IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-48L-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-48L-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	42726
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	323
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	87461	41379	31661
55	60397	34119	30660
65	36060	32433	30508
75	20721	30446	32001
85	13203	28551	39701

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	32157	32157	32157	32157	32157
2.5	31753	31939	32258	32381	32103
5.0	31817	31594	31234	30679	30147
7.5	31701	30845	29287	27947	26845
10.0	31505	29824	26784	24837	23683
12.5	31155	28557	24448	21908	20911
15.0	30719	27067	22150	19333	18392
17.5	30181	25449	20026	17277	16492
20.0	29553	23849	18069	15682	14986
22.5	28830	22204	16483	14271	13432
25.0	27824	20614	15171	12796	11926
27.5	26655	19065	13950	11396	10650
30.0	24894	17573	12752	10306	9773
32.5	23683	16110	11555	9470	8981
35.0	22246	14826	10434	8708	8079
37.5	20601	13657	9454	7852	7102
40.0	18845	12577	8624	6999	6353
42.5	16979	11543	7884	6283	5849
45.0	15210	10577	7196	5755	5506
47.5	13460	9640	6495	5341	5263
50.0	11740	8705	5882	5046	5100
52.5	10078	7820	5309	4850	4732
55.0	8520	6966	4813	4522	4325
57.5	7035	6113	4409	4125	4042
60.0	5778	5351	4083	3761	3755
62.5	4685	4641	3749	3453	3421
65.0	3748	3973	3371	3201	3171
67.5	2922	3376	2972	2976	3009
70.0	2269	2826	2634	2730	2782
72.5	1741	2308	2293	2400	2414
75.0	1319	1860	1938	2044	2037
77.5	962	1442	1568	1722	1701
80.0	688	1073	1223	1389	1394
82.5	464	745	905	1087	1120
85.0	283	463	612	796	851
87.5	131	217	313	436	505
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	9372.03	N.A.	21.90
0-30	17239.43	N.A.	40.30
0-40	24913.32	N.A.	58.30
0-60	36573.38	N.A.	85.60
0-80	42071.96	N.A.	98.50
0-90	42726.05	N.A.	100.00
10-90	39884.52	N.A.	93.30
20-40	15541.29	N.A.	36.40
20-50	22103.8	N.A.	51.70
40-70	15155.56	N.A.	35.50
60-80	5498.58	N.A.	12.90
70-80	2003.07	N.A.	4.70
80-90	654.09	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	42726.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2841.53
10-20	6530.5
20-30	7867.39
30-40	7673.9
40-50	6562.52
50-60	5097.54
60-70	3495.51
70-80	2003.07
80-90	654.09
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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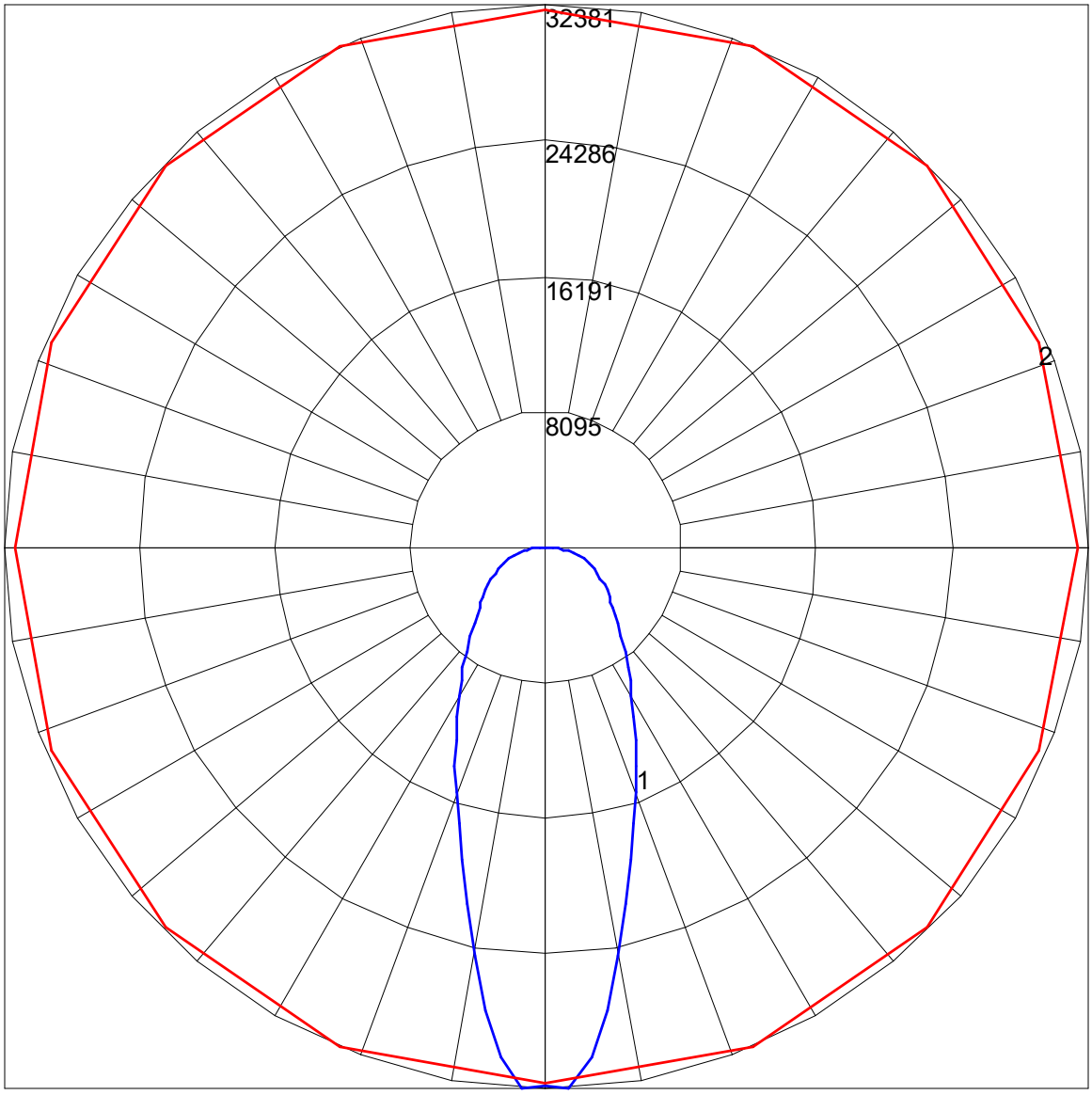
POLAR GRAPH



Maximum Candela = 32381 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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