IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-30L-CPN-40-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12302
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 04/05/2022
[TESTDATE] 11/10/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-01-LED-30L-CPN-40-80CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[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	26488
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	185
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.14 ft
Luminous Width (90-270)	1.16 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	109944	50832	40332
55	75596	43044	39726
65	44488	41178	42756
75	25293	39463	44491
85	16048	39001	53277

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	19480	19480	19480	19480	19480
2.5	19213	19365	19536	19566	19533
5.0	19198	19139	18842	18446	18274
7.5	19129	18695	17648	16779	16349
10.0	19015	18068	16274	14954	14388
12.5	18854	17302	14820	13124	12541
15.0	18630	16432	13382	11719	11218
17.5	18341	15487	12078	10628	10198
20.0	17975	14481	11039	9715	9247
22.5	17534	13432	10152	8848	8408
25.0	16965	12422	9386	8103	7642
27.5	16320	11421	8654	7331	6758
30.0	15575	10534	7986	6505	5998
32.5	14686	9705	7341	5805	5406
35.0	13749	8955	6660	5260	4858
37.5	12746	8260	5977	4739	4340
40.0	11697	7618	5358	4264	3932
42.5	10635	7021	4854	3884	3698
45.0	9560	6459	4420	3597	3507
47.5	8480	5909	4011	3382	3294
50.0	7412	5346	3650	3165	3098
52.5	6316	4807	3325	2982	2926
55.0	5332	4286	3036	2802	2802
57.5	4388	3755	2775	2633	2697
60.0	3593	3294	2556	2470	2578
62.5	2900	2859	2350	2325	2408
65.0	2312	2462	2140	2181	2222
67.5	1818	2095	1921	2028	2054
70.0	1410	1761	1706	1844	1861
72.5	1066	1443	1488	1625	1641
75.0	805	1152	1256	1412	1416
77.5	597	900	1027	1201	1183
80.0	415	669	809	963	968
82.5	280	463	597	753	779
85.0	172	296	418	543	571
87.5	79	139	210	280	327
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5682.59	N.A.	21.50
0-30	10524.49	N.A.	39.70
0-40	15243.4	N.A.	57.50
0-60	22492.19	N.A.	84.90
0-80	26054.93	N.A.	98.40
0-90	26488.26	N.A.	100.00
10-90	24770.76	N.A.	93.50
20-40	9560.8	N.A.	36.10
20-50	13624.02	N.A.	51.40
40-70	9499.6	N.A.	35.90
60-80	3562.74	N.A.	13.50
70-80	1311.93	N.A.	5.00
80-90	433.33	N.A.	1.60
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	26488.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1717.49
10-20	3965.1
20-30	4841.89
30-40	4718.91
40-50	4063.22
50-60	3185.57
60-70	2250.81
70-80	1311.93
80-90	433.33
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	95	93	91	92	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46
7	70	58	50	45	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	54	46	41	65	53	46	40	52	45	40	51	44	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

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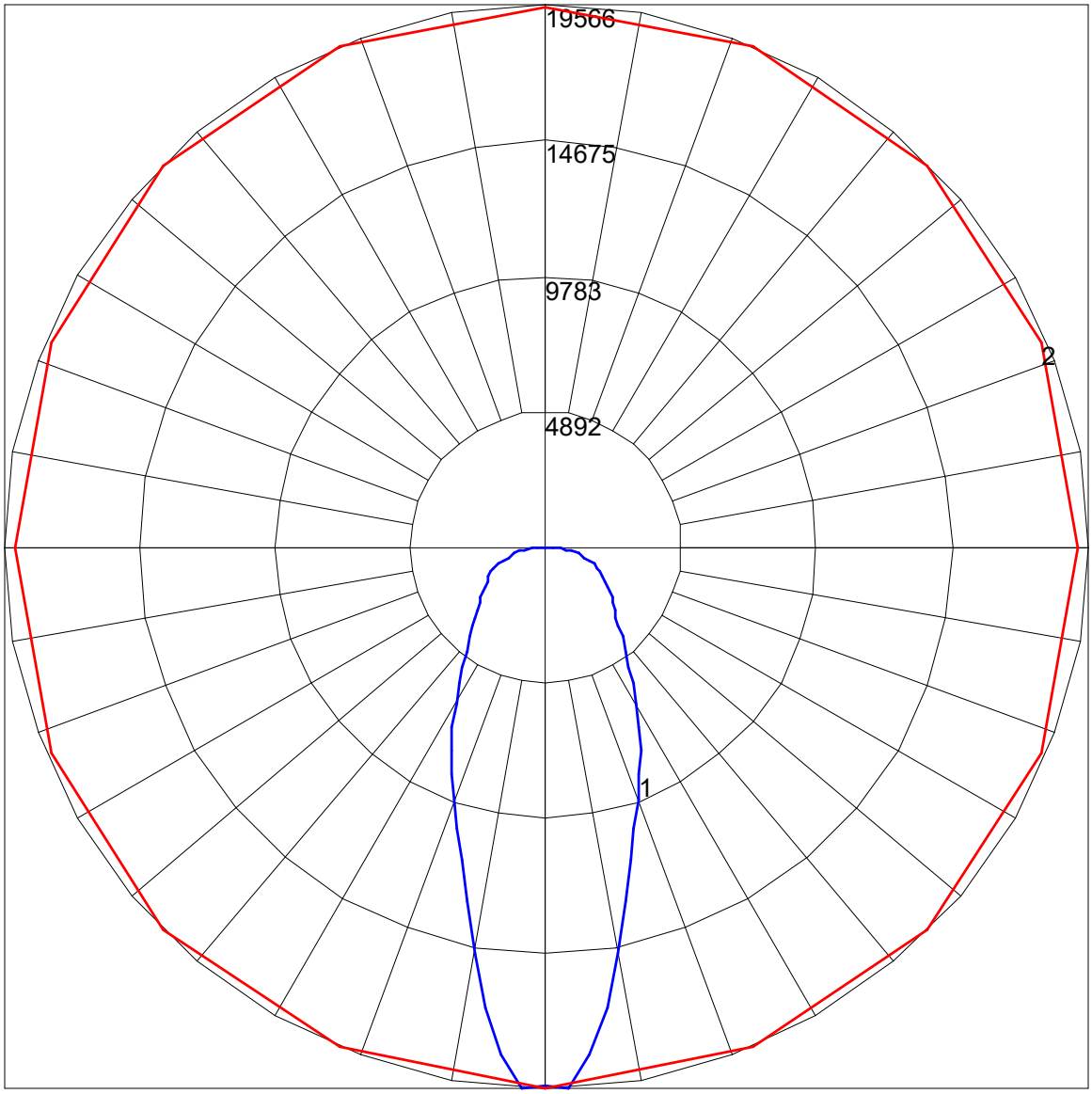
POLAR GRAPH



Maximum Candela = 19566 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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