



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBXD11-LED-30L-AL-40.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\_LHB11-LED-30L-AL-40  
[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	27408
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	213
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	28822	30644	26954
55	28054	26769	20342
65	25803	17415	9496
75	19643	6812	3691
85	9783	2795	1912

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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>	8830.995	8830.995	8830.995	8830.995	8830.995
<b>2.5</b>	8815.694	8898.758	8883.457	8855.040	8830.995
<b>5.0</b>	8846.297	8953.405	8977.450	8986.194	8977.450
<b>7.5</b>	8896.572	9034.283	9134.834	9189.481	9191.667
<b>10.0</b>	8955.591	9152.321	9322.821	9401.513	9419.000
<b>12.5</b>	9014.610	9276.917	9528.294	9626.659	9661.634
<b>15.0</b>	9056.142	9414.628	9744.697	9858.364	9886.780
<b>17.5</b>	9036.469	9502.064	9954.543	10063.837	10092.254
<b>20.0</b>	8966.521	9552.339	10131.600	10232.151	10186.247
<b>22.5</b>	8848.483	9545.781	10260.567	10282.426	10175.318
<b>25.0</b>	8682.355	9495.506	10293.356	10219.036	9998.261
<b>27.5</b>	8470.324	9401.513	10214.664	10011.376	9674.749
<b>30.0</b>	8236.433	9261.616	10044.164	9661.634	9250.686
<b>32.5</b>	8011.287	9099.860	9757.813	9206.969	8743.560
<b>35.0</b>	7814.557	8959.963	9384.026	8656.124	8201.459
<b>37.5</b>	7613.455	8804.765	8924.989	8087.793	7698.704
<b>40.0</b>	7399.238	8616.778	8455.022	7569.737	7281.199
<b>42.5</b>	7202.507	8382.888	7926.037	7115.072	6889.925
<b>45.0</b>	6948.944	8107.466	7388.308	6673.522	6498.651
<b>47.5</b>	6649.477	7744.608	6848.393	6227.600	6083.332
<b>50.0</b>	6295.363	7307.430	6317.222	5777.307	5571.834
<b>52.5</b>	5906.275	6800.304	5788.237	5178.373	4806.772
<b>55.0</b>	5486.584	6221.043	5235.206	4417.684	3978.320
<b>57.5</b>	5077.822	5541.231	4682.176	3595.789	3167.355
<b>60.0</b>	4664.689	4887.650	4019.852	2828.542	2485.357
<b>62.5</b>	4194.723	4262.485	3256.976	2179.332	1906.096
<b>65.0</b>	3718.199	3654.808	2509.402	1632.860	1368.367
<b>67.5</b>	3222.002	3068.990	1871.122	1149.778	924.631
<b>70.0</b>	2747.664	2480.985	1326.835	775.991	629.536
<b>72.5</b>	2247.095	1910.468	902.773	528.985	441.550
<b>75.0</b>	1733.411	1357.438	601.120	378.159	325.698
<b>77.5</b>	1263.444	883.100	404.390	268.864	233.890
<b>80.0</b>	865.612	542.101	273.236	181.429	159.570
<b>82.5</b>	520.242	323.512	161.756	111.480	100.551
<b>85.0</b>	290.723	174.871	83.064	63.391	56.833
<b>87.5</b>	131.153	72.134	37.160	30.602	32.788
<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	3595.84	N.A.	13.10
0-30	8109.99	N.A.	29.60
0-40	13579.92	N.A.	49.50
0-60	23714.82	N.A.	86.50
0-80	27246.3	N.A.	99.40
0-90	27408.02	N.A.	100.00
10-90	26542.91	N.A.	96.80
20-40	9984.08	N.A.	36.40
20-50	15543.07	N.A.	56.70
40-70	12728.89	N.A.	46.40
60-80	3531.48	N.A.	12.90
70-80	937.48	N.A.	3.40
80-90	161.72	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	27408.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	865.11
10-20	2730.73
20-30	4514.15
30-40	5469.94
40-50	5558.98
50-60	4575.91
60-70	2594.00
70-80	937.48
80-90	161.72
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

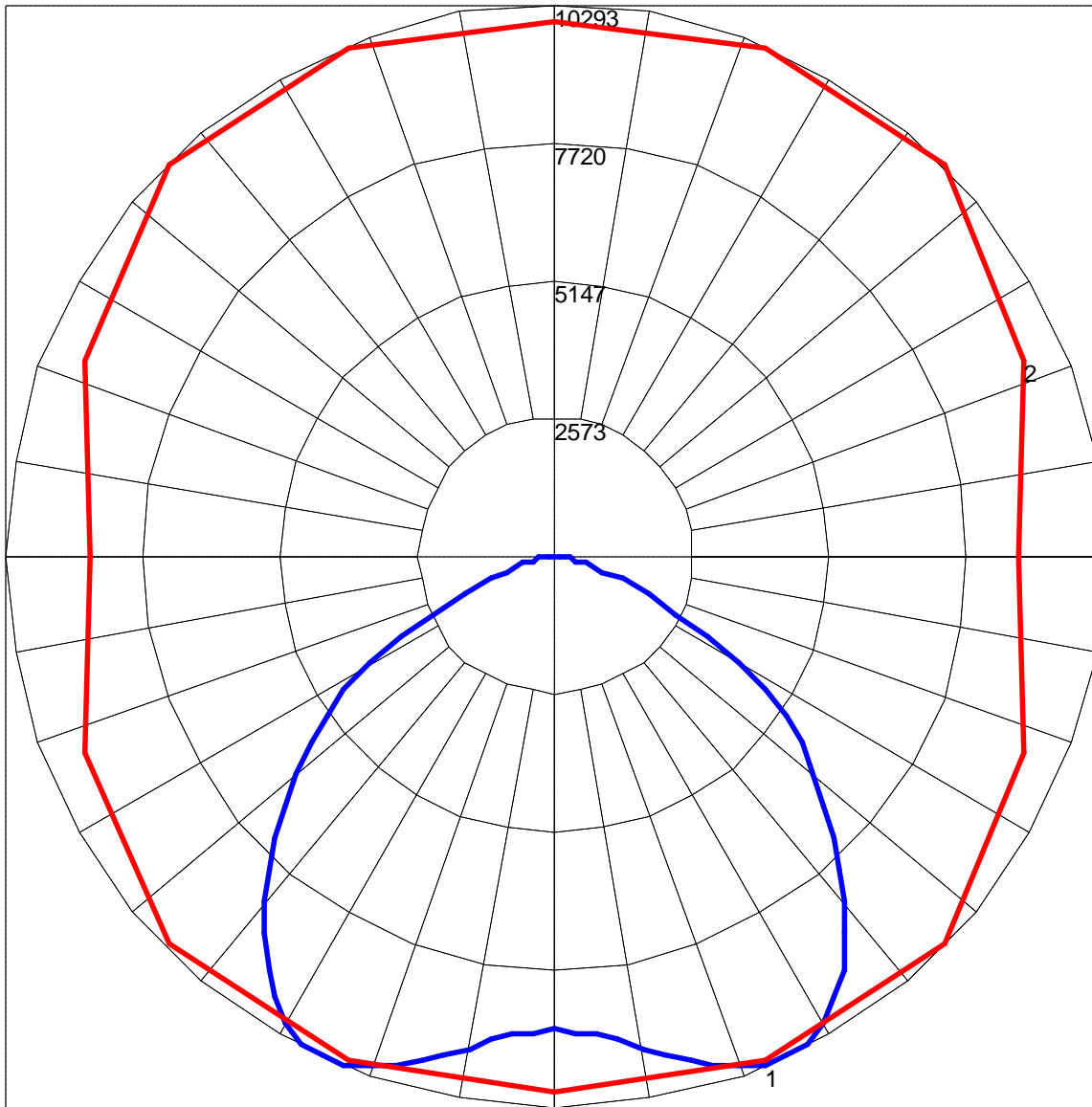
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 10293.356 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.)