



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD14-LED-48L-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-48L-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	45396
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	379
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	47738	50757	44645
55	46467	44338	33693
65	42738	28844	15729
75	32534	11282	6113
85	16204	4630	3168

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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	14626.861	14626.861	14626.861	14626.861	14626.861
2.5	14601.517	14739.097	14713.753	14666.686	14626.861
5.0	14652.204	14829.609	14869.435	14883.917	14869.435
7.5	14735.476	14963.568	15130.112	15220.624	15224.245
10.0	14833.230	15159.076	15441.476	15571.814	15600.778
12.5	14930.984	15365.445	15781.804	15944.726	16002.655
15.0	14999.773	15593.537	16140.234	16328.501	16375.567
17.5	14967.189	15738.357	16487.803	16668.829	16715.895
20.0	14851.332	15821.629	16781.064	16947.608	16871.577
22.5	14655.825	15810.768	16994.674	17030.880	16853.475
25.0	14380.666	15727.496	17048.982	16925.885	16560.213
27.5	14029.477	15571.814	16918.644	16581.936	16024.378
30.0	13642.082	15340.101	16636.244	16002.655	15321.999
32.5	13269.170	15072.184	16161.957	15249.589	14482.040
35.0	12943.324	14840.471	15542.850	14337.220	13584.154
37.5	12610.237	14583.415	14782.543	13395.887	12751.437
40.0	12255.427	14272.051	14004.133	12537.826	12059.919
42.5	11929.581	13884.656	13127.970	11784.760	11411.848
45.0	11509.602	13428.472	12237.324	11053.417	10763.777
47.5	11013.592	12827.467	11343.058	10314.833	10075.880
50.0	10427.069	12103.365	10463.274	9569.008	9228.680
52.5	9782.618	11263.407	9587.111	8576.988	7961.502
55.0	9087.480	10303.972	8671.122	7317.051	6589.328
57.5	8410.445	9177.993	7755.133	5955.739	5246.119
60.0	7726.169	8095.461	6658.118	4684.940	4116.520
62.5	6947.759	7059.995	5394.560	3609.649	3157.085
65.0	6158.488	6053.493	4156.346	2704.521	2266.439
67.5	5336.632	5083.196	3099.157	1904.388	1531.476
70.0	4550.981	4109.279	2197.650	1285.281	1042.707
72.5	3721.884	3164.326	1495.271	876.163	731.343
75.0	2871.065	2248.337	995.640	626.348	539.456
77.5	2092.655	1462.686	669.794	445.323	387.395
80.0	1433.722	897.887	452.564	300.502	264.297
82.5	861.681	535.835	267.918	184.646	166.543
85.0	481.528	289.641	137.579	104.995	94.133
87.5	217.231	119.477	61.549	50.687	54.308
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	5955.82	N.A.	13.10
0-30	13432.65	N.A.	29.60
0-40	22492.55	N.A.	49.50
0-60	39279.07	N.A.	86.50
0-80	45128.3	N.A.	99.40
0-90	45396.16	N.A.	100.00
10-90	43963.27	N.A.	96.80
20-40	16536.73	N.A.	36.40
20-50	25744.13	N.A.	56.70
40-70	21082.98	N.A.	46.40
60-80	5849.22	N.A.	12.90
70-80	1552.76	N.A.	3.40
80-90	267.86	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	45396.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1432.89
10-20	4522.93
20-30	7476.82
30-40	9059.91
40-50	9207.39
50-60	7579.13
60-70	4296.47
70-80	1552.76
80-90	267.86
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

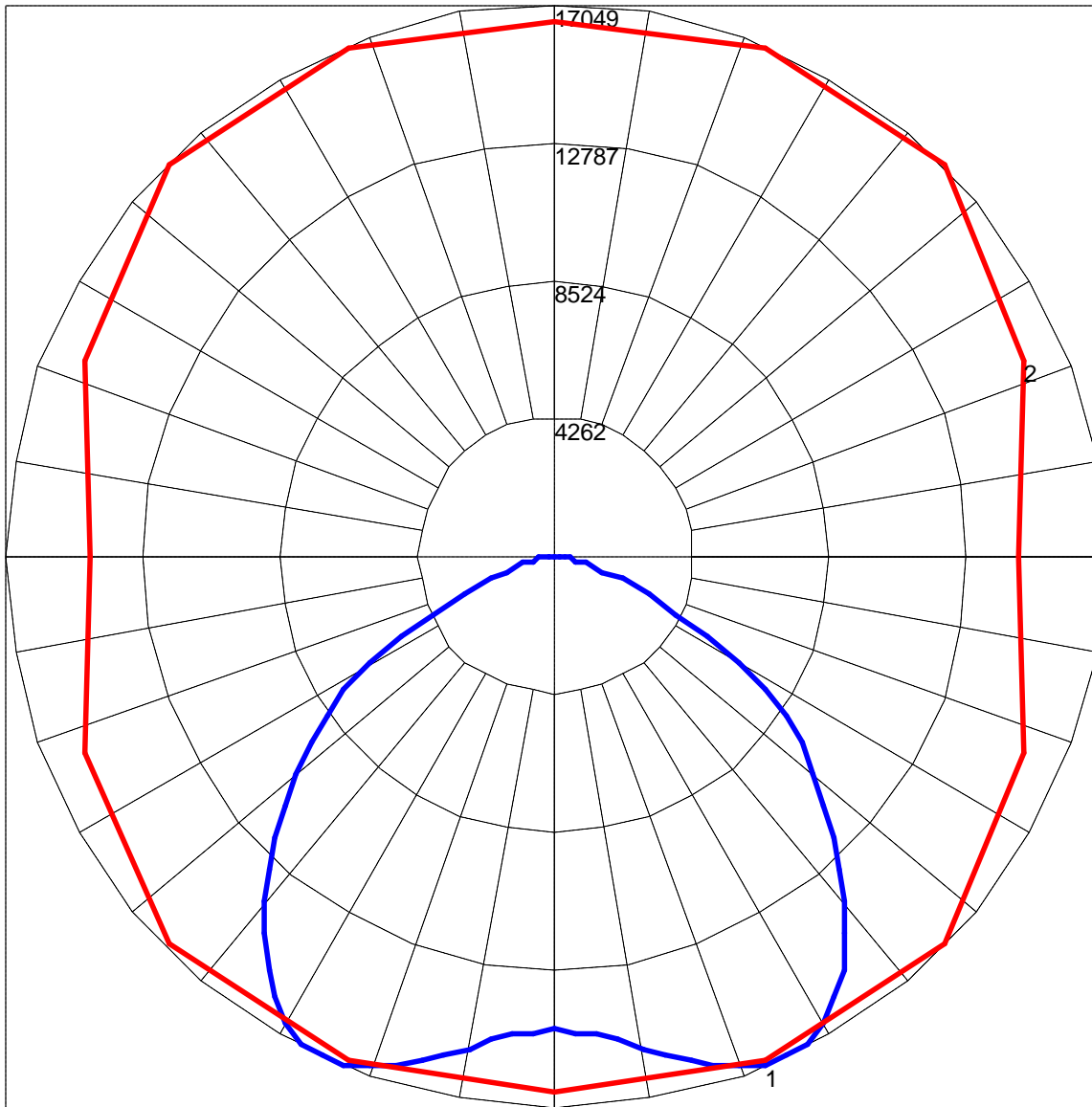
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 17048.982 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.)