IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-18L-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-18L-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	16766
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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	69589	32167	25531
55	47850	27250	25137
65	28170	26073	27054
75	15993	24979	28184
85	10170	24632	33776

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	12331	12331	12331	12331	12331
2.5	12161	12258	12365	12386	12364
5.0	12152	12115	11927	11676	11567
7.5	12109	11833	11171	10621	10348
10.0	12035	11437	10302	9465	9107
12.5	11934	10952	9381	8307	7938
15.0	11793	10401	8471	7418	7101
17.5	11609	9802	7644	6727	6455
20.0	11378	9166	6987	6150	5853
22.5	11098	8503	6427	5600	5323
25.0	10739	7862	5941	5129	4837
27.5	10330	7229	5478	4641	4277
30.0	9858	6668	5054	4117	3797
32.5	9296	6143	4647	3675	3422
35.0	8703	5669	4216	3329	3076
37.5	8069	5229	3783	3000	2747
40.0	7404	4822	3391	2699	2489
42.5	6731	4444	3072	2459	2340
45.0	6051	4088	2797	2278	2220
47.5	5368	3741	2539	2141	2085
50.0	4692	3383	2310	2004	1961
52.5	3998	3042	2105	1887	1852
55.0	3375	2712	1922	1773	1773
57.5	2778	2377	1757	1666	1707
60.0	2274	2085	1618	1563	1631
62.5	1836	1810	1488	1471	1524
65.0	1464	1559	1355	1381	1406
67.5	1150	1326	1216	1283	1301
70.0	892	1115	1080	1168	1178
72.5	674	913	942	1028	1038
75.0	509	729	795	894	897
77.5	378	570	650	761	748
80.0	263	423	513	609	612
82.5	176	293	378	476	493
85.0	109	187	264	343	362
87.5	50	88	133	176	207
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3596.93	N.A.	21.50
0-30	6661.74	N.A.	39.70
0-40	9648.8	N.A.	57.50
0-60	14236.96	N.A.	84.90
0-80	16492.14	N.A.	98.40
0-90	16766.16	N.A.	100.00
10-90	15679.02	N.A.	93.50
20-40	6051.86	N.A.	36.10
20-50	8623.79	N.A.	51.40
40-70	6012.95	N.A.	35.90
60-80	2255.18	N.A.	13.50
70-80	830.40	N.A.	5.00
80-90	274.02	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	16766.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1087.15
10-20	2509.79
20-30	3064.81
30-40	2987.06
40-50	2571.93
50-60	2016.23
60-70	1424.79
70-80	830.40
80-90	274.02
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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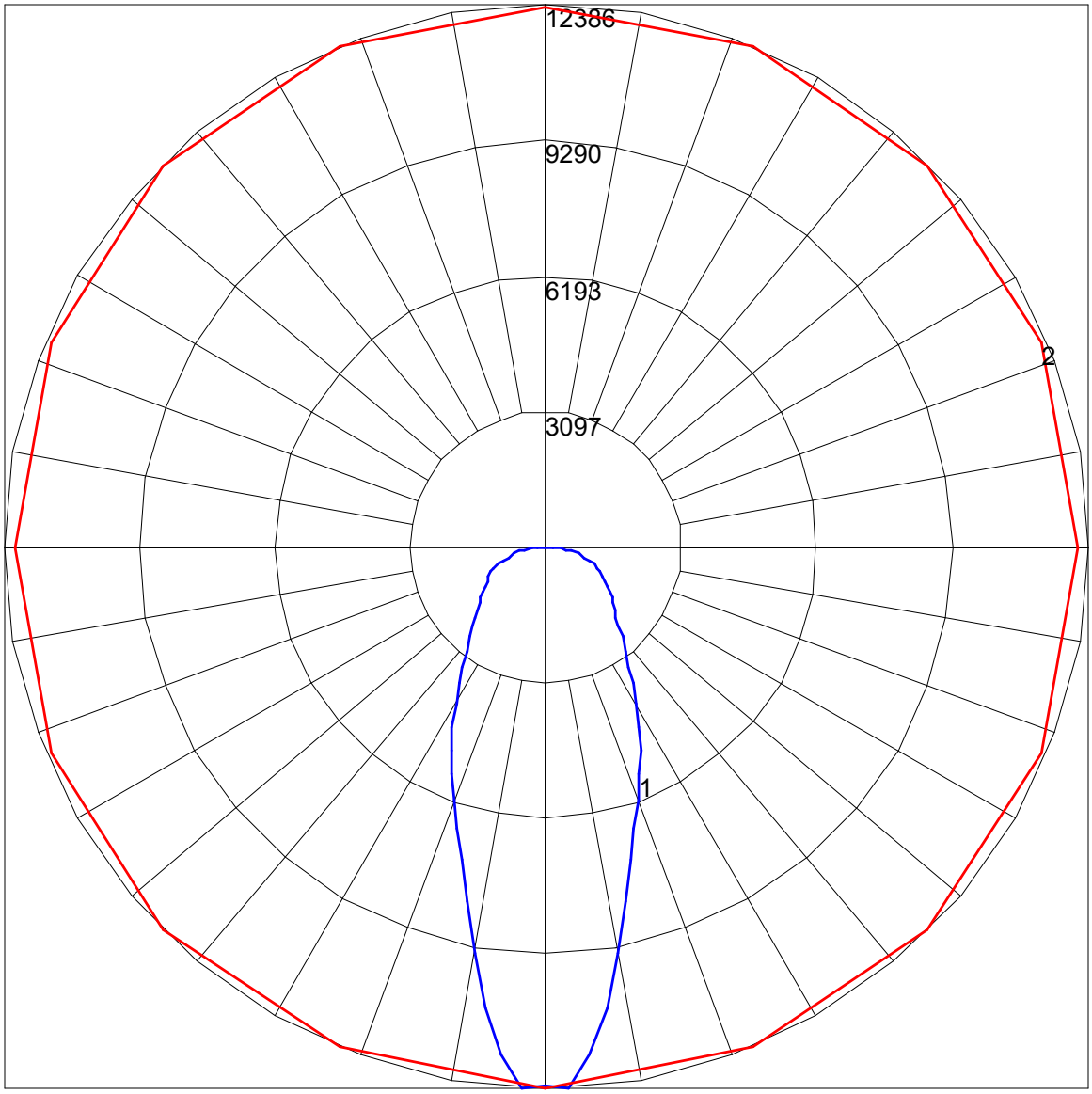
POLAR GRAPH



Maximum Candela = 12386 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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