



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD11-LED-30L-LL-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8606R\_Scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]05/02/17  
[TEST DATE]02/23/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LHBXD\_LHB11-LED-30L-LL-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	29098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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)	1.50
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	29803	29885	29545
55	29892	30085	29813
65	29317	29857	21903
75	26201	10093	4228
85	18760	7175	6951

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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	9290.945	9290.945	9290.945	9290.945	9290.945
2.5	9288.724	9357.579	9326.483	9286.503	9268.734
5.0	9293.167	9362.021	9328.705	9284.282	9264.292
7.5	9286.503	9359.800	9324.262	9279.840	9253.186
10.0	9266.513	9342.031	9304.272	9257.629	9228.754
12.5	9230.975	9306.493	9266.513	9217.648	9188.774
15.0	9179.889	9262.071	9219.870	9166.563	9135.467
17.5	9119.919	9199.880	9159.899	9099.929	9071.055
20.0	9033.296	9122.140	9079.939	9017.748	8988.873
22.5	8940.008	9019.969	8984.431	8917.797	8888.923
25.0	8824.510	8908.913	8868.933	8802.299	8773.424
27.5	8684.580	8773.424	8737.887	8666.811	8642.378
30.0	8533.543	8624.609	8589.072	8509.111	8482.458
32.5	8360.296	8446.920	8411.382	8331.422	8304.768
35.0	8167.059	8249.240	8215.923	8127.079	8109.310
37.5	7953.831	8033.791	8000.475	7913.851	7887.198
40.0	7716.171	7793.910	7751.709	7673.970	7651.759
42.5	7460.742	7536.261	7491.838	7411.878	7396.330
45.0	7185.324	7251.957	7205.314	7138.680	7123.132
47.5	6889.915	6949.885	6903.241	6843.271	6832.165
50.0	6561.189	6618.938	6590.063	6534.535	6521.209
52.5	6223.579	6268.001	6236.905	6192.483	6192.483
55.0	5845.988	5910.401	5883.747	5845.988	5830.440
57.5	5470.619	5537.252	5517.262	5483.946	5466.177
60.0	5075.259	5144.114	5130.787	5088.586	4997.520
62.5	4657.689	4728.765	4726.544	4477.778	3993.574
65.0	4224.570	4300.089	4302.310	3536.023	3156.212
67.5	3771.462	3844.759	3835.874	2640.912	2007.893
70.0	3289.479	3353.891	2916.331	1417.075	972.851
72.5	2791.948	2874.129	2043.431	750.739	430.897
75.0	2312.186	2398.810	890.669	357.600	373.148
77.5	1823.540	1919.048	368.706	350.937	362.043
80.0	1370.431	1163.867	286.524	326.505	339.831
82.5	941.755	404.244	266.534	286.524	288.746
85.0	557.501	186.574	213.228	211.006	206.564
87.5	248.765	133.267	119.940	119.940	122.162
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	3490.24	N.A.	12.00
0-30	7570.82	N.A.	26.00
0-40	12691.82	N.A.	43.60
0-60	23478.15	N.A.	80.70
0-80	28796.09	N.A.	99.00
0-90	29098.06	N.A.	100.00
10-90	28209.83	N.A.	96.90
20-40	9201.58	N.A.	31.60
20-50	14744.59	N.A.	50.70
40-70	14641.67	N.A.	50.30
60-80	5317.94	N.A.	18.30
70-80	1462.59	N.A.	5.00
80-90	301.97	N.A.	1.00
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	29098.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	888.23
10-20	2602.02
20-30	4080.58
30-40	5121.00
40-50	5543.01
50-60	5243.32
60-70	3855.34
70-80	1462.59
80-90	301.97
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

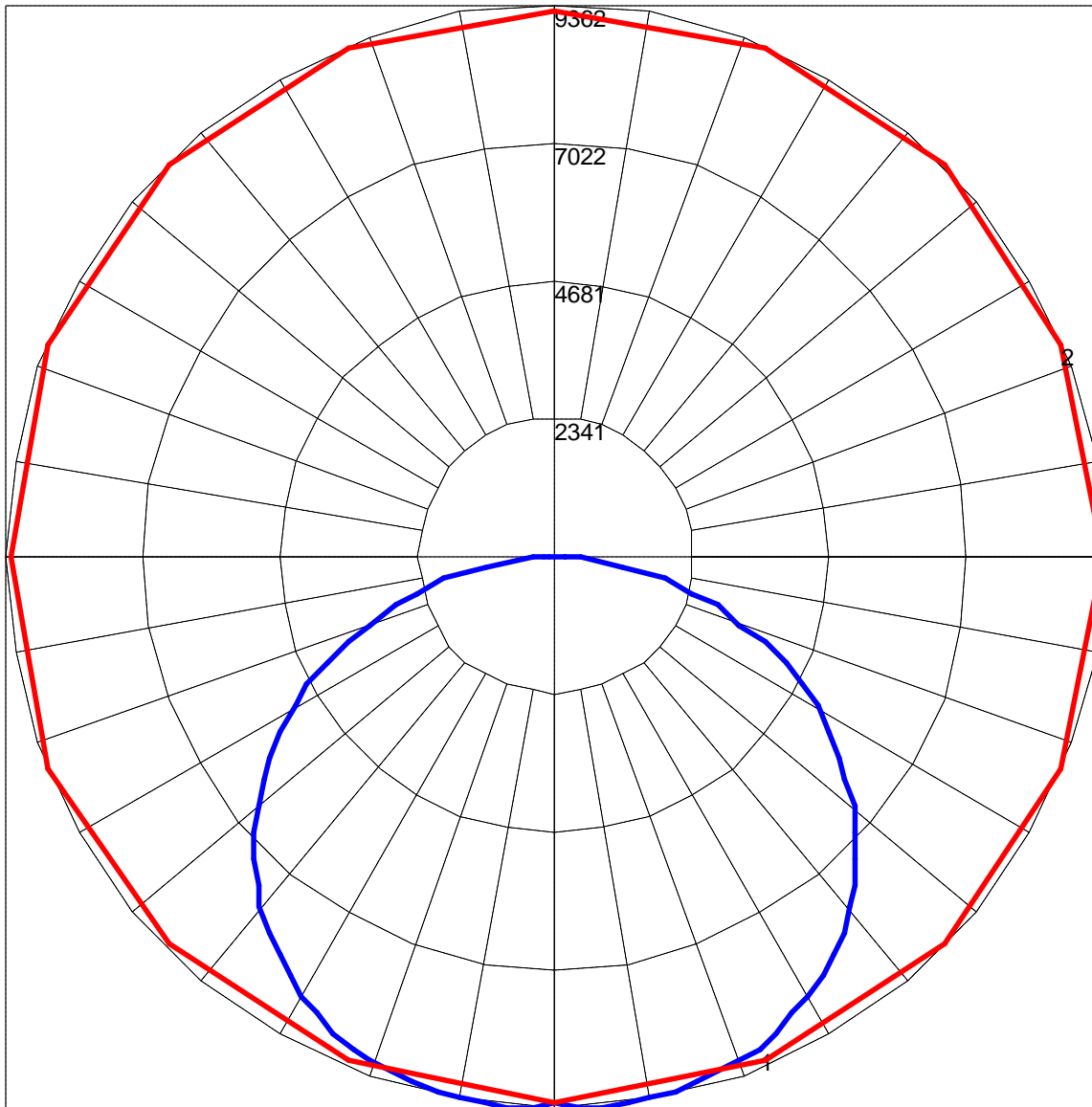
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 9362.021 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.)