



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD14-LED-48L-S-40.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-48L-S-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	43946
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	379
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	46059	46059	45519
55	44730	44841	44082
65	40756	39701	30755
75	29500	19776	12022
85	15230	9016	8163

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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	14562.616	14562.616	14562.616	14562.616	14562.616
2.5	14515.546	14678.480	14627.789	14569.858	14548.133
5.0	14540.892	14685.721	14620.548	14555.375	14530.029
7.5	14537.271	14671.238	14598.823	14519.167	14501.063
10.0	14519.167	14638.652	14569.858	14490.201	14482.960
12.5	14479.339	14584.340	14522.788	14453.994	14435.890
15.0	14406.924	14508.305	14450.373	14381.579	14356.234
17.5	14316.406	14406.924	14370.717	14272.957	14258.474
20.0	14186.059	14276.578	14254.853	14138.989	14102.782
22.5	14033.988	14120.886	14095.541	13976.056	13950.711
25.0	13863.813	13939.849	13903.641	13780.536	13758.812
27.5	13642.948	13729.846	13668.293	13559.671	13537.947
30.0	13403.979	13487.256	13425.704	13309.840	13266.391
32.5	13114.320	13204.839	13146.907	13012.939	12973.111
35.0	12792.074	12878.972	12824.661	12676.211	12647.245
37.5	12419.138	12509.656	12462.587	12317.757	12285.171
40.0	12017.236	12096.892	12042.581	11919.476	11912.234
42.5	11582.747	11658.783	11586.368	11499.470	11477.746
45.0	11104.809	11173.603	11104.809	11017.912	10974.463
47.5	10565.319	10641.355	10597.906	10478.421	10456.697
50.0	10004.104	10080.140	10033.070	9909.965	9906.344
52.5	9377.716	9479.097	9421.165	9305.302	9298.060
55.0	8747.708	8845.468	8769.432	8653.568	8620.982
57.5	8063.388	8168.389	8085.112	7933.041	7860.626
60.0	7368.206	7451.483	7360.964	7093.030	6883.027
62.5	6618.713	6720.093	6589.747	6115.430	5688.182
65.0	5872.840	5934.393	5720.769	4891.620	4431.786
67.5	5032.829	5076.277	4754.032	3711.258	3211.596
70.0	4221.783	4214.541	3667.810	2603.312	2201.410
72.5	3370.909	3385.392	2614.174	1766.921	1524.332
75.0	2603.312	2585.208	1745.197	1205.706	1060.877
77.5	1890.026	1839.336	1147.775	836.391	771.218
80.0	1285.363	1180.361	735.010	579.318	553.973
82.5	796.563	680.699	459.834	387.419	372.936
85.0	452.592	365.695	267.935	246.210	242.590
87.5	220.865	162.933	137.588	130.347	133.967
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	5471.94	N.A.	12.50
0-30	11864.48	N.A.	27.00
0-40	19854.78	N.A.	45.20
0-60	36172.26	N.A.	82.30
0-80	43561.11	N.A.	99.10
0-90	43945.69	N.A.	100.00
10-90	42554.00	N.A.	96.80
20-40	14382.84	N.A.	32.70
20-50	22921.14	N.A.	52.20
40-70	21647.26	N.A.	49.30
60-80	7388.86	N.A.	16.80
70-80	2059.07	N.A.	4.70
80-90	384.57	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	43945.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1391.69
10-20	4080.26
20-30	6392.54
30-40	7990.29
40-50	8538.3
50-60	7779.18
60-70	5329.78
70-80	2059.08
80-90	384.57
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

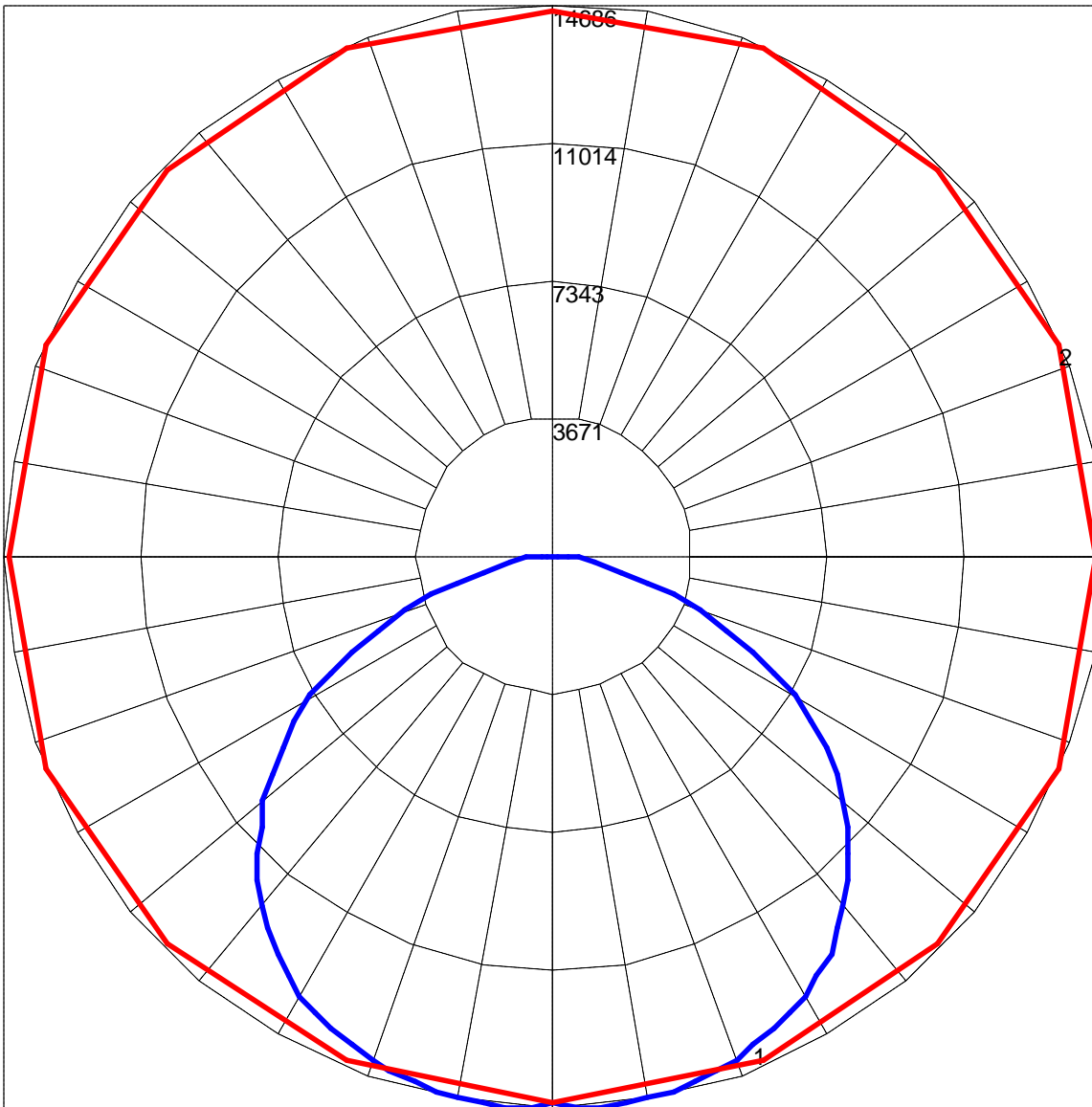
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 14685.721 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.)