



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLRL4-11L-46-835.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-13126  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUE DATE] 09/19/22  
 [TEST DATE] 12/14/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CLRL4-11L-46-835  
 [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] 3500

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4793
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	4862	5492	6221
55	5630	6589	7741
65	6423	7691	9206
75	6696	8175	9492
85	6468	6867	6548

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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>
<b>0.0</b>	450	450	450	450	450
<b>2.5</b>	459	452	450	447	445
<b>5.0</b>	461	455	452	450	448
<b>7.5</b>	463	457	456	453	452
<b>10.0</b>	465	459	459	458	456
<b>12.5</b>	468	463	463	465	463
<b>15.0</b>	471	466	468	473	472
<b>17.5</b>	473	471	475	482	483
<b>20.0</b>	477	475	483	492	494
<b>22.5</b>	481	480	491	504	508
<b>25.0</b>	484	485	500	517	523
<b>27.5</b>	488	491	509	531	538
<b>30.0</b>	492	496	519	545	553
<b>32.5</b>	493	500	527	558	568
<b>35.0</b>	496	504	536	572	583
<b>37.5</b>	496	507	543	583	599
<b>40.0</b>	496	509	550	594	612
<b>42.5</b>	496	509	555	605	623
<b>45.0</b>	494	509	558	612	632
<b>47.5</b>	490	508	559	616	639
<b>50.0</b>	485	503	556	618	642
<b>52.5</b>	476	496	552	616	642
<b>55.0</b>	464	486	543	610	638
<b>57.5</b>	450	472	531	599	628
<b>60.0</b>	433	456	514	583	612
<b>62.5</b>	414	436	493	561	589
<b>65.0</b>	390	412	467	532	559
<b>67.5</b>	363	381	434	496	520
<b>70.0</b>	329	345	398	450	470
<b>72.5</b>	291	306	354	397	414
<b>75.0</b>	249	264	304	339	353
<b>77.5</b>	204	221	250	278	291
<b>80.0</b>	161	178	195	216	226
<b>82.5</b>	121	135	141	153	157
<b>85.0</b>	81	88	86	85	82
<b>87.5</b>	39	36	28	20	15
<b>90.0</b>	11	8	9	9	7
<b>92.5</b>	57	32	17	18	16
<b>95.0</b>	103	93	65	39	36
<b>97.5</b>	147	149	134	127	120
<b>100.0</b>	193	200	197	212	217
<b>102.5</b>	240	250	255	286	300
<b>105.0</b>	286	294	310	353	378
<b>107.5</b>	324	331	358	411	441
<b>110.0</b>	353	363	401	458	495
<b>112.5</b>	380	391	435	497	536
<b>115.0</b>	393	413	460	526	567
<b>117.5</b>	399	428	474	546	585
<b>120.0</b>	401	435	481	555	593
<b>122.5</b>	410	434	484	555	593
<b>125.0</b>	421	432	481	547	583
<b>127.5</b>	427	433	474	536	564
<b>130.0</b>	428	432	466	520	547
<b>132.5</b>	423	425	458	504	526

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	414	414	450	488	505
<b>137.5</b>	403	406	439	471	486
<b>140.0</b>	396	402	426	455	469
<b>142.5</b>	394	401	415	440	450
<b>145.0</b>	395	396	408	429	431
<b>147.5</b>	394	389	402	416	417
<b>150.0</b>	391	383	393	402	407
<b>152.5</b>	387	381	384	391	398
<b>155.0</b>	380	379	377	383	390
<b>157.5</b>	374	378	375	379	381
<b>160.0</b>	372	375	372	375	371
<b>162.5</b>	371	370	368	370	363
<b>165.0</b>	374	367	363	365	361
<b>167.5</b>	375	366	360	362	361
<b>170.0</b>	373	366	362	361	361
<b>172.5</b>	370	365	362	360	359
<b>175.0</b>	366	362	359	357	355
<b>177.5</b>	363	358	356	353	352
<b>180.0</b>	355	355	355	355	355

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	177.14	N.A.	3.70
0-30	409.88	N.A.	8.60
0-40	747.62	N.A.	15.60
0-60	1668.67	N.A.	34.80
0-80	2447.63	N.A.	51.10
0-90	2544.75	N.A.	53.10
10-90	2501.33	N.A.	52.20
20-40	570.48	N.A.	11.90
20-50	1003.38	N.A.	20.90
40-70	1383.32	N.A.	28.90
60-80	778.95	N.A.	16.30
70-80	316.68	N.A.	6.60
80-90	97.13	N.A.	2.00
90-110	424.89	N.A.	8.90
90-120	883.91	N.A.	18.40
90-130	1322.07	N.A.	27.60
90-150	1932.09	N.A.	40.30
90-180	2247.91	N.A.	46.90
110-180	1823.02	N.A.	38.00
0-180	4792.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.43
10-20	133.71
20-30	232.74
30-40	337.74
40-50	432.90
50-60	488.15
60-70	462.27
70-80	316.68
80-90	97.12
90-100	90.96
100-110	333.93
110-120	459.02
120-130	438.17
130-140	351.14
140-150	258.87
150-160	177.24
160-170	104.10
170-180	34.48

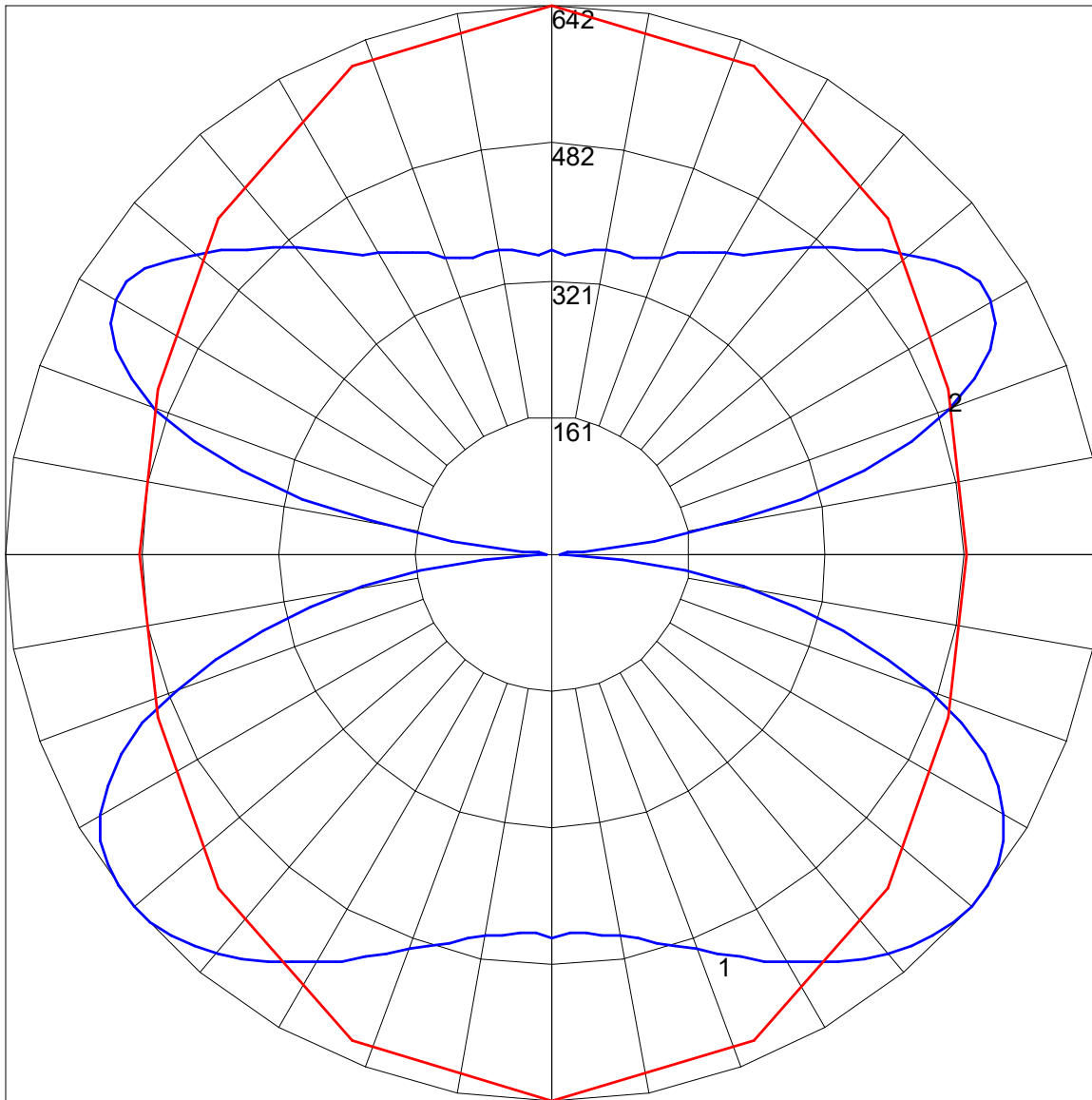
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	85	85	85	71	71	71	59	59	59	53
1	97	92	87	83	89	85	81	78	72	69	67	61	58	56	50	48	47	42
2	87	79	72	66	80	73	67	61	62	57	53	51	48	45	42	39	37	33
3	79	68	60	53	72	63	56	50	53	48	43	44	40	36	36	33	30	26
4	71	59	51	44	65	55	47	41	46	40	35	39	34	30	31	28	25	21
5	65	52	43	37	60	48	40	34	41	35	30	34	29	25	28	24	21	18
6	59	46	38	31	55	43	35	29	36	30	25	30	25	22	25	21	18	15
7	55	42	33	27	50	38	31	25	33	26	22	27	22	19	22	18	15	13
8	51	37	29	23	46	35	27	22	30	23	19	25	20	16	20	16	13	11
9	47	34	26	21	43	32	24	19	27	21	17	23	18	14	18	15	12	10
10	44	31	23	18	40	29	22	17	25	19	15	21	16	13	17	13	11	9

POLAR GRAPH



Maximum Candela = 642 Located At Horizontal Angle = 90, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)