IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-12L-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-12L-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	11501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	79
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	47738	22069	17515
55	32822	18686	17254
65	19319	17876	18569
75	10997	17155	19323
85	6998	16981	23140

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	8458	8458	8458	8458	8458
2.5	8342	8408	8482	8495	8481
5.0	8336	8310	8181	8009	7934
7.5	8306	8117	7662	7285	7098
10.0	8256	7845	7066	6493	6247
12.5	8186	7512	6435	5698	5445
15.0	8089	7135	5810	5088	4870
17.5	7963	6724	5244	4614	4428
20.0	7805	6287	4793	4218	4015
22.5	7613	5832	4408	3842	3651
25.0	7366	5393	4075	3518	3318
27.5	7086	4959	3758	3183	2934
30.0	6762	4574	3467	2824	2604
32.5	6376	4214	3187	2520	2347
35.0	5970	3888	2892	2284	2110
37.5	5534	3586	2595	2058	1885
40.0	5079	3307	2326	1851	1707
42.5	4617	3048	2107	1686	1606
45.0	4151	2804	1919	1562	1523
47.5	3682	2566	1741	1469	1430
50.0	3218	2321	1585	1374	1345
52.5	2742	2087	1444	1294	1271
55.0	2315	1861	1318	1217	1217
57.5	1905	1630	1205	1143	1171
60.0	1560	1430	1110	1072	1119
62.5	1259	1241	1021	1009	1045
65.0	1004	1069	929	947	965
67.5	789	910	834	881	892
70.0	612	764	741	801	808
72.5	463	626	646	705	713
75.0	350	500	546	613	615
77.5	259	391	446	522	513
80.0	180	290	352	418	420
82.5	121	201	259	327	338
85.0	75	129	182	235	248
87.5	34	60	91	121	142
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2467.27	N.A.	21.50
0-30	4569.54	N.A.	39.70
0-40	6618.39	N.A.	57.50
0-60	9765.57	N.A.	84.90
0-80	11312.49	N.A.	98.40
0-90	11500.53	N.A.	100.00
10-90	10754.83	N.A.	93.50
20-40	4151.12	N.A.	36.10
20-50	5915.23	N.A.	51.40
40-70	4124.46	N.A.	35.90
60-80	1546.91	N.A.	13.50
70-80	569.64	N.A.	5.00
80-90	188.05	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	11500.53	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	745.71
10-20	1721.56
20-30	2102.27
30-40	2048.85
40-50	1764.11
50-60	1383.08
60-70	977.27
70-80	569.64
80-90	188.05
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	60	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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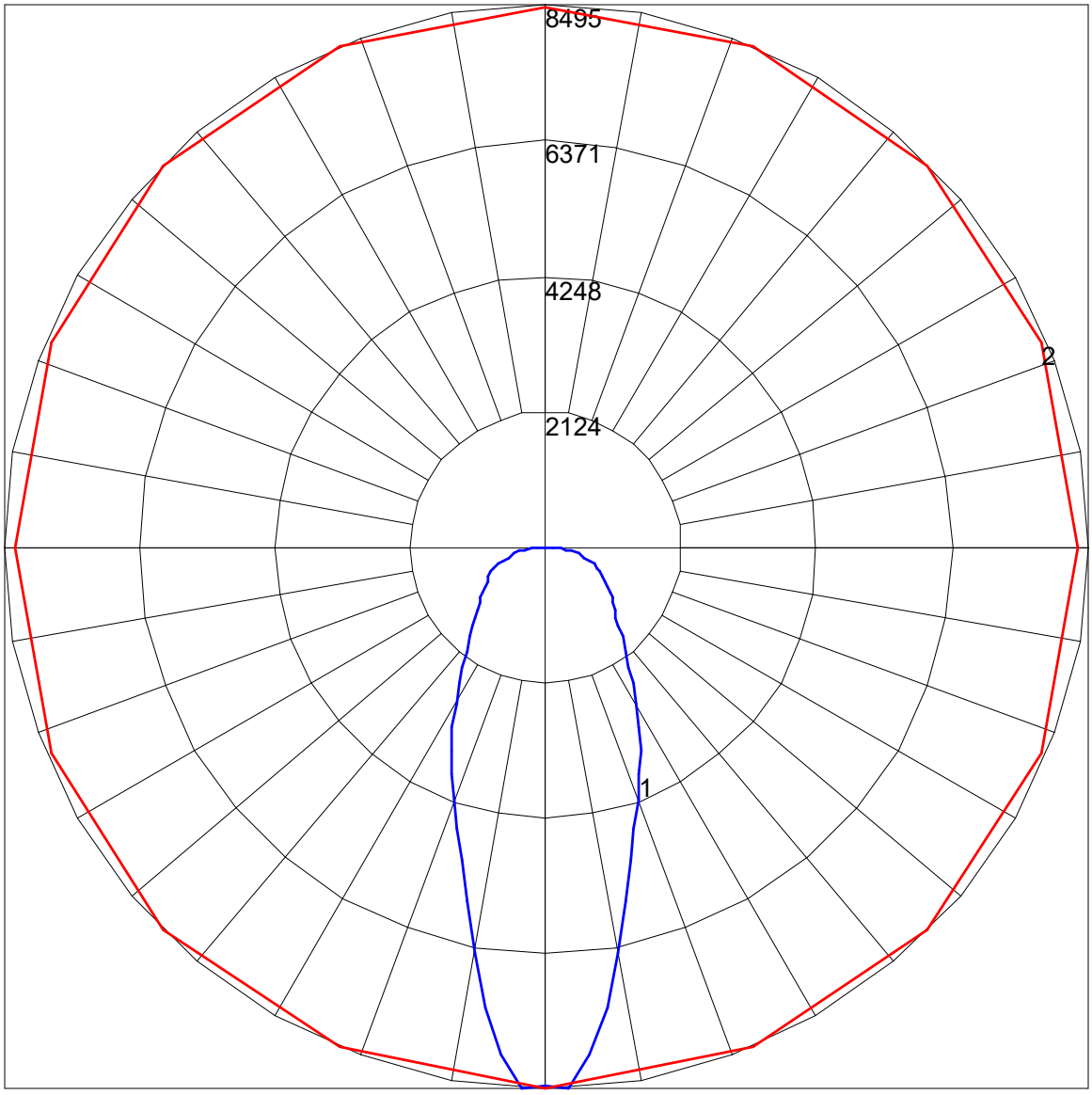
POLAR GRAPH



Maximum Candela = 8495 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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