



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD14-LED-36L-AL-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8609R\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]05/02/17  
[TEST DATE]02/23/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LHBXD\_LHB14-LED-36L-AL-40  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_SEARCH\_SOURCE TYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36012
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	278
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37870	40264	35416
55	36861	35172	26728
65	33903	22881	12477
75	25808	8950	4849
85	12854	3673	2513

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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>
0.0	11603.123	11603.123	11603.123	11603.123	11603.123
2.5	11583.018	11692.157	11672.052	11634.715	11603.123
5.0	11623.227	11763.958	11795.551	11807.039	11795.551
7.5	11689.284	11870.224	12002.339	12074.140	12077.013
10.0	11766.830	12025.315	12249.336	12352.730	12375.707
12.5	11844.376	12189.023	12519.310	12648.553	12694.505
15.0	11898.945	12369.963	12803.644	12952.991	12990.328
17.5	11873.096	12484.845	13079.362	13222.965	13260.301
20.0	11781.190	12550.902	13311.998	13444.113	13383.800
22.5	11626.099	12542.286	13481.450	13510.171	13369.440
25.0	11407.823	12476.229	13524.531	13426.881	13136.803
27.5	11129.233	12352.730	13421.137	13154.035	12711.738
30.0	10821.922	12168.918	13197.116	12694.505	12154.558
32.5	10526.100	11956.386	12820.876	12097.117	11488.240
35.0	10267.615	11772.574	12329.754	11373.358	10775.969
37.5	10003.385	11568.658	11726.621	10626.622	10115.396
40.0	9721.923	11321.661	11109.128	9945.944	9566.832
42.5	9463.438	11014.350	10414.090	9348.555	9052.733
45.0	9130.279	10652.471	9707.563	8768.399	8538.635
47.5	8736.807	10175.709	8998.164	8182.499	7992.943
50.0	8271.533	9601.297	8300.254	7590.855	7320.881
52.5	7760.306	8934.979	7605.215	6803.910	6315.660
55.0	7208.871	8173.883	6878.584	5804.433	5227.149
57.5	6671.796	7280.672	6151.953	4724.539	4161.615
60.0	6128.976	6421.926	5281.718	3716.446	3265.532
62.5	5511.483	5600.517	4279.369	2863.444	2504.436
65.0	4885.374	4802.084	3297.125	2145.429	1797.910
67.5	4233.417	4032.372	2458.483	1510.704	1214.881
70.0	3610.179	3259.788	1743.340	1019.581	827.153
72.5	2952.478	2510.180	1186.161	695.039	580.156
75.0	2277.544	1783.549	789.817	496.866	427.937
77.5	1660.051	1160.312	531.331	353.263	307.310
80.0	1137.336	712.271	359.008	238.381	209.660
82.5	683.550	425.065	212.532	146.475	132.115
85.0	381.984	229.765	109.138	83.290	74.674
87.5	172.324	94.778	48.825	40.209	43.081
90.0	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4724.61	N.A.	13.10
0-30	10655.78	N.A.	29.60
0-40	17842.78	N.A.	49.50
0-60	31159.11	N.A.	86.50
0-80	35799.15	N.A.	99.40
0-90	36011.64	N.A.	100.00
10-90	34874.96	N.A.	96.80
20-40	13118.18	N.A.	36.40
20-50	20422.17	N.A.	56.70
40-70	16724.6	N.A.	46.40
60-80	4640.04	N.A.	12.90
70-80	1231.76	N.A.	3.40
80-90	212.49	N.A.	0.60
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	36011.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1136.68
10-20	3587.93
20-30	5931.18
30-40	7187.00
40-50	7303.99
50-60	6012.33
60-70	3408.28
70-80	1231.76
80-90	212.49
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

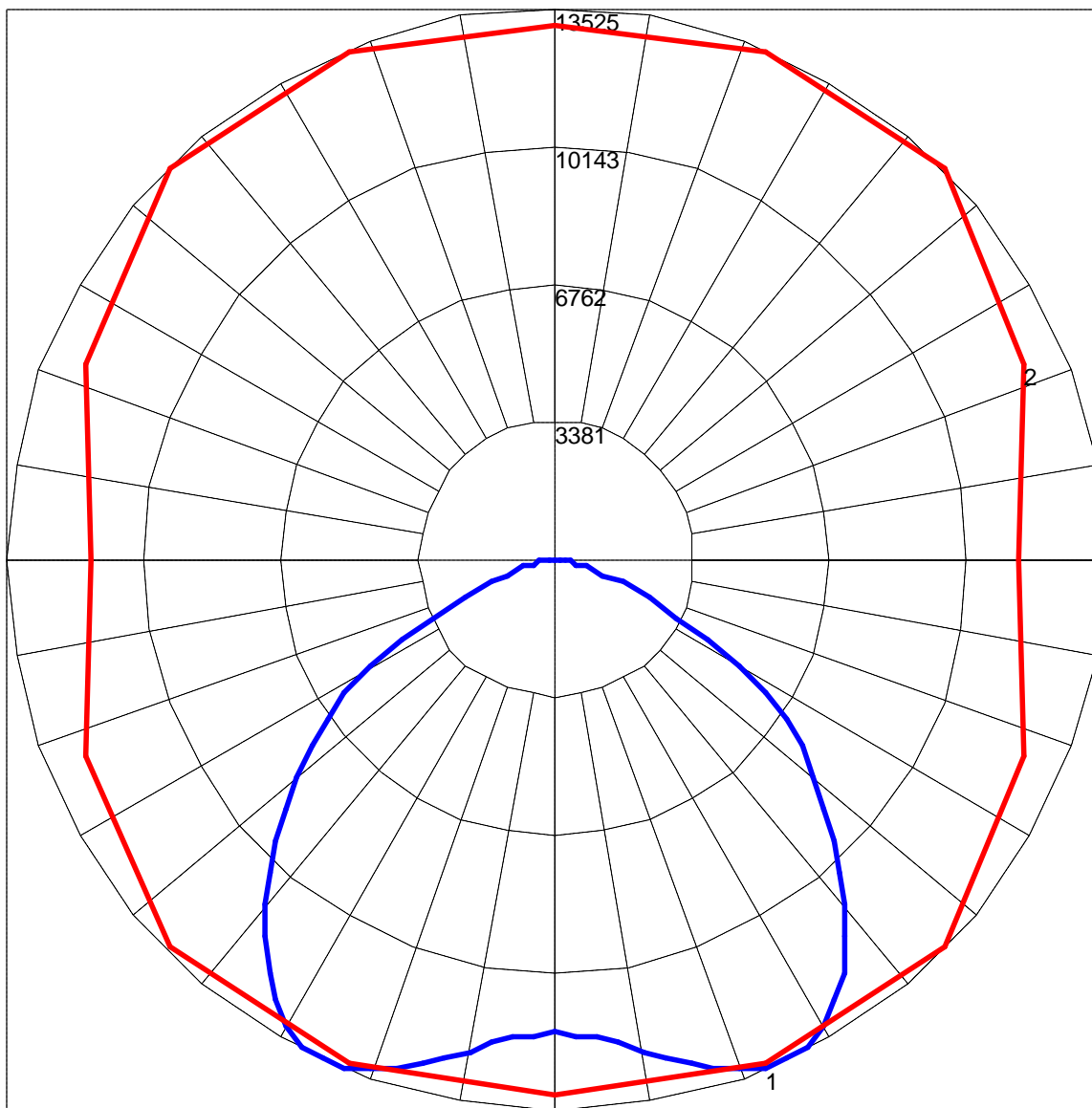
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 13524.531 Located At Horizontal Angle = 45, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)