IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-30L-CPN-40-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12304
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 04/05/2022
[TESTDATE] 11/10/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-02-LED-30L-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	25400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	177
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.28 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	51994	24599	18821
55	35905	20281	18226
65	21436	19281	18136
75	12317	18098	19025
85	7838	16981	23606

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	19117	19117	19117	19117	19117
2.5	18877	18987	19177	19250	19085
5.0	18915	18782	18568	18238	17922
7.5	18846	18337	17411	16614	15959
10.0	18729	17730	15923	14765	14079
12.5	18521	16977	14534	13024	12431
15.0	18262	16091	13168	11493	10934
17.5	17942	15129	11905	10271	9804
20.0	17569	14178	10742	9323	8909
22.5	17139	13200	9799	8484	7985
25.0	16541	12255	9019	7607	7090
27.5	15846	11334	8293	6775	6331
30.0	14799	10447	7581	6127	5810
32.5	14079	9577	6869	5630	5339
35.0	13225	8814	6203	5177	4803
37.5	12247	8119	5620	4668	4222
40.0	11203	7477	5127	4161	3777
42.5	10094	6862	4687	3735	3477
45.0	9042	6288	4278	3421	3273
47.5	8002	5731	3861	3175	3129
50.0	6979	5175	3497	3000	3032
52.5	5991	4649	3156	2883	2813
55.0	5065	4141	2861	2688	2571
57.5	4182	3634	2621	2452	2403
60.0	3435	3181	2427	2236	2232
62.5	2785	2759	2229	2053	2034
65.0	2228	2362	2004	1903	1885
67.5	1737	2007	1767	1769	1789
70.0	1349	1680	1566	1623	1654
72.5	1035	1372	1363	1427	1435
75.0	784	1106	1152	1215	1211
77.5	572	857	932	1024	1011
80.0	409	638	727	826	829
82.5	276	443	538	646	666
85.0	168	275	364	473	506
87.5	78	129	186	259	300
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5571.54	N.A.	21.90
0-30	10248.63	N.A.	40.30
0-40	14810.68	N.A.	58.30
0-60	21742.32	N.A.	85.60
0-80	25011.2	N.A.	98.50
0-90	25400.02	N.A.	100.00
10-90	23710.77	N.A.	93.30
20-40	9239.14	N.A.	36.40
20-50	13140.46	N.A.	51.70
40-70	9009.71	N.A.	35.50
60-80	3268.88	N.A.	12.90
70-80	1190.81	N.A.	4.70
80-90	388.82	N.A.	1.50
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	25400.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1689.25
10-20	3882.29
20-30	4677.09
30-40	4562.05
40-50	3901.33
50-60	3030.32
60-70	2078.07
70-80	1190.81
80-90	388.82
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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	93	87	82	89	84	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	69	63	85	75	68	62	73	66	61	71	65	61	68	64	60	58
5	81	69	61	56	79	68	61	55	66	60	55	64	59	54	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	41	50	44	40	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

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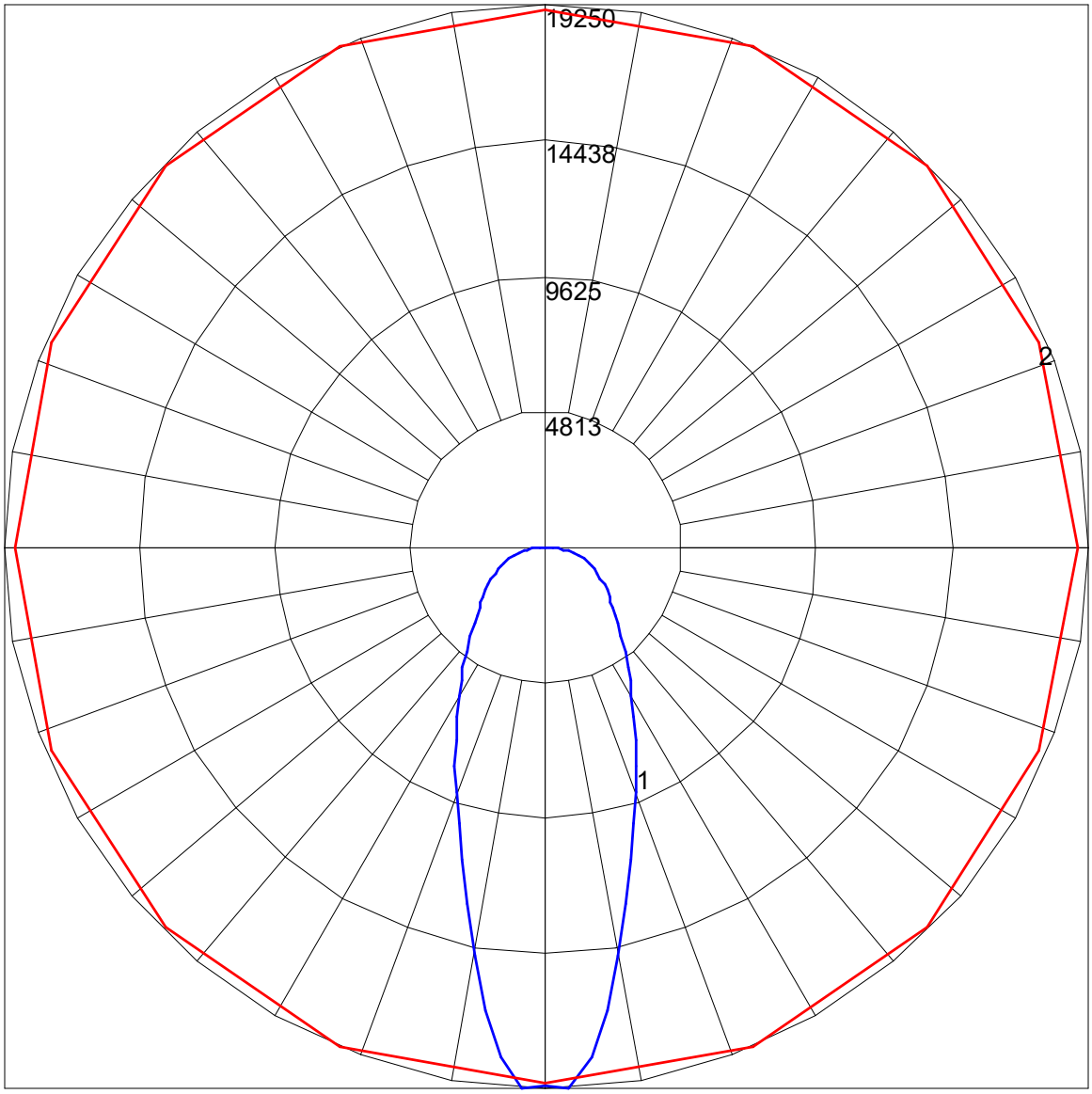
POLAR GRAPH



Maximum Candela = 19250 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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