IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-01-LED-15L-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-15L-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	15196
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	63069	29154	23139
55	43384	24698	22798
65	25553	23629	24514
75	14516	22654	25544
85	9237	22393	30604

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	11175	11175	11175	11175	11175
2.5	11022	11110	11207	11225	11205
5.0	11013	10979	10809	10582	10482
7.5	10974	10724	10123	9625	9379
10.0	10907	10365	9335	8577	8253
12.5	10815	9925	8501	7530	7195
15.0	10687	9426	7677	6724	6435
17.5	10522	8884	6929	6097	5850
20.0	10311	8306	6333	5574	5305
22.5	10058	7706	5825	5077	4825
25.0	9731	7126	5385	4648	4384
27.5	9361	6553	4966	4207	3877
30.0	8935	6043	4581	3733	3441
32.5	8425	5568	4212	3330	3101
35.0	7887	5138	3821	3018	2787
37.5	7313	4740	3429	2719	2490
40.0	6711	4370	3074	2447	2256
42.5	6101	4028	2785	2228	2121
45.0	5484	3706	2535	2064	2012
47.5	4865	3390	2301	1940	1890
50.0	4252	3067	2094	1816	1777
52.5	3624	2757	1908	1710	1679
55.0	3060	2458	1742	1608	1608
57.5	2517	2154	1592	1510	1547
60.0	2061	1890	1466	1417	1479
62.5	1665	1640	1348	1333	1381
65.0	1328	1414	1228	1251	1274
67.5	1043	1202	1102	1163	1179
70.0	809	1010	978	1058	1068
72.5	611	828	854	932	941
75.0	462	661	721	810	813
77.5	343	518	589	689	678
80.0	238	384	465	552	555
82.5	160	266	343	432	447
85.0	99	170	240	311	328
87.5	45	79	121	160	188
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3259.85	N.A.	21.50
0-30	6037.68	N.A.	39.70
0-40	8745.04	N.A.	57.50
0-60	12903.57	N.A.	84.90
0-80	14947.67	N.A.	98.40
0-90	15196.28	N.A.	100.00
10-90	14211.05	N.A.	93.50
20-40	5485.18	N.A.	36.10
20-50	7816.23	N.A.	51.40
40-70	5449.85	N.A.	35.90
60-80	2044.1	N.A.	13.50
70-80	752.78	N.A.	5.00
80-90	248.61	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	15196.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	985.23
10-20	2274.62
20-30	2777.83
30-40	2707.35
40-50	2331.05
50-60	1827.48
60-70	1291.32
70-80	752.78
80-90	248.61
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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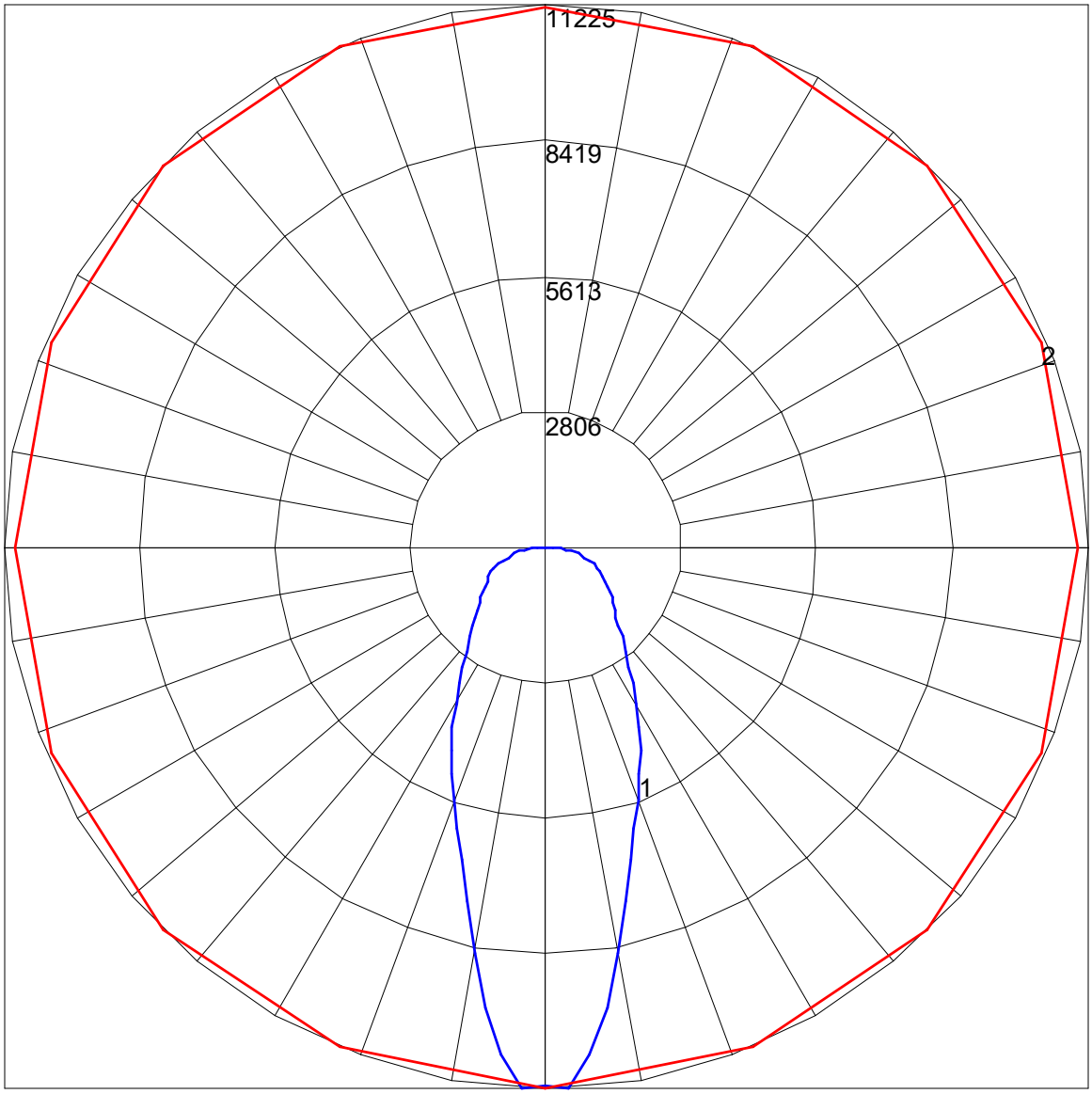
POLAR GRAPH



Maximum Candela = 11225 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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