IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-60L-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-60L-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	54194
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	367
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	110939	52482	40154
55	76610	43271	38883
65	45738	41140	38686
75	26283	38615	40594
85	16702	36202	50338

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	40789	40789	40789	40789	40789
2.5	40276	40511	40917	41072	40720
5.0	40357	40074	39617	38913	38238
7.5	40211	39124	37149	35448	34050
10.0	39960	37829	33974	31503	30039
12.5	39517	36222	31010	27789	26523
15.0	38964	34333	28095	24522	23329
17.5	38281	32279	25401	21915	20918
20.0	37485	30251	22919	19892	19008
22.5	36568	28164	20907	18102	17037
25.0	35292	26148	19243	16231	15127
27.5	33810	24182	17694	14455	13508
30.0	31576	22290	16175	13073	12397
32.5	30039	20433	14655	12012	11391
35.0	28217	18806	13234	11046	10247
37.5	26130	17323	11990	9960	9008
40.0	23903	15954	10939	8878	8059
42.5	21537	14641	10001	7969	7419
45.0	19293	13417	9127	7299	6983
47.5	17074	12228	8238	6774	6676
50.0	14891	11041	7462	6401	6469
52.5	12782	9919	6733	6151	6002
55.0	10807	8836	6104	5735	5485
57.5	8923	7753	5593	5232	5127
60.0	7329	6788	5178	4771	4762
62.5	5943	5886	4756	4380	4340
65.0	4754	5039	4276	4060	4021
67.5	3706	4282	3770	3775	3817
70.0	2879	3585	3341	3463	3529
72.5	2209	2928	2908	3044	3062
75.0	1673	2360	2458	2592	2584
77.5	1220	1828	1989	2185	2157
80.0	873	1362	1551	1763	1769
82.5	589	945	1148	1378	1421
85.0	358	587	776	1010	1079
87.5	167	275	397	552	640
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11887.58	N.A.	21.90
0-30	21866.73	N.A.	40.30
0-40	31600.31	N.A.	58.30
0-60	46389.93	N.A.	85.60
0-80	53364.56	N.A.	98.50
0-90	54194.15	N.A.	100.00
10-90	50589.92	N.A.	93.30
20-40	19712.73	N.A.	36.40
20-50	28036.8	N.A.	51.70
40-70	19223.42	N.A.	35.50
60-80	6974.63	N.A.	12.90
70-80	2540.83	N.A.	4.70
80-90	829.59	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	54194.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3604.22
10-20	8283.36
20-30	9979.15
30-40	9733.58
40-50	8324.07
50-60	6465.55
60-70	4433.8
70-80	2540.83
80-90	829.59
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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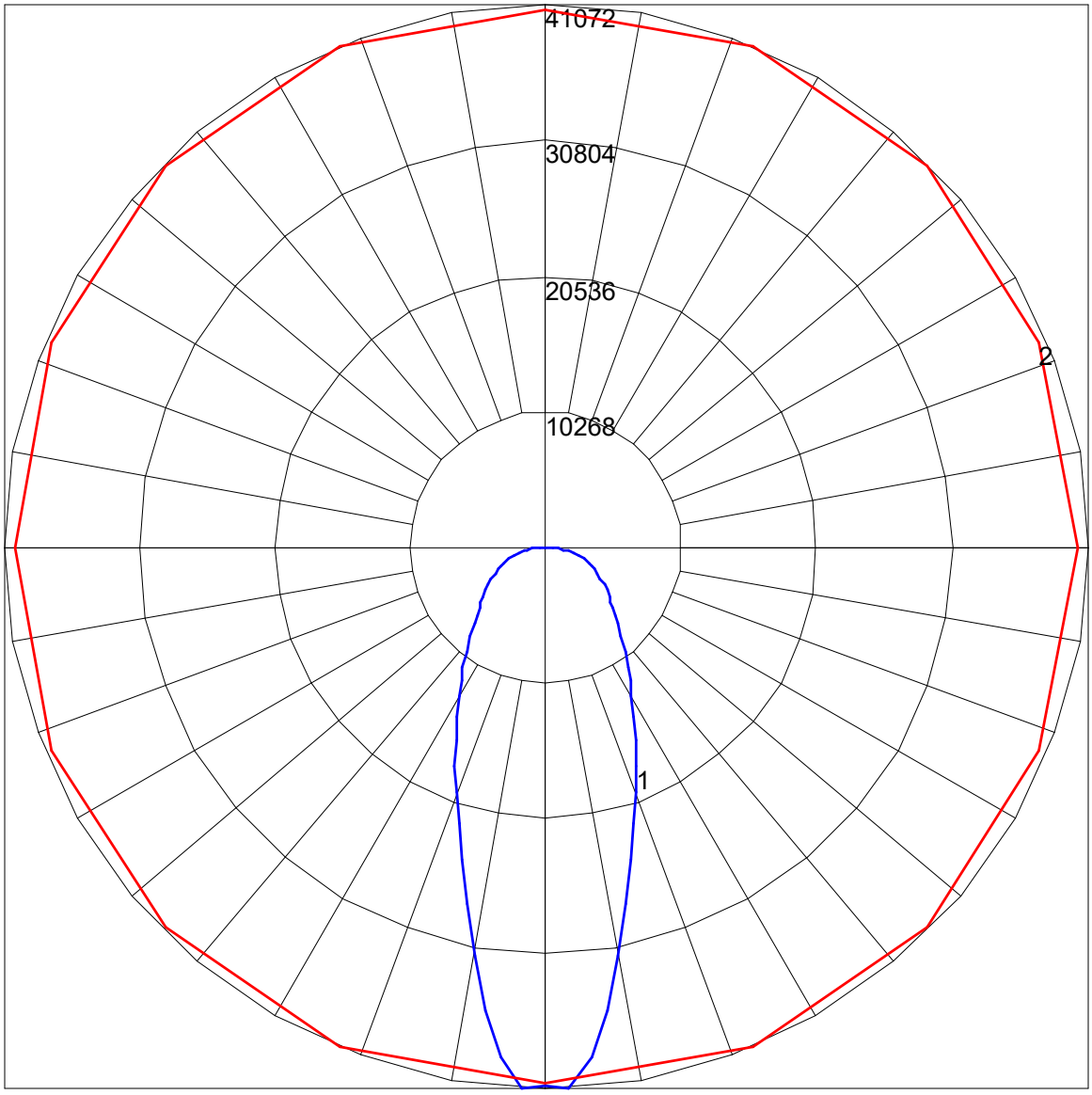
POLAR GRAPH



Maximum Candela = 41072 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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