



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-18L-AL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8609R_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]05/02/17
[TEST DATE]02/23/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB11-LED-18L-AL-50
[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	18712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	131
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	19678	20922	18403
55	19154	18276	13888
65	17617	11890	6483
75	13411	4651	2520
85	6679	1908	1306

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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	6029.215	6029.215	6029.215	6029.215	6029.215
2.5	6018.769	6075.479	6065.032	6045.631	6029.215
5.0	6039.662	6112.789	6129.205	6135.174	6129.205
7.5	6073.987	6168.007	6236.656	6273.966	6275.458
10.0	6114.281	6248.595	6365.001	6418.726	6430.666
12.5	6154.575	6333.661	6505.285	6572.442	6596.320
15.0	6182.930	6427.681	6653.030	6730.634	6750.035
17.5	6169.499	6487.376	6796.299	6870.918	6890.319
20.0	6121.743	6521.701	6917.181	6985.831	6954.491
22.5	6041.154	6517.224	7005.232	7020.156	6947.029
25.0	5927.733	6482.899	7027.618	6976.877	6826.146
27.5	5782.973	6418.726	6973.892	6835.101	6605.274
30.0	5623.288	6323.214	6857.486	6596.320	6315.752
32.5	5469.573	6212.778	6661.984	6285.905	5969.520
35.0	5335.259	6117.266	6406.787	5909.825	5599.410
37.5	5197.960	6011.307	6093.388	5521.806	5256.162
40.0	5051.706	5882.962	5772.526	5168.112	4971.118
42.5	4917.392	5723.277	5411.370	4857.697	4703.982
45.0	4744.276	5535.238	5044.244	4556.236	4436.846
47.5	4539.820	5287.502	4675.627	4251.791	4153.294
50.0	4298.054	4989.026	4312.978	3944.360	3804.077
52.5	4032.411	4642.794	3951.822	3535.448	3281.744
55.0	3745.874	4247.314	3574.250	3016.100	2716.132
57.5	3466.799	3783.183	3196.678	2454.965	2162.459
60.0	3184.739	3336.962	2744.487	1931.140	1696.836
62.5	2863.877	2910.141	2223.646	1487.903	1301.355
65.0	2538.538	2495.259	1713.252	1114.808	934.230
67.5	2199.768	2095.302	1277.477	784.992	631.277
70.0	1875.922	1693.851	905.875	529.795	429.805
72.5	1534.167	1304.340	616.353	361.156	301.461
75.0	1183.457	926.768	410.405	258.182	222.365
77.5	862.596	602.922	276.090	183.563	159.685
80.0	590.982	370.110	186.548	123.868	108.944
82.5	355.186	220.872	110.436	76.111	68.649
85.0	198.487	119.390	56.710	43.279	38.802
87.5	89.543	49.249	25.370	20.893	22.386
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	2455.00	N.A.	13.10
0-30	5536.96	N.A.	29.60
0-40	9271.47	N.A.	49.50
0-60	16190.9	N.A.	86.50
0-80	18601.96	N.A.	99.40
0-90	18712.37	N.A.	100.00
10-90	18121.73	N.A.	96.80
20-40	6816.47	N.A.	36.40
20-50	10611.77	N.A.	56.70
40-70	8690.44	N.A.	46.40
60-80	2411.06	N.A.	12.90
70-80	640.05	N.A.	3.40
80-90	110.41	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	18712.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	590.64
10-20	1864.36
20-30	3081.96
30-40	3734.51
40-50	3795.3
50-60	3124.13
60-70	1771.01
70-80	640.05
80-90	110.41
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

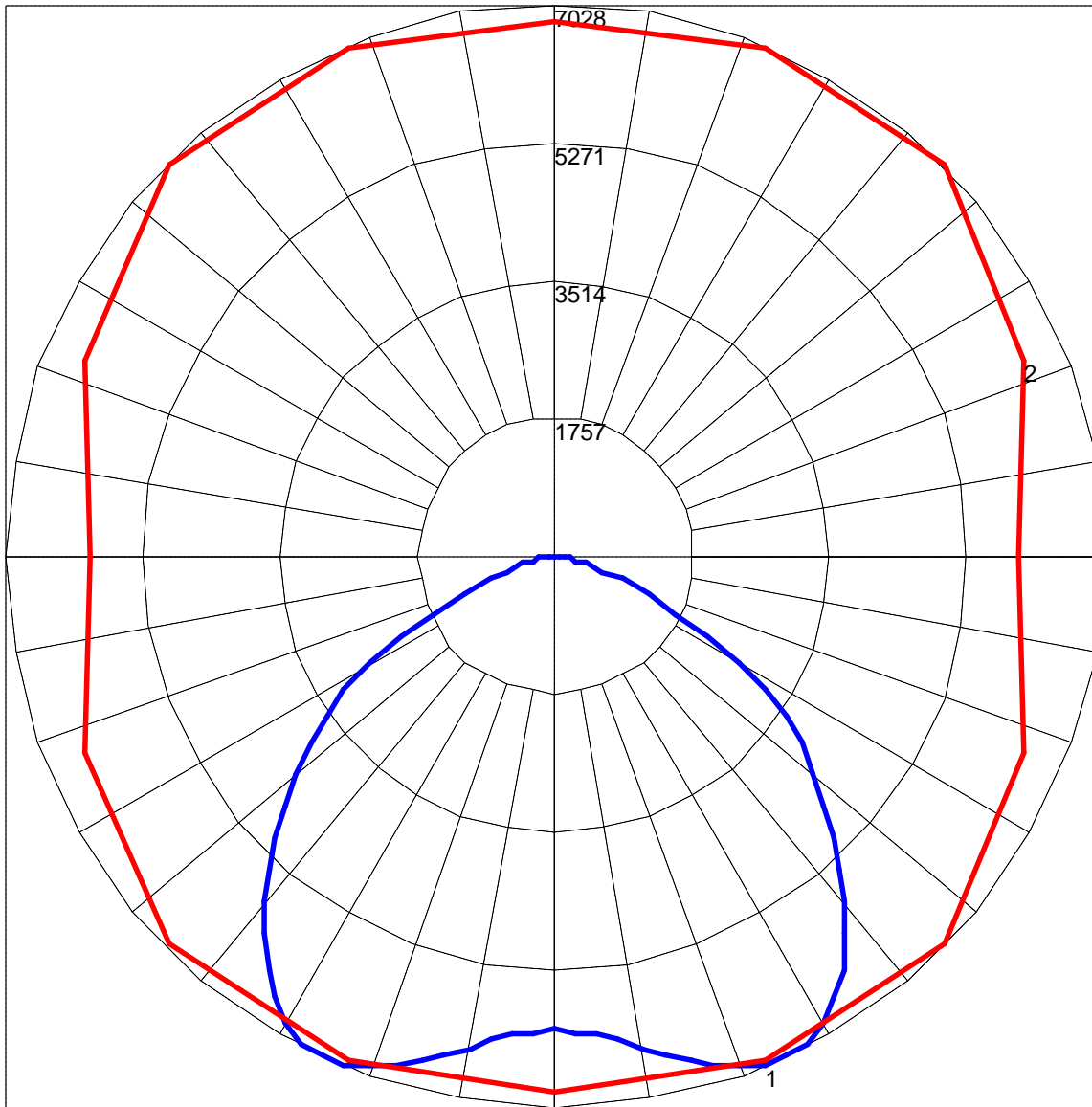
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 7027.618 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.)