



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLRL4-11L-46-840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-13223
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUE DATE] 09/19/22
 [TEST DATE] 01/21/22
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CLRL4-11L-46-840
 [OTHER] TEST PROCEDURE: IESNA LM-79-19
 [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	4962
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.42 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5256	5994	6821
55	5909	6941	8093
65	6456	7724	9074
75	6400	8013	9116
85	6548	6708	6069

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	492	492	492	492	492
2.5	503	496	493	490	486
5.0	505	497	495	492	489
7.5	507	500	499	497	494
10.0	510	504	504	504	501
12.5	513	508	509	512	511
15.0	516	512	516	522	522
17.5	520	517	525	534	537
20.0	523	522	534	547	550
22.5	528	529	544	562	567
25.0	532	535	554	577	585
27.5	536	540	565	593	603
30.0	538	545	575	609	621
32.5	542	550	586	625	638
35.0	542	554	594	639	654
37.5	543	556	602	652	669
40.0	542	556	606	661	680
42.5	539	555	609	668	689
45.0	534	551	609	671	693
47.5	526	546	606	671	694
50.0	517	537	599	666	691
52.5	503	524	587	656	681
55.0	487	508	572	642	667
57.5	468	489	552	622	647
60.0	445	467	529	596	621
62.5	421	441	502	565	590
65.0	392	411	469	530	551
67.5	360	377	431	489	506
70.0	322	340	390	439	455
72.5	282	298	347	383	398
75.0	238	253	298	325	339
77.5	194	212	244	268	279
80.0	155	172	192	214	218
82.5	119	132	141	151	151
85.0	82	85	84	82	76
87.5	40	36	30	22	14
90.0	15	6	7	7	5
92.5	59	34	17	18	17
95.0	113	103	75	42	31
97.5	155	167	161	163	165
100.0	193	216	234	271	293
102.5	229	261	296	356	396
105.0	268	298	346	429	479
107.5	307	333	387	488	541
110.0	344	367	423	536	592
112.5	376	397	459	569	625
115.0	397	417	489	587	645
117.5	407	426	503	598	650
120.0	409	428	503	602	645
122.5	407	429	492	593	640
125.0	404	430	481	576	621
127.5	404	427	472	553	593
130.0	403	420	463	528	560
132.5	399	408	447	497	528

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CANDELA TABULATION - (Cont.)

135.0	390	396	426	468	495
137.5	379	386	409	450	463
140.0	368	380	399	436	440
142.5	360	372	392	418	426
145.0	358	362	382	398	412
147.5	358	352	368	383	396
150.0	356	346	357	375	382
152.5	353	344	351	369	371
155.0	348	345	348	360	357
157.5	341	344	346	353	344
160.0	337	342	340	345	338
162.5	337	340	333	339	336
165.0	339	337	328	332	334
167.5	342	338	330	330	331
170.0	341	336	332	329	329
172.5	338	333	331	329	327
175.0	334	329	328	325	324
177.5	329	325	323	321	319
180.0	322	322	322	322	322

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	194.94	N.A.	3.90
0-30	452.94	N.A.	9.10
0-40	827.24	N.A.	16.70
0-60	1810.91	N.A.	36.50
0-80	2580.16	N.A.	52.00
0-90	2675.45	N.A.	53.90
10-90	2627.88	N.A.	53.00
20-40	632.29	N.A.	12.70
20-50	1103.84	N.A.	22.20
40-70	1445.98	N.A.	29.10
60-80	769.25	N.A.	15.50
70-80	306.95	N.A.	6.20
80-90	95.29	N.A.	1.90
90-110	480.12	N.A.	9.70
90-120	971.18	N.A.	19.60
90-130	1418.09	N.A.	28.60
90-150	1996.83	N.A.	40.20
90-180	2286.38	N.A.	46.10
110-180	1806.26	N.A.	36.40
0-180	4961.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.57
10-20	147.37
20-30	258.00
30-40	374.30
40-50	471.54
50-60	512.13
60-70	462.30
70-80	306.95
80-90	95.29
90-100	105.15
100-110	374.97
110-120	491.06
120-130	446.91
130-140	338.10
140-150	240.64
150-160	162.94
160-170	95.16
170-180	31.45

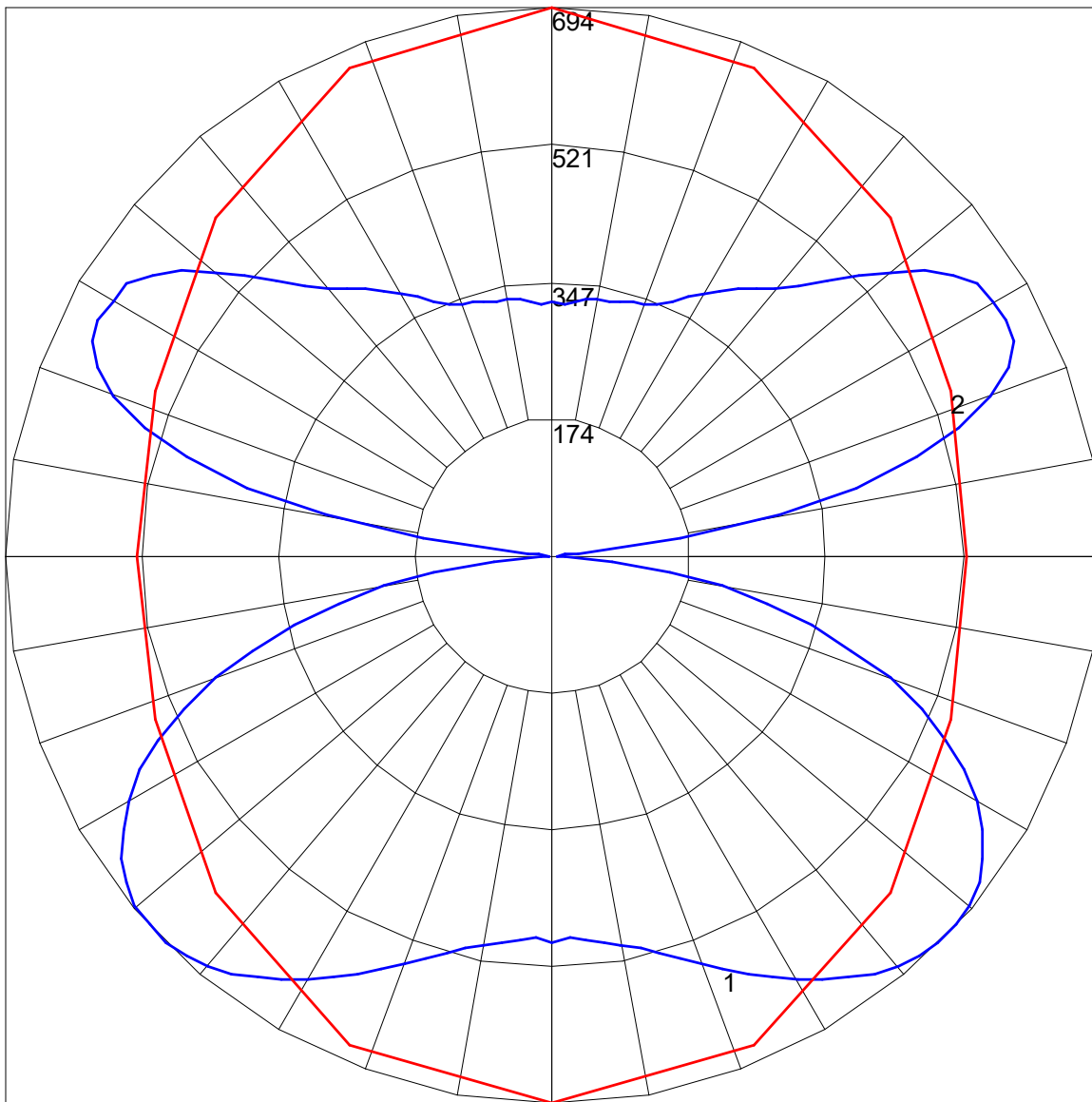
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	97	92	88	84	90	86	82	78	73	70	67	61	59	57	51	49	48	43
2	88	79	72	67	81	73	67	62	62	58	54	52	49	46	43	40	38	34
3	79	69	60	54	73	63	56	50	54	48	44	45	41	37	37	34	31	27
4	72	60	51	45	66	55	48	42	47	41	36	39	35	31	32	29	26	22
5	65	53	44	37	60	49	41	35	42	35	31	35	30	26	29	25	22	18
6	60	47	38	32	55	44	36	30	37	31	26	31	26	22	25	22	19	16
7	55	42	33	27	51	39	31	26	33	27	22	28	23	19	23	19	16	13
8	51	38	30	24	47	35	28	22	30	24	20	25	20	17	21	17	14	12
9	47	34	26	21	44	32	25	20	27	21	17	23	18	15	19	15	12	10
10	44	31	24	19	41	29	22	18	25	19	15	21	17	13	18	14	11	9

POLAR GRAPH



Maximum Candela = 694 Located At Horizontal Angle = 90, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)