



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EG3-8-LED-13L-DA-S-40-80.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 3606  
 [TESTLAB] TUV SUD America  
 [TESTDATE] 12/7/2018 11:10:40 AM  
 [ISSUEDATE] 07/22/2021  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] EG3-8-LED-13L-DA-S-40-80  
 [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] 4000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.40 ft
Luminous Height	0.17 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12888	10002	9431
55	12342	8304	7324
65	12759	6756	5024
75	14678	5707	2934
85	23437	4724	1101

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	4492	4492	4492	4492	4492	4492	4492	4492	4492	4492
<b>2.5</b>	4629	4568	4440	4397	4350	4397	4440	4568	4629	4568
<b>5.0</b>	4599	4542	4418	4379	4340	4379	4418	4542	4599	4542
<b>7.5</b>	4557	4508	4390	4358	4315	4358	4390	4508	4557	4508
<b>10.0</b>	4488	4450	4351	4318	4282	4318	4351	4450	4488	4450
<b>12.5</b>	4393	4366	4292	4267	4234	4267	4292	4366	4393	4366
<b>15.0</b>	4280	4263	4215	4216	4189	4216	4215	4263	4280	4263
<b>17.5</b>	4162	4155	4124	4158	4130	4158	4124	4155	4162	4155
<b>20.0</b>	4030	4033	4022	4086	4066	4086	4022	4033	4030	4033
<b>22.5</b>	3887	3895	3913	4004	3994	4004	3913	3895	3887	3895
<b>25.0</b>	3752	3748	3792	3905	3912	3905	3792	3748	3752	3748
<b>27.5</b>	3652	3622	3654	3793	3814	3793	3654	3622	3652	3622
<b>30.0</b>	3575	3523	3513	3667	3708	3667	3513	3523	3575	3523
<b>32.5</b>	3494	3441	3385	3539	3591	3539	3385	3441	3494	3441
<b>35.0</b>	3386	3354	3266	3398	3461	3398	3266	3354	3386	3354
<b>37.5</b>	3251	3239	3147	3246	3316	3246	3147	3239	3251	3239
<b>40.0</b>	3096	3087	3029	3083	3159	3083	3029	3087	3096	3087
<b>42.5</b>	2928	2921	2898	2910	2988	2910	2898	2921	2928	2921
<b>45.0</b>	2768	2757	2753	2731	2808	2731	2753	2757	2768	2757
<b>47.5</b>	2617	2599	2590	2553	2618	2553	2590	2599	2617	2599
<b>50.0</b>	2460	2437	2415	2373	2421	2373	2415	2437	2460	2437
<b>52.5</b>	2309	2274	2232	2193	2215	2193	2232	2274	2309	2274
<b>55.0</b>	2169	2118	2041	1996	1991	1996	2041	2118	2169	2118
<b>57.5</b>	2045	1968	1864	1817	1778	1817	1864	1968	2045	1968
<b>60.0</b>	1911	1846	1695	1632	1571	1632	1695	1846	1911	1846
<b>62.5</b>	1788	1720	1545	1459	1378	1459	1545	1720	1788	1720
<b>65.0</b>	1676	1609	1411	1285	1194	1285	1411	1609	1676	1609
<b>67.5</b>	1560	1494	1288	1120	1022	1120	1288	1494	1560	1494
<b>70.0</b>	1446	1381	1171	965	860	965	1171	1381	1446	1381
<b>72.5</b>	1329	1268	1053	823	711	823	1053	1268	1329	1268
<b>75.0</b>	1218	1158	945	698	576	698	945	1158	1218	1158
<b>77.5</b>	1101	1046	844	587	455	587	844	1046	1101	1046
<b>80.0</b>	980	931	742	487	345	487	742	931	980	931
<b>82.5</b>	861	819	645	400	246	400	645	819	861	819
<b>85.0</b>	752	716	554	325	164	325	554	716	752	716
<b>87.5</b>	654	624	473	261	105	261	473	624	654	624
<b>90.0</b>	571	538	403	210	76	210	403	538	571	538
<b>92.5</b>	505	477	353	177	69	177	353	477	505	477
<b>95.0</b>	455	430	318	150	63	150	318	430	455	430
<b>97.5</b>	408	386	284	125	58	125	284	386	408	386
<b>100.0</b>	362	343	251	102	53	102	251	343	362	343
<b>102.5</b>	323	303	221	82	47	82	221	303	323	303
<b>105.0</b>	289	271	191	64	40	64	191	271	289	271
<b>107.5</b>	260	240	166	47	34	47	166	240	260	240
<b>110.0</b>	232	212	140	29	28	29	140	212	232	212
<b>112.5</b>	206	186	115	16	22	16	115	186	206	186
<b>115.0</b>	180	162	93	11	17	11	93	162	180	162
<b>117.5</b>	158	139	71	9	13	9	71	139	158	139
<b>120.0</b>	136	116	52	5	10	5	52	116	136	116
<b>122.5</b>	115	96	34	4	6	4	34	96	115	96
<b>125.0</b>	96	77	17	2	5	2	17	77	96	77
<b>127.5</b>	77	59	4	1	2	1	4	59	77	59
<b>130.0</b>	59	40	1	1	1	1	1	40	59	40
<b>132.5</b>	40	23	1	1	1	1	1	23	40	23

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**CANDELA TABULATION - (Cont.)**

135.0	23	6	2	2	2	2	2	6	23	6
137.5	9	2	2	2	2	2	2	2	9	2
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						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	4492	4492	4492	4492	4492	4492	4492
2.5	4440	4397	4350	4397	4440	4568	4629
5.0	4418	4379	4340	4379	4418	4542	4599
7.5	4390	4358	4315	4358	4390	4508	4557
10.0	4351	4318	4282	4318	4351	4450	4488
12.5	4292	4267	4234	4267	4292	4366	4393
15.0	4215	4216	4189	4216	4215	4263	4280
17.5	4124	4158	4130	4158	4124	4155	4162
20.0	4022	4086	4066	4086	4022	4033	4030
22.5	3913	4004	3994	4004	3913	3895	3887
25.0	3792	3905	3912	3905	3792	3748	3752
27.5	3654	3793	3814	3793	3654	3622	3652
30.0	3513	3667	3708	3667	3513	3523	3575
32.5	3385	3539	3591	3539	3385	3441	3494
35.0	3266	3398	3461	3398	3266	3354	3386
37.5	3147	3246	3316	3246	3147	3239	3251
40.0	3029	3083	3159	3083	3029	3087	3096
42.5	2898	2910	2988	2910	2898	2921	2928
45.0	2753	2731	2808	2731	2753	2757	2768
47.5	2590	2553	2618	2553	2590	2599	2617
50.0	2415	2373	2421	2373	2415	2437	2460
52.5	2232	2193	2215	2193	2232	2274	2309
55.0	2041	1996	1991	1996	2041	2118	2169
57.5	1864	1817	1778	1817	1864	1968	2045
60.0	1695	1632	1571	1632	1695	1846	1911
62.5	1545	1459	1378	1459	1545	1720	1788
65.0	1411	1285	1194	1285	1411	1609	1676
67.5	1288	1120	1022	1120	1288	1494	1560
70.0	1171	965	860	965	1171	1381	1446
72.5	1053	823	711	823	1053	1268	1329
75.0	945	698	576	698	945	1158	1218
77.5	844	587	455	587	844	1046	1101
80.0	742	487	345	487	742	931	980

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**CANDELA TABULATION - (Cont.)**

82.5	645	400	246	400	645	819	861
85.0	554	325	164	325	554	716	752
87.5	473	261	105	261	473	624	654
90.0	403	210	76	210	403	538	571
92.5	353	177	69	177	353	477	505
95.0	318	150	63	150	318	430	455
97.5	284	125	58	125	284	386	408
100.0	251	102	53	102	251	343	362
102.5	221	82	47	82	221	303	323
105.0	191	64	40	64	191	271	289
107.5	166	47	34	47	166	240	260
110.0	140	29	28	29	140	212	232
112.5	115	16	22	16	115	186	206
115.0	93	11	17	11	93	162	180
117.5	71	9	13	9	71	139	158
120.0	52	5	10	5	52	116	136
122.5	34	4	6	4	34	96	115
125.0	17	2	5	2	17	77	96
127.5	4	1	2	1	4	59	77
130.0	1	1	1	1	1	40	59
132.5	1	1	1	1	1	23	40
135.0	2	2	2	2	2	6	23
137.5	2	2	2	2	2	2	9
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	1615.58	N.A.	12.40
0-30	3376.77	N.A.	25.90
0-40	5475.11	N.A.	41.90
0-60	9448.32	N.A.	72.30
0-80	11854.63	N.A.	90.80
0-90	12424.02	N.A.	95.10
10-90	12001.29	N.A.	91.90
20-40	3859.53	N.A.	29.60
20-50	5985.7	N.A.	45.80
40-70	5398.55	N.A.	41.30
60-80	2406.31	N.A.	18.40
70-80	980.97	N.A.	7.50
80-90	569.40	N.A.	4.40
90-110	503.26	N.A.	3.90
90-120	595.40	N.A.	4.60
90-130	629.61	N.A.	4.80
90-150	635.39	N.A.	4.90
90-180	635.39	N.A.	4.90
110-180	132.13	N.A.	1.00
0-180	13059.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	422.73
10-20	1192.85
20-30	1761.19
30-40	2098.34
40-50	2126.17
50-60	1847.05
60-70	1425.34
70-80	980.97
80-90	569.40
90-100	318.50
100-110	184.77
110-120	92.13
120-130	34.22
130-140	5.78
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

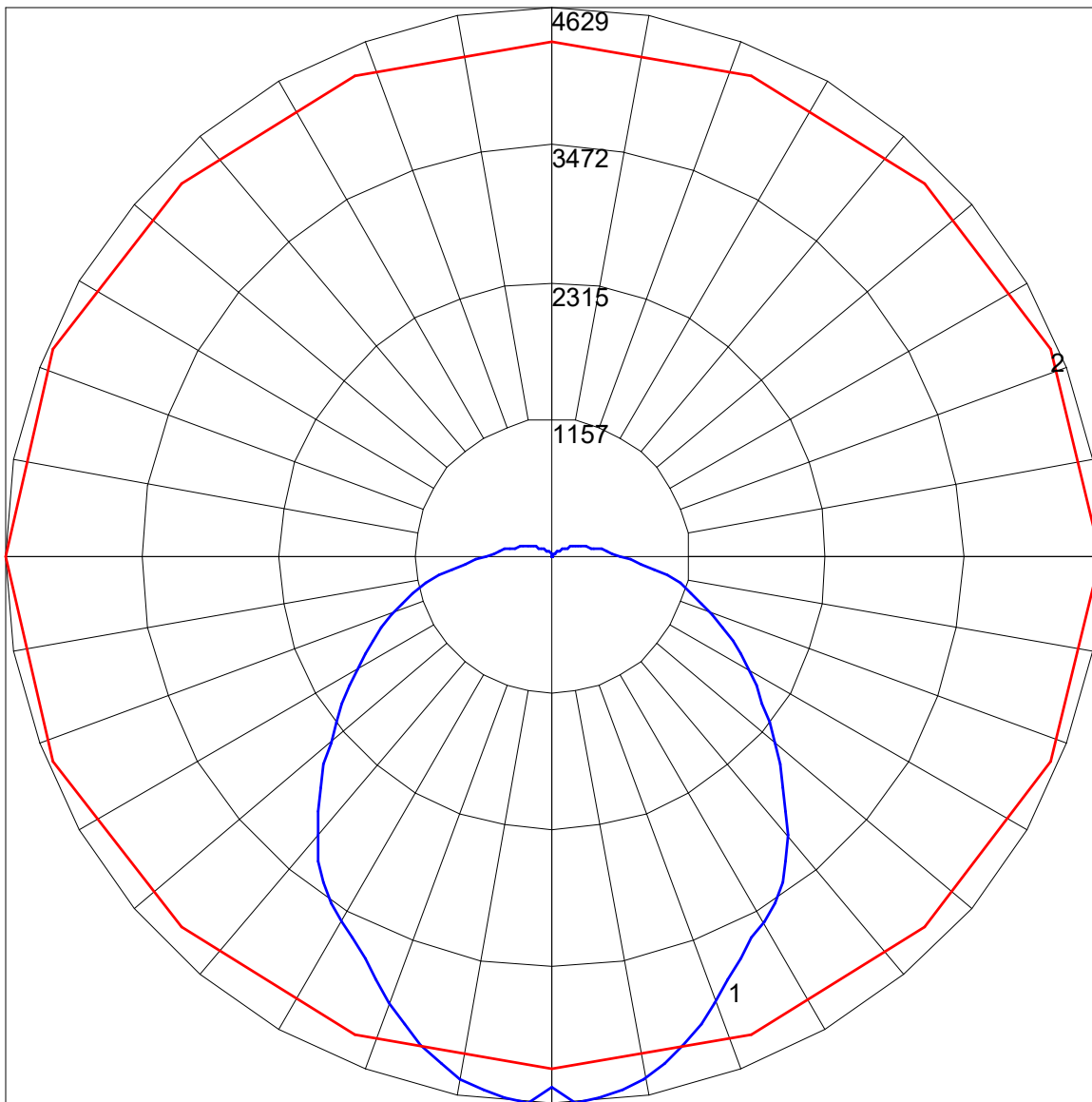
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	101	97	93	103	99	94	91	93	90	87	89	86	83	84	82	80	77
2	97	88	81	75	94	86	79	74	81	76	71	77	73	69	74	70	67	64
3	88	77	69	62	85	75	68	61	72	65	60	68	63	58	65	60	56	54
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	46	72	60	51	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	38	33	31
8	59	46	37	31	57	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	31	25	37	30	25	36	29	25	34	29	24	23

POLAR GRAPH



Maximum Candela = 4629 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)