IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-72L-CPW-50-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3829
[TESTLAB] TUV SUD America
[TESTDATE] 1/27/2020 2:14:46 PM
[ISSUEDATE] 04/05/2022
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-03-LED-72L-CPW-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	74978
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	496
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.42 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	72924	68129	72652
55	67609	67694	66896
65	48022	56649	55545
75	38479	35861	34509
85	28271	22891	11632

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	27278	27278	27278	27278	27278	27278	27278	27278	27278	27278
2.5	27090	27234	27307	27226	27442	27222	27315	27257	27131	27257
5.0	26994	27150	27220	27137	27366	27144	27234	27176	27068	27176
7.5	26845	27027	27080	27001	27229	27011	27108	27051	26948	27051
10.0	26640	26842	26902	26828	27035	26833	26925	26865	26782	26865
12.5	26358	26583	26664	26583	26813	26593	26701	26612	26534	26612
15.0	25975	26265	26382	26307	26525	26314	26405	26273	26192	26273
17.5	25507	25842	26038	25964	26192	25991	26048	25823	25740	25823
20.0	24927	25319	25622	25583	25798	25598	25614	25275	25184	25275
22.5	24199	24676	25099	25147	25348	25160	25074	24622	24536	24622
25.0	23682	23971	24483	24646	24825	24646	24434	23961	23836	23961
27.5	22951	23376	23935	24076	24267	24170	23844	23335	23259	23335
30.0	22167	22577	23230	23700	23831	23671	23175	22553	22522	22553
32.5	21545	21799	22389	23021	23235	23000	22318	21823	21846	21823
35.0	20958	21060	21472	22259	22514	22224	21428	21136	21271	21136
37.5	20529	20404	20527	21423	21723	21371	20508	20529	20853	20529
40.0	20133	19848	19585	20495	20859	20451	19592	20041	20519	20041
42.5	19647	19331	18651	19503	19932	19461	18725	19579	20104	19579
45.0	19023	18746	17772	18416	18952	18382	17895	18996	19534	18996
47.5	18267	18074	16941	17260	17878	17228	17117	18328	18879	18328
50.0	17278	17267	16116	16032	16675	15988	16327	17511	18035	17511
52.5	15897	16244	15239	14701	15424	14693	15471	16437	16894	16437
55.0	14306	14935	14324	13338	14155	13316	14536	15102	15398	15102
57.5	12648	13397	13230	11990	12846	12013	13436	13561	13695	13561
60.0	10922	11697	11929	10707	11528	10755	12105	11836	11953	11836
62.5	9080	9924	10425	9412	10099	9483	10559	10073	10193	10073
65.0	7487	8250	8832	8150	8660	8263	8877	8344	8548	8344
67.5	6205	6725	7216	6923	7226	7028	7292	6858	7101	6858
70.0	5362	5542	5675	5733	5848	5805	5803	5672	5934	5672
72.5	4601	4691	4398	4528	4510	4572	4510	4816	5137	4816
75.0	3674	3845	3424	3369	3295	3416	3525	3990	4280	3990
77.5	2656	2946	2669	2361	2217	2395	2766	3079	3351	3079
80.0	1898	2040	1935	1561	1360	1590	2016	2155	2402	2155
82.5	1460	1460	1235	976	753	1008	1314	1526	1761	1526
85.0	909	976	736	525	374	562	788	1052	1343	1052
87.5	303	386	274	196	154	217	332	475	747	475
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	27278	27278	27278	27278	27278	27278	27278
2.5	27315	27222	27442	27226	27307	27234	27090
5.0	27234	27144	27366	27137	27220	27150	26994
7.5	27108	27011	27229	27001	27080	27027	26845
10.0	26925	26833	27035	26828	26902	26842	26640
12.5	26701	26593	26813	26583	26664	26583	26358
15.0	26405	26314	26525	26307	26382	26265	25975
17.5	26048	25991	26192	25964	26038	25842	25507
20.0	25614	25598	25798	25583	25622	25319	24927
22.5	25074	25160	25348	25147	25099	24676	24199
25.0	24434	24646	24825	24646	24483	23971	23682
27.5	23844	24170	24267	24076	23935	23376	22951
30.0	23175	23671	23831	23700	23230	22577	22167
32.5	22318	23000	23235	23021	22389	21799	21545
35.0	21428	22224	22514	22259	21472	21060	20958
37.5	20508	21371	21723	21423	20527	20404	20529
40.0	19592	20451	20859	20495	19585	19848	20133
42.5	18725	19461	19932	19503	18651	19331	19647
45.0	17895	18382	18952	18416	17772	18746	19023
47.5	17117	17228	17878	17260	16941	18074	18267
50.0	16327	15988	16675	16032	16116	17267	17278
52.5	15471	14693	15424	14701	15239	16244	15897
55.0	14536	13316	14155	13338	14324	14935	14306
57.5	13436	12013	12846	11990	13230	13397	12648
60.0	12105	10755	11528	10707	11929	11697	10922
62.5	10559	9483	10099	9412	10425	9924	9080
65.0	8877	8263	8660	8150	8832	8250	7487
67.5	7292	7028	7226	6923	7216	6725	6205
70.0	5803	5805	5848	5733	5675	5542	5362
72.5	4510	4572	4510	4528	4398	4691	4601
75.0	3525	3416	3295	3369	3424	3845	3674
77.5	2766	2395	2217	2361	2669	2946	2656
80.0	2016	1590	1360	1561	1935	2040	1898

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CANDELA TABULATION - (Cont.)

82.5	1314	1008	753	976	1235	1460	1460
85.0	788	562	374	525	736	976	909
87.5	332	217	154	196	274	386	303
90.0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10010.01	N.A.	13.40
0-30	21243.19	N.A.	28.30
0-40	34807.02	N.A.	46.40
0-60	61833.13	N.A.	82.50
0-80	74094.31	N.A.	98.80
0-90	74977.81	N.A.	100.00
10-90	72393.13	N.A.	96.60
20-40	24797.01	N.A.	33.10
20-50	39094.7	N.A.	52.10
40-70	35419.81	N.A.	47.20
60-80	12261.18	N.A.	16.40
70-80	3867.48	N.A.	5.20
80-90	883.50	N.A.	1.20
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	74977.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2584.69
10-20	7425.32
20-30	11233.18
30-40	13563.83
40-50	14297.69
50-60	12728.42
60-70	8393.69
70-80	3867.48
80-90	883.50
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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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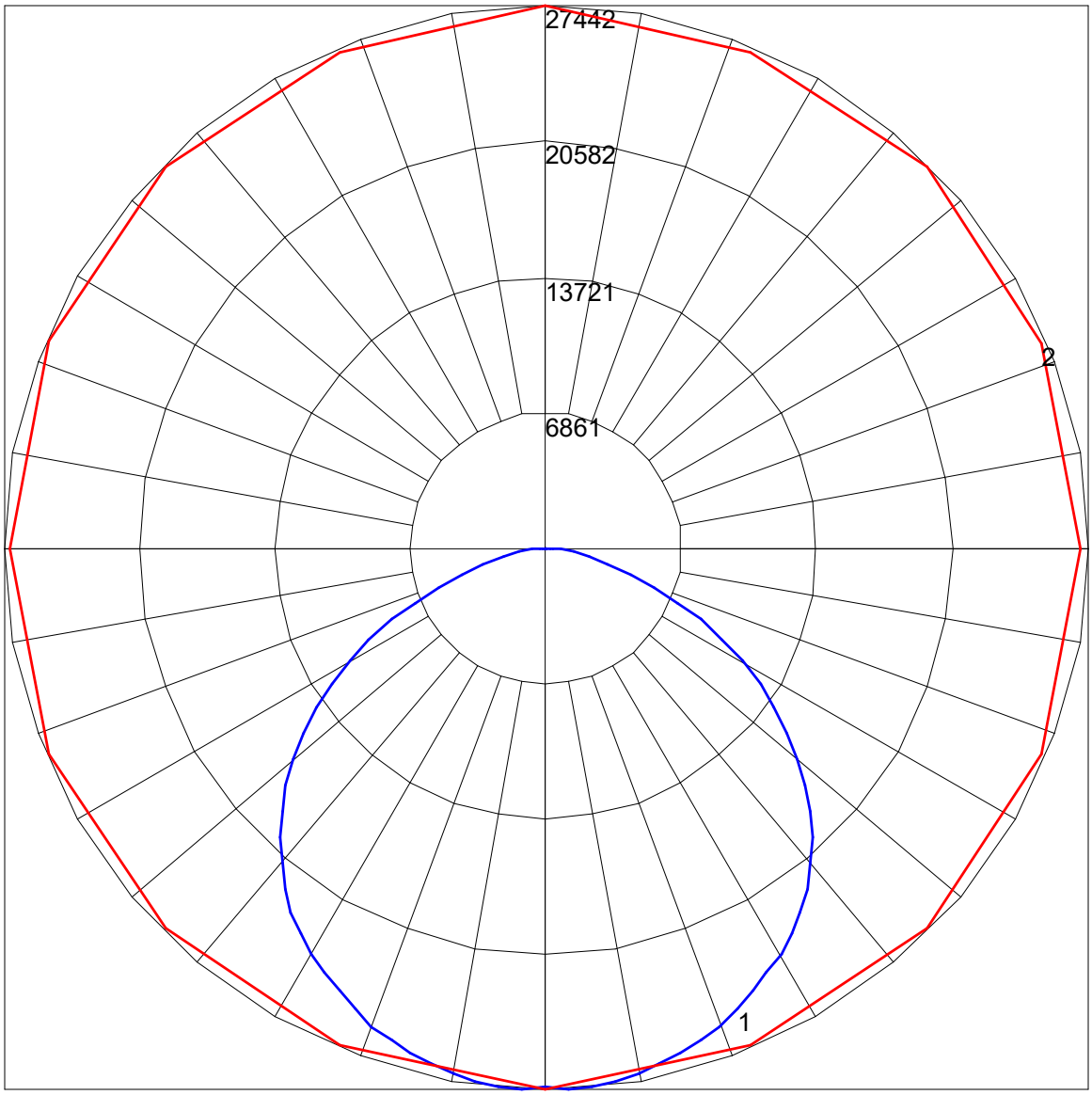
POLAR GRAPH



Maximum Candela = 27442 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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