IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-72L-CPN-40-80CRI.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-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	60800
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	82976	39255	30032
55	57297	32363	29083
65	34206	30768	28940
75	19658	28875	30352
85	12503	27058	37695

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	45762	45762	45762	45762	45762
2.5	45186	45449	45905	46079	45684
5.0	45277	44960	44447	43656	42901
7.5	45113	43894	41678	39770	38201
10.0	44833	42440	38116	35343	33701
12.5	44334	40638	34790	31177	29756
15.0	43715	38519	31520	27512	26173
17.5	42948	36216	28497	24585	23468
20.0	42054	33939	25714	22318	21325
22.5	41026	31598	23456	20309	19114
25.0	39594	29335	21588	18210	16973
27.5	37931	27131	19852	16218	15154
30.0	35425	25006	18147	14667	13908
32.5	33701	22924	16444	13477	12781
35.0	31657	21099	14849	12393	11496
37.5	29316	19436	13454	11174	10106
40.0	26818	17897	12273	9960	9040
42.5	24162	16425	11219	8942	8323
45.0	21645	15051	10240	8189	7834
47.5	19154	13719	9243	7601	7490
50.0	16707	12388	8370	7182	7257
52.5	14340	11129	7554	6902	6733
55.0	12124	9913	6848	6434	6154
57.5	10010	8699	6274	5869	5752
60.0	8222	7615	5811	5352	5342
62.5	6667	6603	5335	4914	4870
65.0	5333	5653	4797	4554	4512
67.5	4157	4804	4230	4234	4281
70.0	3230	4020	3747	3886	3959
72.5	2477	3284	3263	3416	3435
75.0	1877	2646	2757	2908	2898
77.5	1369	2051	2230	2451	2421
80.0	979	1527	1741	1976	1985
82.5	661	1061	1287	1546	1595
85.0	402	659	870	1132	1212
87.5	186	308	445	621	717
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	13336.83	N.A.	21.90
0-30	24532.6	N.A.	40.30
0-40	35453.09	N.A.	58.30
0-60	52045.62	N.A.	85.60
0-80	59869.73	N.A.	98.50
0-90	60800.34	N.A.	100.00
10-90	56756.72	N.A.	93.30
20-40	22116.27	N.A.	36.40
20-50	31455.04	N.A.	51.70
40-70	21566.48	N.A.	35.50
60-80	7824.11	N.A.	12.90
70-80	2850.15	N.A.	4.70
80-90	930.62	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	60800.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4043.62
10-20	9293.2
20-30	11195.77
30-40	10920.5
40-50	9338.77
50-60	7253.75
60-70	4973.96
70-80	2850.15
80-90	930.62
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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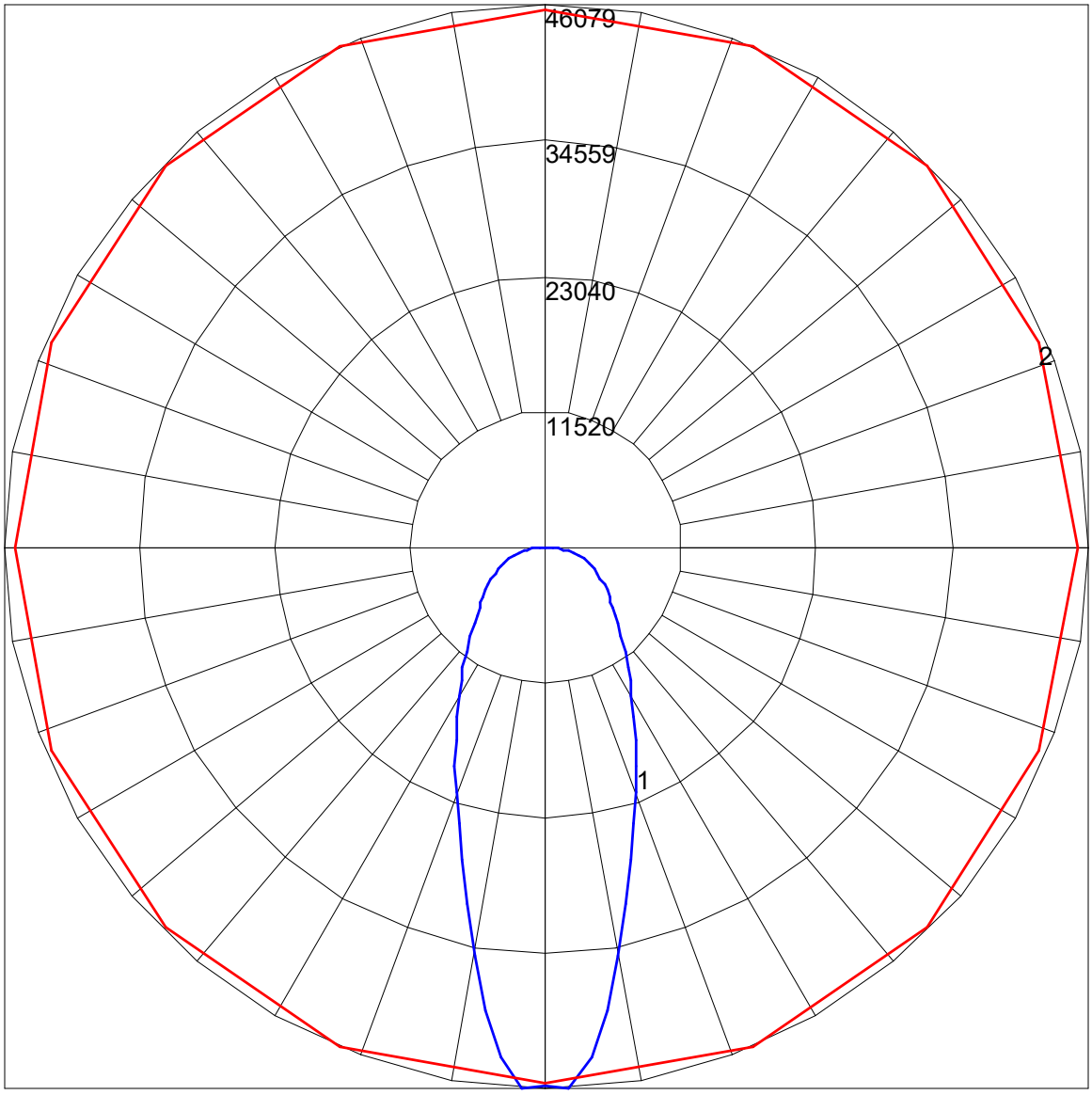
POLAR GRAPH



Maximum Candela = 46079 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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