



IES INDOOR REPORT
PHOTOMETRIC FILENAME : IHB4-LED-24L-DA-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-11002
 [TESTLAB] LSI INDUSTRIES INC.
 [ISSUEDATE] 04/19/21
 [TESTDATE] 04/18/19
 [MANUFAC] LSI INDUSTRIES, INC
 [LUMCAT] IHB4-LED-24L-DA-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	23520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	165.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
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	34434	33667	33287
55	31248	31264	31248
65	26623	28457	29082
75	21623	26297	27492
85	16040	31926	37993

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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	7830	7830	7830	7830	7830
2.5	7944	7883	7840	7797	7775
5.0	7948	7886	7840	7794	7771
7.5	7937	7876	7825	7776	7752
10.0	7912	7850	7794	7741	7717
12.5	7872	7810	7748	7691	7666
15.0	7817	7750	7685	7624	7597
17.5	7744	7676	7605	7537	7509
20.0	7655	7586	7502	7429	7403
22.5	7544	7476	7383	7304	7270
25.0	7410	7344	7243	7155	7115
27.5	7252	7189	7077	6989	6947
30.0	7071	7008	6891	6801	6758
32.5	6865	6801	6681	6589	6550
35.0	6633	6563	6449	6361	6322
37.5	6376	6306	6189	6116	6077
40.0	6096	6020	5918	5854	5816
42.5	5761	5713	5630	5578	5540
45.0	5434	5394	5313	5288	5253
47.5	5092	5051	4997	4974	4958
50.0	4738	4704	4673	4665	4640
52.5	4372	4350	4343	4341	4314
55.0	4000	3993	4002	4021	4000
57.5	3628	3634	3669	3691	3682
60.0	3261	3271	3341	3371	3366
62.5	2900	2916	3001	3056	3051
65.0	2511	2562	2684	2745	2743
67.5	2172	2236	2369	2436	2442
70.0	1849	1923	2072	2137	2150
72.5	1540	1627	1787	1852	1859
75.0	1249	1349	1519	1590	1588
77.5	981	1089	1261	1339	1347
80.0	738	837	1031	1114	1125
82.5	498	626	811	908	923
85.0	312	439	621	722	739
87.5	151	280	455	548	572
90.0	12	161	340	439	459
92.5	2	104	252	342	366
95.0	2	87	214	288	305
97.5	3	75	193	263	281
100.0	4	68	176	243	260
102.5	4	63	162	226	244
105.0	4	59	150	210	228
107.5	4	56	141	198	215
110.0	4	53	134	187	204
112.5	5	51	126	177	194
115.0	6	49	120	169	184
117.5	6	48	115	160	175
120.0	7	47	109	152	166
122.5	8	47	102	145	158
125.0	9	46	97	138	151
127.5	10	44	93	130	143
130.0	11	42	90	122	135
132.5	11	40	86	116	127

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CANDELA TABULATION - (Cont.)

135.0	12	39	83	111	121
137.5	13	38	79	106	115
140.0	14	36	75	101	110
142.5	14	35	71	95	103
145.0	15	33	65	89	97
147.5	16	32	60	84	91
150.0	16	31	56	78	85
152.5	17	30	53	69	78
155.0	17	28	48	63	67
157.5	18	27	44	58	62
160.0	18	26	40	53	57
162.5	18	24	35	48	51
165.0	19	23	33	42	45
167.5	19	22	29	36	39
170.0	19	21	26	32	34
172.5	20	21	24	29	30
175.0	21	21	22	24	25
177.5	21	21	21	22	21
180.0	20	20	20	20	20

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2919.7	N.A.	12.40
0-30	6260.28	N.A.	26.60
0-40	10298.27	N.A.	43.80
0-60	17988.85	N.A.	76.50
0-80	22189.38	N.A.	94.30
0-90	22839.82	N.A.	97.10
10-90	22092.49	N.A.	93.90
20-40	7378.57	N.A.	31.40
20-50	11489.04	N.A.	48.80
40-70	10327.01	N.A.	43.90
60-80	4200.53	N.A.	17.90
70-80	1564.1	N.A.	6.70
80-90	650.45	N.A.	2.80
90-110	361.16	N.A.	1.50
90-120	469.00	N.A.	2.00
90-130	550.02	N.A.	2.30
90-150	646.67	N.A.	2.70
90-180	679.81	N.A.	2.90
110-180	318.65	N.A.	1.40
0-180	23519.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	747.34
10-20	2172.37
20-30	3340.58
30-40	4037.99
40-50	4110.47
50-60	3580.11
60-70	2636.43
70-80	1564.1
80-90	650.45
90-100	218.01
100-110	143.15
110-120	107.84
120-130	81.01
130-140	58.12
140-150	38.53
150-160	21.48
160-170	9.37
170-180	2.29

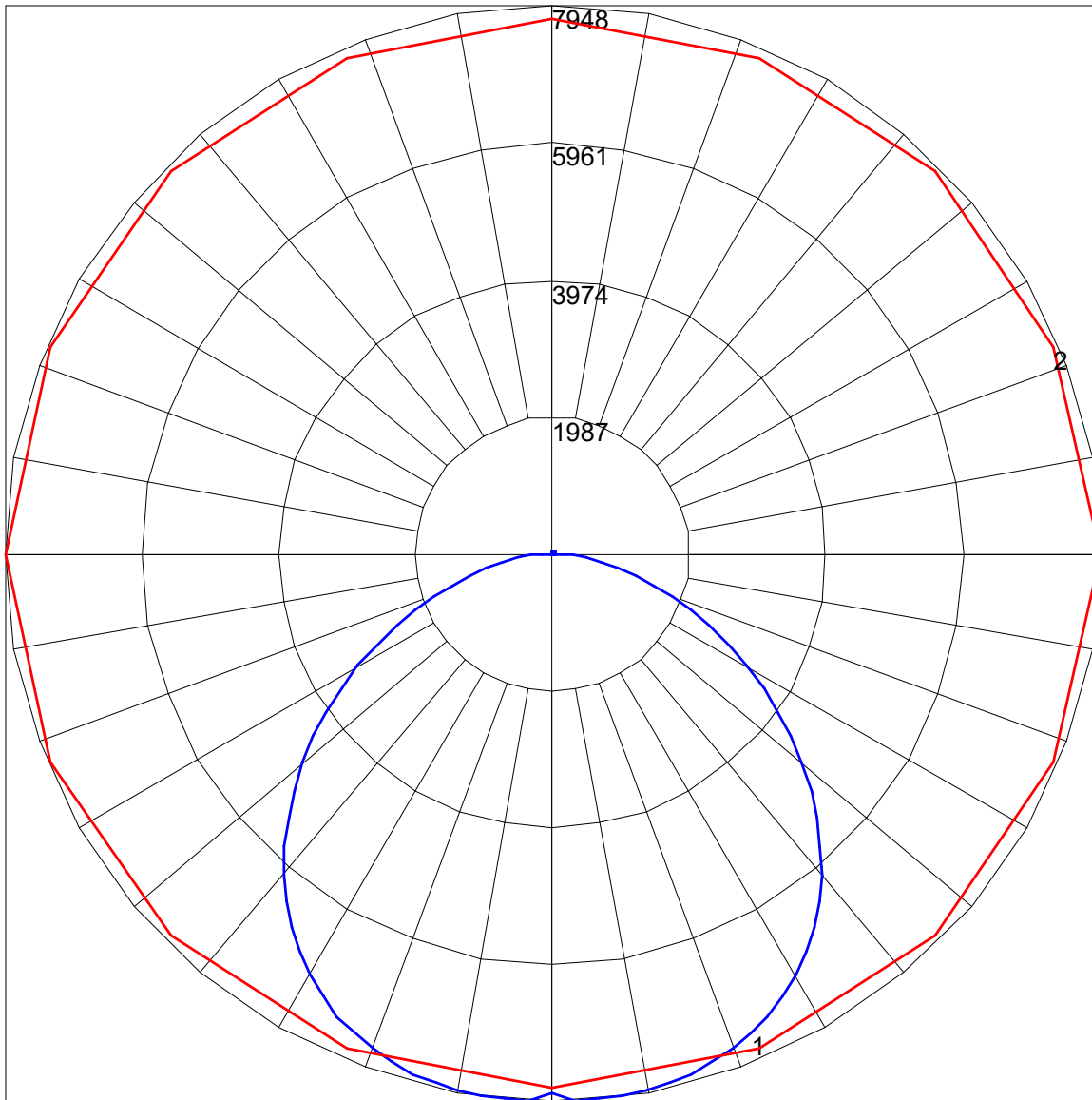
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	104	104	104	99	99	99	97
1	108	103	99	95	105	100	96	93	96	92	89	91	89	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	69	56	47	41	67	55	47	41	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	31	26	36	30	26	35	29	25	23

POLAR GRAPH



Maximum Candela = 7948 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.)