



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-30L-LL-50.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-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	30599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	31340	31427	31069
55	31434	31637	31351
65	30830	31397	23033
75	27553	10613	4447
85	19728	7545	7310

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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	9770.191	9770.191	9770.191	9770.191	9770.191
2.5	9767.856	9840.262	9807.562	9765.520	9746.834
5.0	9772.527	9844.933	9809.898	9763.184	9742.163
7.5	9765.520	9842.598	9805.227	9758.513	9730.485
10.0	9744.499	9823.912	9784.206	9735.156	9704.792
12.5	9707.128	9786.541	9744.499	9693.114	9662.750
15.0	9653.407	9739.827	9695.449	9639.393	9606.693
17.5	9590.343	9674.428	9632.386	9569.322	9538.958
20.0	9499.251	9592.679	9548.301	9482.901	9452.538
22.5	9401.152	9485.237	9447.866	9377.795	9347.431
25.0	9279.696	9368.453	9326.410	9256.340	9225.976
27.5	9132.548	9225.976	9188.605	9113.862	9088.170
30.0	8973.721	9069.484	9032.113	8948.028	8920.000
32.5	8791.537	8882.629	8845.258	8761.173	8733.145
35.0	8588.332	8674.753	8639.717	8546.290	8527.604
37.5	8364.106	8448.191	8413.155	8322.064	8294.035
40.0	8114.187	8195.936	8151.558	8069.809	8046.452
42.5	7845.583	7924.996	7878.282	7794.198	7777.848
45.0	7555.957	7626.028	7576.978	7506.908	7490.558
47.5	7245.310	7308.374	7259.325	7196.261	7184.583
50.0	6899.628	6960.356	6929.992	6871.600	6857.586
52.5	6544.603	6591.317	6558.618	6511.904	6511.904
55.0	6147.536	6215.271	6187.243	6147.536	6131.186
57.5	5752.805	5822.875	5801.854	5766.819	5748.133
60.0	5337.052	5409.458	5395.444	5351.066	5255.303
62.5	4897.942	4972.684	4970.348	4708.751	4199.571
65.0	4442.482	4521.896	4524.232	3718.419	3319.016
67.5	3966.002	4043.079	4033.737	2777.135	2111.464
70.0	3459.157	3526.892	3066.761	1490.170	1023.032
72.5	2935.962	3022.383	2148.835	789.463	453.124
75.0	2431.453	2522.545	936.612	376.046	392.396
77.5	1917.602	2018.036	387.725	369.039	380.717
80.0	1441.121	1223.902	301.304	343.346	357.361
82.5	990.333	425.096	280.283	301.304	303.640
85.0	586.258	196.198	224.226	221.891	217.219
87.5	261.597	140.141	126.127	126.127	128.463
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	3670.28	N.A.	12.00
0-30	7961.34	N.A.	26.00
0-40	13346.49	N.A.	43.60
0-60	24689.2	N.A.	80.70
0-80	30281.45	N.A.	99.00
0-90	30599.00	N.A.	100.00
10-90	29664.95	N.A.	96.90
20-40	9676.21	N.A.	31.60
20-50	15505.14	N.A.	50.70
40-70	15396.92	N.A.	50.30
60-80	5592.25	N.A.	18.30
70-80	1538.04	N.A.	5.00
80-90	317.55	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	30599.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	934.05
10-20	2736.23
20-30	4291.07
30-40	5385.15
40-50	5828.93
50-60	5513.78
60-70	4054.21
70-80	1538.04
80-90	317.55
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

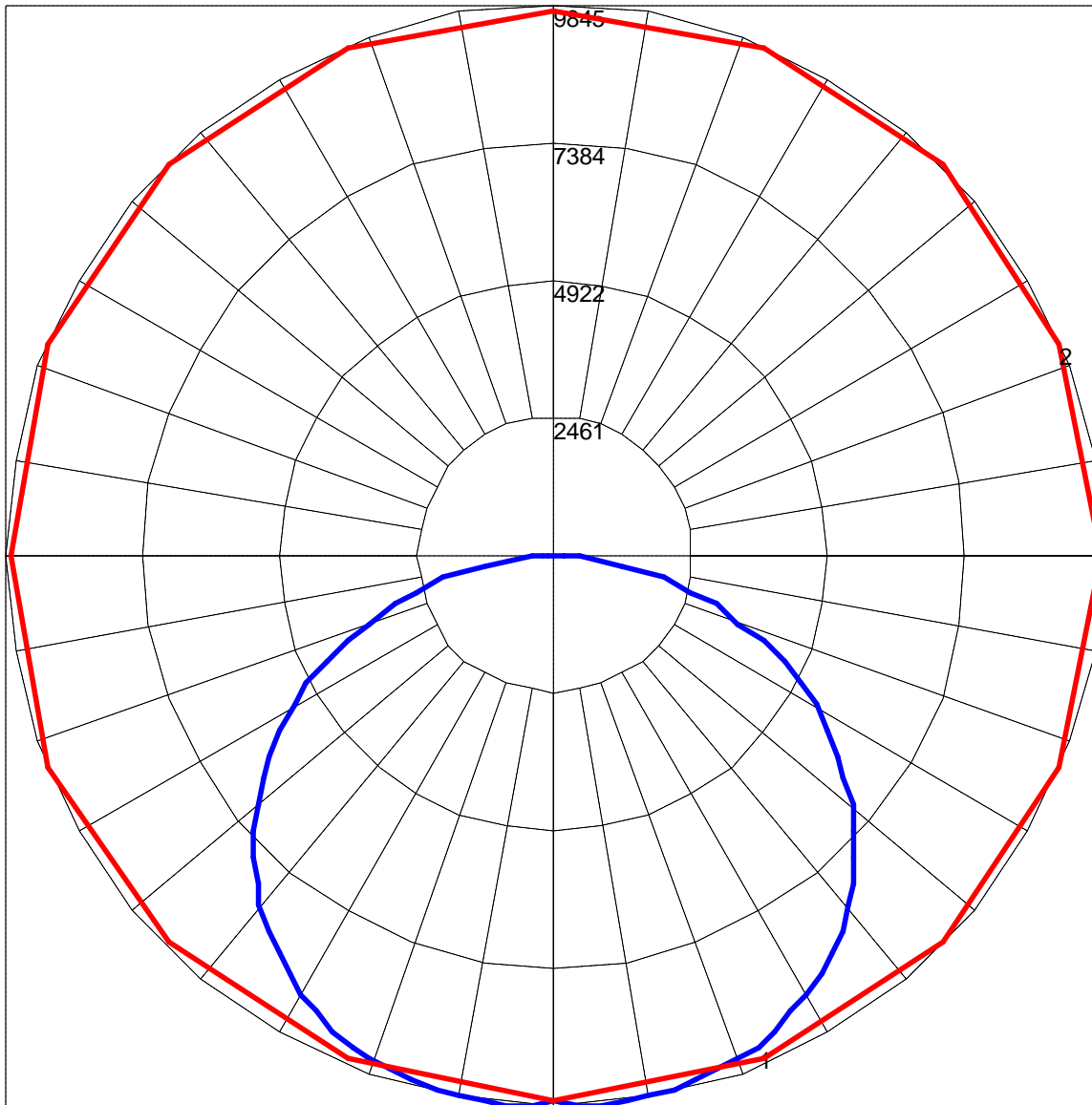
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 9844.933 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.)