



IES INDOOR REPORT

PHOTOMETRIC FILENAME : IHB4-LED-24L-LL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11003

[TESTLAB] LSI INDUSTRIES INC.

[ISSUE DATE] 04/19/21

[TEST DATE] 04/18/19

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] IHB4-LED-24L-LL-40

[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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	165.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
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)	0.60 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	39573	38420	37773
55	39755	38669	37716
65	37734	36971	31722
75	32011	26661	19823
85	15423	11773	12082

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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	7774	7774	7774	7774	7774
2.5	7884	7821	7785	7741	7735
5.0	7893	7830	7791	7742	7733
7.5	7893	7828	7783	7732	7724
10.0	7883	7815	7767	7714	7705
12.5	7861	7791	7742	7686	7677
15.0	7829	7758	7704	7644	7633
17.5	7788	7715	7654	7591	7582
20.0	7733	7661	7590	7527	7511
22.5	7663	7593	7514	7445	7422
25.0	7577	7510	7425	7348	7325
27.5	7474	7412	7318	7237	7214
30.0	7355	7295	7191	7111	7087
32.5	7220	7153	7049	6969	6944
35.0	7065	6998	6888	6812	6784
37.5	6893	6821	6704	6639	6606
40.0	6682	6623	6505	6447	6410
42.5	6472	6403	6296	6236	6194
45.0	6245	6168	6063	6000	5961
47.5	6002	5916	5816	5746	5713
50.0	5727	5648	5549	5478	5437
52.5	5392	5346	5256	5187	5142
55.0	5089	4996	4950	4883	4828
57.5	4734	4663	4630	4536	4422
60.0	4374	4278	4283	4094	3946
62.5	3939	3899	3890	3589	3409
65.0	3559	3501	3487	3060	2992
67.5	3146	3111	2957	2650	2617
70.0	2721	2701	2434	2231	2113
72.5	2283	2289	1987	1718	1555
75.0	1849	1863	1540	1222	1145
77.5	1421	1376	1046	909	881
80.0	990	930	669	656	626
82.5	606	537	430	400	393
85.0	300	238	229	242	235
87.5	86	98	118	129	118
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2923.67	N.A.	11.70
0-30	6353.62	N.A.	25.40
0-40	10674.41	N.A.	42.60
0-60	19771.65	N.A.	79.00
0-80	24708.12	N.A.	98.70
0-90	25035.9	N.A.	100.00
10-90	24292.71	N.A.	97.00
20-40	7750.74	N.A.	31.00
20-50	12441.74	N.A.	49.70
40-70	12391.26	N.A.	49.50
60-80	4936.47	N.A.	19.70
70-80	1642.45	N.A.	6.60
80-90	327.78	N.A.	1.30
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	25035.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	743.20
10-20	2180.48
20-30	3429.95
30-40	4320.79
40-50	4691.00
50-60	4406.24
60-70	3294.02
70-80	1642.45
80-90	327.78
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

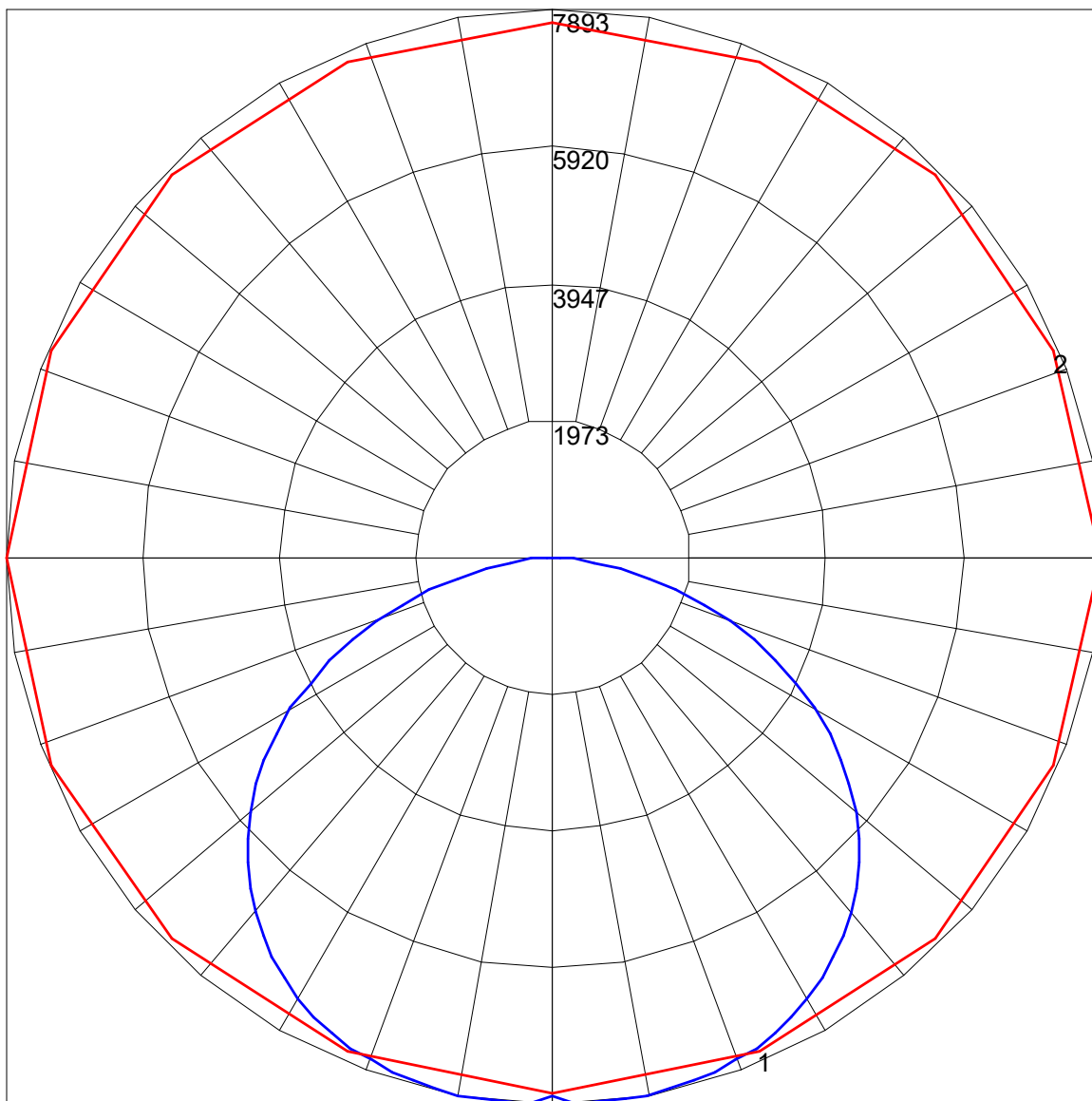
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 7893 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)