IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-24L-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-24L-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	21363
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	162
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	88669	40988	32523
55	60965	34707	32042
65	35886	33212	34463
75	20391	31828	35881
85	12969	31444	42920

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	15712	15712	15712	15712	15712
2.5	15496	15619	15755	15781	15753
5.0	15484	15436	15197	14878	14738
7.5	15428	15077	14233	13533	13186
10.0	15336	14572	13126	12060	11604
12.5	15207	13954	11953	10585	10115
15.0	15026	13253	10793	9452	9047
17.5	14792	12490	9741	8571	8225
20.0	14498	11679	8903	7835	7458
22.5	14141	10834	8188	7137	6782
25.0	13683	10018	7570	6535	6163
27.5	13163	9211	6981	5913	5451
30.0	12561	8496	6441	5246	4837
32.5	11845	7827	5921	4681	4360
35.0	11089	7223	5371	4243	3919
37.5	10280	6662	4820	3822	3500
40.0	9435	6143	4321	3439	3171
42.5	8577	5662	3915	3132	2982
45.0	7710	5209	3564	2902	2828
47.5	6839	4767	3235	2728	2657
50.0	5978	4311	2944	2553	2499
52.5	5094	3876	2682	2405	2360
55.0	4300	3456	2448	2260	2260
57.5	3539	3029	2239	2123	2175
60.0	2898	2657	2062	1992	2079
62.5	2339	2306	1896	1875	1942
65.0	1865	1986	1726	1759	1791
67.5	1466	1690	1549	1635	1657
70.0	1136	1420	1376	1487	1501
72.5	859	1164	1200	1310	1323
75.0	649	928	1013	1138	1142
77.5	482	727	828	969	953
80.0	335	540	653	776	780
82.5	226	374	482	606	628
85.0	139	239	337	437	460
87.5	64	111	170	226	264
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4583.12	N.A.	21.50
0-30	8488.28	N.A.	39.70
0-40	12294.15	N.A.	57.50
0-60	18140.39	N.A.	84.90
0-80	21013.63	N.A.	98.40
0-90	21363.03	N.A.	100.00
10-90	19977.84	N.A.	93.50
20-40	7711.04	N.A.	36.10
20-50	10988.08	N.A.	51.40
40-70	7661.55	N.A.	35.90
60-80	2873.24	N.A.	13.40
70-80	1057.92	N.A.	5.00
80-90	349.41	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	21363.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1385.2
10-20	3197.92
20-30	3905.16
30-40	3805.87
40-50	3277.04
50-60	2569.19
60-70	1815.32
70-80	1057.92
80-90	349.41
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	45	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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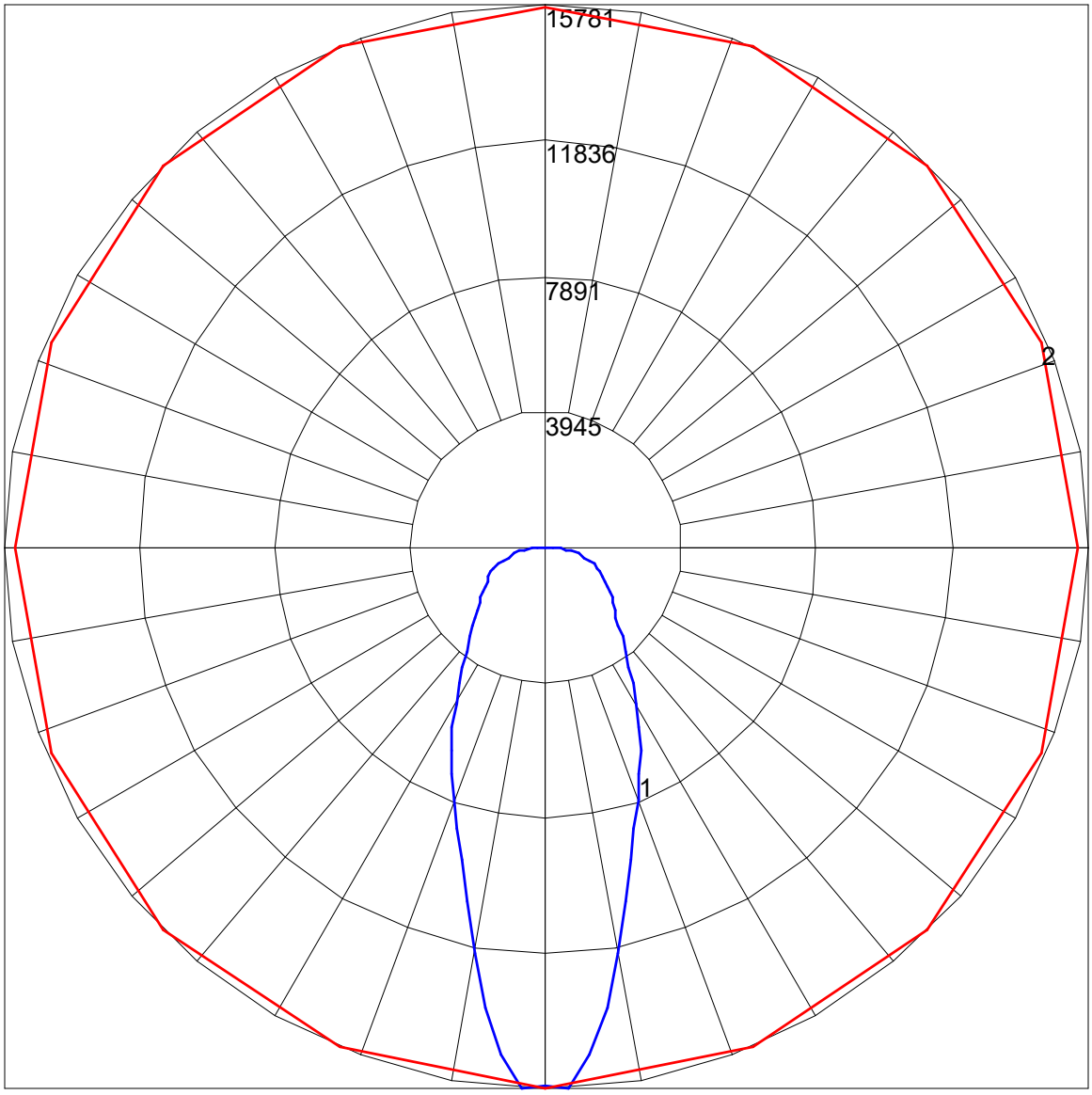
POLAR GRAPH



Maximum Candela = 15781 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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