



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-12L-LL-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8606R
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/23/17
[TEST DATE]02/23/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB11-LED-12L-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	13101
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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)	1.50
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	13418	13455	13302
55	13458	13545	13422
65	13199	13442	9861
75	11796	4544	1904
85	8446	3230	3130

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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	4183	4183	4183	4183	4183
2.5	4182	4213	4199	4181	4173
5.0	4184	4215	4200	4180	4171
7.5	4181	4214	4198	4178	4166
10.0	4172	4206	4189	4168	4155
12.5	4156	4190	4172	4150	4137
15.0	4133	4170	4151	4127	4113
17.5	4106	4142	4124	4097	4084
20.0	4067	4107	4088	4060	4047
22.5	4025	4061	4045	4015	4002
25.0	3973	4011	3993	3963	3950
27.5	3910	3950	3934	3902	3891
30.0	3842	3883	3867	3831	3819
32.5	3764	3803	3787	3751	3739
35.0	3677	3714	3699	3659	3651
37.5	3581	3617	3602	3563	3551
40.0	3474	3509	3490	3455	3445
42.5	3359	3393	3373	3337	3330
45.0	3235	3265	3244	3214	3207
47.5	3102	3129	3108	3081	3076
50.0	2954	2980	2967	2942	2936
52.5	2802	2822	2808	2788	2788
55.0	2632	2661	2649	2632	2625
57.5	2463	2493	2484	2469	2461
60.0	2285	2316	2310	2291	2250
62.5	2097	2129	2128	2016	1798
65.0	1902	1936	1937	1592	1421
67.5	1698	1731	1727	1189	904
70.0	1481	1510	1313	638	438
72.5	1257	1294	920	338	194
75.0	1041	1080	401	161	168
77.5	821	864	166	158	163
80.0	617	524	129	147	153
82.5	424	182	120	129	130
85.0	251	84	96	95	93
87.5	112	60	54	54	55
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1571.39	N.A.	12.00
0-30	3408.56	N.A.	26.00
0-40	5714.15	N.A.	43.60
0-60	10570.41	N.A.	80.70
0-80	12964.67	N.A.	99.00
0-90	13100.62	N.A.	100.00
10-90	12700.72	N.A.	96.90
20-40	4142.76	N.A.	31.60
20-50	6638.36	N.A.	50.70
40-70	6592.02	N.A.	50.30
60-80	2394.26	N.A.	18.30
70-80	658.49	N.A.	5.00
80-90	135.95	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	13100.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	399.90
10-20	1171.49
20-30	1837.17
30-40	2305.59
40-50	2495.59
50-60	2360.66
60-70	1735.76
70-80	658.49
80-90	135.95
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

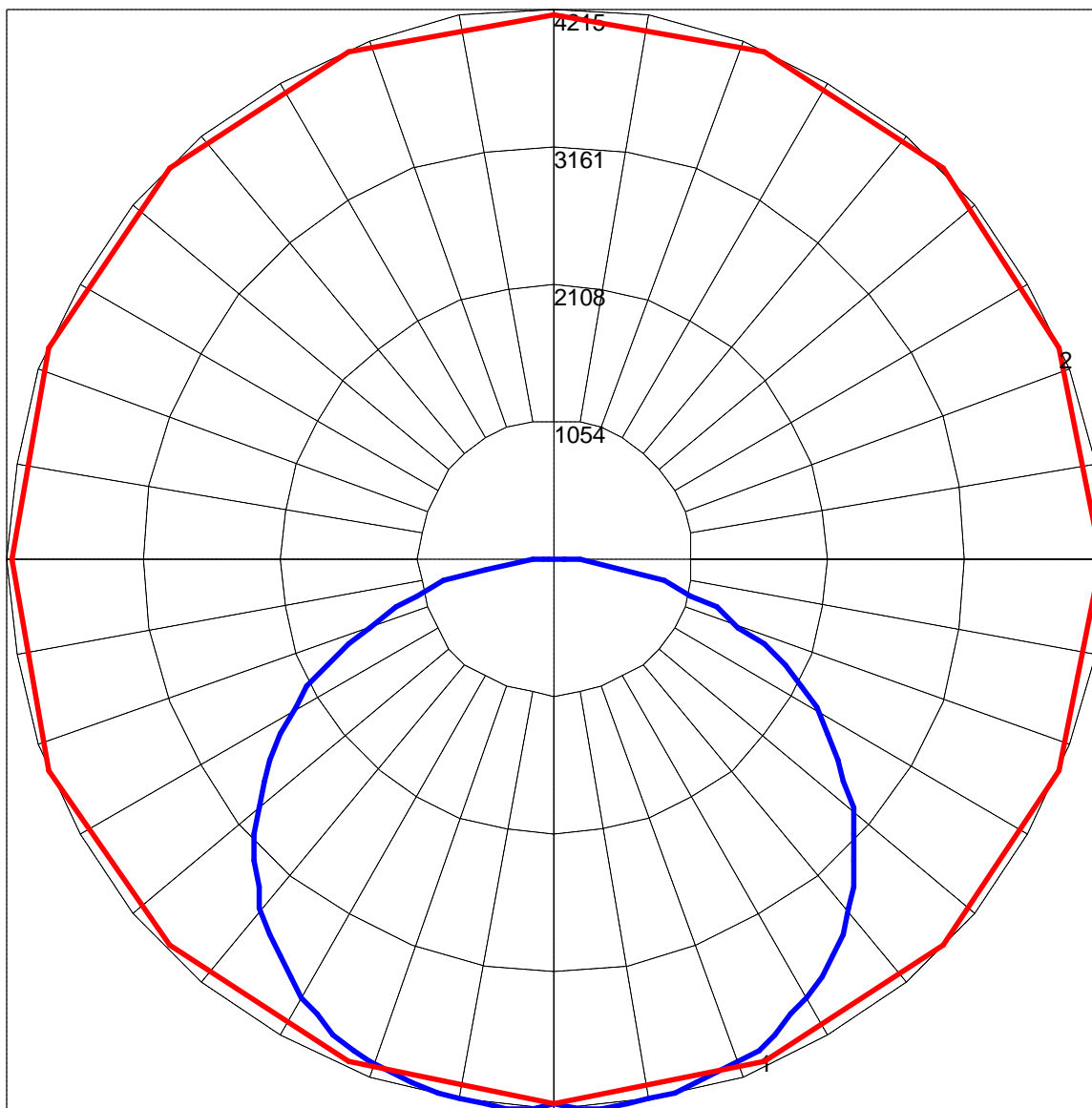
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4215 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.)