



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-24L-S-35.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-24L-S-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	21027
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	152
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	22039	22039	21780
55	21402	21456	21092
65	19501	18996	14716
75	14115	9463	5752
85	7287	4314	3906

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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	6967.994	6967.994	6967.994	6967.994	6967.994
2.5	6945.472	7023.434	6999.179	6971.459	6961.065
5.0	6957.600	7026.898	6995.714	6964.530	6952.402
7.5	6955.867	7019.969	6985.319	6947.205	6938.542
10.0	6947.205	7004.376	6971.459	6933.345	6929.880
12.5	6928.148	6978.389	6948.937	6916.020	6907.358
15.0	6893.498	6942.007	6914.288	6881.371	6869.244
17.5	6850.187	6893.498	6876.174	6829.397	6822.467
20.0	6787.818	6831.129	6820.735	6765.295	6747.971
22.5	6715.054	6756.633	6744.506	6687.334	6675.207
25.0	6633.628	6670.010	6652.685	6593.781	6583.386
27.5	6527.947	6569.526	6540.074	6488.100	6477.705
30.0	6413.604	6453.451	6423.999	6368.560	6347.770
32.5	6275.006	6318.318	6290.599	6226.497	6207.440
35.0	6120.817	6162.396	6136.409	6065.378	6051.518
37.5	5942.372	5985.684	5963.162	5893.863	5878.271
40.0	5750.068	5788.182	5762.195	5703.291	5699.826
42.5	5542.172	5578.554	5543.904	5502.325	5491.930
45.0	5313.486	5346.403	5313.486	5271.906	5251.117
47.5	5055.348	5091.729	5070.940	5013.768	5003.373
50.0	4786.815	4823.197	4800.674	4741.770	4740.038
52.5	4487.097	4535.607	4507.887	4452.448	4448.983
55.0	4185.648	4232.424	4196.042	4140.603	4125.011
57.5	3858.211	3908.452	3868.606	3795.842	3761.192
60.0	3525.577	3565.423	3522.112	3393.909	3293.426
62.5	3166.955	3215.464	3153.095	2926.142	2721.710
65.0	2810.066	2839.518	2737.303	2340.567	2120.543
67.5	2408.133	2428.923	2274.733	1775.782	1536.701
70.0	2020.060	2016.595	1754.992	1245.646	1053.342
72.5	1612.930	1619.859	1250.843	845.445	729.370
75.0	1245.646	1236.984	835.051	576.913	507.614
77.5	904.349	880.095	549.193	400.201	369.016
80.0	615.027	564.785	351.691	277.195	265.068
82.5	381.143	325.704	220.024	185.374	178.444
85.0	216.559	174.979	128.203	117.808	116.075
87.5	105.681	77.961	65.834	62.369	64.101
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	2618.24	N.A.	12.50
0-30	5676.98	N.A.	27.00
0-40	9500.22	N.A.	45.20
0-60	17307.88	N.A.	82.30
0-80	20843.34	N.A.	99.10
0-90	21027.36	N.A.	100.00
10-90	20361.46	N.A.	96.80
20-40	6881.97	N.A.	32.70
20-50	10967.42	N.A.	52.20
40-70	10357.89	N.A.	49.30
60-80	3535.46	N.A.	16.80
70-80	985.24	N.A.	4.70
80-90	184.01	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	21027.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	665.90
10-20	1952.34
20-30	3058.74
30-40	3823.24
40-50	4085.45
50-60	3722.22
60-70	2550.22
70-80	985.24
80-90	184.01
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

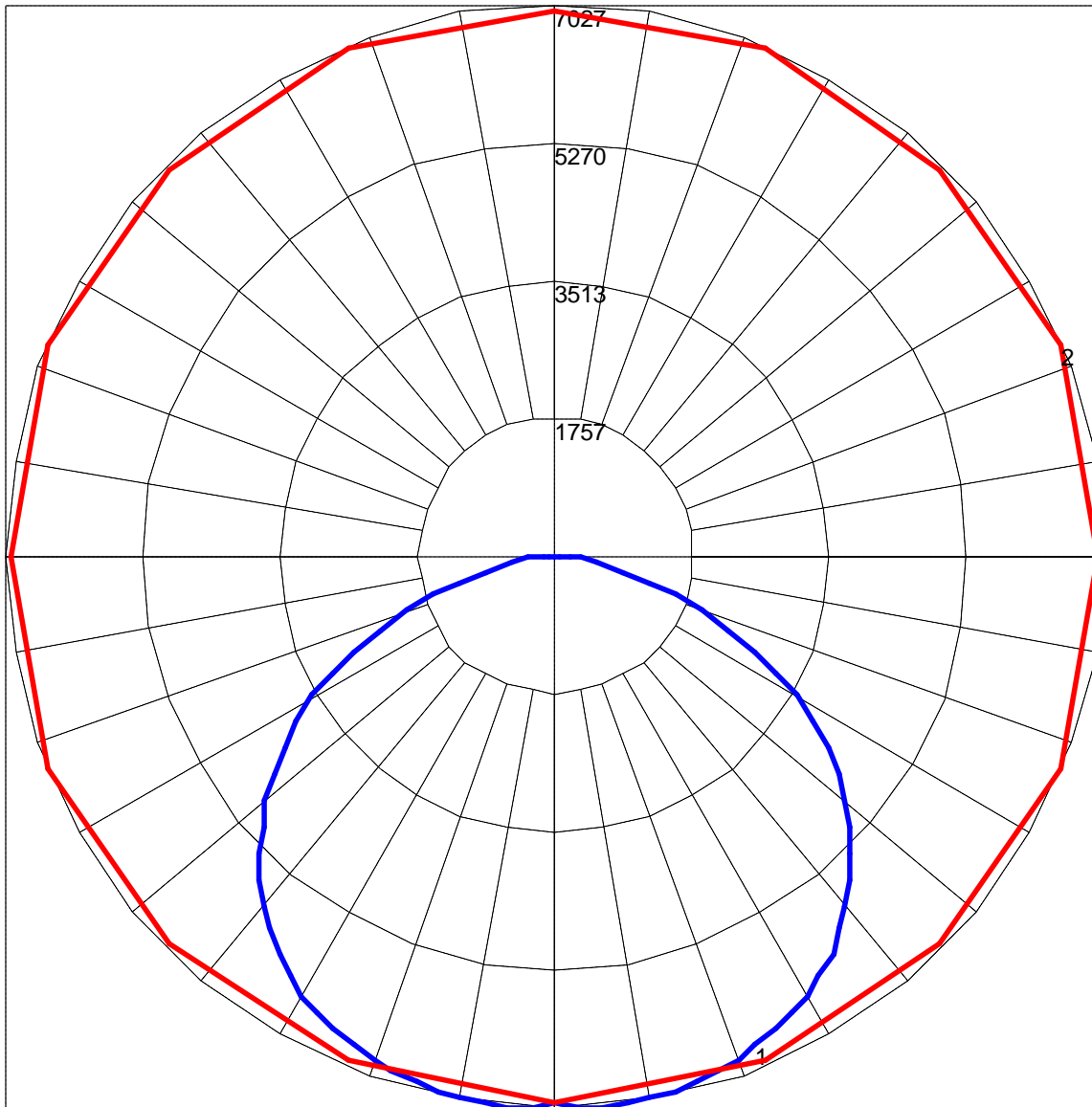
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 7026.898 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.)