



IES INDOOR REPORT

PHOTOMETRIC FILENAME : IHB2-LED-12L-DA-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-10989
[TESTLAB] LSI INDUSTRIES INC.
[ISSUEDATE] 04/19/21
[TESTDATE] 04/16/19
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] IHB2-LED-12L-DA-50
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE:IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11580
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	82.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.60 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33420	32976	32875
55	30232	30529	31014
65	25891	27821	28987
75	21294	25795	28081
85	15937	30847	38661

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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	3884	3884	3884	3884	3884
2.5	3935	3921	3885	3862	3860
5.0	3935	3921	3885	3861	3859
7.5	3928	3913	3877	3852	3850
10.0	3914	3899	3862	3836	3834
12.5	3893	3877	3838	3812	3810
15.0	3864	3847	3807	3779	3775
17.5	3827	3809	3768	3736	3732
20.0	3782	3761	3718	3683	3677
22.5	3726	3704	3658	3619	3614
25.0	3657	3635	3585	3546	3540
27.5	3577	3553	3500	3462	3456
30.0	3481	3455	3405	3367	3360
32.5	3366	3346	3297	3260	3254
35.0	3244	3220	3177	3144	3139
37.5	3108	3082	3047	3018	3014
40.0	2963	2935	2904	2885	2882
42.5	2800	2783	2758	2742	2744
45.0	2637	2622	2602	2594	2594
47.5	2468	2457	2447	2442	2441
50.0	2293	2286	2286	2286	2291
52.5	2115	2114	2121	2133	2139
55.0	1935	1935	1954	1978	1985
57.5	1755	1762	1792	1823	1831
60.0	1570	1587	1632	1668	1676
62.5	1397	1413	1470	1512	1524
65.0	1221	1250	1312	1362	1367
67.5	1059	1094	1163	1212	1222
70.0	903	943	1018	1066	1073
72.5	755	799	880	927	939
75.0	615	663	745	798	811
77.5	478	532	619	678	691
80.0	354	408	502	565	579
82.5	248	303	396	459	476
85.0	155	211	300	363	376
87.5	72	130	216	276	286
90.0	15	75	148	196	206
92.5	3	46	112	158	170
95.0	3	39	101	144	157
97.5	3	35	92	134	146
100.0	4	32	85	125	136
102.5	4	31	80	117	129
105.0	4	29	75	110	121
107.5	4	27	71	104	114
110.0	4	26	67	99	109
112.5	4	25	64	94	104
115.0	4	25	61	89	98
117.5	4	24	58	84	94
120.0	4	23	55	80	89
122.5	4	22	52	75	84
125.0	5	21	49	72	79
127.5	5	21	47	67	75
130.0	5	20	45	64	71
132.5	6	19	42	60	67

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CANDELA TABULATION - (Cont.)

135.0	6	18	40	56	63
137.5	6	18	38	53	59
140.0	6	17	36	50	55
142.5	7	16	34	47	51
145.0	7	15	31	43	47
147.5	7	14	29	40	44
150.0	8	13	27	37	41
152.5	8	13	24	33	37
155.0	8	12	22	30	33
157.5	7	11	20	27	30
160.0	7	11	17	24	26
162.5	7	10	16	21	22
165.0	7	9	14	18	20
167.5	7	9	12	15	17
170.0	7	8	11	13	14
172.5	7	8	9	10	11
175.0	8	7	8	8	9
177.5	8	8	7	7	7
180.0	7	7	7	7	7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1447.57	N.A.	12.50
0-30	3101.48	N.A.	26.80
0-40	5089.9	N.A.	44.00
0-60	8851.72	N.A.	76.40
0-80	10923.01	N.A.	94.30
0-90	11242.77	N.A.	97.10
10-90	10872.15	N.A.	93.90
20-40	3642.33	N.A.	31.50
20-50	5653.51	N.A.	48.80
40-70	5057.3	N.A.	43.70
60-80	2071.29	N.A.	17.90
70-80	775.80	N.A.	6.70
80-90	319.76	N.A.	2.80
90-110	177.50	N.A.	1.50
90-120	233.68	N.A.	2.00
90-130	275.13	N.A.	2.40
90-150	322.62	N.A.	2.80
90-180	337.35	N.A.	2.90
110-180	159.85	N.A.	1.40
0-180	11580.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	370.62
10-20	1076.95
20-30	1653.91
30-40	1988.42
40-50	2011.18
50-60	1750.64
60-70	1295.49
70-80	775.80
80-90	319.76
90-100	103.89
100-110	73.60
110-120	56.18
120-130	41.45
130-140	29.02
140-150	18.48
150-160	9.90
160-170	3.98
170-180	0.84

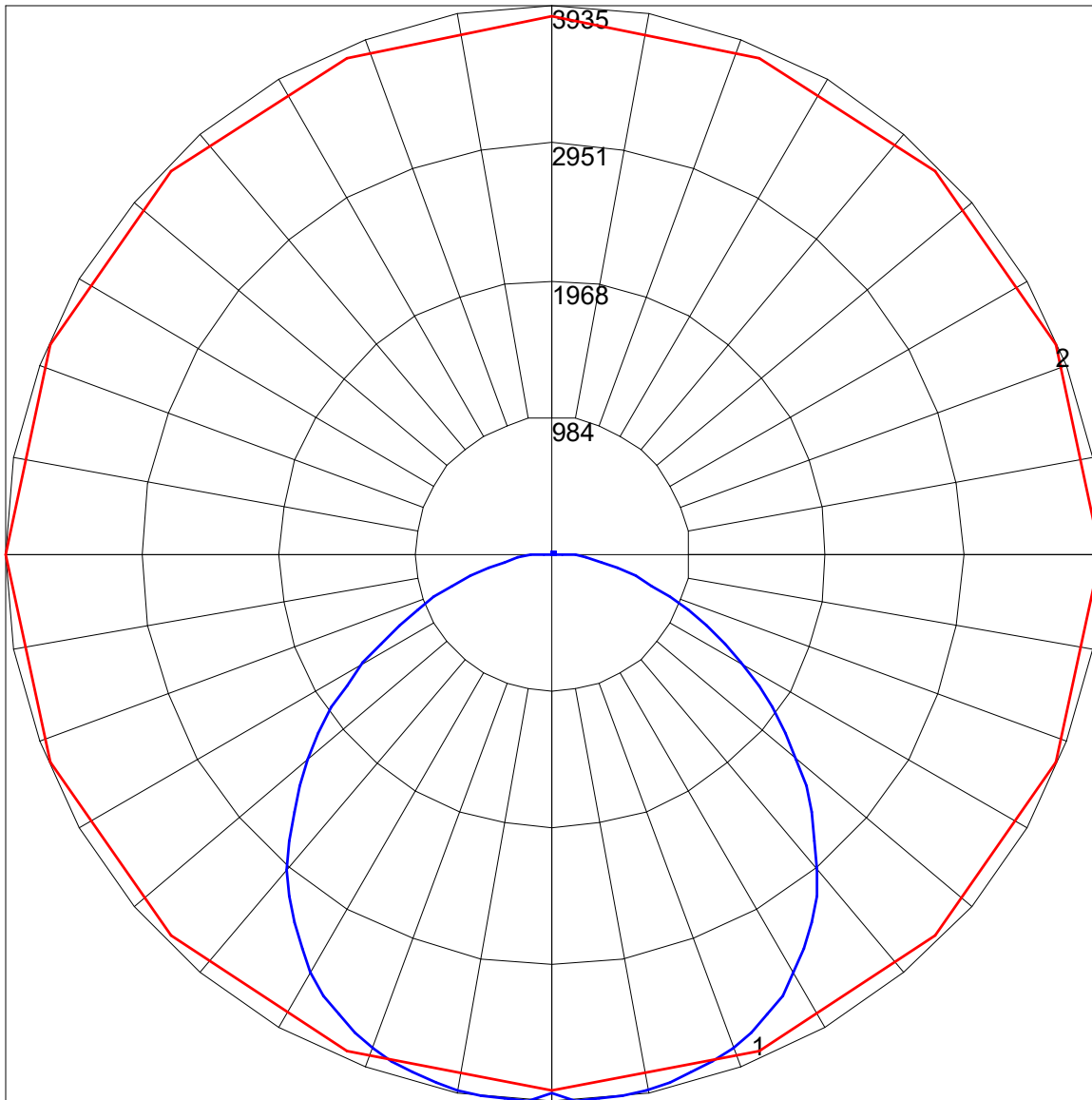
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	100	96	93	96	92	89	91	88	86	87	85	83	81
2	98	90	83	77	95	88	81	76	84	78	74	80	75	72	76	73	70	67
3	89	79	71	64	87	77	69	63	74	67	62	70	65	60	68	63	59	57
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	75	62	53	47	73	61	53	46	59	51	46	56	50	45	54	49	44	42
6	70	56	47	41	67	55	47	41	53	46	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	34	32
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	34	29	55	42	34	29	41	33	28	39	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

POLAR GRAPH



Maximum Candela = 3935 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)