



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : IHB4-LED-30L-DA-40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11000  
[TESTLAB] LSI INDUSTRIES INC.  
[ISSUEDATE] 04/19/21  
[TESTDATE] 04/18/19  
[MANUFAC] LSI INDUSTRIES, INC  
[LUMCAT] IHB4-LED-30L-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	28519
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	198.4
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	42082	40923	40226
55	37990	38036	37888
65	32920	34606	34521
75	26453	31664	32495
85	21079	39021	43905

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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	9485	9485	9485	9485	9485
2.5	9627	9551	9500	9443	9412
5.0	9632	9555	9500	9440	9407
7.5	9620	9542	9482	9418	9383
10.0	9592	9512	9444	9375	9341
12.5	9547	9463	9388	9314	9278
15.0	9483	9393	9312	9229	9193
17.5	9393	9305	9212	9123	9086
20.0	9281	9193	9092	8996	8955
22.5	9146	9060	8943	8844	8800
25.0	8985	8898	8774	8668	8622
27.5	8794	8709	8572	8462	8419
30.0	8576	8491	8347	8236	8193
32.5	8327	8241	8094	7979	7943
35.0	8047	7961	7812	7705	7670
37.5	7737	7651	7505	7409	7345
40.0	7399	7314	7170	7086	7030
42.5	7033	6952	6822	6743	6697
45.0	6641	6548	6458	6394	6348
47.5	6229	6144	6070	6031	5988
50.0	5756	5715	5680	5655	5617
52.5	5314	5287	5272	5271	5237
55.0	4863	4846	4869	4880	4850
57.5	4414	4415	4456	4466	4459
60.0	3970	3987	4056	4072	4027
62.5	3533	3567	3651	3673	3638
65.0	3105	3160	3264	3282	3256
67.5	2691	2743	2880	2910	2884
70.0	2276	2357	2518	2553	2527
72.5	1882	1994	2163	2214	2191
75.0	1528	1653	1829	1887	1877
77.5	1200	1331	1524	1585	1588
80.0	904	1044	1245	1309	1313
82.5	640	786	984	1065	1065
85.0	410	555	759	842	854
87.5	214	350	554	647	664
90.0	35	189	381	471	490
92.5	7	130	298	388	407
95.0	8	110	265	352	373
97.5	8	98	240	322	345
100.0	9	88	220	299	320
102.5	9	82	203	279	300
105.0	10	78	190	263	284
107.5	9	73	178	248	268
110.0	10	70	168	234	255
112.5	9	67	160	222	242
115.0	10	65	153	210	229
117.5	11	64	146	201	219
120.0	11	63	139	191	208
122.5	12	62	132	182	198
125.0	12	60	125	173	189
127.5	14	58	119	165	180
130.0	14	57	114	156	171
132.5	15	54	110	147	161

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	16	53	106	139	152
<b>137.5</b>	16	50	101	132	142
<b>140.0</b>	16	49	96	127	135
<b>142.5</b>	16	46	90	120	130
<b>145.0</b>	17	45	85	114	122
<b>147.5</b>	17	43	80	106	115
<b>150.0</b>	18	42	75	99	107
<b>152.5</b>	18	40	69	91	98
<b>155.0</b>	19	38	63	84	89
<b>157.5</b>	19	36	57	75	82
<b>160.0</b>	19	34	52	68	73
<b>162.5</b>	20	32	48	61	64
<b>165.0</b>	20	30	42	54	57
<b>167.5</b>	21	28	39	49	51
<b>170.0</b>	20	26	34	43	45
<b>172.5</b>	21	25	31	37	39
<b>175.0</b>	21	23	28	32	33
<b>177.5</b>	21	22	24	26	26
<b>180.0</b>	22	22	22	22	22

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3537.03	N.A.	12.40
0-30	7584.15	N.A.	26.60
0-40	12478.15	N.A.	43.80
0-60	21812.29	N.A.	76.50
0-80	26891.74	N.A.	94.30
0-90	27672.81	N.A.	97.00
10-90	26767.46	N.A.	93.90
20-40	8941.12	N.A.	31.40
20-50	13929.53	N.A.	48.80
40-70	12528.8	N.A.	43.90
60-80	5079.45	N.A.	17.80
70-80	1884.79	N.A.	6.60
80-90	781.07	N.A.	2.70
90-110	440.40	N.A.	1.50
90-120	577.13	N.A.	2.00
90-130	680.46	N.A.	2.40
90-150	803.84	N.A.	2.80
90-180	846.59	N.A.	3.00
110-180	406.20	N.A.	1.40
0-180	28519.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	905.35
10-20	2631.68
20-30	4047.11
30-40	4894.01
40-50	4988.42
50-60	4345.73
60-70	3194.66
70-80	1884.79
80-90	781.07
90-100	260.26
100-110	180.14
110-120	136.74
120-130	103.32
130-140	74.08
140-150	49.31
150-160	27.89
160-170	12.05
170-180	2.81

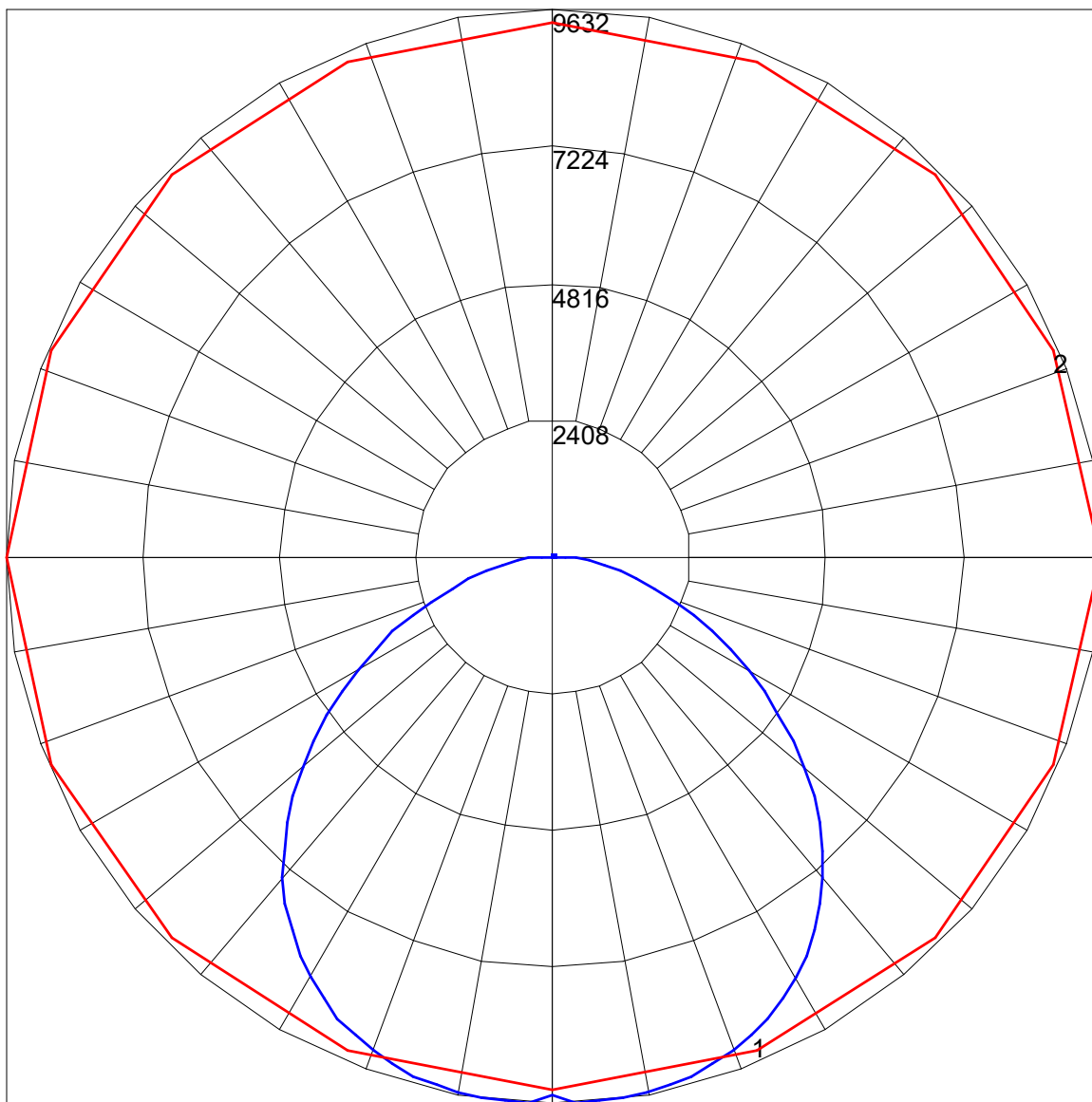
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 9632 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.)