



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPEC14-LED-45L-30.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-8960\_Scaled

[TESTLAB] LSI INDUSTRIES, INC

[ISSUEDATE] 08/18/17

[TESTDATE] 05/25/17

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] LPEC14-LED-45L-30

[\_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	4429
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	34.7
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	3291	3884	4353
55	3094	3956	4666
65	2877	4006	4984
75	2608	4001	4833
85	2270	3605	3338

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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>	1296.314	1296.314	1296.314	1296.314	1296.314
<b>2.5</b>	1322.283	1307.135	1298.478	1287.657	1281.165
<b>5.0</b>	1322.283	1307.135	1298.478	1289.821	1285.493
<b>7.5</b>	1317.955	1304.970	1298.478	1291.986	1285.493
<b>10.0</b>	1311.463	1298.478	1296.314	1291.986	1285.493
<b>12.5</b>	1298.478	1287.657	1287.657	1289.821	1285.493
<b>15.0</b>	1285.493	1276.837	1283.329	1287.657	1289.821
<b>17.5</b>	1268.180	1263.852	1274.673	1287.657	1287.657
<b>20.0</b>	1246.539	1246.539	1263.852	1285.493	1287.657
<b>22.5</b>	1222.733	1224.898	1250.867	1279.001	1281.165
<b>25.0</b>	1198.928	1203.256	1240.046	1272.508	1279.001
<b>27.5</b>	1164.302	1179.451	1220.569	1261.688	1274.673
<b>30.0</b>	1127.512	1149.153	1201.092	1250.867	1263.852
<b>32.5</b>	1090.722	1114.527	1179.451	1235.718	1255.195
<b>35.0</b>	1051.767	1079.901	1151.317	1218.405	1235.718
<b>37.5</b>	1006.320	1038.782	1123.183	1196.764	1218.405
<b>40.0</b>	956.545	997.664	1090.722	1172.958	1196.764
<b>42.5</b>	913.263	952.217	1058.260	1146.989	1175.123
<b>45.0</b>	865.652	908.935	1021.469	1116.691	1144.825
<b>47.5</b>	813.713	863.488	980.351	1086.393	1114.527
<b>50.0</b>	763.938	815.877	937.068	1047.439	1082.065
<b>52.5</b>	711.999	766.102	891.622	1004.156	1038.782
<b>55.0</b>	660.060	714.163	844.011	958.710	995.500
<b>57.5</b>	610.285	662.224	794.236	913.263	950.053
<b>60.0</b>	560.510	608.121	742.297	861.324	898.114
<b>62.5</b>	506.406	554.017	688.193	807.220	844.011
<b>65.0</b>	452.303	497.750	629.762	748.789	783.415
<b>67.5</b>	400.364	443.647	569.166	683.865	714.163
<b>70.0</b>	348.425	387.379	508.571	614.613	636.254
<b>72.5</b>	300.814	335.440	450.139	541.032	556.181
<b>75.0</b>	251.039	283.501	385.215	460.960	465.288
<b>77.5</b>	203.428	233.726	320.291	370.066	370.066
<b>80.0</b>	155.817	183.951	253.203	283.501	279.173
<b>82.5</b>	116.863	134.176	186.115	196.936	188.279
<b>85.0</b>	73.580	88.729	116.863	112.535	108.206
<b>87.5</b>	36.790	45.447	49.775	41.118	38.954
<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	487.10	N.A.	11.00
0-30	1058.22	N.A.	23.90
0-40	1776.67	N.A.	40.10
0-60	3305.85	N.A.	74.60
0-80	4312.00	N.A.	97.40
0-90	4429.12	N.A.	100.00
10-90	4305.16	N.A.	97.20
20-40	1289.57	N.A.	29.10
20-50	2071.06	N.A.	46.80
40-70	2144.65	N.A.	48.40
60-80	1006.15	N.A.	22.70
70-80	390.67	N.A.	8.80
80-90	117.12	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	4429.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.96
10-20	363.14
20-30	571.12
30-40	718.45
40-50	781.49
50-60	747.69
60-70	615.47
70-80	390.67
80-90	117.12
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

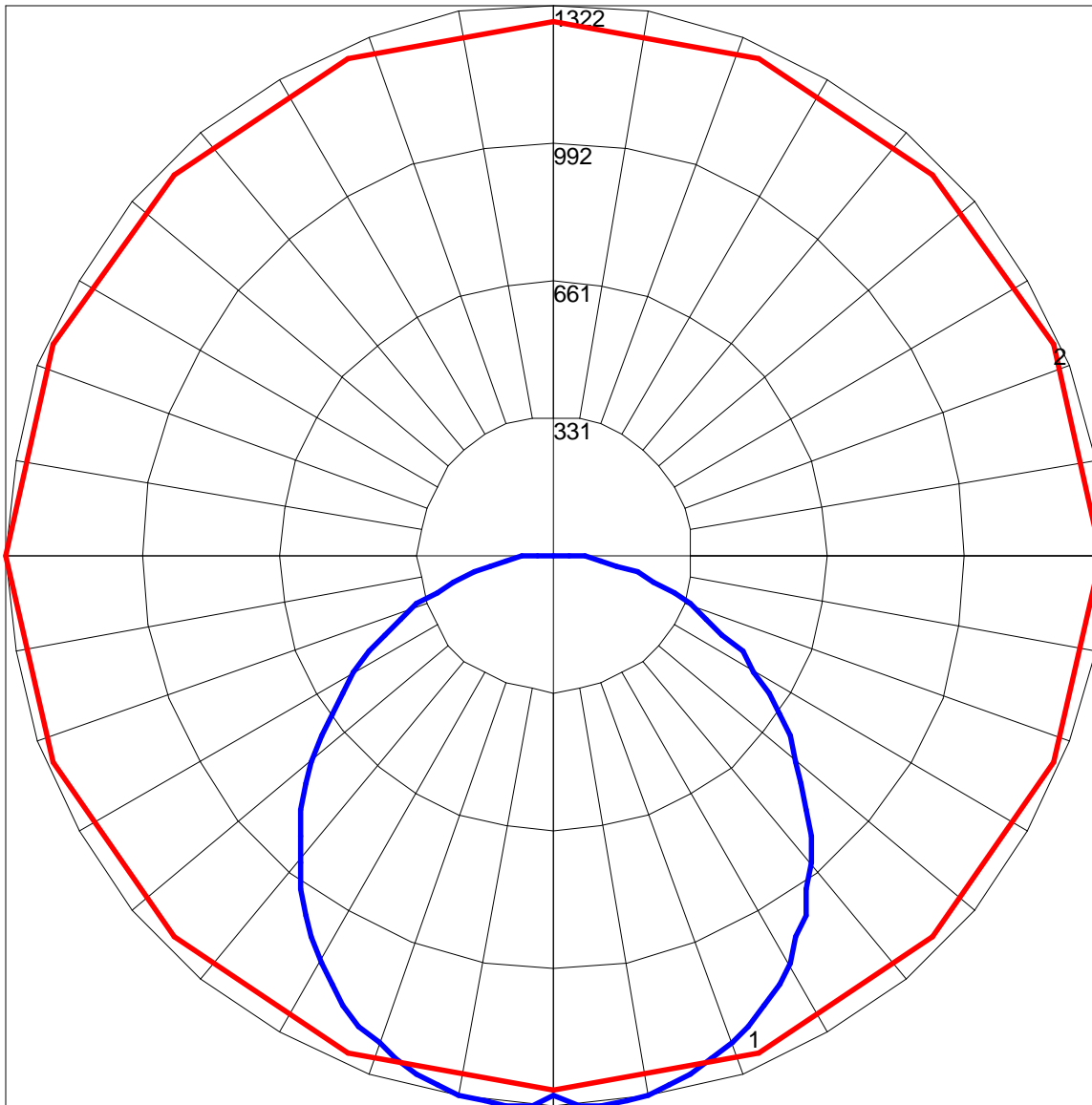
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1322.283 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.)