IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-36L-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-02-LED-36L-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	34778
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	71194	33685	25773
55	49162	27767	24953
65	29344	26400	24822
75	16857	24790	26047
85	10730	23280	32330

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	26175	26175	26175	26175	26175
2.5	25847	25997	26258	26357	26131
5.0	25899	25716	25424	24972	24539
7.5	25805	25108	23839	22748	21851
10.0	25644	24276	21802	20216	19277
12.5	25360	23245	19900	17833	17021
15.0	25005	22032	18030	15737	14971
17.5	24566	20715	16300	14063	13424
20.0	24056	19412	14708	12765	12198
22.5	23467	18074	13417	11616	10933
25.0	22648	16780	12349	10415	9708
27.5	21696	15519	11355	9276	8669
30.0	20263	14304	10380	8390	7955
32.5	19277	13113	9405	7708	7310
35.0	18108	12068	8493	7088	6577
37.5	16769	11116	7695	6391	5781
40.0	15340	10238	7019	5697	5171
42.5	13821	9396	6418	5114	4761
45.0	12381	8609	5858	4684	4482
47.5	10957	7847	5286	4348	4285
50.0	9555	7086	4789	4107	4152
52.5	8203	6365	4321	3947	3852
55.0	6935	5670	3917	3681	3520
57.5	5726	4975	3589	3357	3290
60.0	4704	4355	3323	3062	3057
62.5	3814	3777	3052	2811	2785
65.0	3050	3234	2744	2605	2580
67.5	2378	2748	2420	2422	2450
70.0	1847	2300	2144	2223	2265
72.5	1417	1878	1866	1954	1964
75.0	1073	1514	1578	1664	1658
77.5	783	1173	1276	1402	1385
80.0	560	873	996	1131	1135
82.5	378	607	736	885	912
85.0	230	376	499	647	693
87.5	107	176	255	355	411
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7628.63	N.A.	21.90
0-30	14032.56	N.A.	40.30
0-40	20278.88	N.A.	58.30
0-60	29769.83	N.A.	85.60
0-80	34245.53	N.A.	98.50
0-90	34777.92	N.A.	100.00
10-90	32464.98	N.A.	93.30
20-40	12650.24	N.A.	36.40
20-50	17992.1	N.A.	51.70
40-70	12336.24	N.A.	35.50
60-80	4475.7	N.A.	12.90
70-80	1630.42	N.A.	4.70
80-90	532.39	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	34777.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2312.95
10-20	5315.69
20-30	6403.92
30-40	6246.32
40-50	5341.86
50-60	4149.09
60-70	2845.29
70-80	1630.42
80-90	532.39
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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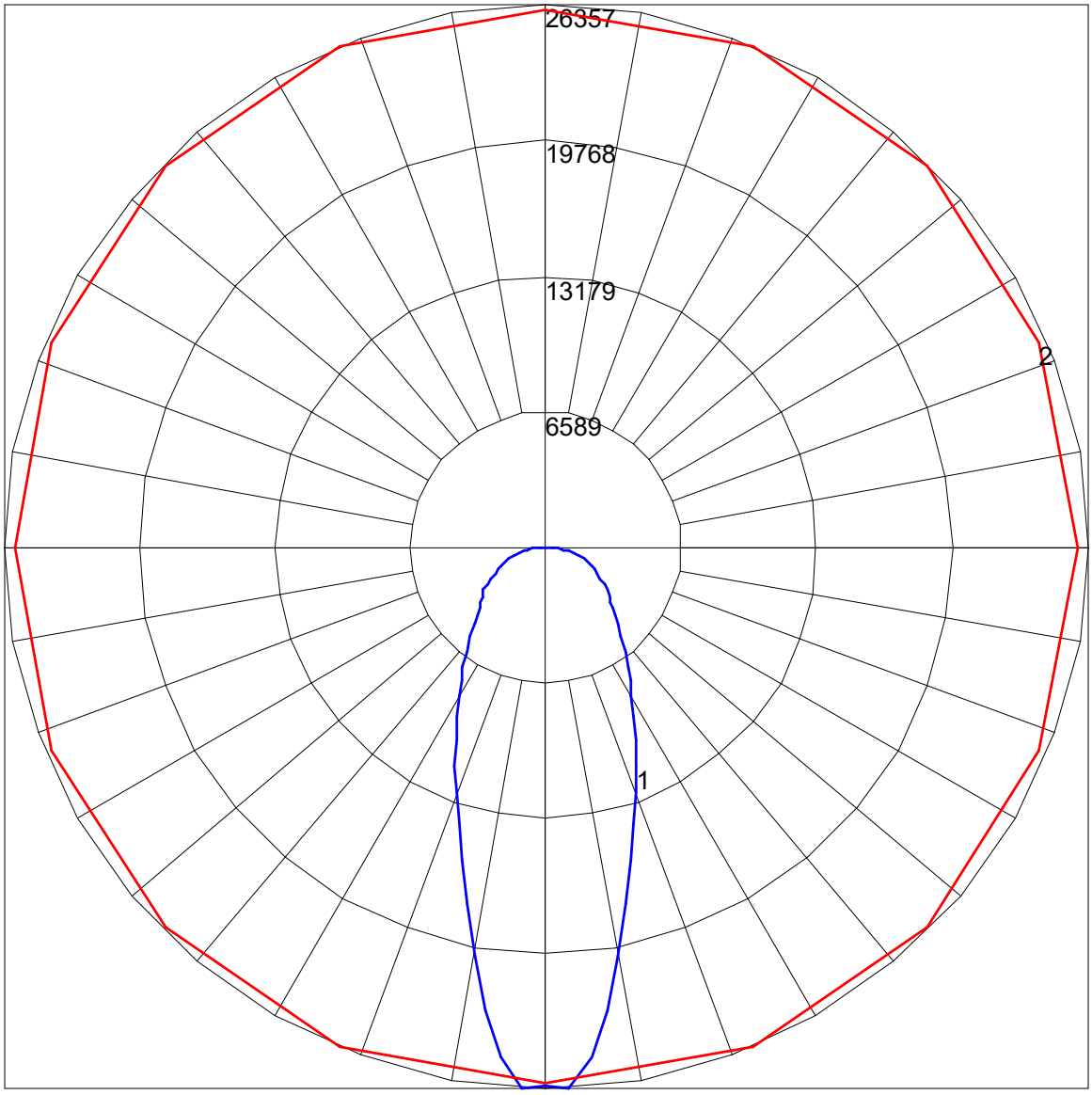
POLAR GRAPH



Maximum Candela = 26357 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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