IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-18L-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-18L-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	17389
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	122
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	72177	33363	26474
55	49622	28256	26073
65	29209	27035	28055
75	16590	25921	29220
85	10543	25566	34989

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	12789	12789	12789	12789	12789
2.5	12613	12713	12824	12846	12823
5.0	12604	12565	12370	12110	11997
7.5	12559	12273	11586	11016	10733
10.0	12482	11862	10685	9817	9445
12.5	12377	11359	9730	8616	8233
15.0	12231	10787	8786	7694	7365
17.5	12040	10166	7928	6977	6695
20.0	11801	9507	7247	6379	6070
22.5	11510	8819	6666	5808	5521
25.0	11138	8154	6162	5320	5017
27.5	10714	7498	5682	4813	4436
30.0	10224	6916	5242	4270	3938
32.5	9641	6371	4820	3812	3549
35.0	9026	5880	4373	3453	3190
37.5	8369	5423	3924	3111	2849
40.0	7679	5001	3517	2799	2581
42.5	6981	4609	3186	2550	2427
45.0	6276	4240	2901	2363	2302
47.5	5567	3880	2633	2221	2162
50.0	4866	3509	2396	2078	2034
52.5	4147	3155	2183	1957	1921
55.0	3500	2813	1993	1839	1839
57.5	2881	2465	1822	1728	1770
60.0	2358	2162	1678	1621	1692
62.5	1904	1877	1543	1526	1581
65.0	1518	1617	1405	1432	1458
67.5	1193	1375	1261	1331	1349
70.0	925	1156	1120	1211	1222
72.5	699	947	977	1066	1077
75.0	528	756	825	927	930
77.5	392	591	674	789	776
80.0	273	439	532	632	635
82.5	183	304	392	494	511
85.0	113	194	274	356	375
87.5	52	91	138	183	215
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3730.61	N.A.	21.50
0-30	6909.35	N.A.	39.70
0-40	10007.41	N.A.	57.60
0-60	14765.92	N.A.	84.90
0-80	17104.74	N.A.	98.40
0-90	17389.05	N.A.	100.00
10-90	16261.51	N.A.	93.50
20-40	6276.8	N.A.	36.10
20-50	8944.25	N.A.	51.40
40-70	6236.11	N.A.	35.90
60-80	2338.82	N.A.	13.40
70-80	861.22	N.A.	5.00
80-90	284.31	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	17389.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1127.55
10-20	2603.06
20-30	3178.74
30-40	3098.06
40-50	2667.44
50-60	2091.06
60-70	1477.6
70-80	861.22
80-90	284.31
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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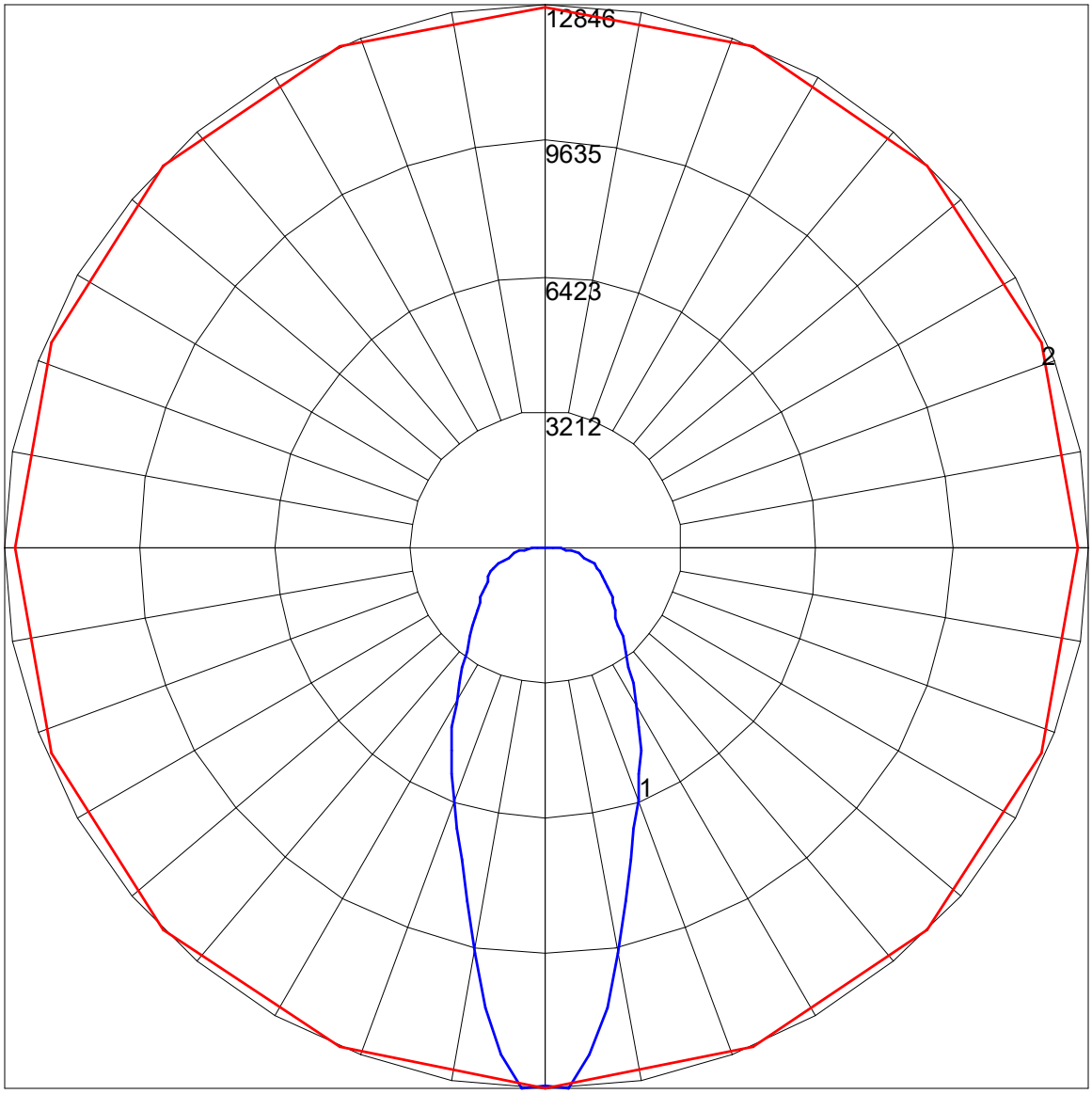
POLAR GRAPH



Maximum Candela = 12846 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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