IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-02-LED-30L-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-30L-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	25552
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	52304	24749	18936
55	36118	20402	18332
65	21561	19396	18241
75	12395	18208	19135
85	7884	17075	23746

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0.0	19231	19231	19231	19231	19231
2.5	18990	19101	19292	19365	19199
5.0	19028	18894	18679	18347	18029
7.5	18959	18447	17515	16713	16055
10.0	18841	17836	16018	14853	14163
12.5	18632	17079	14621	13102	12505
15.0	18371	16187	13247	11562	10999
17.5	18049	15220	11976	10332	9863
20.0	17674	14263	10806	9379	8962
22.5	17242	13279	9858	8535	8033
25.0	16640	12328	9073	7653	7132
27.5	15941	11402	8343	6816	6369
30.0	14888	10510	7626	6164	5845
32.5	14163	9634	6910	5664	5371
35.0	13304	8867	6240	5208	4832
37.5	12320	8168	5654	4696	4247
40.0	11270	7522	5158	4186	3800
42.5	10154	6903	4715	3757	3498
45.0	9096	6326	4304	3441	3293
47.5	8050	5765	3884	3194	3148
50.0	7021	5206	3518	3018	3050
52.5	6027	4677	3175	2900	2830
55.0	5095	4166	2878	2704	2586
57.5	4207	3656	2637	2467	2417
60.0	3456	3200	2442	2249	2245
62.5	2802	2776	2242	2065	2046
65.0	2241	2376	2016	1914	1896
67.5	1747	2019	1778	1780	1800
70.0	1357	1690	1575	1633	1664
72.5	1041	1380	1371	1436	1444
75.0	789	1113	1159	1222	1218
77.5	575	862	938	1030	1017
80.0	411	642	731	831	834
82.5	278	446	541	650	670
85.0	169	277	366	476	509
87.5	78	130	187	261	302
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5604.86	N.A.	21.90
0-30	10310.01	N.A.	40.30
0-40	14899.42	N.A.	58.30
0-60	21872.59	N.A.	85.60
0-80	25161.03	N.A.	98.50
0-90	25552.25	N.A.	100.00
10-90	23852.9	N.A.	93.30
20-40	9294.55	N.A.	36.40
20-50	13219.24	N.A.	51.70
40-70	9063.67	N.A.	35.50
60-80	3288.44	N.A.	12.90
70-80	1197.94	N.A.	4.70
80-90	391.22	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	25552.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1699.35
10-20	3905.51
20-30	4705.15
30-40	4589.41
40-50	3924.68
50-60	3048.49
60-70	2090.5
70-80	1197.94
80-90	391.22
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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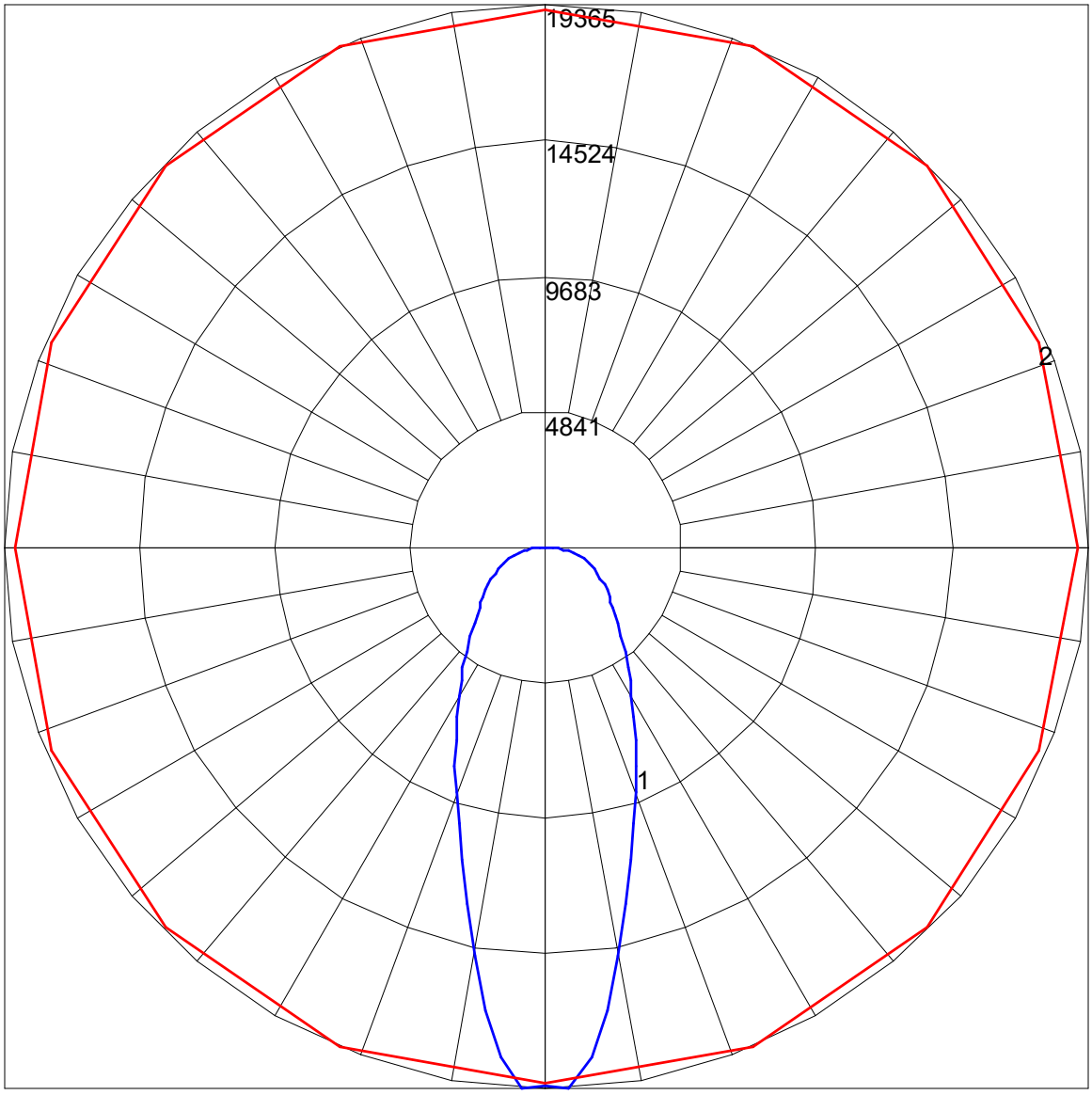
POLAR GRAPH



Maximum Candela = 19365 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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