



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLRL8-11L-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] CLRL8-11L-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	9585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	84
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)	7.40 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	4873	5505	6235
55	5643	6604	7759
65	6437	7708	9226
75	6711	8193	9514
85	6483	6883	6563

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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>	900	900	900	900	900
<b>2.5</b>	918	904	900	894	890
<b>5.0</b>	922	910	904	900	896
<b>7.5</b>	926	914	912	906	904
<b>10.0</b>	930	918	918	916	912
<b>12.5</b>	936	926	926	930	926
<b>15.0</b>	942	932	936	946	944
<b>17.5</b>	946	942	950	964	966
<b>20.0</b>	954	950	966	984	988
<b>22.5</b>	962	960	982	1008	1016
<b>25.0</b>	968	970	1000	1034	1046
<b>27.5</b>	976	982	1018	1062	1076
<b>30.0</b>	984	992	1038	1090	1106
<b>32.5</b>	986	1000	1054	1116	1136
<b>35.0</b>	992	1008	1072	1144	1166
<b>37.5</b>	992	1014	1086	1166	1198
<b>40.0</b>	992	1018	1100	1188	1224
<b>42.5</b>	992	1018	1110	1210	1246
<b>45.0</b>	988	1018	1116	1224	1264
<b>47.5</b>	980	1016	1118	1232	1278
<b>50.0</b>	970	1006	1112	1236	1284
<b>52.5</b>	952	992	1104	1232	1284
<b>55.0</b>	928	972	1086	1220	1276
<b>57.5</b>	900	944	1062	1198	1256
<b>60.0</b>	866	912	1028	1166	1224
<b>62.5</b>	828	872	986	1122	1178
<b>65.0</b>	780	824	934	1064	1118
<b>67.5</b>	726	762	868	992	1040
<b>70.0</b>	658	690	796	900	940
<b>72.5</b>	582	612	708	794	828
<b>75.0</b>	498	528	608	678	706
<b>77.5</b>	408	442	500	556	582
<b>80.0</b>	322	356	390	432	452
<b>82.5</b>	242	270	282	306	314
<b>85.0</b>	162	176	172	170	164
<b>87.5</b>	78	72	56	40	30
<b>90.0</b>	22	16	18	18	14
<b>92.5</b>	114	64	34	36	32
<b>95.0</b>	206	186	130	78	72
<b>97.5</b>	294	298	268	254	240
<b>100.0</b>	386	400	394	424	434
<b>102.5</b>	480	500	510	572	600
<b>105.0</b>	572	588	620	706	756
<b>107.5</b>	648	662	716	822	882
<b>110.0</b>	706	726	802	916	990
<b>112.5</b>	760	782	870	994	1072
<b>115.0</b>	786	826	920	1052	1134
<b>117.5</b>	798	856	948	1092	1170
<b>120.0</b>	802	870	962	1110	1186
<b>122.5</b>	820	868	968	1110	1186
<b>125.0</b>	842	864	962	1094	1166
<b>127.5</b>	854	866	948	1072	1128
<b>130.0</b>	856	864	932	1040	1094
<b>132.5</b>	846	850	916	1008	1052

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	828	828	900	976	1010
<b>137.5</b>	806	812	878	942	972
<b>140.0</b>	792	804	852	910	938
<b>142.5</b>	788	802	830	880	900
<b>145.0</b>	790	792	816	858	862
<b>147.5</b>	788	778	804	832	834
<b>150.0</b>	782	766	786	804	814
<b>152.5</b>	774	762	768	782	796
<b>155.0</b>	760	758	754	766	780
<b>157.5</b>	748	756	750	758	762
<b>160.0</b>	744	750	744	750	742
<b>162.5</b>	742	740	736	740	726
<b>165.0</b>	748	734	726	730	722
<b>167.5</b>	750	732	720	724	722
<b>170.0</b>	746	732	724	722	722
<b>172.5</b>	740	730	724	720	718
<b>175.0</b>	732	724	718	714	710
<b>177.5</b>	726	716	712	706	704
<b>180.0</b>	710	710	710	710	710

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	354.28	N.A.	3.70
0-30	819.76	N.A.	8.60
0-40	1495.24	N.A.	15.60
0-60	3337.35	N.A.	34.80
0-80	4895.25	N.A.	51.10
0-90	5089.5	N.A.	53.10
10-90	5002.65	N.A.	52.20
20-40	1140.97	N.A.	11.90
20-50	2006.77	N.A.	20.90
40-70	2766.64	N.A.	28.90
60-80	1557.91	N.A.	16.30
70-80	633.37	N.A.	6.60
80-90	194.25	N.A.	2.00
90-110	849.78	N.A.	8.90
90-120	1767.81	N.A.	18.40
90-130	2644.15	N.A.	27.60
90-150	3864.18	N.A.	40.30
90-180	4495.82	N.A.	46.90
110-180	3646.05	N.A.	38.00
0-180	9585.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.85
10-20	267.42
20-30	465.49
30-40	675.48
40-50	865.80
50-60	976.31
60-70	924.54
70-80	633.37
80-90	194.25
90-100	181.93
100-110	667.85
110-120	918.04
120-130	876.34
130-140	702.29
140-150	517.74
150-160	354.48
160-170	208.20
170-180	68.96

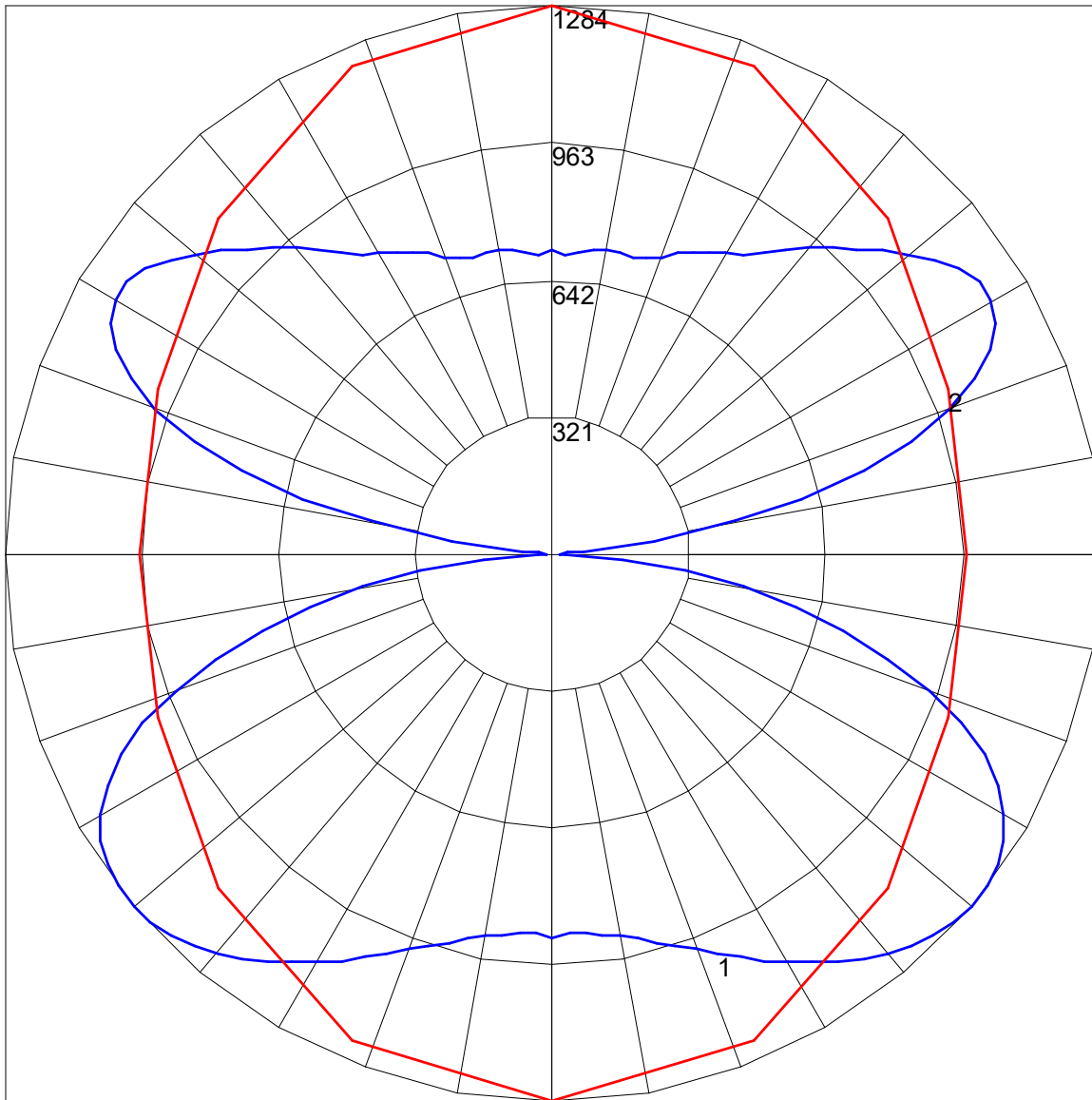
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	60	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 = 1284 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.)