IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-36L-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-02-LED-36L-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	33532
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	243
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)	2.28 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	68641	32477	24847
55	47404	26775	24060
65	28295	25457	23937
75	16260	23895	25120
85	10357	22440	31164

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	25237	25237	25237	25237	25237
2.5	24921	25066	25317	25413	25195
5.0	24971	24795	24513	24077	23660
7.5	24880	24208	22985	21933	21068
10.0	24725	23406	21021	19492	18586
12.5	24451	22412	19187	17194	16411
15.0	24109	21243	17384	15173	14435
17.5	23686	19973	15716	13559	12943
20.0	23194	18717	14181	12308	11761
22.5	22626	17426	12936	11200	10541
25.0	21837	16179	11907	10042	9360
27.5	20919	14963	10948	8944	8358
30.0	19537	13792	10008	8089	7670
32.5	18586	12643	9068	7432	7048
35.0	17459	11636	8189	6834	6341
37.5	16168	10718	7419	6162	5574
40.0	14790	9871	6768	5493	4986
42.5	13326	9059	6188	4931	4590
45.0	11937	8301	5648	4516	4321
47.5	10564	7566	5097	4192	4131
50.0	9213	6832	4617	3960	4003
52.5	7909	6137	4166	3806	3714
55.0	6687	5467	3777	3549	3394
57.5	5521	4797	3460	3237	3172
60.0	4535	4199	3204	2952	2947
62.5	3677	3642	2943	2710	2685
65.0	2941	3118	2646	2512	2488
67.5	2293	2650	2333	2335	2362
70.0	1781	2218	2067	2143	2184
72.5	1366	1811	1799	1884	1894
75.0	1035	1460	1521	1604	1599
77.5	755	1131	1230	1352	1335
80.0	540	842	960	1090	1094
82.5	364	585	710	853	879
85.0	222	363	481	624	668
87.5	103	170	246	342	396
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7355.32	N.A.	21.90
0-30	13529.82	N.A.	40.30
0-40	19552.35	N.A.	58.30
0-60	28703.25	N.A.	85.60
0-80	33018.6	N.A.	98.50
0-90	33531.89	N.A.	100.00
10-90	31301.82	N.A.	93.30
20-40	12197.03	N.A.	36.40
20-50	17347.47	N.A.	51.70
40-70	11894.28	N.A.	35.50
60-80	4315.35	N.A.	12.90
70-80	1571.97	N.A.	4.70
80-90	513.29	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	33531.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2230.07
10-20	5125.24
20-30	6174.5
30-40	6022.53
40-50	5150.44
50-60	4000.47
60-70	2743.38
70-80	1571.97
80-90	513.29
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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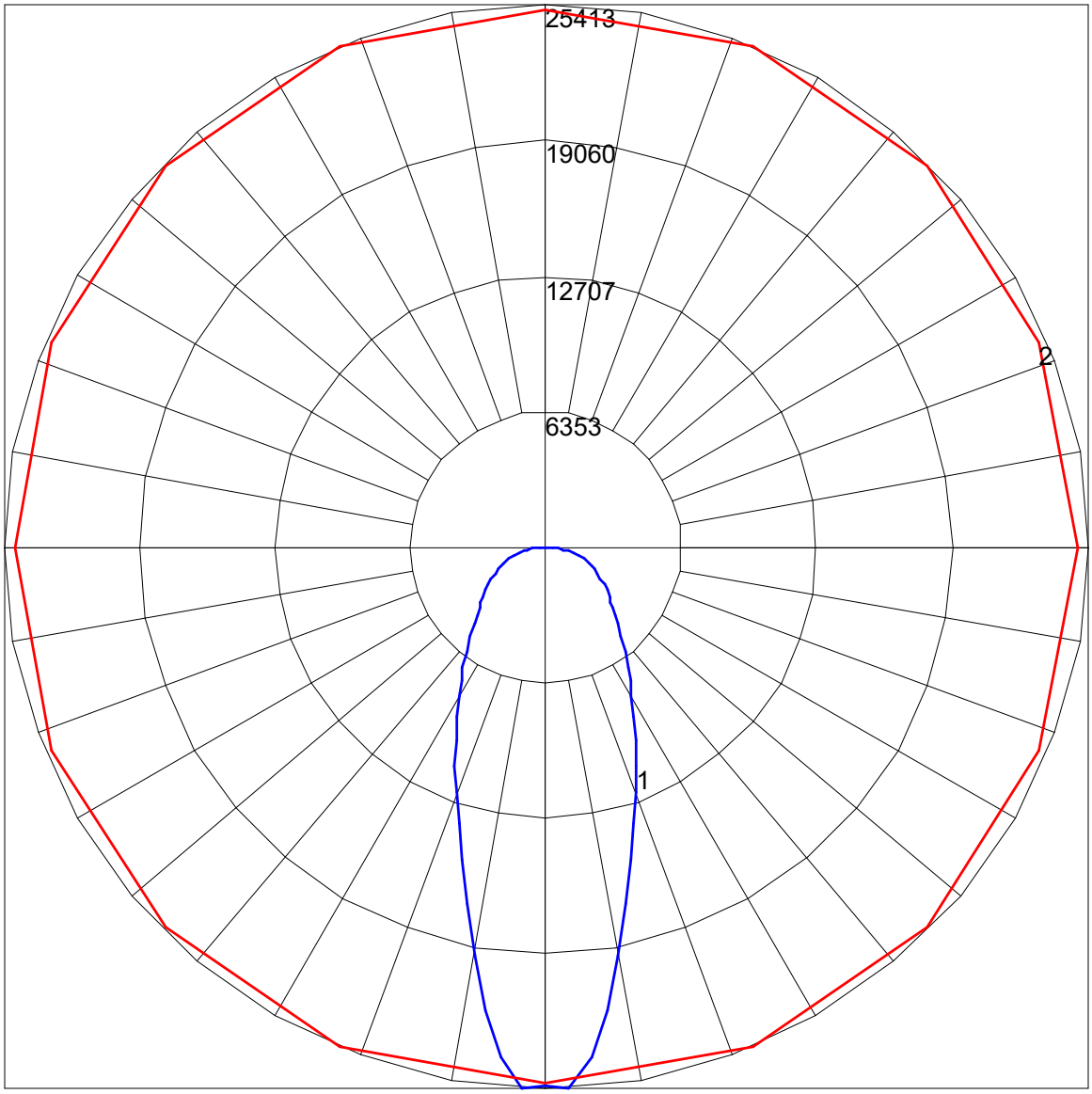
POLAR GRAPH



Maximum Candela = 25413 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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