



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8606R\_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-LL-35  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[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	38233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	278
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.50
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	39158	39267	38819
55	39276	39530	39172
65	38521	39230	28779
75	34426	13261	5556
85	24650	9428	9133

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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	12207.626	12207.626	12207.626	12207.626	12207.626
2.5	12204.707	12295.177	12254.320	12201.789	12178.442
5.0	12210.544	12301.014	12257.238	12198.870	12172.605
7.5	12201.789	12298.096	12251.401	12193.034	12158.013
10.0	12175.523	12274.748	12225.136	12163.850	12125.911
12.5	12128.829	12228.054	12175.523	12111.319	12073.380
15.0	12061.706	12169.686	12114.237	12044.196	12003.338
17.5	11982.909	12087.972	12035.441	11956.644	11918.705
20.0	11869.092	11985.828	11930.378	11848.664	11810.724
22.5	11746.520	11851.582	11804.888	11717.336	11679.397
25.0	11594.764	11705.662	11653.131	11565.580	11527.641
27.5	11410.905	11527.641	11480.946	11387.558	11355.456
30.0	11212.455	11332.109	11285.414	11180.352	11145.332
32.5	10984.820	11098.637	11051.943	10946.881	10911.860
35.0	10730.920	10838.901	10795.125	10678.389	10655.042
37.5	10450.755	10555.817	10512.041	10398.224	10363.203
40.0	10138.487	10240.631	10185.181	10083.038	10053.854
42.5	9802.872	9902.097	9843.730	9738.668	9718.239
45.0	9440.992	9528.543	9467.257	9379.706	9359.277
47.5	9052.846	9131.642	9070.356	8991.560	8976.968
50.0	8620.924	8696.802	8658.863	8585.903	8568.393
52.5	8177.329	8235.697	8194.839	8136.471	8136.471
55.0	7681.203	7765.836	7730.815	7681.203	7660.774
57.5	7187.995	7275.546	7249.281	7205.505	7182.158
60.0	6668.521	6758.991	6741.481	6686.032	6566.378
62.5	6119.864	6213.252	6210.334	5883.474	5247.265
65.0	5550.778	5650.003	5652.921	4646.077	4147.032
67.5	4955.426	5051.733	5040.060	3469.966	2638.225
70.0	4322.136	4406.769	3831.846	1861.933	1278.255
72.5	3668.416	3776.397	2684.919	986.416	566.168
75.0	3038.044	3151.861	1170.274	469.861	490.290
77.5	2395.998	2521.489	484.453	461.106	475.698
80.0	1800.647	1529.236	376.472	429.003	446.514
82.5	1237.397	531.147	350.207	376.472	379.391
85.0	732.516	245.145	280.165	277.247	271.410
87.5	326.860	175.103	157.593	157.593	160.511
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	4585.93	N.A.	12.00
0-30	9947.51	N.A.	26.00
0-40	16676.13	N.A.	43.60
0-60	30848.58	N.A.	80.70
0-80	37835.96	N.A.	99.00
0-90	38232.73	N.A.	100.00
10-90	37065.66	N.A.	96.90
20-40	12090.2	N.A.	31.60
20-50	19373.32	N.A.	50.70
40-70	19238.09	N.A.	50.30
60-80	6987.38	N.A.	18.30
70-80	1921.74	N.A.	5.00
80-90	396.77	N.A.	1.00
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	38232.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1167.07
10-20	3418.86
20-30	5361.59
30-40	6728.62
40-50	7283.11
50-60	6889.34
60-70	5065.64
70-80	1921.74
80-90	396.77
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

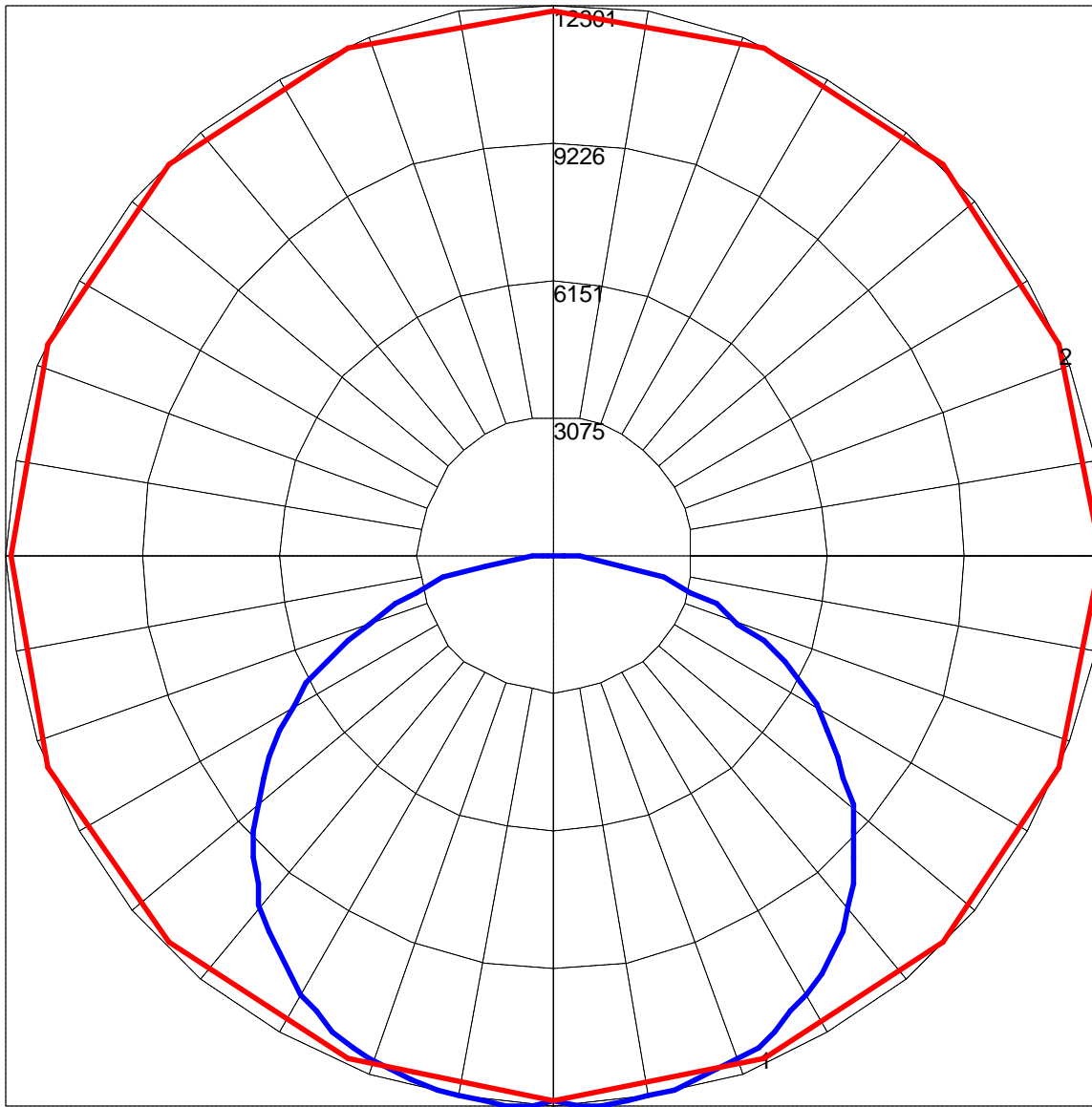
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 12301.014 Located At Horizontal Angle = 22.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)