IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-15L-CPN-40-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12302
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 04/05/2022
[TESTDATE] 11/10/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-01-LED-15L-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	14652
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	105
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.14 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	60814	28107	22311
55	41825	23819	21976
65	24630	22783	23629
75	13982	21837	24633
85	8864	21553	29484

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	10775	10775	10775	10775	10775
2.5	10627	10712	10806	10823	10804
5.0	10619	10586	10422	10203	10107
7.5	10581	10340	9761	9280	9043
10.0	10517	9994	9001	8270	7958
12.5	10428	9570	8197	7260	6937
15.0	10304	9089	7402	6483	6205
17.5	10145	8566	6681	5879	5641
20.0	9942	8009	6106	5374	5115
22.5	9698	7430	5616	4895	4652
25.0	9383	6871	5192	4482	4227
27.5	9026	6318	4788	4056	3738
30.0	8615	5827	4417	3599	3318
32.5	8123	5369	4061	3211	2990
35.0	7605	4954	3684	2910	2687
37.5	7051	4570	3306	2622	2401
40.0	6471	4214	2964	2359	2175
42.5	5883	3884	2685	2148	2045
45.0	5288	3573	2444	1990	1940
47.5	4691	3269	2219	1871	1822
50.0	4100	2957	2019	1751	1713
52.5	3494	2658	1840	1649	1619
55.0	2950	2370	1680	1550	1550
57.5	2427	2077	1535	1456	1492
60.0	1987	1822	1414	1366	1426
62.5	1605	1581	1300	1285	1332
65.0	1280	1363	1184	1206	1228
67.5	1006	1159	1063	1121	1137
70.0	780	974	943	1020	1030
72.5	589	798	823	899	907
75.0	445	637	695	781	784
77.5	331	499	568	664	654
80.0	229	370	448	532	535
82.5	154	256	331	417	431
85.0	95	164	231	300	316
87.5	43	76	117	154	181
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3143.16	N.A.	21.50
0-30	5821.5	N.A.	39.70
0-40	8431.92	N.A.	57.50
0-60	12441.58	N.A.	84.90
0-80	14412.29	N.A.	98.40
0-90	14651.91	N.A.	100.00
10-90	13701.95	N.A.	93.50
20-40	5288.76	N.A.	36.10
20-50	7536.37	N.A.	51.40
40-70	5254.69	N.A.	35.90
60-80	1970.71	N.A.	13.50
70-80	725.68	N.A.	5.00
80-90	239.62	N.A.	1.60
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	14651.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	949.96
10-20	2193.2
20-30	2678.34
30-40	2610.42
40-50	2247.61
50-60	1762.05
60-70	1245.03
70-80	725.68
80-90	239.62
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	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	54	46	41	65	53	46	40	52	45	40	51	44	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

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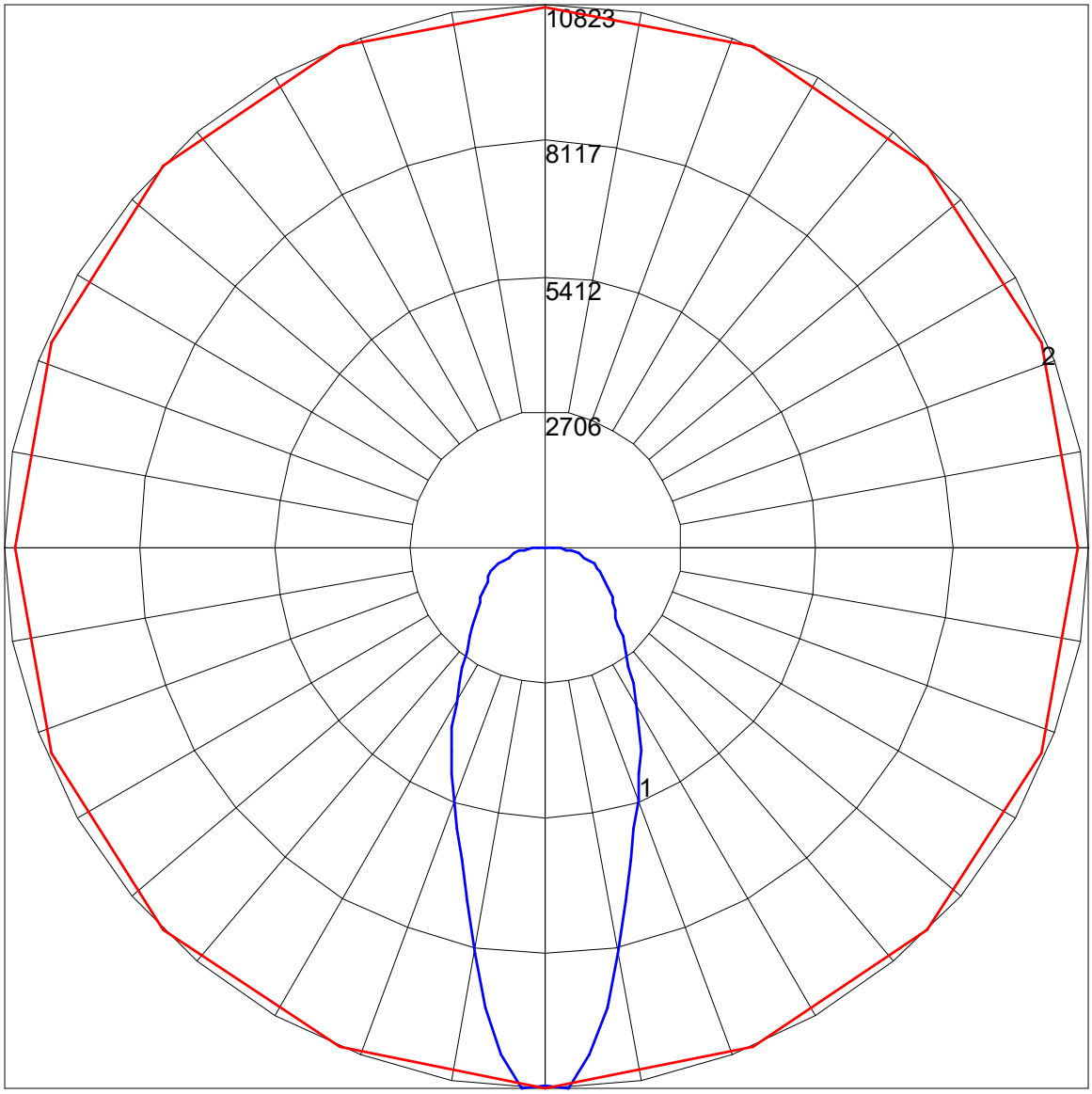
POLAR GRAPH



Maximum Candela = 10823 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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