IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-60L-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-60L-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	52976
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	371
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	108444	51304	39251
55	74887	42299	38011
65	44709	40216	37820
75	25686	37751	39683
85	16328	35409	49218

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	39872	39872	39872	39872	39872
2.5	39371	39601	39997	40149	39805
5.0	39450	39173	38727	38038	37379
7.5	39307	38245	36314	34651	33285
10.0	39062	36979	33210	30795	29364
12.5	38629	35408	30313	27164	25927
15.0	38088	33561	27464	23971	22805
17.5	37421	31554	24830	21422	20448
20.0	36643	29571	22404	19445	18581
22.5	35746	27531	20437	17695	16654
25.0	34499	25560	18811	15866	14787
27.5	33050	23639	17296	14130	13204
30.0	30866	21789	15811	12779	12118
32.5	29364	19974	14326	11742	11135
35.0	27583	18383	12937	10798	10017
37.5	25543	16934	11721	9736	8806
40.0	23366	15595	10693	8678	7878
42.5	21053	14312	9776	7790	7252
45.0	18859	13115	8922	7135	6826
47.5	16690	11953	8053	6622	6526
50.0	14556	10793	7294	6257	6324
52.5	12495	9696	6582	6013	5867
55.0	10564	8637	5967	5606	5362
57.5	8722	7579	5467	5114	5012
60.0	7164	6635	5062	4664	4655
62.5	5809	5754	4649	4282	4242
65.0	4647	4926	4180	3969	3931
67.5	3623	4186	3685	3690	3731
70.0	2814	3504	3266	3385	3450
72.5	2159	2862	2843	2976	2993
75.0	1635	2307	2403	2534	2526
77.5	1193	1787	1944	2136	2109
80.0	853	1331	1516	1723	1729
82.5	576	924	1122	1347	1389
85.0	350	574	759	987	1055
87.5	163	269	388	540	626
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11620.41	N.A.	21.90
0-30	21375.25	N.A.	40.30
0-40	30890.12	N.A.	58.30
0-60	45347.27	N.A.	85.60
0-80	52165.19	N.A.	98.50
0-90	52976.17	N.A.	100.00
10-90	49452.95	N.A.	93.30
20-40	19269.71	N.A.	36.40
20-50	27406.64	N.A.	51.70
40-70	18791.33	N.A.	35.50
60-80	6817.92	N.A.	12.90
70-80	2483.74	N.A.	4.70
80-90	810.98	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	52976.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3523.22
10-20	8097.19
20-30	9754.84
30-40	9514.87
40-50	8136.94
50-60	6320.22
60-70	4334.18
70-80	2483.74
80-90	810.98
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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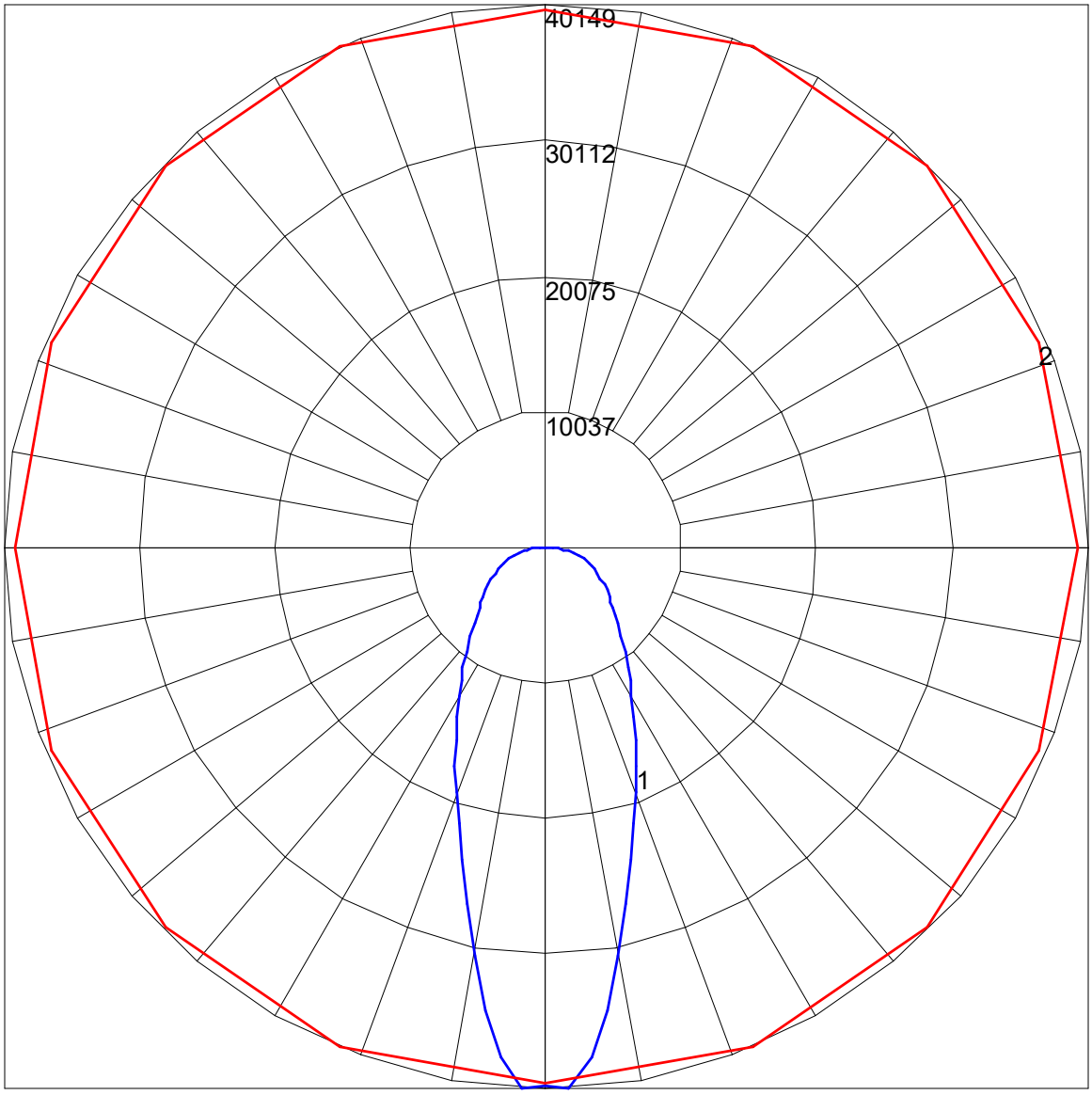
POLAR GRAPH



Maximum Candela = 40149 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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