



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L45PSF48-LED1U2D36DMVWH40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L45PSF48-LED1U2D36DMVWH40  
 [TESTDATE] 31-May-2017 07:37:09  
 [TESTLAB] Radiant Vision Systems ProSource  
 [ISSUE DATE] 6/1/2017 6:30:31 AM  
 [MANUFAC] Mobern Lighting Co.  
 [LAMP] LED Module  
 [\_TOTALLUMINAIRELUMENS] 4626.1  
 [\_NUMBEROFRAYS]10000000  
 [OTHER] Absolute Photometry measurement

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2652
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	36
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	5121	2585	2045
55	4235	1827	1416
65	3412	1218	916
75	2525	708	543
85	1380	289	254

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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>	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716
<b>3</b>	893.453	892.788	891.849	891.075	890.004	889.025	888.515	888.200	888.120	888.406
<b>6</b>	889.128	887.650	885.989	883.210	880.232	877.608	876.199	875.345	875.655	877.276
<b>9</b>	880.002	878.863	876.938	872.493	867.028	862.101	858.441	857.289	858.355	861.053
<b>12</b>	865.023	864.965	863.573	859.672	854.018	845.901	839.634	836.472	837.154	840.328
<b>15</b>	843.707	842.029	841.571	837.939	831.586	823.813	816.956	814.029	813.078	815.289
<b>18</b>	818.302	816.744	810.322	808.426	802.056	796.505	790.359	786.842	786.068	785.014
<b>21</b>	791.109	789.998	785.209	779.744	772.801	765.973	761.115	755.845	750.535	749.103
<b>24</b>	762.175	763.836	762.118	750.134	739.972	733.149	726.344	718.072	710.161	710.322
<b>27</b>	730.858	732.456	730.085	718.628	704.192	697.226	689.865	677.097	669.358	671.145
<b>30</b>	696.161	694.208	690.639	679.973	662.043	652.619	645.098	635.612	628.417	629.820
<b>33</b>	657.420	654.813	647.487	638.172	621.577	608.093	596.189	588.679	583.300	584.492
<b>36</b>	615.660	614.216	600.989	596.756	579.863	566.413	552.195	543.436	536.614	537.301
<b>39</b>	572.456	572.456	560.014	549.600	536.745	525.329	510.028	502.192	493.181	491.021
<b>42</b>	529.929	527.580	518.122	506.557	495.896	482.274	470.496	456.662	450.241	446.970
<b>45</b>	489.039	480.114	474.993	464.797	453.008	436.819	427.058	413.069	408.761	405.840
<b>48</b>	445.721	434.877	434.436	424.159	410.234	391.708	383.837	374.506	368.256	367.494
<b>51</b>	397.534	396.904	389.692	381.420	368.766	351.099	344.918	337.219	329.979	331.228
<b>54</b>	352.921	357.464	352.847	334.315	328.214	314.289	306.882	302.437	291.650	295.299
<b>57</b>	318.894	316.821	313.240	297.997	292.727	279.850	273.594	267.064	260.224	258.735
<b>60</b>	285.841	278.469	271.681	262.492	256.220	246.860	240.220	232.613	231.702	224.628
<b>63</b>	244.356	240.747	235.357	228.219	219.111	215.720	209.568	201.680	202.906	195.877
<b>66</b>	202.167	200.162	198.415	196.364	187.731	185.394	178.417	174.178	173.267	170.454
<b>69</b>	168.375	165.700	169.904	160.916	158.178	154.461	148.268	148.961	146.532	145.805
<b>72</b>	139.819	138.616	140.879	132.057	133.019	127.869	123.544	123.894	123.648	122.187
<b>75</b>	111.498	111.555	108.714	106.382	104.813	106.004	100.717	98.133	100.470	100.321
<b>78</b>	83.806	83.377	81.761	82.604	79.264	79.052	80.186	76.961	78.428	80.009
<b>81</b>	61.597	60.853	64.828	64.370	63.116	63.035	64.158	63.098	61.941	63.333
<b>84</b>	39.045	41.141	41.508	43.152	42.934	43.731	46.904	47.259	46.870	47.477
<b>87</b>	19.580	22.157	22.220	23.332	25.961	29.198	30.389	33.494	33.431	33.626
<b>90</b>	5.465	7.350	9.681	12.751	13.679	18.657	18.394	21.464	21.940	25.743
<b>93</b>	8.564	11.251	15.054	19.752	24.747	28.779	32.113	34.622	36.954	36.942
<b>96</b>	15.071	16.882	20.588	25.222	29.295	33.798	37.762	39.497	41.800	42.362
<b>99</b>	22.387	22.742	27.588	31.214	35.963	39.503	42.562	45.128	46.520	46.973
<b>102</b>	31.993	31.128	34.514	38.071	42.390	45.438	48.050	50.633	51.527	51.481
<b>105</b>	41.204	39.262	41.749	45.180	49.121	52.575	53.916	56.637	56.803	56.763
<b>108</b>	50.587	48.302	49.837	52.633	56.528	59.358	60.641	62.268	62.629	62.262
<b>111</b>	60.183	58.372	58.647	60.962	63.912	65.877	67.395	68.271	69.056	68.145
<b>114</b>	70.574	69.096	69.216	71.576	71.954	73.639	74.240	74.887	76.182	74.790
<b>117</b>	82.260	80.484	81.246	81.217	80.186	81.498	81.292	81.784	83.291	82.363
<b>120</b>	94.862	92.674	91.282	90.984	91.047	89.575	89.260	89.054	90.343	89.902
<b>123</b>	108.061	106.262	103.352	101.891	102.137	98.769	98.672	97.354	98.070	96.627
<b>126</b>	122.599	119.964	115.782	114.310	111.435	108.885	107.957	106.657	106.256	103.564
<b>129</b>	139.068	133.563	127.457	128.757	122.032	118.400	117.426	116.235	115.456	111.864
<b>132</b>	156.420	147.134	142.964	141.039	134.721	128.878	127.262	126.896	124.856	121.436
<b>135</b>	173.496	162.687	158.562	152.920	148.847	142.591	140.151	137.980	135.213	131.971
<b>138</b>	190.349	178.451	175.604	166.267	161.862	157.497	153.607	149.689	146.189	143.588
<b>141</b>	207.179	193.626	191.575	182.031	174.779	171.411	165.768	162.337	158.396	156.425
<b>144</b>	223.574	209.579	206.285	201.474	192.228	185.869	179.935	175.965	171.554	170.122
<b>147</b>	238.932	227.887	222.205	217.834	210.582	200.809	194.909	192.027	185.972	184.409
<b>150</b>	252.714	245.216	236.995	232.401	226.025	216.505	211.000	207.654	201.376	199.801
<b>153</b>	264.727	260.510	252.433	246.785	241.509	233.449	227.354	222.245	217.851	216.774
<b>156</b>	276.155	274.430	269.269	262.693	257.503	249.913	243.766	239.493	236.067	234.870
<b>159</b>	287.949	288.173	284.770	280.537	273.978	266.663	261.479	257.560	254.730	253.373

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**CANDELA TABULATION - (Cont.)**

162	298.851	299.928	296.960	293.529	287.657	282.043	276.997	273.714	272.529	271.583
165	307.512	307.707	306.784	303.817	299.865	295.786	291.868	289.616	288.253	288.809
168	314.415	314.483	313.796	312.284	310.691	307.879	305.478	303.869	303.754	304.379
171	320.515	320.515	320.693	319.668	318.791	317.880	317.216	317.061	317.319	317.680
174	326.714	326.828	327.544	327.705	327.504	327.263	327.567	327.670	327.831	328.214
177	333.215	333.324	333.278	334.006	333.857	334.097	334.458	334.745	334.991	335.300
180	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517

**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	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716
3	888.635	889.088	889.506	889.781	890.016	890.296	889.913	890.130	890.268	890.359
6	879.533	881.830	883.972	884.877	885.198	884.946	883.995	882.506	882.552	882.603
9	865.475	870.092	873.598	874.578	873.249	870.912	870.860	869.525	870.407	870.574
12	845.197	850.902	855.496	855.445	853.778	850.306	851.212	853.772	856.247	856.367
15	817.695	823.658	827.021	827.662	825.714	828.447	834.124	838.346	841.725	840.585
18	786.968	789.631	794.575	797.531	800.172	808.707	815.358	822.203	823.165	822.993
21	752.792	757.312	762.616	766.494	773.615	783.519	789.889	795.801	796.935	796.059
24	716.308	719.945	722.174	728.647	736.162	741.782	752.952	761.717	765.177	762.421
27	674.347	673.969	678.947	687.843	696.946	701.723	710.534	725.044	731.070	725.588
30	629.396	628.194	636.316	647.687	660.645	666.488	671.237	685.363	696.018	685.277
33	583.191	583.248	596.911	608.723	626.693	633.979	631.877	642.400	660.433	642.205
36	537.868	542.050	555.139	562.517	582.756	599.145	589.934	595.358	622.694	595.765
39	494.132	501.653	506.362	513.081	531.618	552.160	555.065	550.430	581.295	551.410
42	449.084	457.184	464.688	473.269	488.518	503.200	510.463	507.817	537.324	508.413
45	407.220	415.383	423.168	436.939	449.112	453.666	474.226	467.191	492.419	466.739
48	368.812	373.102	379.048	393.541	409.002	411.620	424.526	427.373	447.886	426.875
51	332.459	329.664	340.244	352.148	366.388	376.075	375.502	390.133	404.694	390.339
54	293.867	295.517	305.816	318.751	324.571	332.637	338.388	351.254	362.751	350.721
57	259.342	264.898	274.213	284.696	289.021	290.699	300.019	312.839	321.736	310.204
60	227.618	232.711	240.089	245.353	252.496	251.935	262.286	274.791	281.207	271.125
63	199.383	201.302	208.731	210.719	214.059	218.533	232.046	239.058	241.114	235.758
66	172.305	171.800	178.050	181.178	182.278	188.562	196.238	203.330	202.866	200.523
69	145.725	144.768	148.629	149.437	152.570	156.202	163.053	167.985	168.008	166.198
72	121.305	120.440	123.098	121.551	126.827	127.806	132.681	134.526	137.006	133.878
75	97.652	97.646	98.832	97.990	100.459	100.614	103.065	105.099	109.590	103.988
78	76.606	77.156	77.769	76.583	77.368	77.465	77.648	79.166	83.778	76.818
81	60.710	61.414	59.249	58.653	57.112	55.726	55.714	52.867	55.800	50.439
84	47.242	43.971	43.765	40.654	36.988	36.238	34.468	35.310	34.147	33.580
87	32.978	31.151	29.100	25.847	21.092	18.228	18.262	17.288	16.773	17.271
90	24.225	24.048	20.330	18.549	13.370	8.902	9.091	6.061	5.127	5.442
93	37.223	35.361	31.231	27.353	26.104	21.590	17.827	12.723	8.535	7.521
96	42.012	41.244	36.627	33.047	31.380	27.886	23.498	18.646	13.811	13.273
99	46.944	45.850	41.720	39.354	37.240	33.729	30.051	24.460	20.089	19.242
102	51.716	49.161	46.463	44.424	42.098	38.804	34.663	30.613	26.729	26.036
105	57.410	54.231	52.581	51.498	48.554	44.916	41.222	38.168	35.774	33.780
108	63.207	60.142	59.318	58.218	56.018	51.195	48.462	46.853	46.068	43.129
111	69.044	66.587	65.974	65.120	63.763	58.665	56.734	56.883	57.175	54.494
114	75.621	73.558	72.888	73.106	72.206	68.827	67.228	67.355	68.082	66.369
117	82.077	80.404	79.883	81.154	80.072	78.101	78.399	78.657	78.433	78.725
120	87.696	86.734	87.301	89.174	89.856	87.587	87.530	91.082	91.059	91.821
123	93.740	93.757	95.934	97.623	100.327	99.004	99.932	103.856	107.975	105.053
126	101.341	102.527	105.030	107.614	110.770	112.357	113.703	117.352	124.936	118.836
129	110.982	112.214	115.141	118.698	122.382	126.569	126.242	133.248	137.997	134.543
132	120.772	122.720	124.971	130.310	134.165	138.541	142.798	148.503	150.422	149.082

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**CANDELA TABULATION - (Cont.)**

135	131.621	133.386	136.393	142.672	147.552	151.785	158.488	162.624	165.803	162.320
138	143.571	145.341	148.933	155.910	162.125	165.963	174.000	176.899	181.716	175.822
141	156.769	158.671	161.770	169.532	176.143	180.622	188.739	192.847	195.510	190.996
144	170.374	172.024	176.584	183.080	191.036	197.945	203.289	208.554	209.625	206.383
147	184.913	187.324	191.541	197.240	206.686	213.887	219.260	223.711	226.530	222.067
150	200.190	203.490	208.130	213.601	222.468	229.898	234.727	239.774	243.738	238.382
153	216.488	219.312	225.498	232.017	239.911	246.155	251.763	256.999	258.505	255.154
156	234.698	237.591	242.701	249.185	257.165	262.968	269.143	272.385	272.059	270.352
159	253.751	256.506	260.860	265.832	273.434	280.021	283.172	286.048	286.088	284.661
162	272.460	273.881	276.980	281.184	286.787	292.922	295.671	299.389	299.996	298.874
165	289.221	291.432	293.477	296.697	300.838	305.713	309.442	311.098	312.627	311.052
168	305.146	306.298	308.262	310.691	314.186	317.010	319.920	321.776	322.744	322.039
171	318.270	318.831	319.633	320.979	322.835	325.190	327.550	328.753	329.578	329.200
174	328.484	328.890	329.526	330.065	331.119	332.282	333.267	333.691	334.166	333.994
177	335.467	335.724	335.976	336.211	336.572	336.979	337.042	337.294	337.374	337.271
180	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517

**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	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716	893.716
3	890.382	891.184	891.156	891.448	891.757	891.952	892.118	892.370	892.553	892.868
6	884.121	885.124	885.479	885.444	885.393	884.591	883.835	883.531	883.732	884.562
9	872.361	872.315	873.403	873.484	872.218	870.029	867.996	866.896	867.732	869.497
12	855.731	855.078	856.207	854.769	852.541	848.290	845.122	844.234	845.993	849.516
15	839.033	835.143	831.139	829.031	825.697	821.945	817.259	817.403	819.797	825.497
18	818.153	814.533	805.757	799.988	795.331	790.496	787.689	786.526	790.817	794.718
21	791.585	787.770	776.341	766.133	762.238	757.581	753.319	751.148	754.762	760.657
24	754.711	744.744	735.561	725.233	719.733	717.362	714.074	710.407	713.953	720.426
27	712.074	704.668	695.823	685.042	677.177	671.873	669.381	664.351	671.483	675.739
30	672.732	670.131	659.860	645.235	634.036	628.365	623.559	616.805	627.357	629.047
33	633.590	636.998	623.405	603.808	589.217	580.304	576.392	571.270	576.237	579.542
36	591.400	599.282	576.145	557.791	543.104	531.361	527.878	526.085	524.527	537.610
39	555.059	547.996	524.177	510.034	494.023	486.370	481.077	479.267	481.392	497.070
42	512.514	497.477	481.231	466.429	451.467	440.938	434.883	432.855	440.038	447.056
45	465.604	449.714	441.654	424.119	408.928	399.401	391.891	389.480	397.419	400.398
48	425.523	408.670	401.068	380.045	367.030	359.589	352.302	349.999	355.608	361.038
51	372.289	370.370	358.294	340.324	329.532	319.232	316.706	314.329	317.829	323.254
54	332.849	324.680	316.998	306.595	291.793	284.014	280.365	280.399	280.262	289.467
57	295.494	283.779	280.800	272.758	257.835	250.406	246.946	246.556	247.759	256.163
60	259.227	245.611	242.592	235.815	225.401	218.464	214.889	214.781	217.267	222.600
63	227.687	213.761	204.366	201.496	196.020	189.627	186.259	186.946	188.567	190.779
66	191.008	185.136	174.556	172.683	166.238	162.532	159.702	161.014	160.934	161.060
69	159.633	150.760	146.653	143.009	138.433	137.298	134.721	134.955	135.276	134.514
72	130.636	121.860	121.545	115.897	114.711	114.442	112.328	110.678	112.918	111.669
75	101.416	96.907	95.217	92.577	91.947	92.210	91.551	90.257	92.193	90.589
78	76.062	75.231	72.287	71.960	71.949	72.315	73.289	72.607	73.931	71.496
81	53.154	53.062	51.046	52.650	51.802	54.660	54.036	54.683	55.646	54.993
84	33.110	35.086	33.626	36.748	38.564	40.970	41.582	41.731	42.235	40.511
87	17.689	18.176	21.837	25.268	27.788	28.802	28.814	31.077	29.662	28.533
90	9.291	11.978	14.235	15.026	20.914	21.888	22.810	24.426	23.246	22.942
93	9.234	11.210	13.576	15.049	16.744	18.067	18.761	20.691	20.720	19.878
96	14.705	16.062	16.549	17.420	19.076	20.038	20.559	21.877	22.020	21.579
99	21.184	21.602	21.659	22.495	22.908	23.675	23.916	25.096	25.675	25.073
102	27.302	27.651	27.674	28.361	28.739	28.928	29.272	30.361	31.174	31.094
105	34.915	34.743	34.531	35.081	34.806	35.253	34.794	35.247	36.496	36.994

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L45PSF48-LED1U2D36DMVWH40.IES**

**CANDELA TABULATION - (Cont.)**

108	42.980	42.602	42.333	41.949	40.958	41.783	40.895	40.614	42.430	42.665
111	51.825	51.418	50.519	48.995	47.529	48.101	47.311	46.950	48.611	48.674
114	63.024	62.858	59.661	57.032	55.663	54.775	54.603	54.151	55.434	55.537
117	75.896	73.232	68.368	65.556	64.135	62.508	62.245	61.958	62.720	62.984
120	86.997	83.239	79.378	75.248	72.453	71.124	69.944	70.030	70.608	70.740
123	100.344	94.078	90.841	85.519	81.595	80.117	78.290	78.141	79.224	79.436
126	112.786	105.987	100.654	95.533	91.122	89.248	87.324	86.568	87.782	89.134
129	124.043	118.790	110.564	105.626	102.212	98.901	97.452	95.704	96.942	98.763
132	139.687	130.550	121.597	116.584	112.895	109.590	107.184	105.935	106.308	108.868
135	154.306	143.227	134.732	128.963	123.940	120.256	117.942	117.404	116.842	119.048
138	168.409	156.133	148.005	142.110	135.878	132.761	130.241	129.330	127.864	129.307
141	182.318	170.088	161.065	156.128	149.609	147.552	143.897	141.131	139.744	139.951
144	196.902	188.098	177.443	171.405	166.169	161.564	157.737	153.779	152.576	152.301
147	213.538	205.117	195.167	187.072	181.441	176.515	172.843	168.444	167.195	168.232
150	230.104	222.079	211.704	203.536	197.240	193.099	190.068	185.434	183.595	184.999
153	247.868	238.823	229.342	221.964	214.998	210.948	208.772	204.395	201.983	201.491
156	264.916	255.028	246.951	240.461	234.469	231.582	227.910	223.184	221.191	220.520
159	279.466	272.609	265.311	259.582	255.424	251.064	245.399	240.180	238.846	239.229
162	293.603	288.832	282.267	277.873	273.285	268.181	262.544	257.457	256.644	257.136
165	309.036	304.739	299.796	295.454	290.894	286.191	280.216	276.899	275.175	276.779
168	320.384	317.628	314.804	310.628	306.664	302.270	298.719	296.164	294.766	294.904
171	328.444	326.313	323.861	321.386	318.711	316.271	314.163	312.381	311.390	310.960
174	333.765	332.814	331.474	330.030	328.764	327.206	325.992	324.984	324.130	323.826
177	336.985	336.773	336.274	335.678	335.169	334.630	334.115	333.765	333.295	332.998
180	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517	337.517

**Vert. Horizontal Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
0	893.716	893.716	893.716	893.716	893.716	893.716	893.716
3	893.218	893.533	893.882	894.157	893.997	893.865	893.453
6	885.857	886.836	888.165	889.357	889.941	889.483	889.128
9	871.639	873.535	874.979	876.388	878.754	879.132	880.002
12	853.532	855.932	858.286	858.475	860.394	862.697	865.023
15	828.441	831.340	833.574	836.438	838.918	840.494	843.707
18	797.473	801.844	808.249	813.897	813.862	818.285	818.302
21	764.317	770.384	782.654	790.049	791.264	793.549	791.109
24	726.269	735.801	748.708	753.875	763.361	766.660	762.175
27	686.543	697.891	710.293	715.827	725.467	733.493	730.858
30	639.347	651.250	666.574	676.329	685.959	693.933	696.161
33	591.280	604.615	622.895	634.598	647.779	654.510	657.420
36	547.457	560.667	578.419	592.156	606.139	614.560	615.660
39	500.456	518.598	535.966	545.378	564.465	571.448	572.456
42	456.370	476.695	494.533	503.206	517.756	524.561	529.929
45	411.654	432.191	446.609	461.004	473.286	479.158	489.039
48	369.247	387.085	400.799	419.840	434.304	438.475	445.721
51	332.110	344.540	361.628	379.329	389.256	400.673	397.534
54	295.121	303.955	323.403	334.750	351.277	356.467	352.921
57	261.868	267.614	287.738	297.229	310.336	313.510	318.894
60	229.050	235.323	249.901	259.869	268.685	277.255	285.841
63	199.927	204.676	212.455	223.734	234.125	241.080	244.356
66	171.222	175.644	182.409	190.710	196.708	199.967	202.167
69	142.660	146.699	152.410	155.956	164.090	165.098	168.375
72	116.453	121.236	125.509	126.976	134.067	138.060	139.819
75	91.259	97.262	98.477	100.407	104.876	110.707	111.498
78	71.049	74.819	75.076	77.087	79.396	81.973	83.806

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**CANDELA TABULATION - (Cont.)**

<b>81</b>	54.105	55.737	56.282	57.805	60.217	58.665	61.597
<b>84</b>	40.884	37.315	38.638	39.669	37.487	38.953	39.045
<b>87</b>	28.745	22.306	23.343	20.410	19.253	19.992	19.580
<b>90</b>	20.542	17.420	15.243	12.723	7.510	5.929	5.465
<b>93</b>	19.557	16.595	13.622	10.781	9.097	8.203	8.564
<b>96</b>	21.550	19.013	16.229	15.209	13.353	13.267	15.071
<b>99</b>	25.033	23.326	22.129	20.387	19.969	19.522	22.387
<b>102</b>	31.099	30.349	29.473	27.720	27.880	28.774	31.993
<b>105</b>	36.645	37.240	35.934	34.789	35.671	37.366	41.204
<b>108</b>	42.826	44.281	43.559	42.362	43.880	46.245	50.587
<b>111</b>	49.339	51.888	51.687	51.120	52.312	55.623	60.183
<b>114</b>	56.957	60.062	60.715	62.394	62.182	66.209	70.574
<b>117</b>	65.183	68.065	69.657	72.476	73.845	78.273	82.260
<b>120</b>	73.020	76.589	80.656	82.248	83.978	90.898	94.862
<b>123</b>	81.332	85.622	91.717	93.018	96.334	104.400	108.061
<b>126</b>	90.572	95.389	101.845	105.752	109.739	118.423	122.599
<b>129</b>	101.232	105.488	113.823	121.345	122.880	133.174	139.068
<b>132</b>	111.366	116.046	127.348	135.505	140.718	147.661	156.420
<b>135</b>	122.937	128.694	141.847	150.061	158.797	163.214	173.496
<b>138</b>	134.881	142.036	154.925	165.425	178.033	179.482	190.349
<b>141</b>	145.667	154.191	166.845	181.092	194.582	196.736	207.179
<b>144</b>	158.058	166.462	180.341	197.487	207.775	213.337	223.574
<b>147</b>	171.783	179.855	194.685	210.232	220.452	229.027	238.932
<b>150</b>	187.462	195.390	207.947	222.010	232.796	243.898	252.714
<b>153</b>	204.000	212.478	223.041	234.681	247.312	258.792	264.727
<b>156</b>	221.162	228.724	238.691	248.750	261.954	272.053	276.155
<b>159</b>	240.736	246.327	255.366	265.007	274.969	283.848	287.949
<b>162</b>	259.623	264.996	271.927	280.434	287.491	295.093	298.851
<b>165</b>	279.237	283.871	289.370	295.505	300.982	304.533	307.512
<b>168</b>	297.040	300.294	304.579	307.730	310.915	313.069	314.415
<b>171</b>	311.356	312.679	314.541	316.649	318.768	319.650	320.515
<b>174</b>	323.855	323.861	324.623	325.470	326.078	326.118	326.714
<b>177</b>	332.740	332.488	332.499	332.935	332.545	332.958	333.215
<b>180</b>	337.517	337.517	337.517	337.517	337.517	337.517	337.517

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

Zone	Lumens	%Lamp	%Fixt
0-20	260.72	N.A.	9.80
0-30	650.20	N.A.	24.50
0-40	979.64	N.A.	36.90
0-60	1629.67	N.A.	61.50
0-80	1912.67	N.A.	72.10
0-90	1967.68	N.A.	74.20
10-90	1899.43	N.A.	71.60
20-40	718.92	N.A.	27.10
20-50	1030.79	N.A.	38.90
40-70	826.15	N.A.	31.20
60-80	283.00	N.A.	10.70
70-80	106.89	N.A.	4.00
80-90	55.01	N.A.	2.10
90-110	59.26	N.A.	2.20
90-120	138.42	N.A.	5.20
90-130	219.72	N.A.	8.30
90-150	458.30	N.A.	17.30
90-180	684.14	N.A.	25.80
110-180	624.87	N.A.	23.60
0-180	2651.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	68.25
10-20	192.47
20-30	389.48
30-40	329.44
40-50	311.87
50-60	338.16
60-70	176.11
70-80	106.89
80-90	55.01
90-100	21.81
100-110	37.45
110-120	79.16
120-130	81.30
130-140	96.92
140-150	141.66
150-160	101.47
160-170	80.15
170-180	44.21

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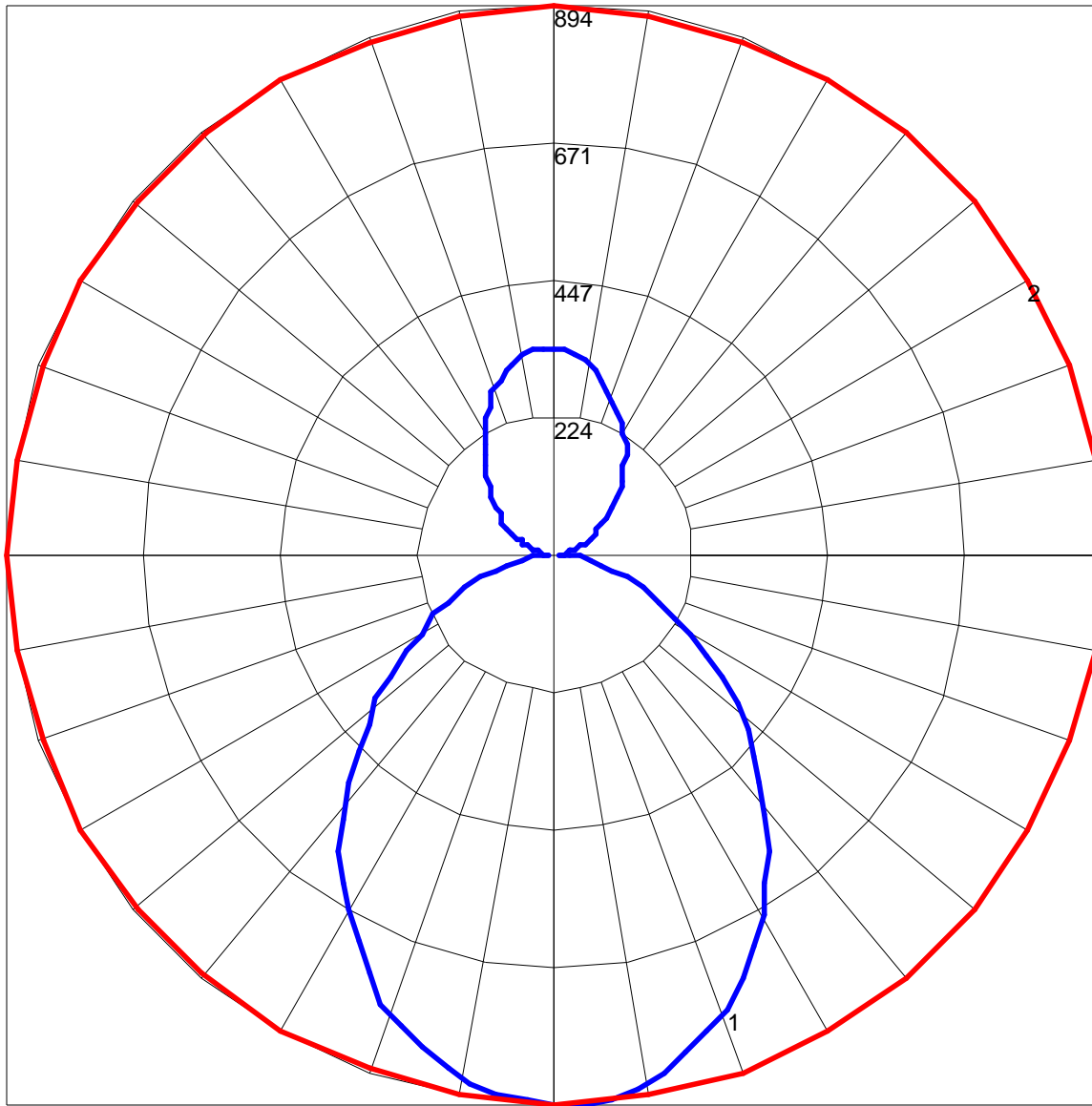
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 894.157 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.)