



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-30L-AL-35.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-30L-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	27850
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	213
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	29287	31139	27389
55	28507	27201	20670
65	26219	17695	9649
75	19959	6922	3750
85	9941	2840	1943

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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	8973.405	8973.405	8973.405	8973.405	8973.405
2.5	8957.857	9042.261	9026.713	8997.838	8973.405
5.0	8988.953	9097.789	9122.222	9131.106	9122.222
7.5	9040.039	9179.971	9282.144	9337.672	9339.893
10.0	9100.010	9299.913	9473.162	9553.123	9570.892
12.5	9159.981	9426.518	9681.949	9781.900	9817.438
15.0	9202.183	9566.450	9901.842	10017.341	10046.216
17.5	9182.192	9655.295	10115.071	10226.128	10255.003
20.0	9111.116	9706.381	10294.983	10397.156	10350.512
22.5	8991.174	9699.718	10426.031	10448.242	10339.406
25.0	8822.368	9648.632	10459.348	10383.829	10159.494
27.5	8606.917	9553.123	10379.387	10172.821	9830.765
30.0	8369.255	9410.970	10206.138	9817.438	9399.864
32.5	8140.478	9246.605	9915.169	9355.441	8884.560
35.0	7940.575	9104.452	9535.354	8795.714	8333.717
37.5	7736.230	8946.752	9068.914	8218.218	7822.855
40.0	7518.559	8755.734	8591.369	7691.808	7398.617
42.5	7318.656	8518.072	8053.853	7229.810	7001.033
45.0	7061.004	8238.208	7507.453	6781.140	6603.449
47.5	6756.708	7869.499	6958.831	6328.028	6181.432
50.0	6396.883	7425.271	6419.094	5870.473	5661.686
52.5	6001.520	6909.966	5881.578	5261.880	4884.287
55.0	5575.061	6321.364	5319.630	4488.924	4042.475
57.5	5159.708	5630.590	4757.682	3653.775	3218.432
60.0	4739.913	4966.469	4084.676	2874.155	2525.436
62.5	4262.367	4331.223	3309.498	2214.476	1936.834
65.0	3778.159	3713.746	2549.869	1659.192	1390.434
67.5	3273.960	3118.480	1901.296	1168.320	939.542
70.0	2791.973	2520.994	1348.232	788.505	639.688
72.5	2283.332	1941.276	917.331	537.516	448.670
75.0	1761.364	1379.328	610.813	384.257	330.950
77.5	1283.819	897.341	410.911	273.200	237.662
80.0	879.571	550.843	277.642	184.355	162.143
82.5	528.631	328.729	164.364	113.278	102.172
85.0	295.412	177.691	84.403	64.413	57.750
87.5	133.268	73.298	37.759	31.096	33.317
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	3653.83	N.A.	13.10
0-30	8240.77	N.A.	29.60
0-40	13798.92	N.A.	49.50
0-60	24097.24	N.A.	86.50
0-80	27685.68	N.A.	99.40
0-90	27850.00	N.A.	100.00
10-90	26970.95	N.A.	96.80
20-40	10145.09	N.A.	36.40
20-50	15793.72	N.A.	56.70
40-70	12934.16	N.A.	46.40
60-80	3588.43	N.A.	12.90
70-80	952.60	N.A.	3.40
80-90	164.33	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	27850.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	879.06
10-20	2774.77
20-30	4586.94
30-40	5558.15
40-50	5648.63
50-60	4649.7
60-70	2635.83
70-80	952.60
80-90	164.33
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

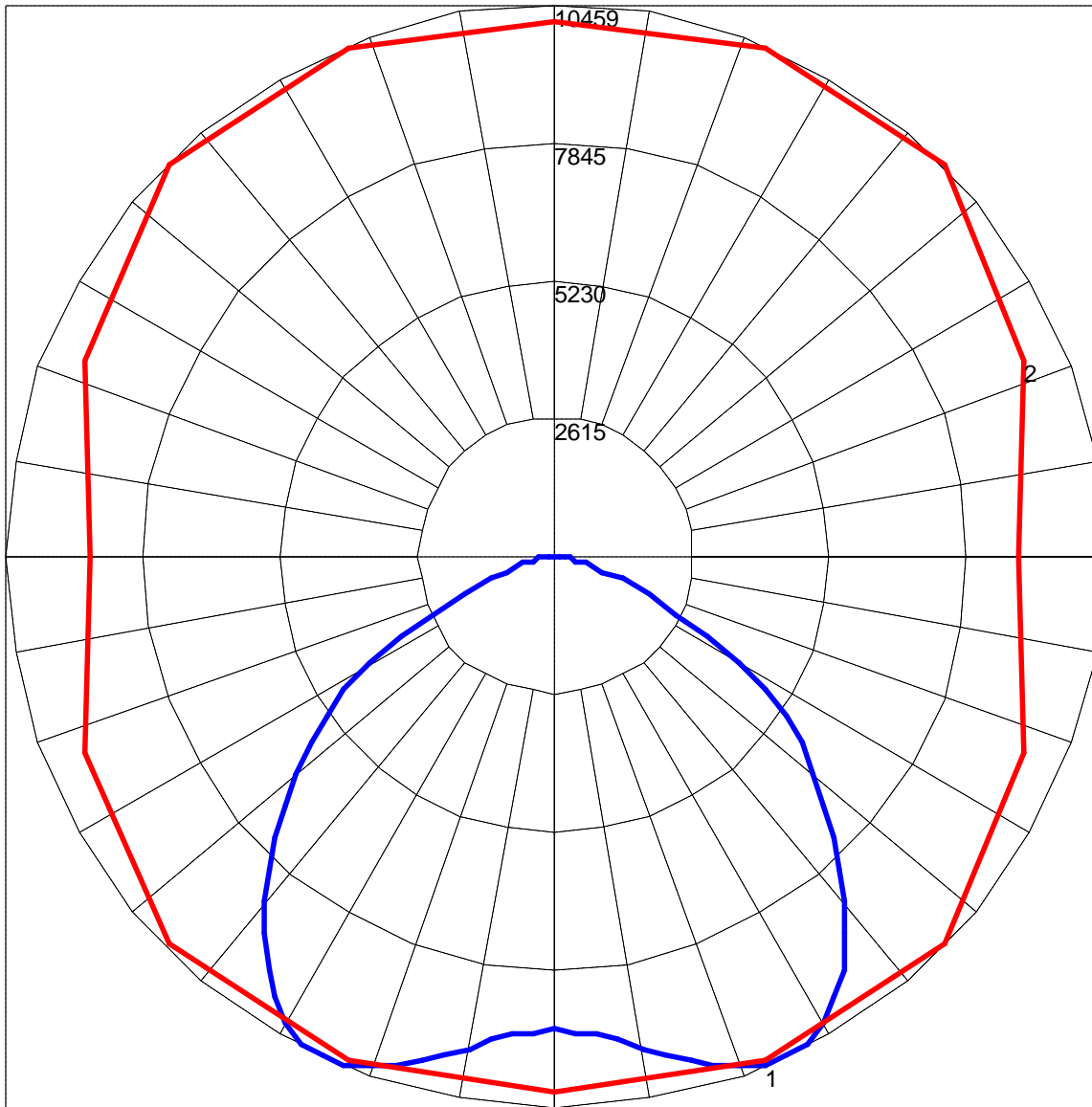
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 10459.348 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.)