



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPEC14-LED-40L-50.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-8960\_Scaled

[TESTLAB] LSI INDUSTRIES, INC

[ISSUEDATE] 07/10/17

[TESTDATE] 05/25/17

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] LPEC14-LED-40L-50

[\_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[OTHER]SCALED FROM ORIGINAL TEST DATA

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	32.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.46
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	3166	3736	4188
55	2976	3806	4489
65	2768	3854	4795
75	2509	3850	4650
85	2184	3468	3211

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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>	1247.154	1247.154	1247.154	1247.154	1247.154
<b>2.5</b>	1272.139	1257.564	1249.236	1238.826	1232.580
<b>5.0</b>	1272.139	1257.564	1249.236	1240.908	1236.744
<b>7.5</b>	1267.975	1255.482	1249.236	1242.990	1236.744
<b>10.0</b>	1261.728	1249.236	1247.154	1242.990	1236.744
<b>12.5</b>	1249.236	1238.826	1238.826	1240.908	1236.744
<b>15.0</b>	1236.744	1228.415	1234.662	1238.826	1240.908
<b>17.5</b>	1220.087	1215.923	1226.333	1238.826	1238.826
<b>20.0</b>	1199.267	1199.267	1215.923	1236.744	1238.826
<b>22.5</b>	1176.364	1178.446	1203.431	1230.498	1232.580
<b>25.0</b>	1153.461	1157.625	1193.020	1224.251	1230.498
<b>27.5</b>	1120.148	1134.723	1174.282	1213.841	1226.333
<b>30.0</b>	1084.753	1105.574	1155.543	1203.431	1215.923
<b>32.5</b>	1049.358	1072.261	1134.723	1188.856	1207.595
<b>35.0</b>	1011.881	1038.948	1107.656	1172.200	1188.856
<b>37.5</b>	968.158	999.389	1080.589	1151.379	1172.200
<b>40.0</b>	920.271	959.830	1049.358	1128.477	1151.379
<b>42.5</b>	878.629	916.106	1018.127	1103.492	1130.559
<b>45.0</b>	832.824	874.465	982.732	1074.343	1101.410
<b>47.5</b>	782.855	830.742	943.173	1045.194	1072.261
<b>50.0</b>	734.967	784.937	901.532	1007.717	1041.030
<b>52.5</b>	684.998	737.049	857.809	966.076	999.389
<b>55.0</b>	635.028	687.080	812.003	922.353	957.748
<b>57.5</b>	587.141	637.110	764.116	878.629	914.024
<b>60.0</b>	539.254	585.059	714.147	828.660	864.055
<b>62.5</b>	487.202	533.007	662.095	776.608	812.003
<b>65.0</b>	435.151	478.874	605.879	720.393	753.706
<b>67.5</b>	385.181	426.822	547.582	657.931	687.080
<b>70.0</b>	335.212	372.689	489.284	591.305	612.126
<b>72.5</b>	289.406	322.719	433.069	520.515	535.089
<b>75.0</b>	241.519	272.750	370.607	443.479	447.643
<b>77.5</b>	195.714	224.862	308.145	356.032	356.032
<b>80.0</b>	149.908	176.975	243.601	272.750	268.586
<b>82.5</b>	112.431	129.088	179.057	189.467	181.139
<b>85.0</b>	70.790	85.364	112.431	108.267	104.103
<b>87.5</b>	35.395	43.723	47.887	39.559	37.477
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	468.63	N.A.	11.00
0-30	1018.09	N.A.	23.90
0-40	1709.3	N.A.	40.10
0-60	3180.48	N.A.	74.60
0-80	4148.48	N.A.	97.40
0-90	4261.15	N.A.	100.00
10-90	4141.89	N.A.	97.20
20-40	1240.67	N.A.	29.10
20-50	1992.52	N.A.	46.80
40-70	2063.32	N.A.	48.40
60-80	967.99	N.A.	22.70
70-80	375.86	N.A.	8.80
80-90	112.68	N.A.	2.60
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	4261.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	119.26
10-20	349.37
20-30	549.46
30-40	691.20
40-50	751.85
50-60	719.33
60-70	592.13
70-80	375.86
80-90	112.68
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

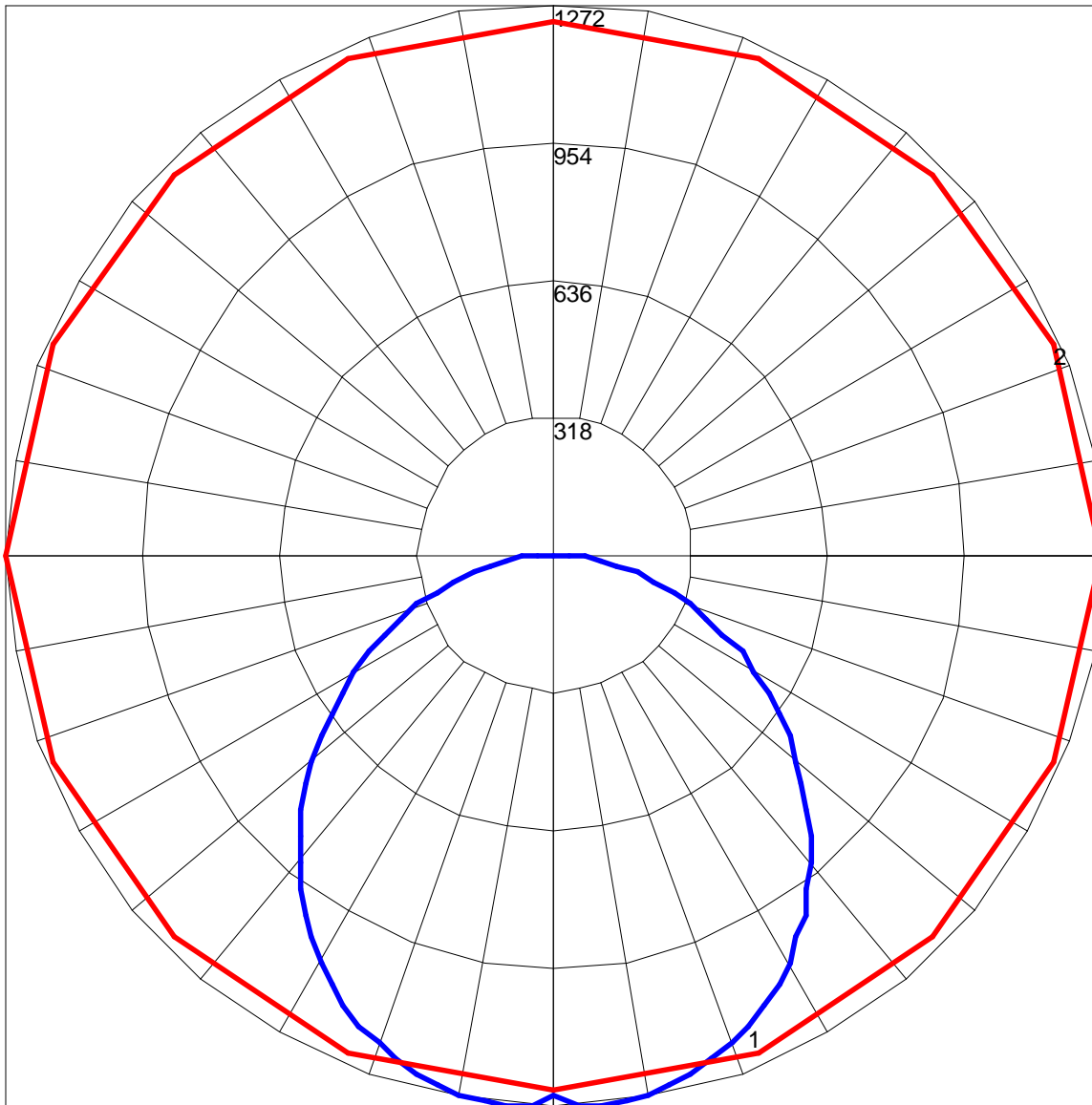
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	51	64	56	50	62	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	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 1272.139 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.)