



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-35-80.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] EG3-4-LED-04L-DA-S-35-80  
 [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] 3500

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	32
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)	4.00 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	8478	6640	6335
55	8053	5494	4915
65	8207	4455	3374
75	9174	3746	1977
85	13181	3059	738

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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>	1508	1508	1508	1508	1508	1508	1508	1508	1508	1508
<b>2.5</b>	1554	1534	1491	1476	1461	1476	1491	1534	1554	1534
<b>5.0</b>	1543	1525	1483	1470	1457	1470	1483	1525	1543	1525
<b>7.5</b>	1530	1513	1474	1463	1449	1463	1474	1513	1530	1513
<b>10.0</b>	1506	1495	1461	1449	1437	1449	1461	1495	1506	1495
<b>12.5</b>	1474	1466	1440	1432	1422	1432	1440	1466	1474	1466
<b>15.0</b>	1436	1431	1415	1415	1406	1415	1415	1431	1436	1431
<b>17.5</b>	1397	1395	1384	1397	1387	1397	1384	1395	1397	1395
<b>20.0</b>	1353	1354	1350	1372	1365	1372	1350	1354	1353	1354
<b>22.5</b>	1305	1308	1314	1344	1341	1344	1314	1308	1305	1308
<b>25.0</b>	1260	1257	1273	1310	1313	1310	1273	1257	1260	1257
<b>27.5</b>	1225	1216	1226	1274	1280	1274	1226	1216	1225	1216
<b>30.0</b>	1200	1183	1180	1231	1245	1231	1180	1183	1200	1183
<b>32.5</b>	1173	1155	1136	1188	1206	1188	1136	1155	1173	1155
<b>35.0</b>	1137	1125	1096	1141	1162	1141	1096	1125	1137	1125
<b>37.5</b>	1091	1087	1056	1089	1114	1089	1056	1087	1091	1087
<b>40.0</b>	1040	1037	1017	1036	1060	1036	1017	1037	1040	1037
<b>42.5</b>	983	980	973	977	1004	977	973	980	983	980
<b>45.0</b>	929	925	924	917	943	917	924	925	929	925
<b>47.5</b>	878	872	869	857	879	857	869	872	878	872
<b>50.0</b>	826	818	811	796	813	796	811	818	826	818
<b>52.5</b>	775	763	749	736	744	736	749	763	775	763
<b>55.0</b>	728	711	685	670	668	670	685	711	728	711
<b>57.5</b>	687	660	626	611	596	611	626	660	687	660
<b>60.0</b>	642	619	569	548	527	548	569	619	642	619
<b>62.5</b>	600	578	518	490	463	490	518	578	600	578
<b>65.0</b>	562	541	474	432	401	432	474	541	562	541
<b>67.5</b>	523	502	432	375	342	375	432	502	523	502
<b>70.0</b>	485	464	393	324	289	324	393	464	485	464
<b>72.5</b>	446	426	354	276	239	276	354	426	446	426
<b>75.0</b>	408	388	318	234	194	234	318	388	408	388
<b>77.5</b>	370	352	283	197	153	197	283	352	370	352
<b>80.0</b>	330	312	249	163	116	163	249	312	330	312
<b>82.5</b>	289	275	217	134	83	134	217	275	289	275
<b>85.0</b>	252	240	186	109	55	109	186	240	252	240
<b>87.5</b>	220	209	159	88	35	88	159	209	220	209
<b>90.0</b>	192	181	135	71	25	71	135	181	192	181
<b>92.5</b>	169	160	119	59	23	59	119	160	169	160
<b>95.0</b>	153	145	107	51	21	51	107	145	153	145
<b>97.5</b>	137	129	95	42	19	42	95	129	137	129
<b>100.0</b>	122	116	85	34	18	34	85	116	122	116
<b>102.5</b>	108	101	74	27	16	27	74	101	108	101
<b>105.0</b>	97	91	64	21	14	21	64	91	97	91
<b>107.5</b>	88	81	55	16	11	16	55	81	88	81
<b>110.0</b>	78	71	47	10	9	10	47	71	78	71
<b>112.5</b>	69	62	39	5	7	5	39	62	69	62
<b>115.0</b>	61	54	31	3	6	3	31	54	61	54
<b>117.5</b>	53	47	24	3	5	3	24	47	53	47
<b>120.0</b>	46	39	18	2	3	2	18	39	46	39
<b>122.5</b>	39	32	11	1	2	1	11	32	39	32
<b>125.0</b>	32	26	6	1	1	1	6	26	32	26
<b>127.5</b>	26	19	1	0	1	0	1	19	26	19
<b>130.0</b>	19	14	0	0	1	0	0	14	19	14
<b>132.5</b>	14	8	1	1	1	1	1	8	14	8

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**CANDELA TABULATION - (Cont.)**

135.0	8	2	1	1	1	1	1	2	8	2
137.5	3	1	1	1	1	1	1	1	3	1
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	1508	1508	1508	1508	1508	1508	1508
2.5	1491	1476	1461	1476	1491	1534	1554
5.0	1483	1470	1457	1470	1483	1525	1543
7.5	1474	1463	1449	1463	1474	1513	1530
10.0	1461	1449	1437	1449	1461	1495	1506
12.5	1440	1432	1422	1432	1440	1466	1474
15.0	1415	1415	1406	1415	1415	1431	1436
17.5	1384	1397	1387	1397	1384	1395	1397
20.0	1350	1372	1365	1372	1350	1354	1353
22.5	1314	1344	1341	1344	1314	1308	1305
25.0	1273	1310	1313	1310	1273	1257	1260
27.5	1226	1274	1280	1274	1226	1216	1225
30.0	1180	1231	1245	1231	1180	1183	1200
32.5	1136	1188	1206	1188	1136	1155	1173
35.0	1096	1141	1162	1141	1096	1125	1137
37.5	1056	1089	1114	1089	1056	1087	1091
40.0	1017	1036	1060	1036	1017	1037	1040
42.5	973	977	1004	977	973	980	983
45.0	924	917	943	917	924	925	929
47.5	869	857	879	857	869	872	878
50.0	811	796	813	796	811	818	826
52.5	749	736	744	736	749	763	775
55.0	685	670	668	670	685	711	728
57.5	626	611	596	611	626	660	687
60.0	569	548	527	548	569	619	642
62.5	518	490	463	490	518	578	600
65.0	474	432	401	432	474	541	562
67.5	432	375	342	375	432	502	523
70.0	393	324	289	324	393	464	485
72.5	354	276	239	276	354	426	446
75.0	318	234	194	234	318	388	408
77.5	283	197	153	197	283	352	370
80.0	249	163	116	163	249	312	330

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82.5	217	134	83	134	217	275	289
85.0	186	109	55	109	186	240	252
87.5	159	88	35	88	159	209	220
90.0	135	71	25	71	135	181	192
92.5	119	59	23	59	119	160	169
95.0	107	51	21	51	107	145	153
97.5	95	42	19	42	95	129	137
100.0	85	34	18	34	85	116	122
102.5	74	27	16	27	74	101	108
105.0	64	21	14	21	64	91	97
107.5	55	16	11	16	55	81	88
110.0	47	10	9	10	47	71	78
112.5	39	5	7	5	39	62	69
115.0	31	3	6	3	31	54	61
117.5	24	3	5	3	24	47	53
120.0	18	2	3	2	18	39	46
122.5	11	1	2	1	11	32	39
125.0	6	1	1	1	6	26	32
127.5	1	0	1	0	1	19	26
130.0	0	0	1	0	0	14	19
132.5	1	1	1	1	1	8	14
135.0	1	1	1	1	1	2	8
137.5	1	1	1	1	1	1	3
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	542.35	N.A.	12.40
0-30	1133.56	N.A.	25.90
0-40	1837.94	N.A.	41.90
0-60	3171.65	N.A.	72.30
0-80	3979.5	N.A.	90.80
0-90	4170.65	N.A.	95.10
10-90	4028.73	N.A.	91.90
20-40	1295.58	N.A.	29.60
20-50	2009.3	N.A.	45.80
40-70	1812.19	N.A.	41.30
60-80	807.85	N.A.	18.40
70-80	329.37	N.A.	7.50
80-90	191.14	N.A.	4.40
90-110	168.96	N.A.	3.90
90-120	199.87	N.A.	4.60
90-130	211.28	N.A.	4.80
90-150	213.43	N.A.	4.90
90-180	213.43	N.A.	4.90
110-180	44.47	N.A.	1.00
0-180	4384.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	141.92
10-20	400.44
20-30	591.20
30-40	704.38
40-50	713.72
50-60	619.99
60-70	478.48
70-80	329.37
80-90	191.14
90-100	107.00
100-110	61.96
110-120	30.91
120-130	11.41
130-140	2.15
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

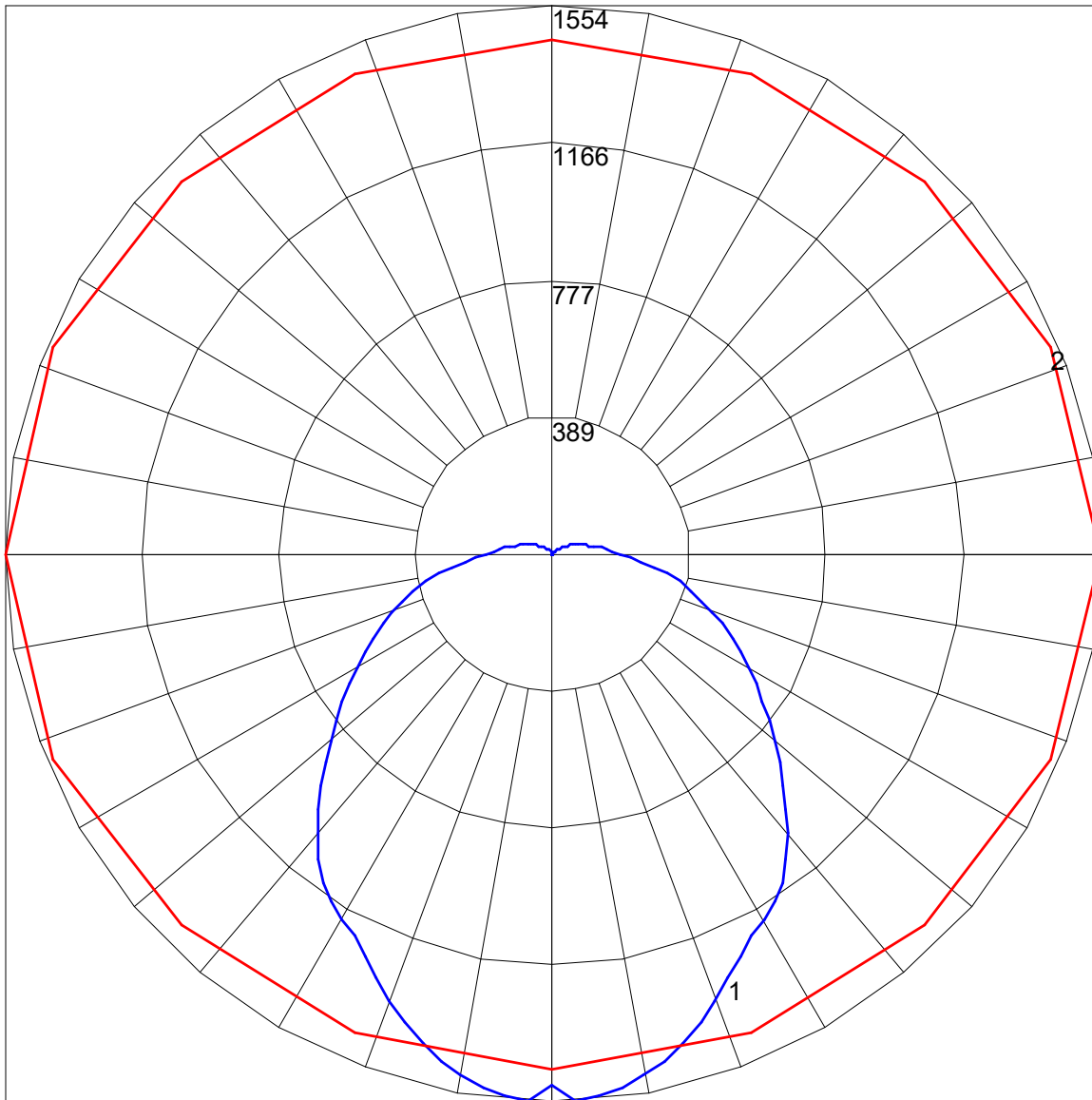
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1554 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.)