



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8609R
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]02/24/17
[TEST DATE]02/23/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB11-LED-12L-AL-35
[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	12539
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	89
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	13186	14019	12331
55	12834	12246	9306
65	11805	7967	4344
75	8986	3116	1688
85	4476	1279	875

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

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	4040	4040	4040	4040	4040
2.5	4033	4071	4064	4051	4040
5.0	4047	4096	4107	4111	4107
7.5	4070	4133	4179	4204	4205
10.0	4097	4187	4265	4301	4309
12.5	4124	4244	4359	4404	4420
15.0	4143	4307	4458	4510	4523
17.5	4134	4347	4554	4604	4617
20.0	4102	4370	4635	4681	4660
22.5	4048	4367	4694	4704	4655
25.0	3972	4344	4709	4675	4574
27.5	3875	4301	4673	4580	4426
30.0	3768	4237	4595	4420	4232
32.5	3665	4163	4464	4212	4000
35.0	3575	4099	4293	3960	3752
37.5	3483	4028	4083	3700	3522
40.0	3385	3942	3868	3463	3331
42.5	3295	3835	3626	3255	3152
45.0	3179	3709	3380	3053	2973
47.5	3042	3543	3133	2849	2783
50.0	2880	3343	2890	2643	2549
52.5	2702	3111	2648	2369	2199
55.0	2510	2846	2395	2021	1820
57.5	2323	2535	2142	1645	1449
60.0	2134	2236	1839	1294	1137
62.5	1919	1950	1490	997	872
65.0	1701	1672	1148	747	626
67.5	1474	1404	856	526	423
70.0	1257	1135	607	355	288
72.5	1028	874	413	242	202
75.0	793	621	275	173	149
77.5	578	404	185	123	107
80.0	396	248	125	83	73
82.5	238	148	74	51	46
85.0	133	80	38	29	26
87.5	60	33	17	14	15
90.0	0	0	0	0	0

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1645.02	N.A.	13.10
0-30	3710.15	N.A.	29.60
0-40	6212.54	N.A.	49.50
0-60	10849.04	N.A.	86.50
0-80	12464.63	N.A.	99.40
0-90	12538.61	N.A.	100.00
10-90	12142.84	N.A.	96.80
20-40	4567.51	N.A.	36.40
20-50	7110.64	N.A.	56.70
40-70	5823.21	N.A.	46.40
60-80	1615.58	N.A.	12.90
70-80	428.88	N.A.	3.40
80-90	73.99	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	12538.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	395.77
10-20	1249.25
20-30	2065.13
30-40	2502.38
40-50	2543.12
50-60	2093.39
60-70	1186.7
70-80	428.88
80-90	73.99
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

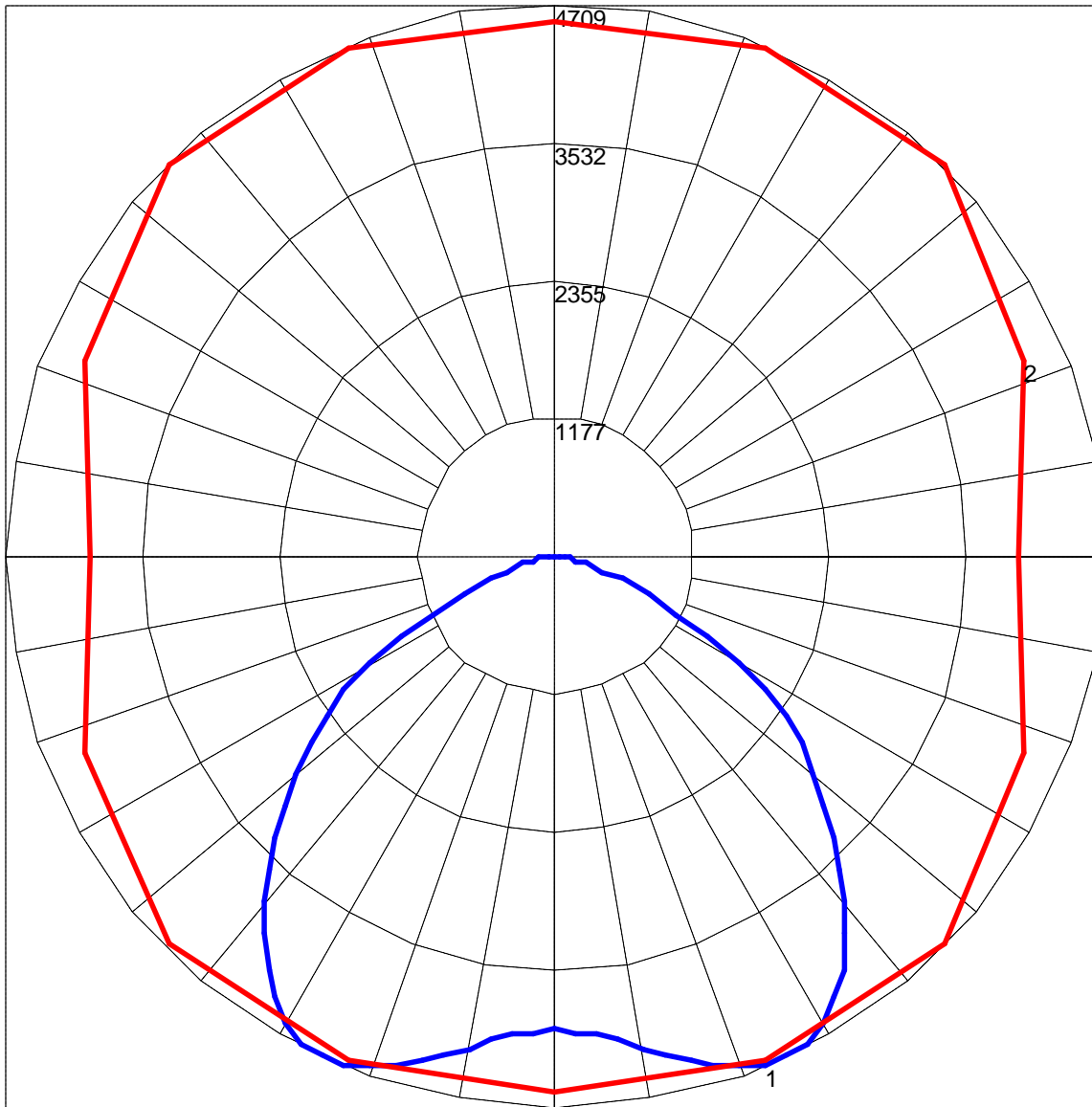
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-12L-AL-35.IES

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 = 4709 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.)