



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPEC14-LED-45L-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-8952  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 05/25/17  
[TEST DATE] 05/25/17  
[MANUFAC] LSI INDUSTRIES, INC  
[LUMCAT] LPEC14-LED-45L-40  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	34.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3372	3992	4490
55	3178	4078	4837
65	2958	4141	5172
75	2649	4186	5204
85	2375	3887	3547

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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>
<b>0.0</b>	1331	1331	1331	1331	1331
<b>2.5</b>	1356	1340	1330	1321	1314
<b>5.0</b>	1356	1341	1331	1323	1316
<b>7.5</b>	1352	1339	1331	1324	1319
<b>10.0</b>	1345	1332	1328	1325	1320
<b>12.5</b>	1333	1323	1322	1323	1321
<b>15.0</b>	1320	1311	1317	1324	1323
<b>17.5</b>	1301	1296	1308	1321	1322
<b>20.0</b>	1279	1279	1297	1317	1321
<b>22.5</b>	1254	1257	1286	1313	1319
<b>25.0</b>	1225	1234	1271	1305	1314
<b>27.5</b>	1193	1207	1254	1296	1308
<b>30.0</b>	1158	1177	1235	1285	1299
<b>32.5</b>	1119	1145	1211	1270	1286
<b>35.0</b>	1076	1107	1184	1251	1270
<b>37.5</b>	1033	1069	1156	1232	1255
<b>40.0</b>	987	1026	1122	1208	1234
<b>42.5</b>	936	982	1088	1181	1207
<b>45.0</b>	887	937	1050	1151	1181
<b>47.5</b>	836	886	1009	1117	1149
<b>50.0</b>	782	836	965	1079	1113
<b>52.5</b>	730	785	918	1038	1073
<b>55.0</b>	678	734	870	993	1032
<b>57.5</b>	626	679	819	942	982
<b>60.0</b>	573	625	765	890	929
<b>62.5</b>	519	569	707	836	873
<b>65.0</b>	465	514	651	776	813
<b>67.5</b>	413	458	594	714	747
<b>70.0</b>	358	398	529	643	672
<b>72.5</b>	304	344	467	570	590
<b>75.0</b>	255	290	403	489	501
<b>77.5</b>	206	238	336	399	402
<b>80.0</b>	160	188	268	308	303
<b>82.5</b>	118	140	198	215	205
<b>85.0</b>	77	94	126	125	115
<b>87.5</b>	39	48	56	47	43
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	499.79	N.A.	10.90
0-30	1085.82	N.A.	23.80
0-40	1824.14	N.A.	39.90
0-60	3398.46	N.A.	74.40
0-80	4444.72	N.A.	97.30
0-90	4570.21	N.A.	100.00
10-90	4443.1	N.A.	97.20
20-40	1324.35	N.A.	29.00
20-50	2128.38	N.A.	46.60
40-70	2211.34	N.A.	48.40
60-80	1046.25	N.A.	22.90
70-80	409.23	N.A.	9.00
80-90	125.50	N.A.	2.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4570.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.11
10-20	372.68
20-30	586.03
30-40	738.32
40-50	804.03
50-60	770.29
60-70	637.02
70-80	409.23
80-90	125.50
90-100	0.00
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

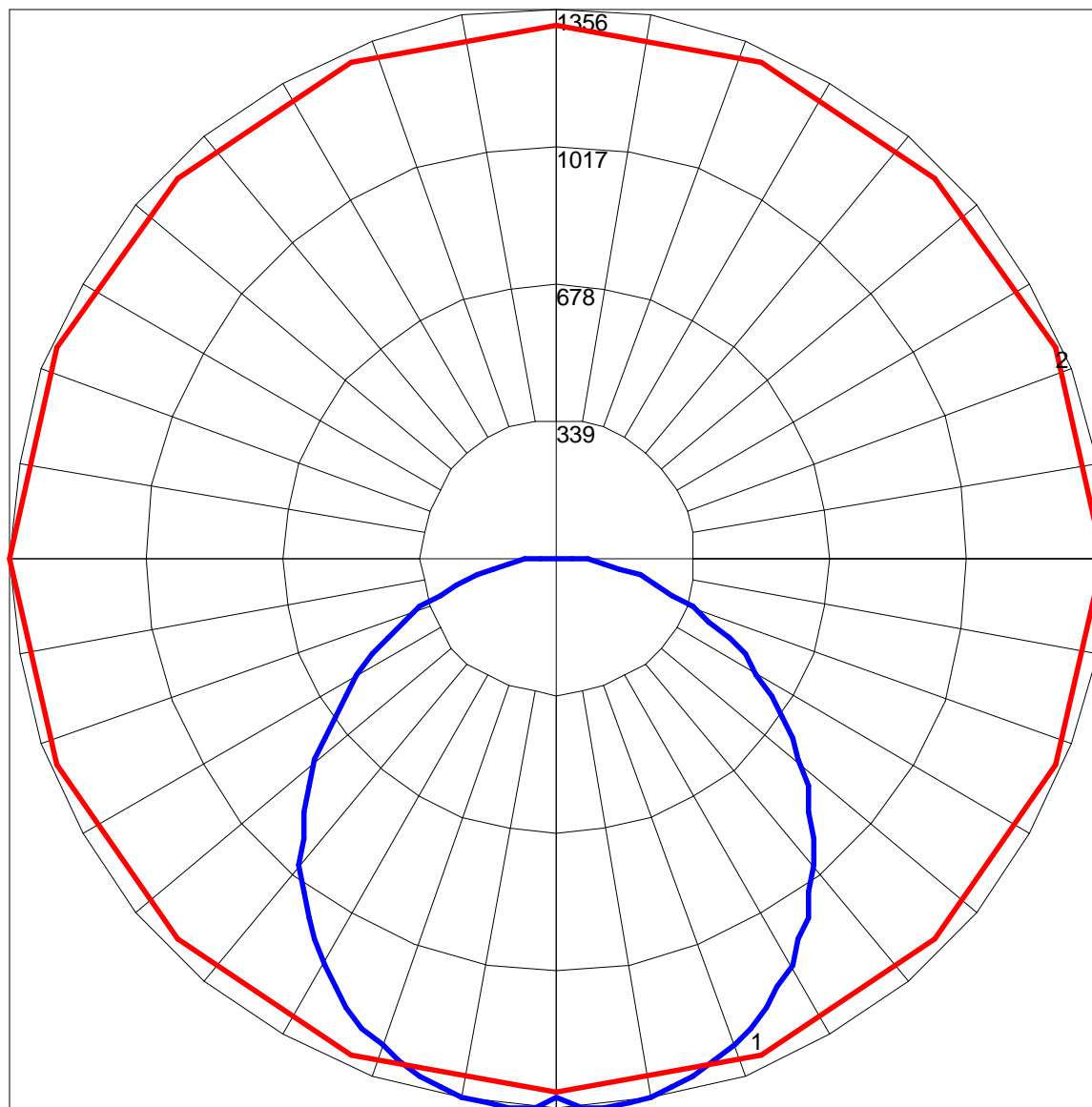
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

POLAR GRAPH



Maximum Candela = 1356 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)