IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-90L-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-90L-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	78184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	560
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	106697	50476	38619
55	73677	41617	37396
65	43987	39568	37214
75	25283	37128	39034
85	16080	34803	48456

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	58846	58846	58846	58846	58846
2.5	58105	58443	59030	59253	58745
5.0	58222	57814	57155	56138	55167
7.5	58011	56444	53594	51140	49123
10.0	57651	54574	49013	45448	43336
12.5	57009	52256	44736	40091	38264
15.0	56214	49532	40531	35378	33656
17.5	55227	46571	36645	31614	30178
20.0	54077	43642	33066	28699	27422
22.5	52755	40632	30163	26116	24579
25.0	50914	37722	27760	23417	21826
27.5	48776	34888	25528	20854	19487
30.0	45553	32155	23336	18861	17884
32.5	43336	29478	21145	17330	16435
35.0	40708	27131	19095	15936	14783
37.5	37698	24993	17300	14368	12996
40.0	34486	23013	15782	12808	11624
42.5	31070	21121	14427	11499	10702
45.0	27833	19355	13167	10530	10074
47.5	24630	17641	11886	9774	9632
50.0	21484	15930	10763	9235	9332
52.5	18440	14311	9714	8875	8658
55.0	15590	12747	8806	8273	7913
57.5	12872	11186	8068	7547	7397
60.0	10573	9792	7473	6882	6869
62.5	8573	8491	6861	6319	6262
65.0	6858	7269	6169	5856	5802
67.5	5346	6177	5439	5444	5505
70.0	4154	5169	4818	4998	5091
72.5	3186	4222	4196	4393	4417
75.0	2414	3402	3545	3740	3727
77.5	1761	2637	2867	3152	3114
80.0	1259	1964	2239	2541	2552
82.5	850	1364	1655	1988	2051
85.0	517	847	1119	1456	1558
87.5	239	396	572	799	922
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	17149.91	N.A.	21.90
0-30	31546.67	N.A.	40.30
0-40	45589.35	N.A.	58.30
0-60	66925.77	N.A.	85.60
0-80	76986.9	N.A.	98.50
0-90	78183.59	N.A.	100.00
10-90	72983.86	N.A.	93.30
20-40	28439.44	N.A.	36.40
20-50	40448.22	N.A.	51.70
40-70	27732.48	N.A.	35.50
60-80	10061.13	N.A.	12.90
70-80	3665.07	N.A.	4.70
80-90	1196.69	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	78183.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5199.72
10-20	11950.19
20-30	14396.76
30-40	14042.68
40-50	12008.79
50-60	9327.63
60-70	6396.07
70-80	3665.07
80-90	1196.69
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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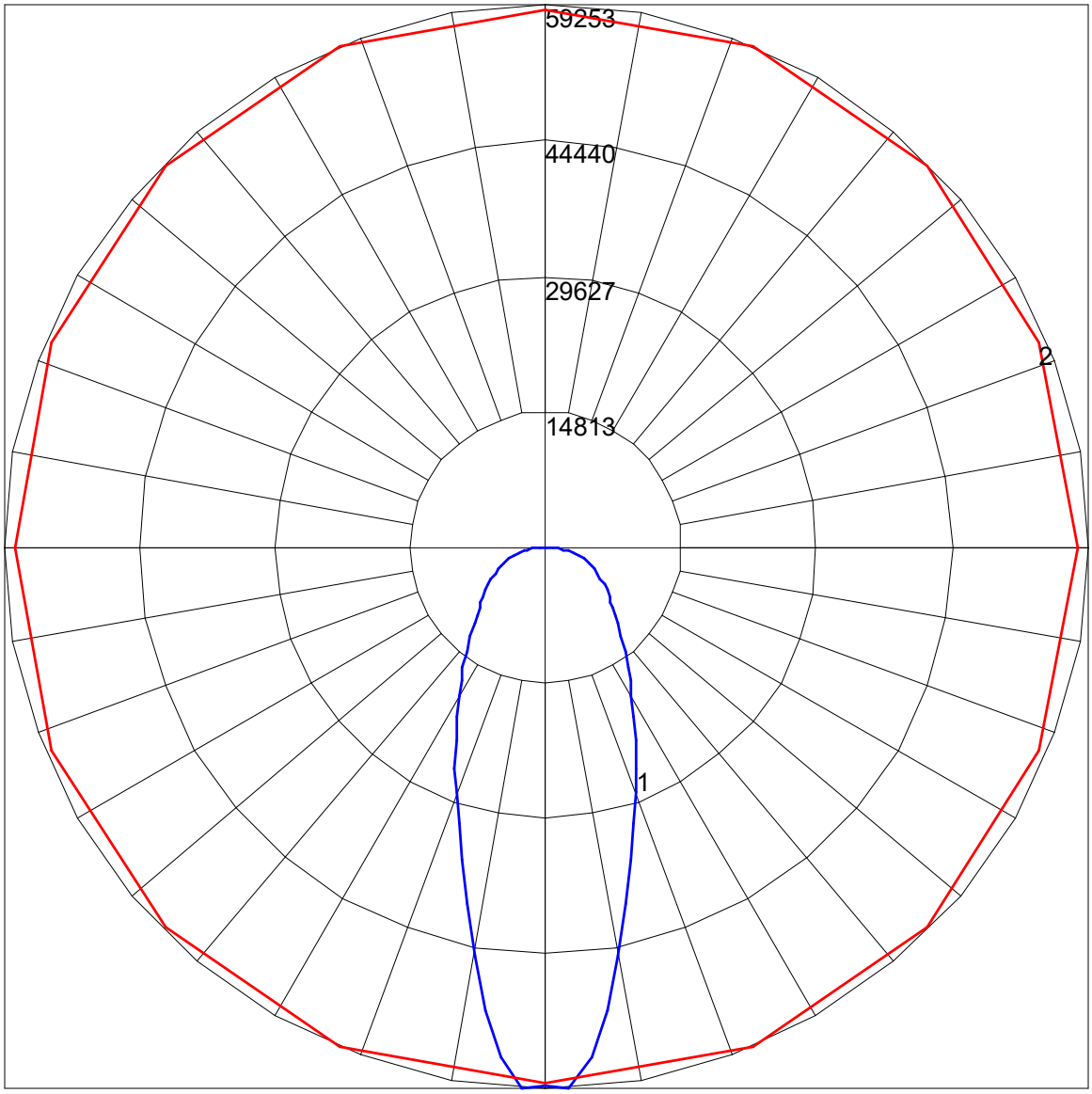
POLAR GRAPH



Maximum Candela = 59253 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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