



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD11-LED-30L-S-50.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\_LHB11-LED-30L-S-50  
[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	28807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	213
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	30193	30193	29839
55	29321	29394	28897
65	26717	26025	20161
75	19338	12964	7880
85	9984	5910	5351

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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>
<b>0.0</b>	9546.137	9546.137	9546.137	9546.137	9546.137
<b>2.5</b>	9515.282	9622.088	9588.860	9550.884	9536.643
<b>5.0</b>	9531.896	9626.835	9584.113	9541.390	9524.776
<b>7.5</b>	9529.523	9617.341	9569.872	9517.655	9505.788
<b>10.0</b>	9517.655	9595.980	9550.884	9498.667	9493.920
<b>12.5</b>	9491.547	9560.378	9520.029	9474.932	9463.065
<b>15.0</b>	9444.077	9510.535	9472.559	9427.463	9410.849
<b>17.5</b>	9384.740	9444.077	9420.342	9356.258	9346.765
<b>20.0</b>	9299.295	9358.632	9344.391	9268.440	9244.705
<b>22.5</b>	9199.609	9256.572	9239.958	9161.633	9145.019
<b>25.0</b>	9088.055	9137.898	9114.164	9033.465	9019.224
<b>27.5</b>	8943.273	9000.236	8959.887	8888.683	8874.442
<b>30.0</b>	8786.623	8841.213	8800.864	8724.913	8696.431
<b>32.5</b>	8596.745	8656.082	8618.106	8530.287	8504.179
<b>35.0</b>	8385.505	8442.469	8406.866	8309.554	8290.566
<b>37.5</b>	8141.037	8200.374	8169.518	8074.579	8053.218
<b>40.0</b>	7877.580	7929.797	7894.195	7813.496	7808.749
<b>42.5</b>	7592.763	7642.606	7595.136	7538.173	7523.932
<b>45.0</b>	7279.463	7324.560	7279.463	7222.500	7194.018
<b>47.5</b>	6925.815	6975.658	6947.176	6868.851	6854.610
<b>50.0</b>	6557.925	6607.769	6576.913	6496.215	6493.842
<b>52.5</b>	6147.313	6213.771	6175.795	6099.844	6095.097
<b>55.0</b>	5734.328	5798.412	5748.569	5672.617	5651.256
<b>57.5</b>	5285.740	5354.571	5299.981	5200.295	5152.825
<b>60.0</b>	4830.032	4884.622	4825.285	4649.647	4511.986
<b>62.5</b>	4338.722	4405.179	4319.734	4008.808	3728.737
<b>65.0</b>	3849.785	3890.134	3750.099	3206.572	2905.140
<b>67.5</b>	3299.137	3327.619	3116.379	2432.817	2105.277
<b>70.0</b>	2767.478	2762.731	2404.335	1706.532	1443.076
<b>72.5</b>	2209.710	2219.204	1713.653	1158.258	999.235
<b>75.0</b>	1706.532	1694.665	1144.017	790.369	695.430
<b>77.5</b>	1238.957	1205.728	752.393	548.274	505.551
<b>80.0</b>	842.585	773.755	481.816	379.757	363.142
<b>82.5</b>	522.166	446.214	301.432	253.962	244.468
<b>85.0</b>	296.685	239.721	175.638	161.397	159.023
<b>87.5</b>	144.782	106.807	90.192	85.445	87.819
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3586.99	N.A.	12.50
0-30	7777.45	N.A.	27.00
0-40	13015.27	N.A.	45.20
0-60	23711.76	N.A.	82.30
0-80	28555.33	N.A.	99.10
0-90	28807.43	N.A.	100.00
10-90	27895.15	N.A.	96.80
20-40	9428.29	N.A.	32.70
20-50	15025.34	N.A.	52.20
40-70	14190.29	N.A.	49.30
60-80	4843.57	N.A.	16.80
70-80	1349.77	N.A.	4.70
80-90	252.10	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	28807.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	912.28
10-20	2674.7
20-30	4190.46
30-40	5237.83
40-50	5597.06
50-60	5099.43
60-70	3493.8
70-80	1349.77
80-90	252.10
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

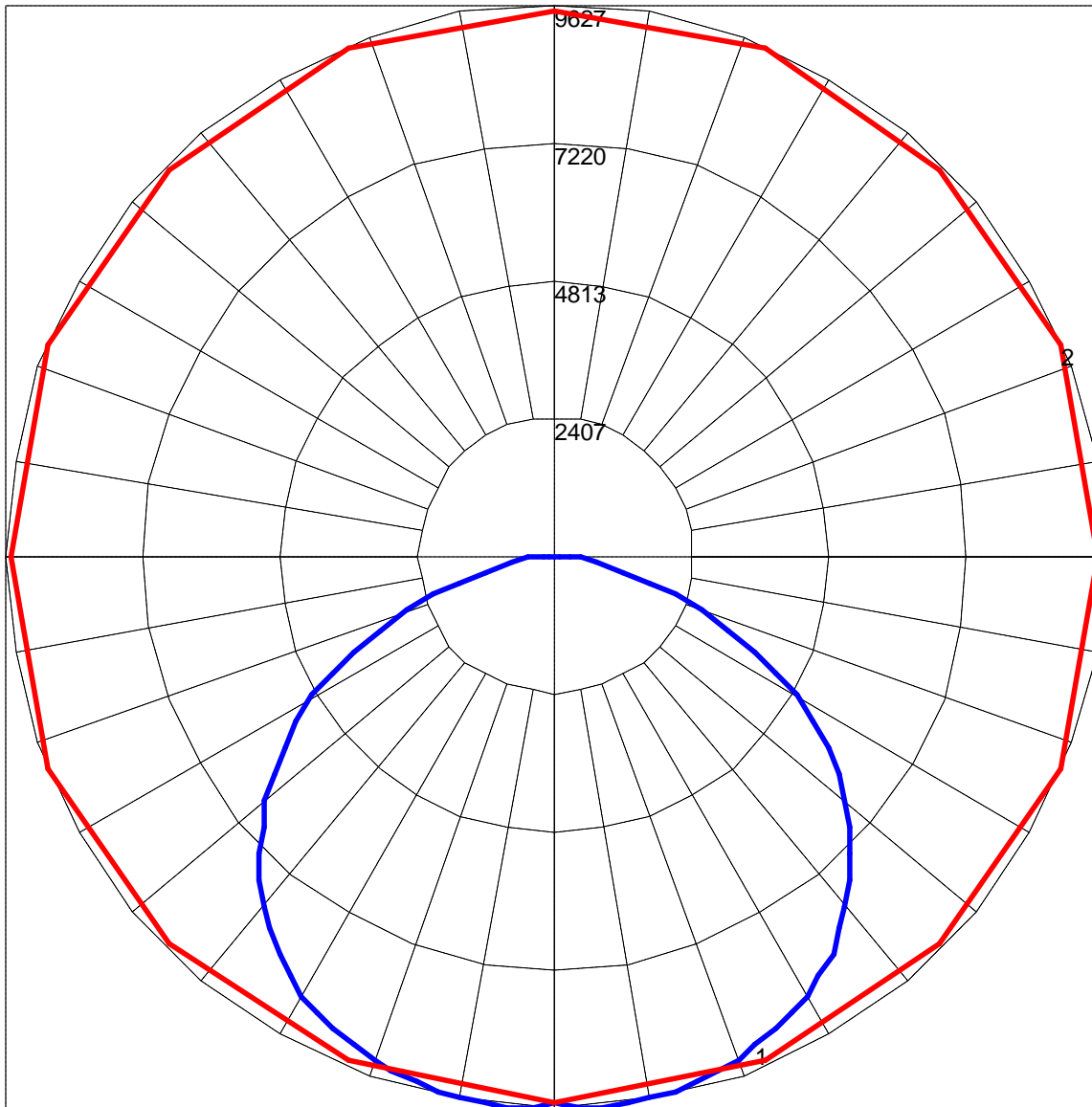
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 9626.835 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.)