



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LHBXD14-LED-36L-SDFL-40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]LED-8608R\_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-SDFL-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	33490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	278
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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	32866	32640	31532
55	30414	30047	28784
65	27565	27067	25532
75	24669	23595	21903
85	24258	18266	14980

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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	12125.838	12125.838	12125.838	12125.838	12125.838
2.5	12114.349	12226.360	12180.407	12122.966	12105.733
5.0	12114.349	12223.488	12171.791	12108.605	12085.629
7.5	12091.373	12197.639	12143.070	12068.396	12045.420
10.0	12039.676	12140.198	12079.885	11999.467	11967.874
12.5	11944.898	12045.420	11985.107	11890.329	11861.608
15.0	11821.399	11919.049	11855.864	11755.342	11715.133
17.5	11683.540	11769.702	11695.029	11594.506	11545.681
20.0	11502.601	11588.762	11499.728	11387.718	11341.765
22.5	11292.940	11370.486	11272.836	11152.209	11097.640
25.0	11045.943	11112.000	11014.350	10885.108	10827.666
27.5	10770.225	10824.794	10730.016	10583.541	10526.100
30.0	10434.194	10480.147	10408.346	10253.254	10192.941
32.5	10086.675	10121.140	10043.594	9894.247	9828.190
35.0	9690.331	9739.156	9650.122	9503.647	9440.461
37.5	9285.370	9328.451	9236.545	9075.710	9021.141
40.0	8854.561	8897.642	8794.248	8627.668	8561.611
42.5	8395.032	8438.112	8340.462	8159.523	8104.953
45.0	7924.014	7958.478	7869.445	7688.505	7602.343
47.5	7450.124	7473.100	7375.450	7205.999	7119.837
50.0	6967.618	6987.722	6890.072	6709.132	6628.715
52.5	6444.903	6470.751	6373.101	6212.266	6123.232
55.0	5948.036	5948.036	5876.235	5721.144	5629.238
57.5	5419.577	5448.298	5370.752	5230.021	5132.371
60.0	4939.943	4948.559	4865.270	4727.411	4618.273
62.5	4457.437	4468.925	4382.764	4253.521	4147.255
65.0	3972.059	3992.163	3900.258	3762.399	3679.109
67.5	3529.762	3532.634	3437.856	3302.869	3202.347
70.0	3067.360	3073.104	2955.350	2843.339	2765.794
72.5	2599.214	2616.447	2513.053	2418.275	2346.473
75.0	2177.022	2154.045	2082.244	1993.210	1932.896
77.5	1754.829	1749.085	1671.539	1571.017	1522.192
80.0	1384.333	1352.740	1275.195	1177.545	1128.720
82.5	1025.325	982.245	898.955	798.433	743.864
85.0	720.887	657.702	542.819	450.913	445.169
87.5	436.553	338.903	241.253	215.405	203.916
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	4494.37	N.A.	13.40
0-30	9553.61	N.A.	28.50
0-40	15561.11	N.A.	46.50
0-60	26809.12	N.A.	80.10
0-80	32847.92	N.A.	98.10
0-90	33490.38	N.A.	100.00
10-90	32333.58	N.A.	96.50
20-40	11066.74	N.A.	33.00
20-50	17097.51	N.A.	51.10
40-70	15087.57	N.A.	45.10
60-80	6038.8	N.A.	18.00
70-80	2199.24	N.A.	6.60
80-90	642.46	N.A.	1.90
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	33490.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1156.8
10-20	3337.57
20-30	5059.24
30-40	6007.5
40-50	6030.77
50-60	5217.24
60-70	3839.56
70-80	2199.24
80-90	642.46
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

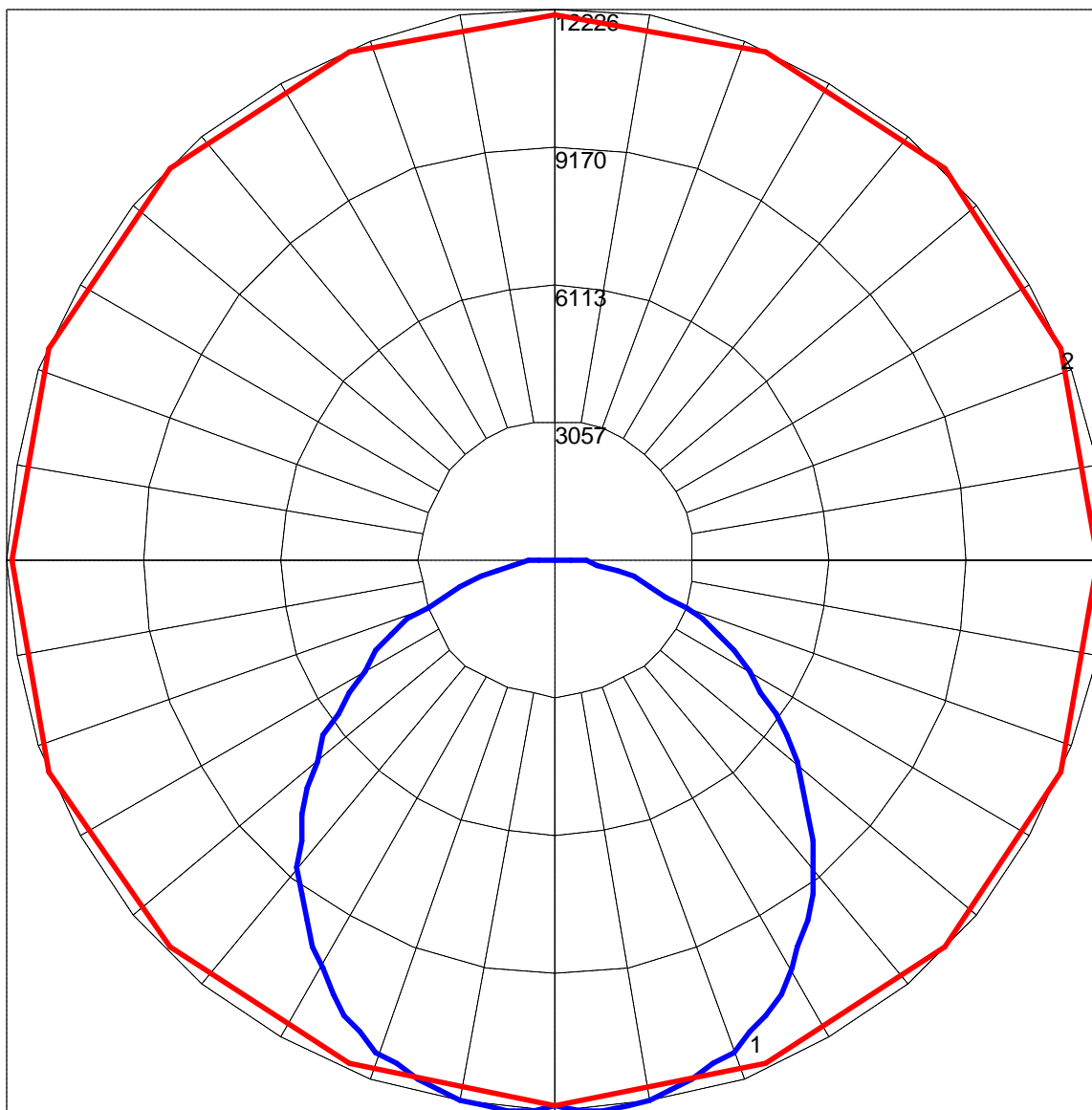
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 12226.36 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)