



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD14-LED-36L-LL-40.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-40  
[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	37626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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	38537	38644	38203
55	38653	38902	38550
65	37909	38607	28322
75	33880	13051	5468
85	24258	9278	8988

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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	12013.827	12013.827	12013.827	12013.827	12013.827
2.5	12010.955	12099.989	12059.780	12008.083	11985.107
5.0	12016.699	12105.733	12062.652	12005.211	11979.363
7.5	12008.083	12102.861	12056.908	11999.467	11965.002
10.0	11982.235	12079.885	12031.060	11970.746	11933.410
12.5	11936.282	12033.932	11982.235	11919.049	11881.712
15.0	11870.224	11976.490	11921.921	11852.992	11812.783
17.5	11792.679	11896.073	11844.376	11766.830	11729.493
20.0	11680.668	11795.551	11740.982	11660.564	11623.227
22.5	11560.042	11663.436	11617.483	11531.321	11493.984
25.0	11410.695	11519.833	11468.136	11381.974	11344.637
27.5	11229.755	11344.637	11298.684	11206.778	11175.186
30.0	11034.455	11152.209	11106.256	11002.862	10968.397
32.5	10810.434	10922.444	10876.491	10773.097	10738.633
35.0	10560.565	10666.831	10623.750	10508.868	10485.891
37.5	10284.847	10388.241	10345.160	10233.150	10198.685
40.0	9977.537	10078.059	10023.490	9922.968	9894.247
42.5	9647.250	9744.900	9687.459	9584.064	9563.960
45.0	9291.114	9377.276	9316.963	9230.801	9210.697
47.5	8909.130	8986.676	8926.363	8848.817	8834.457
50.0	8484.065	8558.739	8521.402	8449.601	8432.368
52.5	8047.512	8104.953	8064.745	8007.303	8007.303
55.0	7559.262	7642.552	7608.087	7559.262	7539.158
57.5	7073.884	7160.046	7134.197	7091.116	7068.140
60.0	6562.657	6651.691	6634.459	6579.890	6462.135
62.5	6022.710	6114.616	6111.744	5790.073	5163.964
65.0	5462.658	5560.308	5563.180	4572.320	4081.197
67.5	4876.758	4971.536	4960.048	3414.879	2596.342
70.0	4253.521	4336.811	3771.015	1832.374	1257.962
72.5	3610.179	3716.446	2642.295	970.756	557.180
75.0	2989.815	3101.825	1151.696	462.402	482.506
77.5	2357.961	2481.460	476.762	453.785	468.146
80.0	1772.061	1504.959	370.496	422.193	439.425
82.5	1217.753	522.715	344.647	370.496	373.368
85.0	720.887	241.253	275.718	272.846	267.102
87.5	321.671	172.324	155.091	155.091	157.963
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	4513.12	N.A.	12.00
0-30	9789.59	N.A.	26.00
0-40	16411.39	N.A.	43.60
0-60	30358.85	N.A.	80.70
0-80	37235.31	N.A.	99.00
0-90	37625.78	N.A.	100.00
10-90	36477.24	N.A.	96.90
20-40	11898.27	N.A.	31.60
20-50	19065.76	N.A.	50.70
40-70	18932.68	N.A.	50.30
60-80	6876.45	N.A.	18.30
70-80	1891.23	N.A.	5.00
80-90	390.47	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	37625.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1148.54
10-20	3364.58
20-30	5276.47
30-40	6621.8
40-50	7167.49
50-60	6779.97
60-70	4985.22
70-80	1891.23
80-90	390.47
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

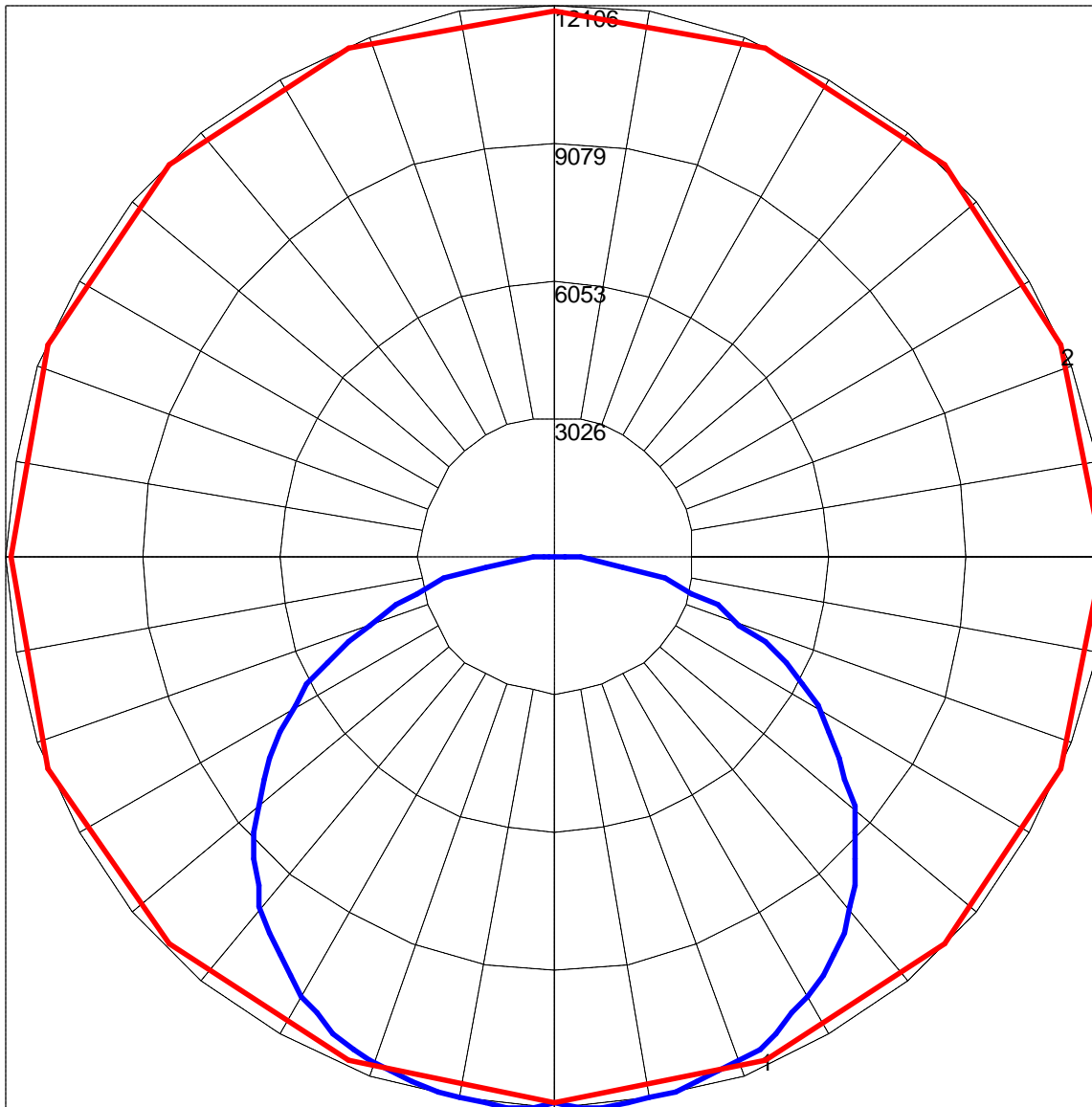
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 12105.733 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.)