



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD14-LED-36L-AL-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8609R\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUEDATE]05/02/17  
[TESTDATE]02/23/17  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]LHBXD\_LHB14-LED-36L-AL-35  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	38480	40913	35986
55	37455	35739	27158
65	34449	23250	12678
75	26224	9094	4927
85	13061	3732	2553

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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	11790.013	11790.013	11790.013	11790.013	11790.013
2.5	11769.584	11880.480	11860.052	11822.114	11790.013
5.0	11810.441	11953.438	11985.540	11997.213	11985.540
7.5	11877.562	12061.416	12195.659	12268.617	12271.535
10.0	11956.357	12219.006	12446.635	12551.694	12575.041
12.5	12035.151	12385.350	12720.957	12852.281	12898.974
15.0	12090.600	12569.204	13009.870	13161.623	13199.561
17.5	12064.335	12685.937	13290.029	13435.945	13473.883
20.0	11970.948	12753.058	13526.413	13660.656	13599.371
22.5	11813.359	12744.303	13698.594	13727.777	13584.779
25.0	11591.567	12677.182	13742.369	13643.146	13348.395
27.5	11308.490	12551.694	13637.309	13365.905	12916.484
30.0	10996.230	12364.922	13409.680	12898.974	12350.330
32.5	10695.643	12148.966	13027.380	12291.964	11673.280
35.0	10432.994	11962.193	12528.348	11556.547	10949.536
37.5	10164.508	11754.993	11915.500	10797.784	10278.323
40.0	9878.513	11504.017	11288.062	10106.142	9720.924
42.5	9615.864	11191.757	10581.828	9499.131	9198.544
45.0	9277.339	10824.049	99863.921	8909.631	8676.165
47.5	8877.529	10339.608	9143.096	8314.294	8121.684
50.0	8404.761	9755.944	8433.945	7713.120	7438.798
52.5	7885.300	9078.893	7727.711	6913.500	6417.386
55.0	7324.983	8305.539	6989.376	5897.925	5311.342
57.5	6779.257	7397.941	6251.041	4800.636	4228.646
60.0	6227.695	6525.363	5366.790	3776.306	3318.130
62.5	5600.256	5690.724	4348.297	2909.565	2544.775
65.0	4964.062	4879.431	3350.231	2179.985	1826.868
67.5	4301.604	4097.321	2498.082	1535.036	1234.449
70.0	3668.328	3312.293	1771.420	1036.004	840.476
72.5	3000.033	2550.612	1205.266	706.233	589.501
75.0	2314.228	1812.277	802.538	504.869	434.830
77.5	1686.789	1179.001	539.889	358.953	312.260
80.0	1155.655	723.743	364.790	242.221	213.037
82.5	694.560	431.911	215.956	148.834	134.243
85.0	388.137	233.466	110.896	84.631	75.876
87.5	175.099	96.305	49.611	40.856	43.775
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	4800.7	N.A.	13.10
0-30	10827.41	N.A.	29.60
0-40	18130.17	N.A.	49.50
0-60	31660.98	N.A.	86.50
0-80	36375.76	N.A.	99.40
0-90	36591.67	N.A.	100.00
10-90	35436.69	N.A.	96.80
20-40	13329.47	N.A.	36.40
20-50	20751.11	N.A.	56.70
40-70	16993.99	N.A.	46.40
60-80	4714.78	N.A.	12.90
70-80	1251.6	N.A.	3.40
80-90	215.91	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	36591.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1154.98
10-20	3645.72
20-30	6026.71
30-40	7302.76
40-50	7421.64
50-60	6109.17
60-70	3463.18
70-80	1251.6
80-90	215.91
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

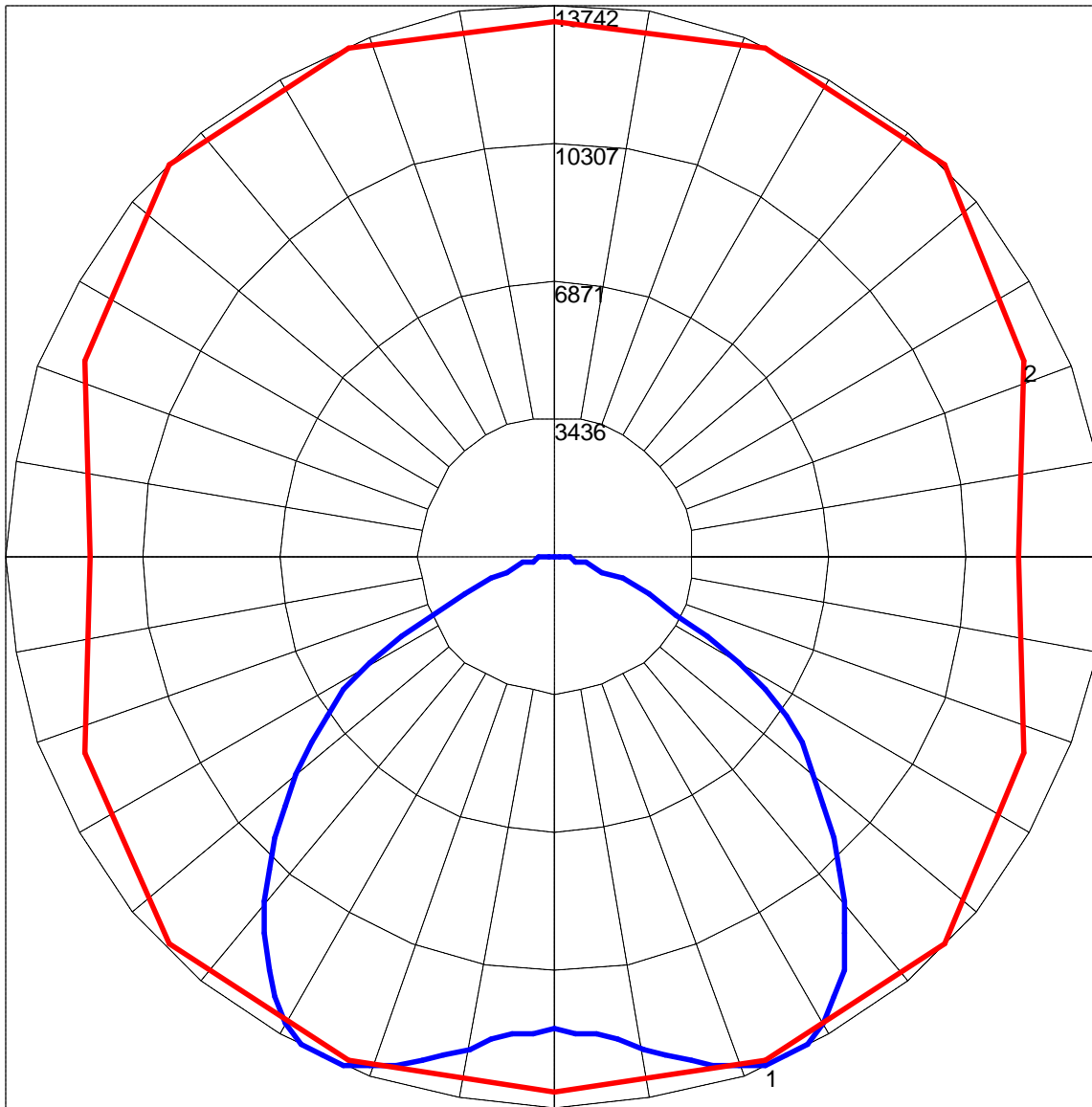
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 13742.369 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.)