IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-30L-CPN-50-80CRI.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-50-80CRI
[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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27097
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	183
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	112475	52005	41264
55	77340	44036	40634
65	45508	42121	43737
75	25890	40375	45527
85	16422	39934	54490

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	19928	19928	19928	19928	19928
2.5	19655	19810	19985	20016	19982
5.0	19639	19579	19275	18870	18694
7.5	19569	19125	18054	17165	16725
10.0	19452	18483	16648	15298	14719
12.5	19287	17700	15161	13426	12829
15.0	19058	16810	13690	11988	11476
17.5	18763	15843	12356	10872	10432
20.0	18388	14814	11293	9938	9460
22.5	17937	13741	10385	9051	8601
25.0	17355	12708	9602	8289	7818
27.5	16695	11684	8853	7500	6913
30.0	15933	10776	8170	6655	6136
32.5	15024	9928	7510	5938	5530
35.0	14065	9161	6813	5381	4970
37.5	13039	8450	6114	4848	4440
40.0	11966	7793	5481	4362	4022
42.5	10880	7182	4966	3973	3783
45.0	9780	6608	4522	3680	3588
47.5	8675	6045	4103	3460	3370
50.0	7582	5469	3734	3238	3169
52.5	6461	4918	3401	3051	2993
55.0	5455	4385	3106	2866	2866
57.5	4489	3841	2839	2694	2759
60.0	3676	3370	2615	2527	2637
62.5	2967	2925	2404	2378	2463
65.0	2365	2519	2189	2231	2273
67.5	1860	2143	1965	2075	2101
70.0	1442	1801	1745	1886	1904
72.5	1091	1476	1522	1662	1679
75.0	824	1178	1285	1444	1449
77.5	611	921	1051	1229	1210
80.0	425	684	828	985	990
82.5	286	474	611	770	797
85.0	176	303	428	555	584
87.5	81	142	215	286	335
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5813.24	N.A.	21.50
0-30	10766.48	N.A.	39.70
0-40	15593.87	N.A.	57.50
0-60	23009.46	N.A.	84.90
0-80	26654.07	N.A.	98.40
0-90	27097.36	N.A.	100.00
10-90	25340.38	N.A.	93.50
20-40	9780.62	N.A.	36.10
20-50	13937.33	N.A.	51.40
40-70	9718.12	N.A.	35.90
60-80	3644.61	N.A.	13.50
70-80	1342.08	N.A.	5.00
80-90	443.29	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	27097.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1756.98
10-20	4056.26
20-30	4953.23
30-40	4827.39
40-50	4156.71
50-60	3258.89
60-70	2302.53
70-80	1342.08
80-90	443.29
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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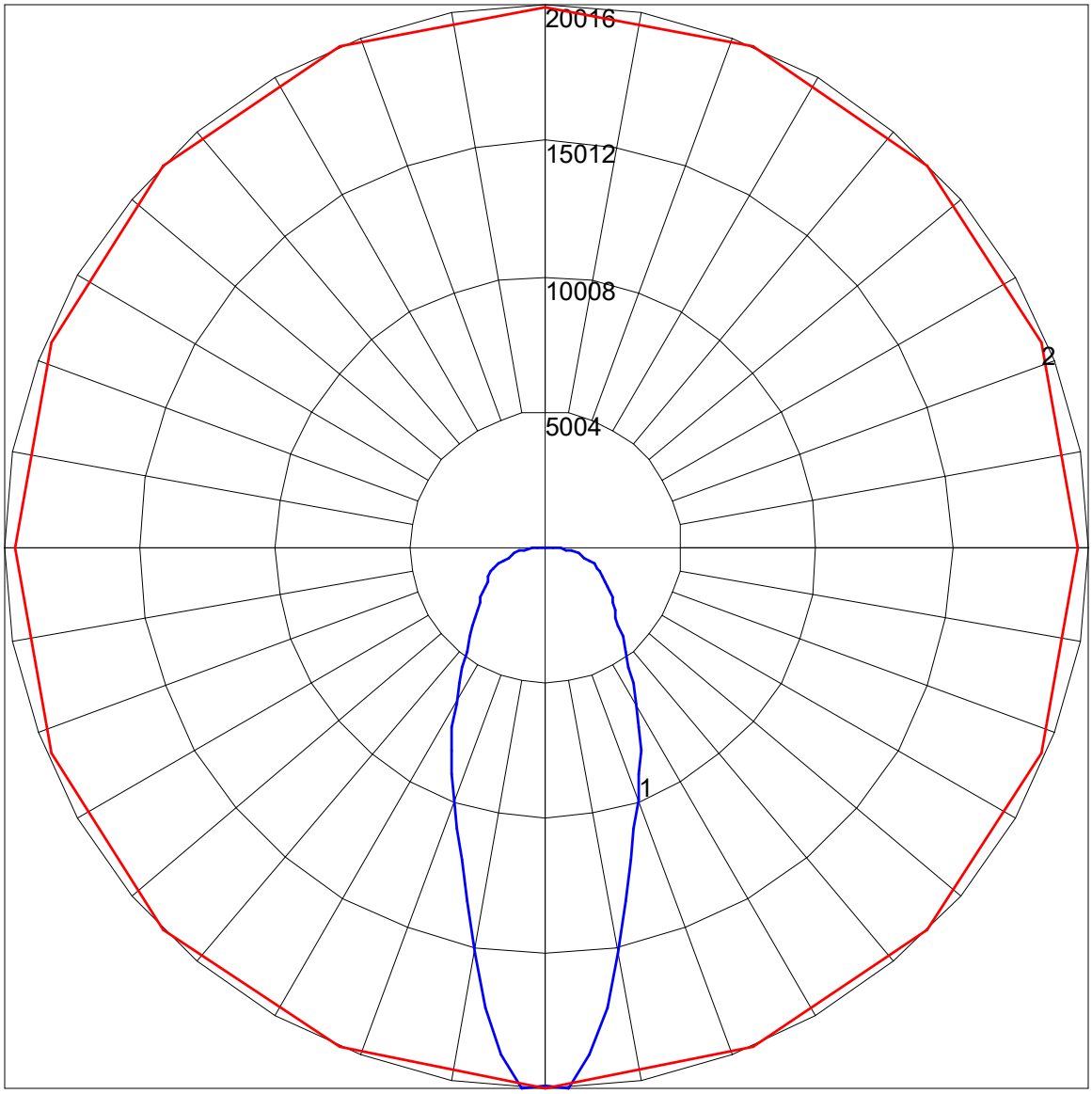
POLAR GRAPH



Maximum Candela = 20016 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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