



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8707R\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]05/02/17  
[TEST DATE]03/17/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LHBXD\_LHB14-LED-36L-S-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	35994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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)	1.48
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	37725	37725	37282
55	36636	36727	36105
65	33381	32517	25190
75	24162	16197	9846
85	12474	7385	6686

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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	11927.442	11927.442	11927.442	11927.442	11927.442
2.5	11888.890	12022.339	11980.822	11933.373	11915.580
5.0	11909.649	12028.271	11974.891	11921.511	11900.752
7.5	11906.683	12016.408	11957.097	11891.855	11877.028
10.0	11891.855	11989.718	11933.373	11868.131	11862.200
12.5	11859.234	11945.235	11894.821	11838.475	11823.648
15.0	11799.923	11882.959	11835.510	11779.164	11758.406
17.5	11725.784	11799.923	11770.268	11690.198	11678.336
20.0	11619.025	11693.163	11675.370	11580.473	11550.817
22.5	11494.472	11565.645	11544.886	11447.023	11426.264
25.0	11355.091	11417.367	11387.712	11286.883	11269.090
27.5	11174.192	11245.365	11194.951	11105.985	11088.191
30.0	10978.466	11046.674	10996.259	10901.362	10865.775
32.5	10741.222	10815.361	10767.912	10658.187	10625.565
35.0	10477.288	10548.461	10503.978	10382.390	10358.666
37.5	10171.836	10245.975	10207.423	10088.801	10062.111
40.0	9842.660	9907.902	9863.419	9762.590	9756.659
42.5	9486.794	9549.071	9489.760	9418.587	9400.793
45.0	9095.342	9151.687	9095.342	9024.168	8988.582
47.5	8653.475	8715.751	8680.165	8582.302	8564.508
50.0	8193.815	8256.091	8217.539	8116.710	8113.745
52.5	7680.774	7763.810	7716.361	7621.463	7615.532
55.0	7164.769	7244.839	7182.562	7087.664	7060.974
57.5	6604.280	6690.281	6622.073	6497.520	6438.209
60.0	6034.894	6103.102	6028.963	5809.512	5637.510
62.5	5421.025	5504.061	5397.301	5008.814	4658.879
65.0	4810.122	4860.536	4685.569	4006.458	3629.833
67.5	4122.114	4157.701	3893.767	3039.689	2630.443
70.0	3457.831	3451.900	3004.102	2132.230	1803.054
72.5	2760.927	2772.789	2141.127	1447.188	1248.497
75.0	2132.230	2117.403	1429.395	987.528	868.906
77.5	1548.017	1506.499	940.079	685.042	631.662
80.0	1052.770	966.769	602.007	474.488	453.729
82.5	652.421	557.523	376.625	317.314	305.452
85.0	370.694	299.521	219.451	201.657	198.692
87.5	180.899	133.450	112.691	106.760	109.725
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	4481.77	N.A.	12.50
0-30	9717.55	N.A.	27.00
0-40	16261.96	N.A.	45.20
0-60	29626.71	N.A.	82.30
0-80	35678.52	N.A.	99.10
0-90	35993.51	N.A.	100.00
10-90	34853.66	N.A.	96.80
20-40	11780.2	N.A.	32.70
20-50	18773.45	N.A.	52.20
40-70	17730.09	N.A.	49.30
60-80	6051.81	N.A.	16.80
70-80	1686.48	N.A.	4.70
80-90	314.98	N.A.	0.90
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	35993.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1139.85
10-20	3341.91
20-30	5235.78
30-40	6544.41
40-50	6993.26
50-60	6371.5
60-70	4365.33
70-80	1686.48
80-90	314.98
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

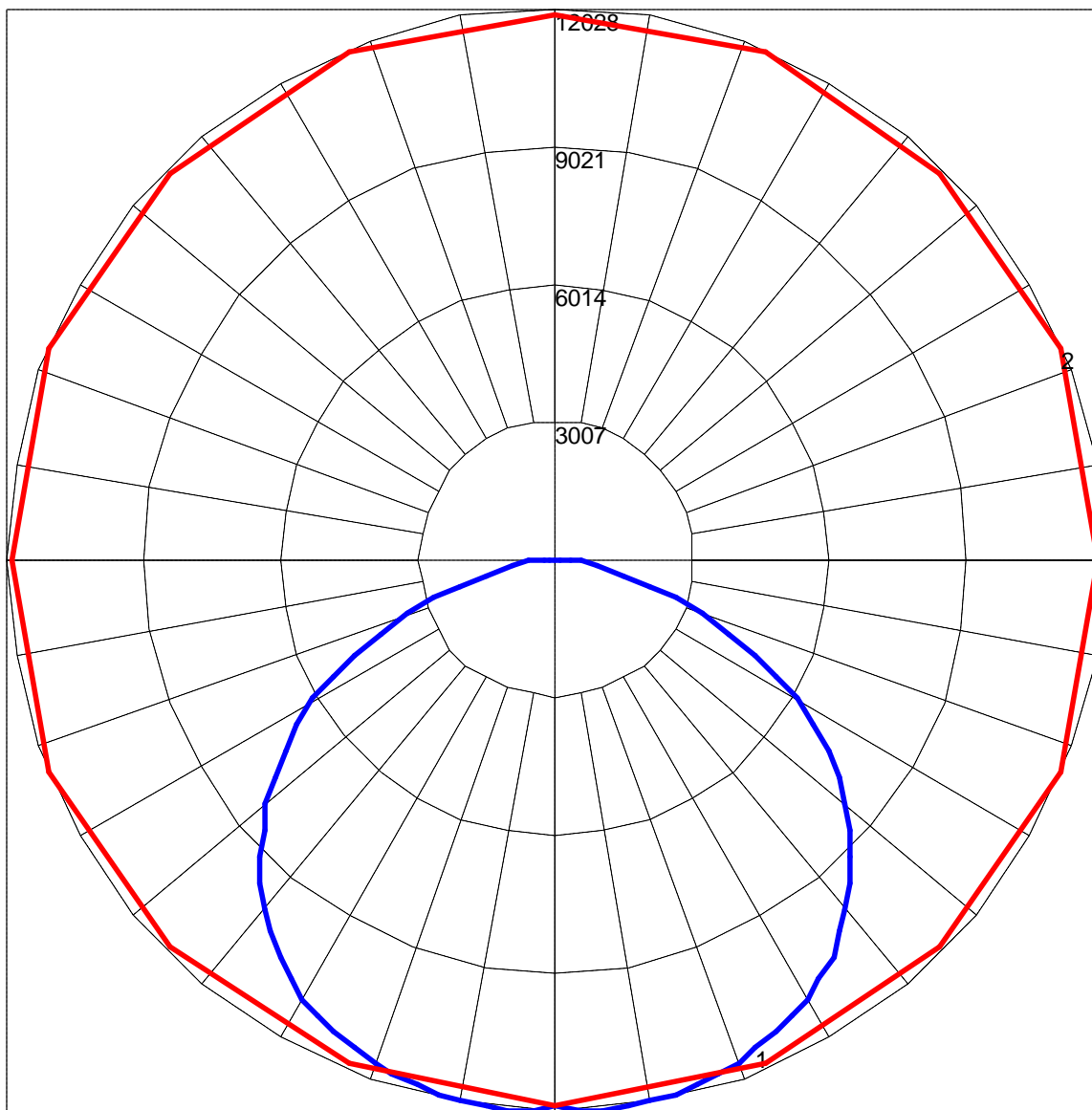
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 12028.271 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.)