IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-72L-CPN-50-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12304
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 04/05/2022
[TESTDATE] 11/10/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-03-LED-72L-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	62419
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	487
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.42 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	85184	40301	30833
55	58824	33223	29858
65	35117	31589	29710
75	20182	29639	31158
85	12845	27774	38690

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	46981	46981	46981	46981	46981
2.5	46389	46659	47127	47306	46900
5.0	46483	46157	45631	44818	44043
7.5	46314	45063	42788	40829	39218
10.0	46027	43570	39131	36284	34598
12.5	45515	41720	35716	32007	30548
15.0	44879	39545	32359	28245	26870
17.5	44092	37180	29256	25240	24093
20.0	43174	34843	26399	22912	21893
22.5	42118	32439	24081	20850	19623
25.0	40648	30116	22163	18695	17425
27.5	38941	27853	20381	16650	15558
30.0	36368	25672	18630	15058	14278
32.5	34598	23534	16882	13836	13121
35.0	32500	21661	15244	12723	11802
37.5	30097	19954	13812	11472	10375
40.0	27532	18374	12600	10225	9281
42.5	24805	16862	11518	9180	8545
45.0	22221	15452	10513	8407	8043
47.5	19664	14084	9489	7803	7689
50.0	17152	12718	8593	7373	7450
52.5	14722	11425	7755	7086	6912
55.0	12447	10177	7030	6605	6318
57.5	10277	8931	6441	6025	5905
60.0	8441	7818	5966	5495	5484
62.5	6845	6779	5477	5045	5000
65.0	5475	5804	4925	4675	4632
67.5	4268	4932	4343	4347	4395
70.0	3316	4127	3847	3989	4064
72.5	2543	3371	3350	3507	3526
75.0	1927	2716	2830	2985	2975
77.5	1405	2106	2289	2516	2485
80.0	1005	1568	1787	2029	2038
82.5	679	1089	1321	1587	1637
85.0	413	677	893	1162	1244
87.5	191	316	457	638	736
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	13691.97	N.A.	21.90
0-30	25185.88	N.A.	40.30
0-40	36397.18	N.A.	58.30
0-60	53431.48	N.A.	85.60
0-80	61463.89	N.A.	98.50
0-90	62419.29	N.A.	100.00
10-90	58268.00	N.A.	93.30
20-40	22705.21	N.A.	36.40
20-50	32292.63	N.A.	51.70
40-70	22140.85	N.A.	35.50
60-80	8032.4	N.A.	12.90
70-80	2925.87	N.A.	4.70
80-90	955.40	N.A.	1.50
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	62419.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4151.29
10-20	9540.67
20-30	11493.91
30-40	11211.3
40-50	9587.41
50-60	7446.89
60-70	5106.54
70-80	2925.87
80-90	955.40
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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	93	87	82	89	84	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	69	63	85	75	68	62	73	66	61	71	65	61	68	64	60	58
5	81	69	61	56	79	68	61	55	66	60	55	64	59	54	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	41	50	44	40	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

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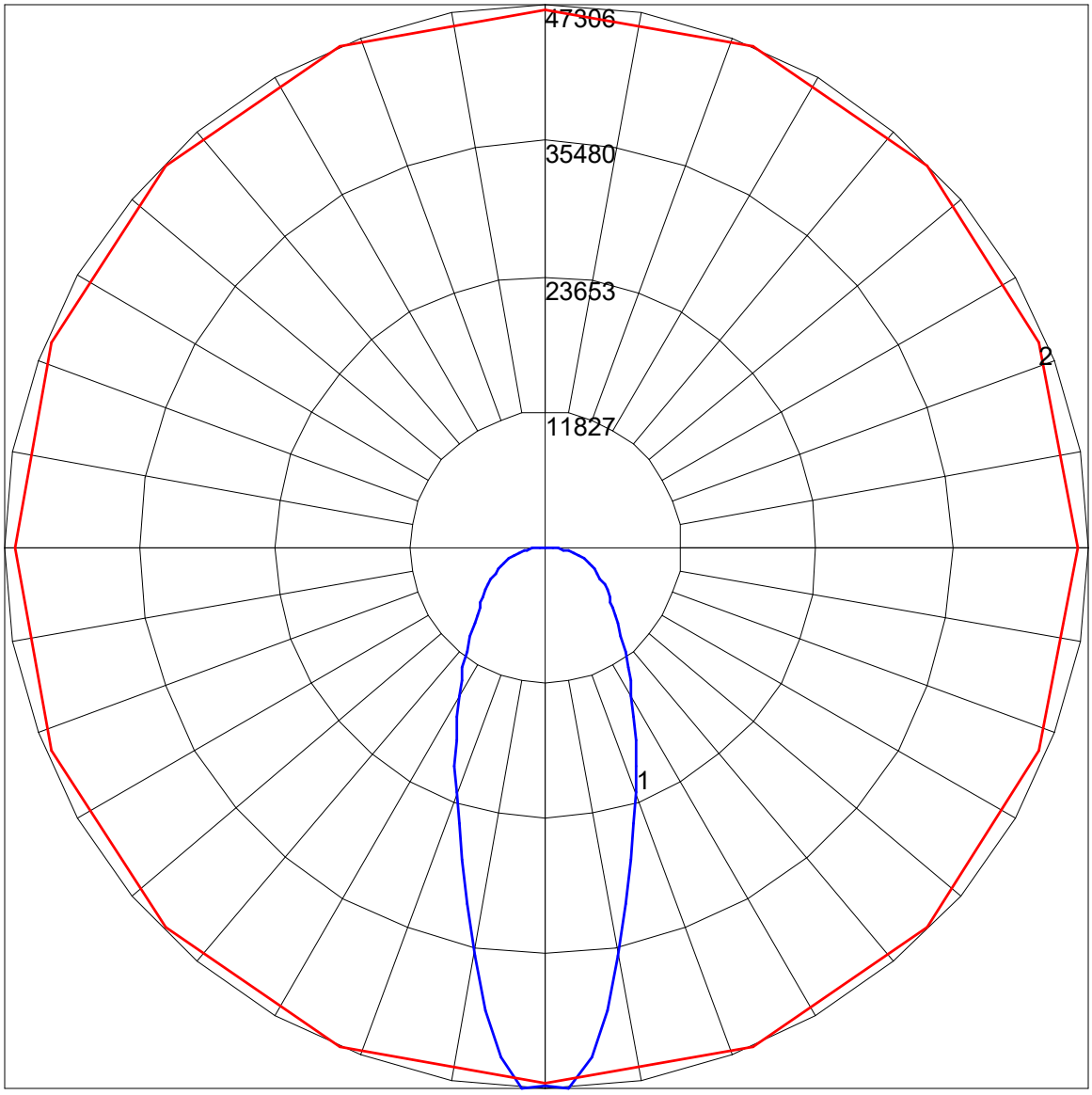
POLAR GRAPH



Maximum Candela = 47306 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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