



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LE101-39-5-S-SM-PD.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]  
 [TESTLAB]Radiant Zemax ProSource  
 [ISSUE DATE]10/23/2014 8:26:19 AM  
 [TEST DATE]06-Oct-2014 11:23:36  
 [MANUFAC]LDPI Inc.  
 [LAMP]LED  
 [\_ NUMBER OF FRAYS]10000000  
 [OTHER]Absolute Photometry measurement

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3189
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	34.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.23 m
Luminous Width (90-270)	0.21 m
Luminous Height	0.08 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3911	3113	2967
55	3589	2684	2487
65	3124	2114	1945
75	2377	1376	1228
85	1061	457	402

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	1181.038	1181.038	1181.038	1181.038	1181.038	1181.038	1181.038	1181.038	1181.038	1181.038
<b>2.5</b>	1180.952	1180.858	1180.887	1181.026	1181.219	1181.211	1181.067	1180.634	1180.195	1179.416
<b>5.0</b>	1178.197	1177.588	1177.202	1177.588	1178.298	1178.489	1178.276	1177.942	1177.274	1176.043
<b>7.5</b>	1170.409	1169.318	1167.961	1169.301	1170.697	1170.070	1168.922	1169.617	1170.423	1169.014
<b>10.0</b>	1157.811	1158.517	1157.420	1157.512	1158.661	1156.265	1155.948	1156.700	1159.296	1159.065
<b>12.5</b>	1142.573	1146.030	1144.536	1143.186	1143.857	1138.946	1140.317	1140.776	1144.744	1145.572
<b>15.0</b>	1126.139	1130.485	1130.203	1127.502	1127.285	1121.704	1126.760	1123.660	1127.473	1127.544
<b>17.5</b>	1108.276	1113.551	1109.435	1109.747	1108.536	1105.024	1110.384	1107.950	1107.880	1109.279
<b>20.0</b>	1088.517	1089.602	1087.374	1086.635	1086.996	1084.450	1090.722	1087.593	1086.311	1086.511
<b>22.5</b>	1066.602	1064.076	1063.307	1061.416	1062.506	1059.979	1063.451	1064.520	1063.220	1061.960
<b>25.0</b>	1042.336	1040.170	1040.729	1036.270	1035.103	1032.574	1035.663	1039.828	1039.019	1036.282
<b>27.5</b>	1015.467	1011.472	1009.229	1009.634	1004.873	1002.912	1003.301	1008.955	1013.390	1005.739
<b>30.0</b>	985.684	982.929	978.192	979.372	971.975	971.409	975.581	979.756	985.013	978.083
<b>32.5</b>	952.800	945.279	942.683	944.998	936.763	937.541	943.253	944.046	952.880	944.536
<b>35.0</b>	917.285	909.165	910.852	908.016	900.324	902.196	912.028	910.120	917.682	911.370
<b>37.5</b>	879.757	875.993	872.012	871.474	863.806	868.018	873.599	877.633	880.529	878.361
<b>40.0</b>	840.874	838.870	829.617	829.444	827.100	828.261	832.516	839.375	842.302	838.922
<b>42.5</b>	801.284	800.498	791.527	787.409	789.046	786.667	795.118	799.286	803.736	797.570
<b>45.0</b>	761.074	762.616	748.257	748.076	748.793	746.616	751.676	760.870	764.766	758.263
<b>47.5</b>	718.967	715.145	708.685	705.283	706.145	703.036	712.903	715.011	723.690	711.575
<b>50.0</b>	673.853	673.554	662.520	664.290	661.175	661.889	667.827	675.086	678.966	670.819
<b>52.5</b>	627.153	626.080	621.194	619.018	614.987	616.754	624.895	627.528	632.092	622.979
<b>55.0</b>	581.325	578.346	576.922	572.206	569.080	570.563	577.481	578.844	585.933	575.029
<b>57.5</b>	536.550	536.622	535.151	526.440	523.995	525.251	534.694	537.869	541.216	534.379
<b>60.0</b>	490.087	484.477	486.354	481.547	478.838	479.516	486.294	488.602	496.029	484.268
<b>62.5</b>	440.041	440.412	440.358	435.697	432.815	432.240	440.412	446.428	448.795	440.737
<b>65.0</b>	388.776	390.930	386.980	387.507	385.934	383.685	387.680	396.776	400.025	390.291
<b>67.5</b>	339.501	340.422	341.520	338.469	338.419	335.506	343.013	344.736	350.743	338.204
<b>70.0</b>	292.426	293.939	291.878	293.158	290.853	290.585	292.873	297.647	301.613	290.616
<b>72.5</b>	245.465	245.009	243.230	246.792	244.167	244.081	243.345	248.955	253.045	241.326
<b>75.0</b>	197.561	198.224	200.279	197.439	198.924	195.210	200.568	201.138	205.356	193.645
<b>77.5</b>	150.211	154.471	151.365	154.376	154.819	153.150	151.798	155.424	158.764	148.960
<b>80.0</b>	106.828	112.695	115.555	114.095	113.080	111.505	111.228	108.993	113.131	102.238
<b>82.5</b>	71.781	79.577	78.447	82.667	79.411	77.403	71.801	70.599	70.462	61.326
<b>85.0</b>	41.667	45.777	47.414	50.241	48.417	45.301	43.027	40.210	42.503	33.244
<b>87.5</b>	21.627	22.369	23.689	28.181	26.278	23.045	22.800	18.793	24.273	15.432
<b>90.0</b>	10.790	11.033	11.120	10.182	16.063	10.968	11.733	9.717	15.387	5.607
<b>92.5</b>	1.708	3.181	3.212	2.160	1.993	3.214	4.023	3.862	0.929	0.941
<b>95.0</b>	0.097	0.318	0.172	0.267	0.219	0.386	0.373	0.617	0.142	0.310
<b>97.5</b>	0.020	0.051	0.029	0.029	0.021	0.020	0.038	0.033	0.006	0.003
<b>100.0</b>	0.003	0.040	0.008	0.003	0.000	0.001	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1181.038	1181.038	1181.038	1181.038	1181.038	1181.038	1181.038
2.5	1178.889	1178.754	1179.033	1179.542	1180.130	1180.670	1180.952
5.0	1174.808	1174.294	1174.692	1176.043	1177.505	1178.303	1178.197
7.5	1166.837	1166.861	1167.063	1168.615	1169.998	1170.848	1170.409
10.0	1157.324	1157.373	1156.109	1157.414	1159.355	1159.296	1157.811
12.5	1143.514	1144.794	1142.443	1142.047	1144.247	1144.959	1142.573
15.0	1127.235	1128.504	1126.283	1123.795	1128.244	1128.692	1126.139
17.5	1106.292	1109.200	1106.949	1104.405	1108.708	1112.656	1108.276
20.0	1085.746	1084.811	1083.765	1081.544	1089.195	1089.988	1088.517
22.5	1060.879	1058.197	1057.184	1056.682	1065.073	1063.661	1066.602
25.0	1035.411	1030.531	1028.144	1029.131	1040.020	1038.031	1042.336
27.5	1003.265	1001.413	997.338	999.085	1007.296	1008.977	1015.467
30.0	974.528	969.817	965.096	966.927	976.901	981.227	985.684
32.5	941.291	934.167	931.513	932.587	941.529	944.356	952.800
35.0	908.869	895.551	895.824	896.174	908.393	907.572	917.285
37.5	866.972	858.644	857.121	859.503	867.729	874.046	879.757
40.0	820.913	817.091	815.584	816.002	823.480	837.433	840.874
42.5	780.566	773.737	772.323	772.258	783.645	799.394	801.284
45.0	737.614	731.250	728.147	731.352	739.038	760.859	761.074
47.5	699.701	684.509	683.098	687.159	699.262	711.962	718.967
50.0	653.627	640.853	637.176	645.504	653.164	669.413	673.853
52.5	609.157	593.908	590.440	599.620	610.779	621.836	627.153
55.0	561.844	546.302	542.989	551.283	564.296	575.534	581.325
57.5	520.440	499.841	495.150	502.952	520.602	535.028	536.550
60.0	472.370	453.531	447.469	455.286	469.955	482.689	490.087
62.5	424.920	406.130	400.234	407.485	422.396	436.903	440.041
65.0	370.553	356.296	352.683	357.688	367.863	385.758	388.776
67.5	325.424	305.435	303.812	307.051	322.273	334.917	339.501
70.0	274.123	258.736	254.444	260.965	272.652	288.398	292.426
72.5	222.822	211.544	206.741	214.111	223.651	239.539	245.465
75.0	179.013	163.336	162.117	165.433	180.340	192.938	197.561
77.5	130.236	122.232	120.321	123.331	131.558	149.598	150.211
80.0	87.479	80.382	80.348	81.530	92.695	106.745	106.828

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**CANDELA TABULATION - (Cont.)**

82.5	47.270	45.107	43.931	47.368	56.188	71.584	71.781
85.0	24.458	22.694	21.583	23.891	31.592	39.511	41.667
87.5	11.688	10.755	9.642	11.214	15.396	19.752	21.627
90.0	4.759	4.147	4.183	3.346	6.353	9.474	10.790
92.5	0.565	0.595	0.096	0.377	0.245	0.550	1.708
95.0	0.084	0.180	0.046	0.142	0.032	0.114	0.097
97.5	0.007	0.017	0.009	0.020	0.029	0.031	0.020
100.0	0.025	0.001	0.000	0.002	0.080	0.022	0.003
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	429.69	N.A.	13.50
0-30	906.83	N.A.	28.40
0-40	1473.93	N.A.	46.20
0-60	2560.87	N.A.	80.30
0-80	3138.94	N.A.	98.40
0-90	3187.45	N.A.	99.90
10-90	3075.73	N.A.	96.40
20-40	1044.24	N.A.	32.70
20-50	1621.28	N.A.	50.80
40-70	1463.92	N.A.	45.90
60-80	578.07	N.A.	18.10
70-80	201.09	N.A.	6.30
80-90	48.51	N.A.	1.50
90-110	1.78	N.A.	0.10
90-120	1.78	N.A.	0.10
90-130	1.78	N.A.	0.10
90-150	1.78	N.A.	0.10
90-180	1.78	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	3189.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.72
10-20	317.97
20-30	477.13
30-40	567.11
40-50	577.04
50-60	509.90
60-70	376.98
70-80	201.09
80-90	48.51
90-100	1.78
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

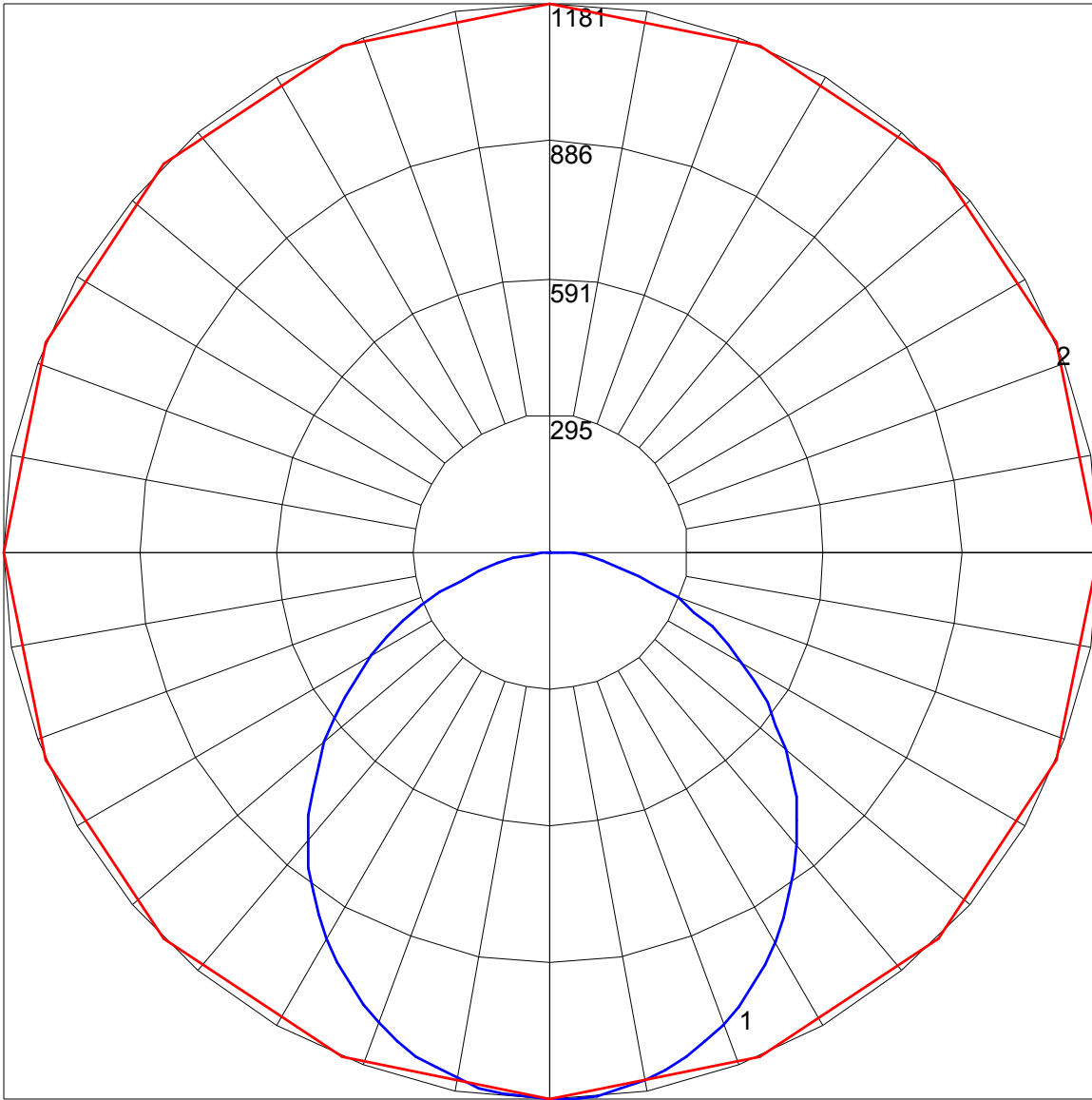
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1181.219 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)