IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-48L-CPN-50-80CRI.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-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	42982
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	324
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	87984	41626	31851
55	60759	34324	30844
65	36271	32625	30691
75	20847	30634	32190
85	13296	28738	39934

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	32350	32350	32350	32350	32350
2.5	31943	32130	32451	32575	32295
5.0	32008	31783	31421	30863	30328
7.5	31891	31030	29462	28114	27006
10.0	31694	30003	26944	24986	23825
12.5	31342	28728	24594	22039	21036
15.0	30903	27229	22283	19449	18502
17.5	30362	25601	20146	17381	16591
20.0	29730	23992	18177	15776	15076
22.5	29003	22337	16582	14357	13512
25.0	27991	20738	15262	12873	11997
27.5	26815	19179	14034	11464	10714
30.0	25043	17678	12828	10368	9832
32.5	23825	16207	11624	9527	9035
35.0	22379	14915	10497	8760	8127
37.5	20724	13739	9511	7899	7145
40.0	18958	12652	8676	7041	6391
42.5	17081	11612	7931	6321	5884
45.0	15301	10640	7239	5789	5539
47.5	13541	9698	6534	5373	5295
50.0	11810	8757	5917	5076	5131
52.5	10138	7867	5341	4879	4760
55.0	8571	7008	4842	4549	4351
57.5	7077	6150	4435	4150	4066
60.0	5813	5383	4107	3784	3777
62.5	4713	4669	3771	3474	3441
65.0	3770	3997	3391	3220	3190
67.5	2940	3396	2990	2994	3027
70.0	2283	2843	2650	2746	2799
72.5	1751	2322	2307	2414	2428
75.0	1327	1871	1950	2056	2049
77.5	968	1451	1577	1732	1711
80.0	692	1079	1230	1397	1402
82.5	467	749	910	1094	1127
85.0	285	466	616	801	856
87.5	132	218	315	439	508
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	9428.18	N.A.	21.90
0-30	17342.74	N.A.	40.30
0-40	25062.66	N.A.	58.30
0-60	36792.56	N.A.	85.60
0-80	42323.99	N.A.	98.50
0-90	42982.02	N.A.	100.00
10-90	40123.47	N.A.	93.30
20-40	15634.49	N.A.	36.40
20-50	22236.3	N.A.	51.70
40-70	15246.33	N.A.	35.50
60-80	5531.43	N.A.	12.90
70-80	2014.99	N.A.	4.70
80-90	658.04	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	42982.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2858.55
10-20	6569.63
20-30	7914.57
30-40	7719.92
40-50	6601.81
50-60	5128.08
60-70	3516.44
70-80	2014.99
80-90	658.04
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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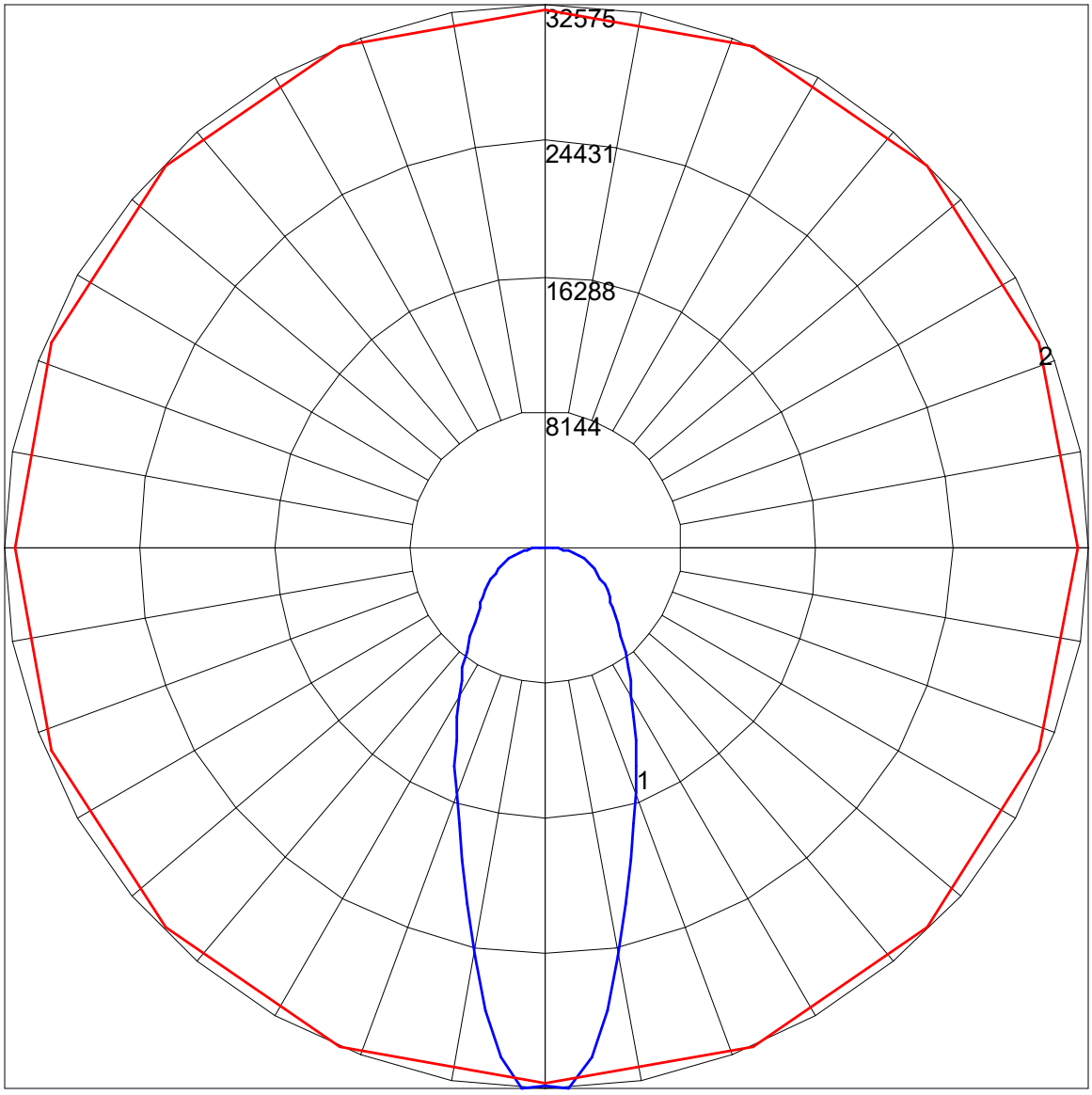
POLAR GRAPH



Maximum Candela = 32575 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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