



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-12L-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-12L-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	12333
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	89
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	12926	12926	12775
55	12553	12584	12371
65	11438	11142	8631
75	8279	5550	3374
85	4274	2530	2291

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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	4086.955	4086.955	4086.955	4086.955	4086.955
2.5	4073.745	4119.472	4105.246	4088.988	4082.891
5.0	4080.858	4121.504	4103.214	4084.923	4077.810
7.5	4079.842	4117.440	4097.117	4074.761	4069.681
10.0	4074.761	4108.294	4088.988	4066.632	4064.600
12.5	4063.584	4093.052	4075.778	4056.471	4051.390
15.0	4043.261	4071.713	4055.455	4036.148	4029.035
17.5	4017.857	4043.261	4033.099	4005.663	4001.599
20.0	3981.276	4006.679	4000.583	3968.066	3957.904
22.5	3938.597	3962.985	3955.872	3922.339	3915.226
25.0	3890.838	3912.177	3902.016	3867.467	3861.370
27.5	3828.853	3853.241	3835.966	3805.482	3799.385
30.0	3761.787	3785.159	3767.884	3735.367	3723.174
32.5	3680.495	3705.899	3689.641	3652.043	3640.865
35.0	3590.058	3614.446	3599.203	3557.541	3549.412
37.5	3485.394	3510.798	3497.588	3456.942	3447.797
40.0	3372.602	3394.957	3379.715	3345.166	3343.133
42.5	3250.664	3272.003	3251.680	3227.292	3221.195
45.0	3116.532	3135.839	3116.532	3092.144	3079.951
47.5	2965.126	2986.465	2974.271	2940.738	2934.641
50.0	2807.622	2828.962	2815.752	2781.203	2780.186
52.5	2631.828	2660.281	2644.022	2611.505	2609.473
55.0	2455.018	2482.454	2461.115	2428.598	2419.453
57.5	2262.966	2292.434	2269.063	2226.385	2206.062
60.0	2067.865	2091.237	2065.833	1990.638	1931.701
62.5	1857.522	1885.974	1849.393	1716.277	1596.372
65.0	1648.195	1665.470	1605.517	1372.819	1243.768
67.5	1412.448	1424.642	1334.205	1041.554	901.325
70.0	1184.831	1182.799	1029.360	730.612	617.819
72.5	946.036	950.100	733.660	495.881	427.799
75.0	730.612	725.531	489.784	338.378	297.732
77.5	530.430	516.204	322.120	234.731	216.440
80.0	360.733	331.265	206.278	162.584	155.471
82.5	223.553	191.036	129.051	108.728	104.663
85.0	127.019	102.631	75.195	69.098	68.082
87.5	61.985	45.727	38.614	36.581	37.598
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	1535.68	N.A.	12.50
0-30	3329.73	N.A.	27.00
0-40	5572.19	N.A.	45.20
0-60	10151.64	N.A.	82.30
0-80	12225.3	N.A.	99.10
0-90	12333.23	N.A.	100.00
10-90	11942.66	N.A.	96.80
20-40	4036.5	N.A.	32.70
20-50	6432.75	N.A.	52.20
40-70	6075.24	N.A.	49.30
60-80	2073.66	N.A.	16.80
70-80	577.87	N.A.	4.70
80-90	107.93	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	12333.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	390.57
10-20	1145.11
20-30	1794.05
30-40	2242.45
40-50	2396.25
50-60	2183.2
60-70	1495.79
70-80	577.87
80-90	107.93
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

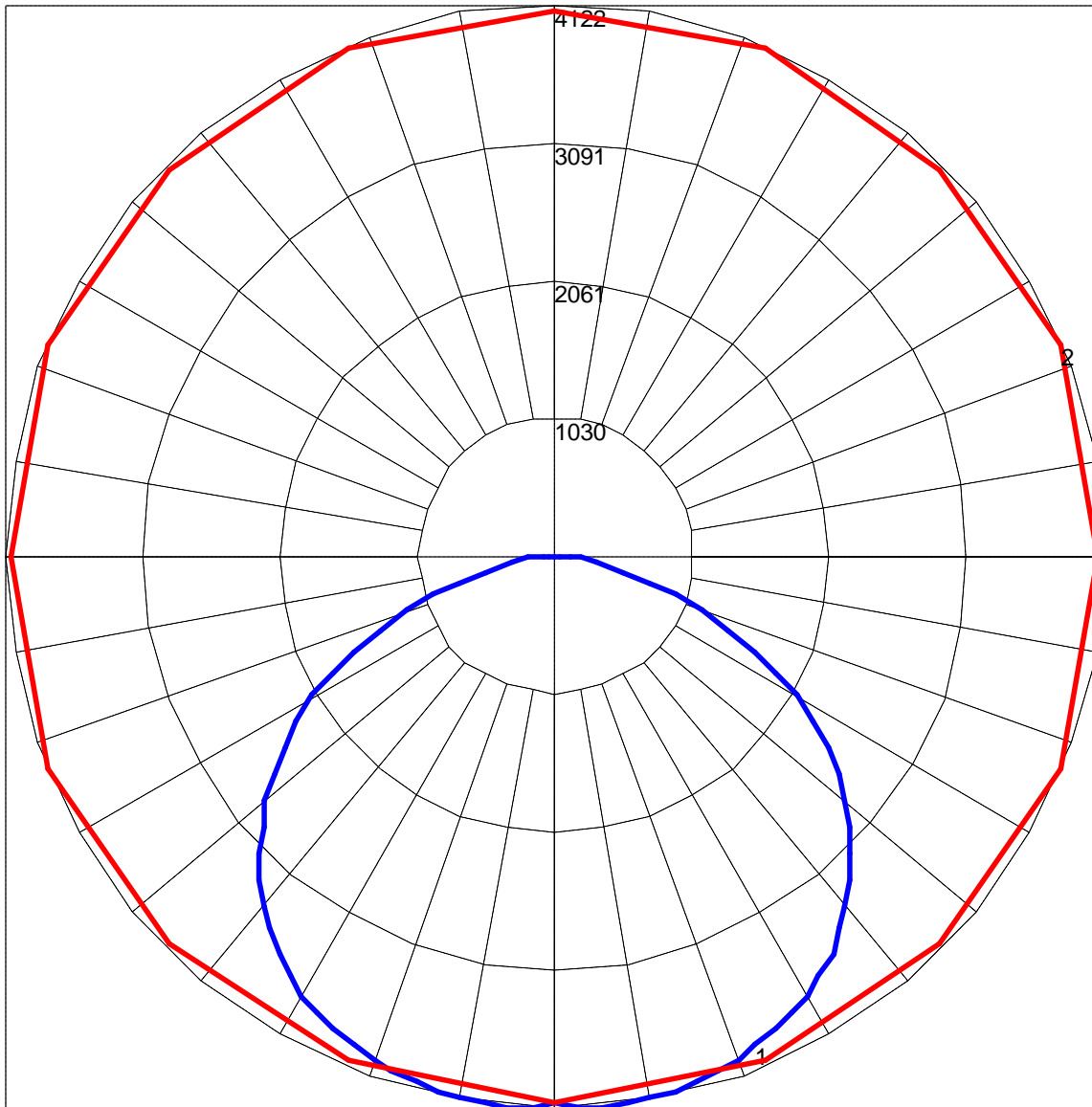
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4121.504 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.)