IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-24L-CPN-50-80CRI.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-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	21491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	89198	41229	32719
55	61333	34920	32240
65	36098	33404	34674
75	20517	32017	36101
85	13063	31630	43200

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	15806	15806	15806	15806	15806
2.5	15589	15713	15849	15876	15847
5.0	15577	15528	15288	14967	14826
7.5	15520	15167	14318	13614	13265
10.0	15428	14659	13205	12132	11674
12.5	15298	14038	12025	10648	10176
15.0	15116	13332	10858	9509	9101
17.5	14881	12565	9799	8622	8274
20.0	14585	11749	8956	7882	7503
22.5	14226	10899	8237	7180	6823
25.0	13765	10078	7615	6574	6200
27.5	13242	9266	7023	5948	5484
30.0	12636	8547	6480	5277	4866
32.5	11916	7874	5956	4709	4386
35.0	11155	7266	5403	4268	3942
37.5	10342	6702	4849	3845	3521
40.0	9492	6180	4347	3460	3190
42.5	8628	5696	3938	3151	3000
45.0	7756	5240	3585	2919	2845
47.5	6880	4796	3254	2744	2673
50.0	6014	4337	2962	2568	2514
52.5	5125	3899	2698	2419	2374
55.0	4326	3477	2463	2274	2274
57.5	3560	3047	2252	2136	2188
60.0	2915	2673	2074	2004	2091
62.5	2353	2320	1907	1886	1954
65.0	1876	1998	1736	1770	1802
67.5	1475	1700	1558	1645	1667
70.0	1143	1429	1384	1496	1510
72.5	864	1171	1207	1318	1331
75.0	653	934	1019	1145	1149
77.5	485	731	833	975	959
80.0	337	543	657	781	785
82.5	227	376	485	610	632
85.0	140	240	339	440	463
87.5	64	112	171	227	266
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4610.57	N.A.	21.50
0-30	8539.12	N.A.	39.70
0-40	12367.77	N.A.	57.50
0-60	18249.00	N.A.	84.90
0-80	21139.53	N.A.	98.40
0-90	21491.06	N.A.	100.00
10-90	20097.58	N.A.	93.50
20-40	7757.2	N.A.	36.10
20-50	11053.83	N.A.	51.40
40-70	7707.43	N.A.	35.90
60-80	2890.52	N.A.	13.40
70-80	1064.33	N.A.	5.00
80-90	351.53	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	21491.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1393.48
10-20	3217.08
20-30	3928.56
30-40	3828.65
40-50	3296.63
50-60	2584.6
60-70	1826.19
70-80	1064.33
80-90	351.53
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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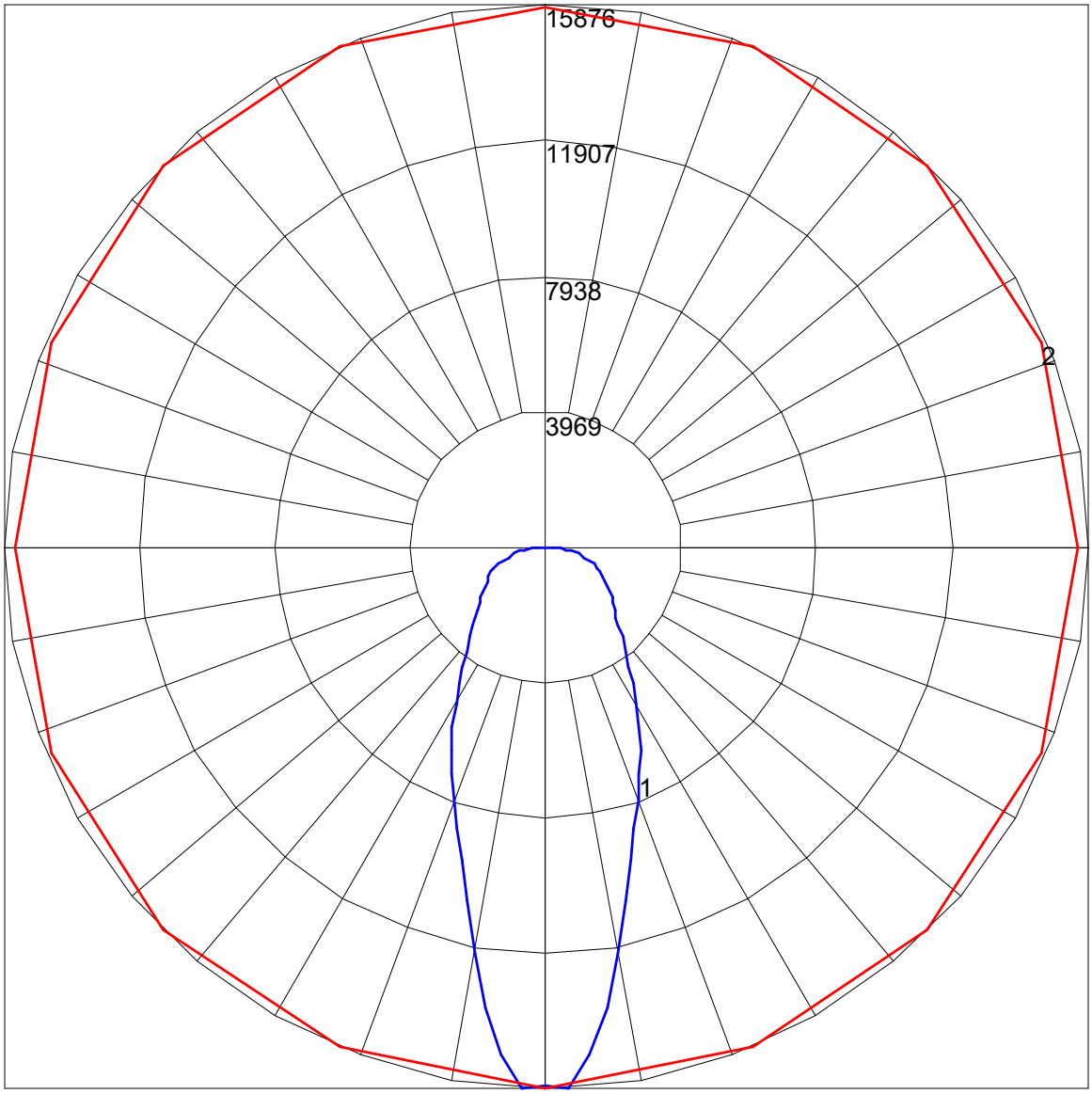
POLAR GRAPH



Maximum Candela = 15876 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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