.466	594.101	575.259	557.276	552.873	548.722	554.827	564.297
54	581.045	566.795	553.383	535.225	509.379	495.803	489.430	489.490	489.246	505.321
57	515.836	495.390	490.194	476.150	450.097	437.130	431.087	430.410	432.509	447.177
60	452.534	428.761	423.493	411.661	393.483	381.371	375.126	374.943	379.280	388.595
63	397.467	373.161	356.756	351.746	342.191	331.028	325.148	326.349	329.180	333.036
66	333.439	323.194	304.724	301.451	290.197	283.731	278.793	281.081	280.938	281.157
69	278.670	263.180	256.015	249.652	241.665	239.684	235.184	235.594	236.147	234.815
72	228.054	212.727	212.177	202.318	200.248	199.784	196.088	193.205	197.123	194.938
75	177.044	169.165	166.219	161.606	160.510	160.968	159.818	157.565	160.935	158.137
78	132.781	131.333	126.195	125.619	125.604	126.236	127.941	126.748	129.057	124.806
81	92.795	92.632	89.106	91.908	90.425	95.416	94.333	95.464	97.138	96.004
84	57.798	61.253	58.698	64.151	67.317	71.519	72.593	72.853	73.730	70.718
87	30.884	31.732	38.120	44.106	48.511	50.282	50.302	54.247	51.779	49.814
90	16.224	20.907	24.850	26.229	36.508	38.212	39.820	42.644	40.583	40.047
93	16.118	19.573	23.700	26.273	29.234	31.542	32.746	36.119	36.170	34.700
96	25.674	28.037	28.894	30.410	33.302	34.981	35.890	38.194	38.440	37.672
99	36.983	37.708	37.805	39.275	39.988	41.328	41.748	43.806	44.823	43.772
102	47.656	48.269	48.312	49.513	50.170	50.501	51.098	52.998	54.416	54.280
105	60.949	60.648	60.280	61.243	60.756	61.538	60.738	61.531	63.712	64.581

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

108	75.030	74.371	73.900	73.226	71.505	72.938	71.394	70.903	74.072	74.484
111	90.473	89.758	88.195	85.532	82.972	83.975	82.594	81.957	84.856	84.968
114	110.025	109.731	104.154	99.559	97.171	95.622	95.323	94.535	96.775	96.951
117	132.495	127.841	119.355	114.436	111.964	109.121	108.661	108.160	109.493	109.955
120	151.873	145.306	138.570	131.364	126.479	124.161	122.100	122.251	123.256	123.487
123	175.169	164.227	158.578	149.288	142.441	139.857	136.667	136.406	138.300	138.668
126	196.889	185.024	175.709	166.772	159.071	155.799	152.444	151.116	153.236	155.603
129	216.544	207.370	193.011	184.391	178.434	172.652	170.119	167.065	169.229	172.412
132	243.846	227.897	212.272	203.516	197.084	191.313	187.107	184.927	185.576	190.052
135	269.371	250.031	235.199	225.135	216.357	209.930	205.889	204.946	203.968	207.822
138	293.989	272.557	258.369	248.076	237.196	231.762	227.362	225.772	223.211	225.732
141	318.273	296.923	281.171	272.545	261.166	257.578	251.197	246.375	243.954	244.311
144	343.732	328.364	309.763	299.225	290.076	282.038	275.362	268.447	266.353	265.869
147	372.767	358.072	340.704	326.574	316.738	308.139	301.732	294.045	291.874	293.682
150	401.694	387.680	369.574	355.310	344.324	337.088	331.797	323.714	320.505	322.950
153	432.702	416.905	400.362	387.480	375.319	368.247	364.452	356.808	352.602	351.744
156	462.461	445.205	431.098	419.767	409.313	404.270	397.856	389.610	386.126	384.960
159	487.858	475.889	463.153	453.151	445.890	438.284	428.388	419.282	416.952	417.621
162	512.538	504.214	492.747	485.081	477.072	468.164	458.322	449.437	448.018	448.879
165	539.478	531.977	523.348	515.765	507.813	499.603	489.169	483.385	480.365	483.166
168	559.295	554.478	549.552	542.264	535.338	527.671	521.468	517.008	514.570	514.815
171	573.357	569.638	565.359	561.044	556.372	552.108	548.433	545.315	543.591	542.844
174	582.648	580.988	578.655	576.133	573.919	571.204	569.083	567.323	565.826	565.302
177	588.271	587.896	587.026	585.987	585.097	584.163	583.264	582.652	581.831	581.307
180	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200	589.200

**Vert. Horizontal Angles**  
**Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
0	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149	1560.149
3	1559.280	1559.832	1560.445	1560.921	1560.635	1560.406	1559.692
6	1546.432	1548.140	1550.456	1552.542	1553.563	1552.762	1552.142
9	1521.608	1524.922	1527.443	1529.904	1534.033	1534.689	1536.214
12	1490.003	1494.187	1498.296	1498.629	1501.981	1506.001	1510.058
15	1446.203	1451.264	1455.163	1460.158	1464.489	1467.237	1472.854
18	1392.136	1399.768	1410.950	1420.810	1420.746	1428.473	1428.502
21	1334.263	1344.850	1366.267	1379.183	1381.299	1385.285	1381.032
24	1267.845	1284.484	1307.011	1316.033	1332.588	1338.348	1330.522
27	1198.492	1218.300	1239.953	1249.614	1266.435	1280.454	1275.846
30	1116.099	1136.878	1163.625	1180.659	1197.474	1211.388	1215.280
33	1032.192	1055.465	1087.378	1107.806	1130.821	1142.566	1147.650
36	955.690	978.751	1009.737	1033.723	1058.129	1072.833	1074.748
39	873.640	905.313	935.635	952.061	985.376	997.570	999.331
42	796.682	832.155	863.299	878.436	903.843	915.724	925.086
45	718.621	754.471	779.643	804.772	826.206	836.461	853.710
48	644.591	675.734	699.672	732.910	758.164	765.443	778.092
51	579.760	601.457	631.287	662.192	679.521	699.454	693.971
54	515.187	530.610	564.556	584.372	613.216	622.276	616.095
57	457.144	467.166	502.299	518.868	541.754	547.291	556.691
60	399.850	410.803	436.250	453.649	469.044	483.998	498.993
63	349.007	357.302	370.883	390.566	408.706	420.850	426.569
66	298.905	306.617	318.426	332.917	343.392	349.083	352.924
69	249.038	256.095	266.056	272.254	286.446	288.211	293.930
72	203.291	211.643	219.101	221.658	234.044	241.008	244.078
75	159.309	169.794	171.911	175.285	183.077	193.262	194.645
78	124.031	130.609	131.056	134.574	138.596	143.095	146.298

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>81</b>	94.449	97.303	98.247	100.906	105.118	102.412	107.531
<b>84</b>	71.375	65.138	67.449	69.250	65.444	67.995	68.164
<b>87</b>	50.179	38.938	40.750	35.631	33.610	34.895	34.182
<b>90</b>	35.856	30.407	26.613	22.210	13.107	10.354	9.544
<b>93</b>	34.138	28.974	23.784	18.820	15.884	14.320	14.948
<b>96</b>	37.624	33.186	28.332	26.549	23.307	23.157	26.312
<b>99</b>	43.696	40.719	38.630	35.594	34.856	34.077	39.084
<b>102</b>	54.295	52.976	51.453	48.387	48.667	50.232	55.847
<b>105</b>	63.969	65.014	62.726	60.735	62.271	65.230	71.933
<b>108</b>	74.764	77.302	76.038	73.953	76.603	80.729	88.311
<b>111</b>	86.128	90.584	90.233	89.240	91.316	97.099	105.063
<b>114</b>	99.427	104.850	105.988	108.924	108.545	115.577	123.202
<b>117</b>	113.794	118.818	121.595	126.519	128.914	136.637	143.596
<b>120</b>	127.470	133.698	140.797	143.585	146.596	158.683	165.599
<b>123</b>	141.978	149.465	160.115	162.376	168.171	182.254	188.641
<b>126</b>	158.114	166.517	177.791	184.606	191.572	206.726	214.023
<b>129</b>	176.723	184.151	198.705	211.829	214.513	232.476	242.769
<b>132</b>	194.408	202.579	222.307	236.549	245.647	257.767	273.057
<b>135</b>	214.606	224.656	247.616	261.960	277.208	284.922	302.866
<b>138</b>	235.459	247.952	270.453	288.776	310.789	313.316	332.294
<b>141</b>	254.286	269.167	291.265	316.128	339.683	343.443	361.674
<b>144</b>	275.921	290.589	314.818	344.745	362.714	372.422	390.287
<b>147</b>	299.876	313.967	339.865	367.005	384.839	399.810	417.103
<b>150</b>	327.255	341.089	363.006	387.557	406.395	425.766	441.160
<b>153</b>	356.119	370.923	389.365	409.680	431.732	451.766	462.134
<b>156</b>	386.084	399.279	416.682	434.241	457.290	474.918	482.081
<b>159</b>	420.248	430.006	445.792	462.624	480.010	495.506	502.669
<b>162</b>	453.217	462.595	474.696	489.547	501.866	515.145	521.701
<b>165</b>	487.458	495.552	505.146	515.859	525.416	531.620	536.822
<b>168</b>	518.542	524.223	531.701	537.204	542.762	546.517	548.874
<b>171</b>	543.532	545.845	549.086	552.771	556.467	558.012	559.517
<b>174</b>	565.349	565.358	566.689	568.169	569.228	569.296	570.344
<b>177</b>	580.857	580.422	580.443	581.204	580.516	581.237	581.694
<b>180</b>	589.200	589.200	589.200	589.200	589.200	589.200	589.200

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	455.14	N.A.	9.80
0-30	1135.05	N.A.	24.50
0-40	1710.15	N.A.	36.90
0-60	2844.9	N.A.	61.50
0-80	3338.93	N.A.	72.10
0-90	3434.95	N.A.	74.20
10-90	3315.81	N.A.	71.60
20-40	1255.01	N.A.	27.10
20-50	1799.45	N.A.	38.90
40-70	1442.19	N.A.	31.20
60-80	494.03	N.A.	10.70
70-80	186.59	N.A.	4.00
80-90	96.03	N.A.	2.10
90-110	103.45	N.A.	2.20
90-120	241.64	N.A.	5.20
90-130	383.56	N.A.	8.30
90-150	800.05	N.A.	17.30
90-180	1194.29	N.A.	25.80
110-180	1090.83	N.A.	23.60
0-180	4629.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	119.15
10-20	335.99
20-30	679.92
30-40	575.09
40-50	544.44
50-60	590.32
60-70	307.44
70-80	186.59
80-90	96.03
90-100	38.07
100-110	65.38
110-120	138.19
120-130	141.92
130-140	169.20
140-150	247.29
150-160	177.14
160-170	139.92
170-180	77.18

**IES INDOOR REPORT**  
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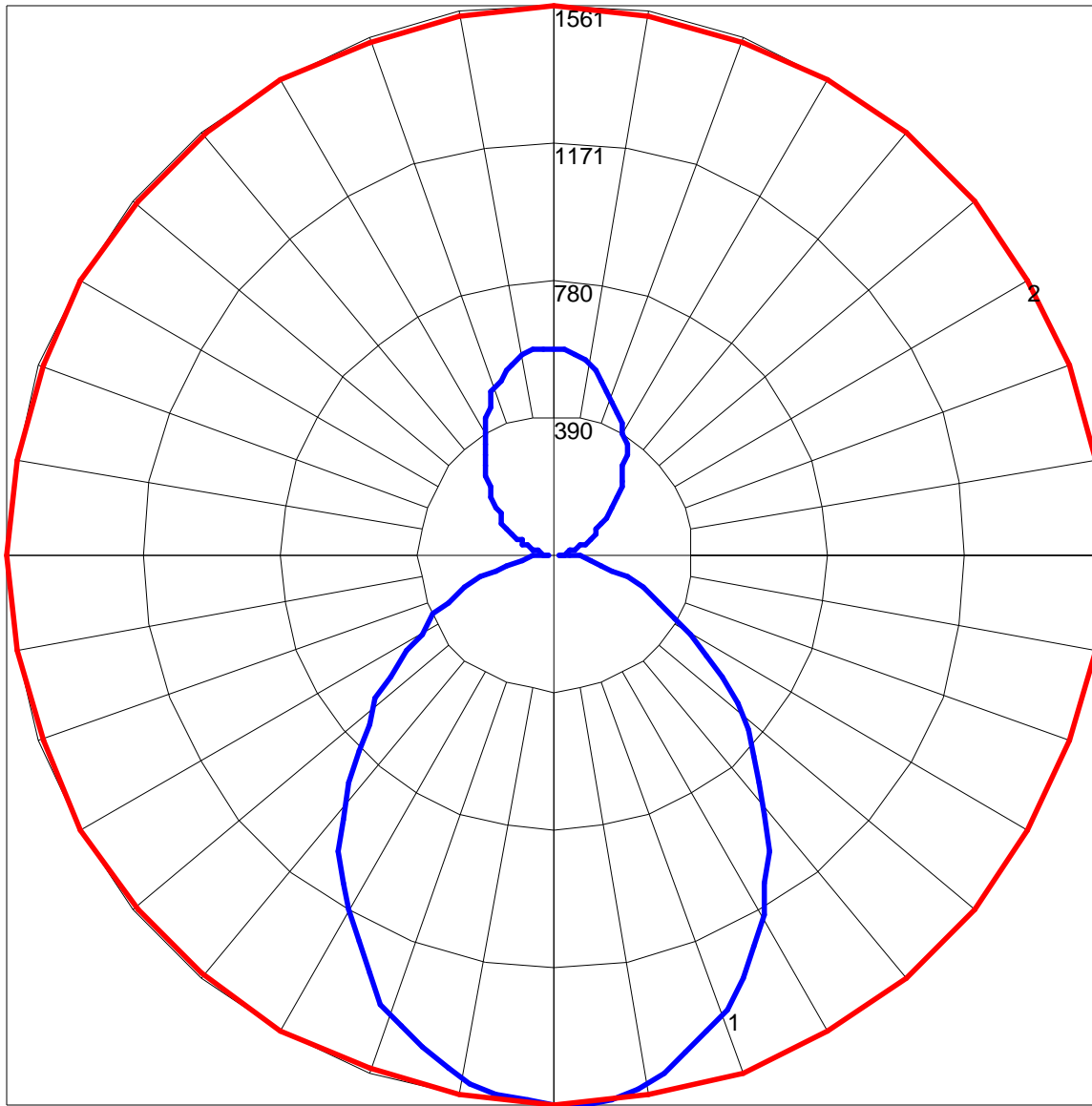
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	63
2	94	87	80	75	89	83	77	72	75	70	67	68	64	61	61	59	56	53
3	86	76	69	63	82	73	66	61	66	61	56	60	56	52	55	51	48	45
4	79	68	60	54	75	65	58	52	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	51	45	53	47	42	49	43	39	44	40	37	34
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	40	36	32	30
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	27
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	24	22
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20



POLAR GRAPH



Maximum Candela = 1560.921 Located At Horizontal Angle = 330, Vertical Angle = 3  
# 1 - Vertical Plane Through Horizontal Angles (330 - 150) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)