



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LE101-59-5-S-SM-PD.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB]Radiant Zemax ProSource
 [ISSUE DATE]10/23/2014 8:36:10 AM
 [TEST DATE]06-Oct-2014 07:01:46
 [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	4712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	50.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	5807	4616	4368
55	5313	3971	3666
65	4638	3128	2881
75	3528	2045	1800
85	1573	685	582

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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>
0.0	1742.324	1742.324	1742.324	1742.324	1742.324	1742.324	1742.324	1742.324	1742.324	1742.324
2.5	1742.601	1741.312	1740.236	1739.741	1739.852	1740.418	1740.960	1740.907	1740.790	1740.673
5.0	1739.948	1738.371	1736.613	1735.006	1735.153	1737.856	1739.756	1738.558	1735.750	1734.588
7.5	1731.871	1730.448	1727.209	1724.936	1725.020	1729.296	1731.898	1728.560	1724.252	1721.840
10.0	1717.550	1716.292	1712.087	1708.771	1709.206	1712.105	1715.302	1709.888	1706.574	1705.935
12.5	1697.485	1695.147	1689.293	1686.552	1689.792	1686.883	1690.927	1685.230	1685.412	1686.120
15.0	1672.498	1667.929	1666.259	1662.300	1667.596	1659.189	1668.132	1659.960	1662.556	1659.846
17.5	1644.175	1642.017	1639.984	1637.151	1640.339	1631.335	1640.481	1637.373	1637.430	1632.809
20.0	1613.785	1610.708	1612.563	1606.283	1605.910	1598.217	1609.020	1606.195	1609.064	1599.961
22.5	1580.315	1575.765	1574.726	1571.442	1565.727	1561.958	1568.990	1569.984	1576.245	1568.137
25.0	1541.731	1537.973	1534.536	1533.879	1522.902	1523.064	1530.381	1532.858	1537.554	1536.108
27.5	1498.202	1492.097	1487.962	1491.730	1478.883	1481.158	1483.924	1487.301	1493.727	1492.565
30.0	1452.564	1450.220	1449.612	1444.631	1433.171	1435.391	1440.683	1443.347	1448.110	1447.375
32.5	1406.862	1398.497	1403.825	1393.926	1384.932	1384.570	1388.864	1388.672	1402.972	1389.717
35.0	1359.369	1348.754	1356.002	1342.375	1333.678	1330.524	1340.274	1338.498	1355.768	1336.491
37.5	1307.518	1301.789	1293.421	1291.356	1278.940	1278.800	1282.211	1292.412	1302.947	1287.564
40.0	1251.065	1245.705	1228.112	1229.572	1221.324	1220.600	1219.630	1238.208	1244.767	1232.225
42.5	1191.627	1183.550	1172.585	1164.839	1162.249	1161.067	1163.400	1179.735	1184.520	1176.315
45.0	1130.048	1123.316	1109.436	1103.646	1102.279	1103.025	1101.453	1122.198	1124.230	1121.832
47.5	1065.485	1055.531	1050.279	1038.611	1040.007	1038.327	1047.331	1053.019	1063.322	1051.984
50.0	997.224	999.061	981.106	979.122	974.166	976.793	982.464	992.880	1000.794	988.423
52.5	927.717	931.544	919.880	914.824	906.289	910.263	918.353	922.654	936.050	915.462
55.0	860.661	860.917	853.682	846.923	839.083	843.338	847.013	853.213	868.695	845.722
57.5	795.885	799.209	789.978	778.506	773.455	778.209	784.153	795.406	799.050	787.552
60.0	728.147	721.689	716.223	711.437	707.805	711.463	715.282	724.630	728.456	715.584
62.5	653.887	654.296	649.163	644.008	640.674	641.115	649.731	662.181	657.958	652.182
65.0	577.187	578.498	572.691	572.296	571.710	567.768	571.263	587.548	587.406	577.364
67.5	503.833	503.331	506.849	498.198	500.988	495.233	503.450	509.325	516.322	499.468
70.0	434.220	435.046	433.389	430.659	429.542	428.581	429.744	439.033	444.918	429.469
72.5	364.627	362.956	361.100	362.901	359.321	360.184	358.426	367.249	373.973	357.963
75.0	293.234	293.256	297.699	290.723	291.583	288.556	295.642	297.465	304.039	288.428
77.5	222.566	228.253	225.350	226.833	226.157	226.531	222.749	230.658	235.416	222.141
80.0	158.109	166.726	172.072	167.126	165.036	165.403	162.792	161.691	167.806	152.083
82.5	106.504	117.896	117.079	121.003	116.275	114.792	105.980	104.621	104.309	90.573
85.0	61.782	67.951	71.029	73.322	70.210	66.939	65.648	59.139	62.602	48.057
87.5	33.427	32.905	36.514	39.038	36.954	32.591	33.930	28.216	35.377	22.654
90.0	18.434	15.984	18.616	17.795	25.108	17.859	17.635	13.240	18.248	7.193
92.5	3.008	4.942	4.425	4.049	3.174	4.757	4.908	5.586	0.885	1.500
95.0	0.213	0.302	0.413	0.386	0.302	0.461	0.613	0.832	0.274	0.555
97.5	0.045	0.076	0.043	0.032	0.022	0.022	0.018	0.043	0.015	0.008
100.0	0.031	0.060	0.038	0.004	0.000	0.001	0.000	0.000	0.000	0.001
102.5	0.000	0.000	0.000	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	0.000	0.000	0.000
107.5	0.000	0.000	0.000	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	0.000	0.000	0.000
112.5	0.000	0.000	0.000	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	0.000	0.000	0.000
117.5	0.000	0.000	0.000	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	0.000	0.000	0.000
122.5	0.000	0.000	0.000	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	0.000	0.000	0.000
127.5	0.000	0.000	0.000	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	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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	1742.324	1742.324	1742.324	1742.324	1742.324	1742.324	1742.324
2.5	1741.824	1743.197	1744.573	1745.236	1745.031	1743.880	1742.601
5.0	1735.888	1739.188	1742.719	1744.338	1743.837	1741.985	1739.948
7.5	1721.686	1726.756	1731.775	1733.292	1732.439	1731.932	1731.871
10.0	1705.072	1707.454	1711.924	1711.564	1713.028	1714.257	1717.550
12.5	1684.657	1683.899	1687.298	1684.016	1688.014	1691.319	1697.485
15.0	1663.772	1659.231	1660.563	1658.645	1666.507	1667.396	1672.498
17.5	1635.810	1633.981	1630.919	1634.993	1641.679	1645.453	1644.175
20.0	1603.754	1602.521	1597.151	1604.280	1613.238	1615.024	1613.785
22.5	1562.010	1565.284	1559.004	1566.624	1575.055	1578.429	1580.315
25.0	1521.190	1523.090	1516.711	1525.515	1535.735	1540.583	1541.731
27.5	1474.802	1476.873	1470.710	1481.241	1487.216	1495.038	1498.202
30.0	1434.375	1427.377	1421.769	1433.070	1444.071	1451.850	1452.564
32.5	1385.923	1374.234	1370.451	1380.414	1393.691	1398.039	1406.862
35.0	1338.654	1318.011	1316.150	1325.615	1344.462	1347.813	1359.369
37.5	1280.187	1262.266	1258.204	1272.451	1282.787	1300.262	1307.518
40.0	1216.231	1199.043	1197.445	1210.008	1217.979	1243.018	1251.065
42.5	1157.497	1138.764	1135.951	1143.762	1161.535	1181.334	1191.627
45.0	1091.197	1082.593	1074.510	1080.373	1097.004	1122.000	1130.048
47.5	1033.532	1017.841	1010.992	1013.259	1037.519	1051.976	1065.485
50.0	965.939	951.919	943.317	951.722	967.165	991.380	997.224
52.5	900.256	879.117	872.947	884.146	902.689	921.596	927.717
55.0	828.845	807.131	802.747	812.436	834.457	853.959	860.661
57.5	766.731	738.539	733.485	741.294	772.414	795.757	795.885
60.0	696.066	670.190	663.051	671.966	699.458	718.674	728.147
62.5	626.280	599.292	590.038	602.542	628.606	648.284	653.887
65.0	545.487	524.410	516.333	529.471	547.458	569.121	577.187
67.5	479.166	448.694	444.471	454.386	479.997	494.087	503.833
70.0	405.972	379.965	375.102	385.905	405.439	427.800	434.220
72.5	332.341	311.328	307.225	316.773	332.511	357.293	364.627
75.0	267.330	241.050	240.691	245.365	269.408	287.235	293.234
77.5	193.765	180.534	177.087	183.695	197.583	220.931	222.566
80.0	129.928	118.172	117.351	122.452	138.267	156.204	158.109

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CANDELA TABULATION - (Cont.)

82.5	70.487	65.708	64.265	72.672	82.573	105.083	106.504
85.0	37.082	32.127	32.553	36.720	45.349	58.468	61.782
87.5	17.440	17.810	15.227	15.641	20.441	28.632	33.427
90.0	4.923	5.946	5.101	4.497	6.692	13.080	18.434
92.5	0.934	1.061	0.107	0.831	0.582	1.044	3.008
95.0	0.163	0.405	0.061	0.225	0.098	0.153	0.213
97.5	0.008	0.033	0.014	0.042	0.027	0.043	0.045
100.0	0.012	0.001	0.001	0.004	0.037	0.030	0.031
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	634.77	N.A.	13.50
0-30	1339.61	N.A.	28.40
0-40	2177.1	N.A.	46.20
0-60	3782.95	N.A.	80.30
0-80	4637.7	N.A.	98.40
0-90	4709.3	N.A.	99.90
10-90	4544.23	N.A.	96.40
20-40	1542.33	N.A.	32.70
20-50	2394.57	N.A.	50.80
40-70	2163.01	N.A.	45.90
60-80	854.75	N.A.	18.10
70-80	297.59	N.A.	6.30
80-90	71.61	N.A.	1.50
90-110	2.62	N.A.	0.10
90-120	2.62	N.A.	0.10
90-130	2.62	N.A.	0.10
90-150	2.62	N.A.	0.10
90-180	2.62	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4711.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.07
10-20	469.70
20-30	704.84
30-40	837.49
40-50	852.24
50-60	753.60
60-70	557.16
70-80	297.59
80-90	71.61
90-100	2.62
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

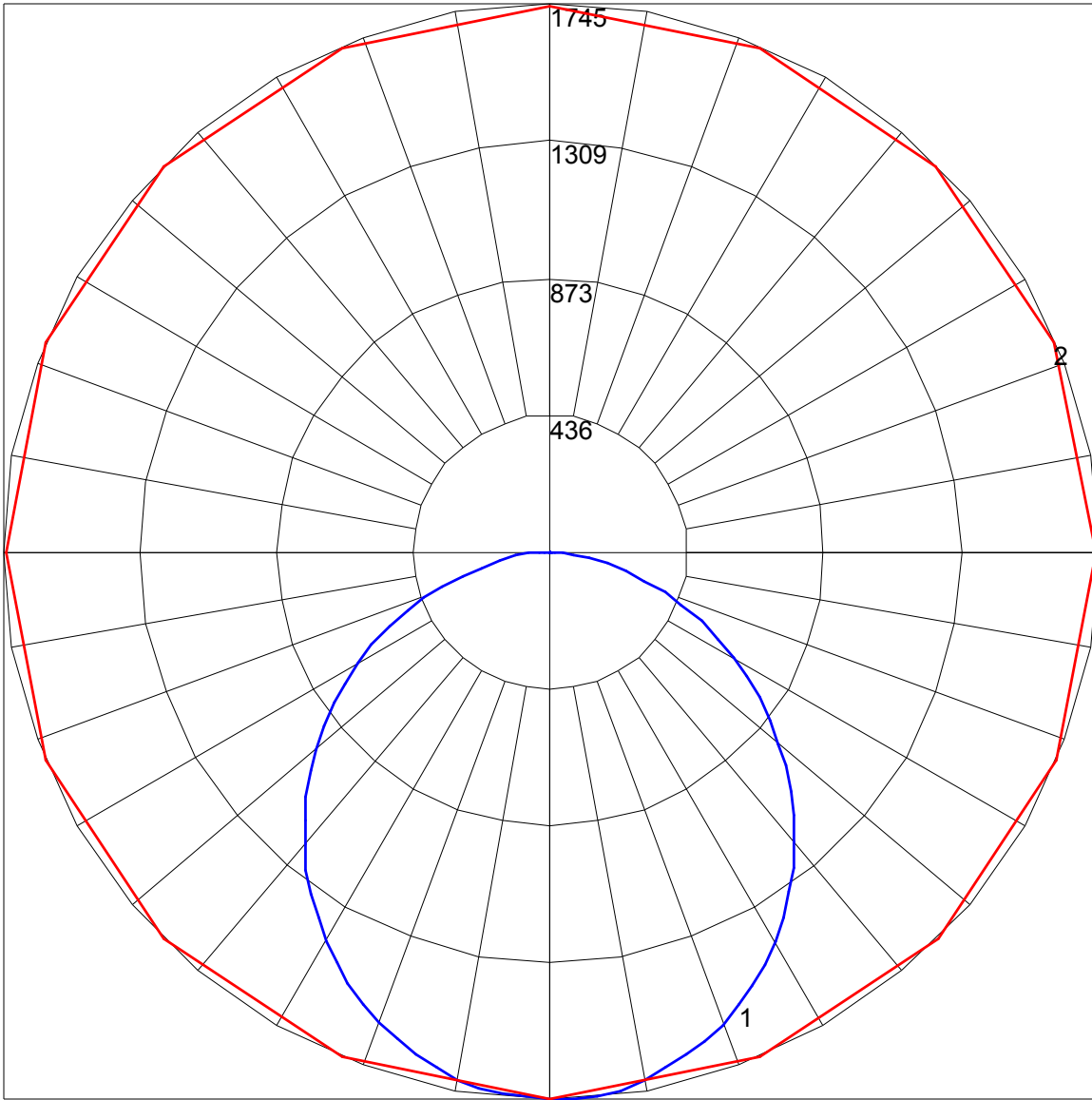
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
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 = 1745.236 Located At Horizontal Angle = 292.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)