



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EG3-4-LED-06L-SA-PG-40-80.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-12860  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 07/22/2021  
[TEST DATE] 06/29/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] EG3-4-LED-06L-SA-PG-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	6458
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.66
Spacing Criterion (Diagonal)	1.64
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	8314	8946	10419
55	7567	9344	12029
65	6776	9793	12765
75	5801	9706	11146
85	3975	7992	7600

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
<b>0.0</b>	1381	1381	1381	1381	1381	1381	1381	1381	1381	1381
<b>2.5</b>	1417	1412	1394	1394	1392	1382	1376	1372	1368	1361
<b>5.0</b>	1417	1413	1394	1394	1392	1383	1377	1374	1369	1362
<b>7.5</b>	1413	1408	1390	1392	1390	1382	1377	1374	1371	1365
<b>10.0</b>	1406	1401	1383	1386	1385	1379	1376	1375	1373	1368
<b>12.5</b>	1394	1390	1374	1377	1380	1375	1375	1376	1376	1372
<b>15.0</b>	1378	1375	1360	1365	1371	1370	1373	1378	1380	1378
<b>17.5</b>	1358	1355	1343	1352	1360	1364	1371	1380	1385	1384
<b>20.0</b>	1337	1334	1323	1335	1349	1357	1370	1384	1393	1393
<b>22.5</b>	1311	1307	1301	1317	1336	1350	1370	1389	1403	1404
<b>25.0</b>	1280	1277	1273	1296	1320	1343	1369	1394	1411	1414
<b>27.5</b>	1246	1244	1243	1271	1305	1335	1369	1400	1420	1426
<b>30.0</b>	1208	1206	1210	1244	1286	1325	1368	1407	1430	1439
<b>32.5</b>	1166	1165	1173	1212	1265	1315	1367	1412	1442	1451
<b>35.0</b>	1122	1122	1134	1181	1243	1304	1365	1419	1453	1466
<b>37.5</b>	1073	1074	1092	1146	1217	1290	1363	1426	1467	1483
<b>40.0</b>	1023	1023	1045	1110	1192	1276	1361	1433	1483	1502
<b>42.5</b>	967	970	999	1072	1163	1262	1358	1443	1500	1524
<b>45.0</b>	911	916	951	1032	1134	1245	1356	1454	1520	1549
<b>47.5</b>	854	858	900	989	1102	1227	1353	1463	1540	1573
<b>50.0</b>	797	803	848	946	1068	1208	1349	1472	1561	1599
<b>52.5</b>	741	746	794	900	1032	1186	1344	1480	1576	1619
<b>55.0</b>	684	690	743	853	996	1165	1337	1482	1585	1630
<b>57.5</b>	628	634	690	802	957	1140	1323	1476	1582	1628
<b>60.0</b>	572	579	636	752	917	1112	1303	1459	1564	1608
<b>62.5</b>	518	523	583	704	876	1079	1275	1431	1529	1571
<b>65.0</b>	464	469	532	655	833	1042	1237	1388	1477	1514
<b>67.5</b>	407	417	483	607	791	1000	1187	1323	1406	1434
<b>70.0</b>	357	365	432	561	745	951	1126	1247	1316	1338
<b>72.5</b>	308	316	382	514	695	890	1052	1156	1204	1225
<b>75.0</b>	258	268	333	467	643	824	965	1050	1084	1099
<b>77.5</b>	210	219	288	418	587	749	868	931	955	955
<b>80.0</b>	164	173	244	370	525	667	762	809	822	817
<b>82.5</b>	120	130	202	323	460	574	653	687	687	687
<b>85.0</b>	76	88	163	275	392	486	542	570	567	566
<b>87.5</b>	44	57	127	227	327	402	442	454	460	459
<b>90.0</b>	26	35	94	182	265	323	353	362	367	365
<b>92.5</b>	23	25	67	141	208	255	280	287	287	288
<b>95.0</b>	22	21	46	106	159	200	219	226	227	225
<b>97.5</b>	20	19	31	75	121	153	172	178	179	176
<b>100.0</b>	17	16	21	51	91	118	134	140	142	140
<b>102.5</b>	16	15	14	34	65	88	104	111	111	112
<b>105.0</b>	15	14	10	23	45	66	80	88	90	91
<b>107.5</b>	13	12	9	14	30	47	61	67	71	72
<b>110.0</b>	12	11	8	9	21	33	44	51	56	58
<b>112.5</b>	10	9	6	5	13	24	32	38	42	44
<b>115.0</b>	9	8	6	4	8	16	24	29	33	34
<b>117.5</b>	8	7	5	4	5	11	17	23	26	27
<b>120.0</b>	7	6	5	3	2	7	12	16	20	21
<b>122.5</b>	5	5	4	2	2	4	8	12	14	15
<b>125.0</b>	4	4	3	2	1	2	5	8	10	11
<b>127.5</b>	4	4	3	2	1	1	2	5	7	8
<b>130.0</b>	2	2	2	1	1	1	0	2	4	5
<b>132.5</b>	2	2	2	1	1	1	0	1	2	3

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CANDELA TABULATION - (Cont.)

135.0	2	2	1	1	1	1	0	0	0	1
137.5	2	2	1	1	0	1	0	0	0	0
140.0	1	1	1	1	1	1	0	0	0	0
142.5	1	1	1	1	1	1	0	0	0	0
145.0	1	1	1	1	0	0	0	0	0	0
147.5	2	1	1	1	1	1	1	1	1	0
150.0	1	1	1	1	1	1	0	0	0	0
152.5	1	1	1	1	1	0	0	0	0	0
155.0	1	1	1	1	1	0	0	0	0	0
157.5	1	1	1	1	1	1	0	0	0	0
160.0	1	1	1	1	1	0	0	0	0	0
162.5	1	1	1	1	1	0	0	0	0	0
165.0	1	1	1	1	0	0	0	0	0	0
167.5	1	1	1	1	1	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	1	1	0	0	0	0
175.0	1	1	1	1	1	1	0	0	0	0
177.5	2	1	1	1	1	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles  
 Angles

	<u>90</u>
0.0	1381
2.5	1358
5.0	1359
7.5	1362
10.0	1364
12.5	1370
15.0	1375
17.5	1381
20.0	1391
22.5	1401
25.0	1413
27.5	1424
30.0	1438
32.5	1451
35.0	1466
37.5	1483
40.0	1502
42.5	1525
45.0	1551
47.5	1576
50.0	1601
52.5	1622
55.0	1635
57.5	1633
60.0	1613
62.5	1575
65.0	1517
67.5	1438
70.0	1341
72.5	1227
75.0	1094
77.5	953
80.0	818

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CANDELA TABULATION - (Cont.)

82.5	688
85.0	566
87.5	459
90.0	365
92.5	290
95.0	226
97.5	176
100.0	140
102.5	112
105.0	91
107.5	73
110.0	58
112.5	45
115.0	34
117.5	27
120.0	21
122.5	15
125.0	11
127.5	8
130.0	5
132.5	3
135.0	1
137.5	0
140.0	0
142.5	0
145.0	0
147.5	0
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	520.45	N.A.	8.10
0-30	1141.8	N.A.	17.70
0-40	1956.35	N.A.	30.30
0-60	3955.27	N.A.	61.20
0-80	5741.96	N.A.	88.90
0-90	6188.99	N.A.	95.80
10-90	6056.99	N.A.	93.80
20-40	1435.9	N.A.	22.20
20-50	2394.47	N.A.	37.10
40-70	3000.4	N.A.	46.50
60-80	1786.68	N.A.	27.70
70-80	785.20	N.A.	12.20
80-90	447.04	N.A.	6.90
90-110	243.61	N.A.	3.80
90-120	262.84	N.A.	4.10
90-130	267.89	N.A.	4.10
90-150	269.06	N.A.	4.20
90-180	269.45	N.A.	4.20
110-180	25.85	N.A.	0.40
0-180	6458.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.01
10-20	388.45
20-30	621.35
30-40	814.55
40-50	958.58
50-60	1040.35
60-70	1001.48
70-80	785.20
80-90	447.04
90-100	181.15
100-110	62.45
110-120	19.23
120-130	5.05
130-140	0.80
140-150	0.37
150-160	0.22
160-170	0.12
170-180	0.05

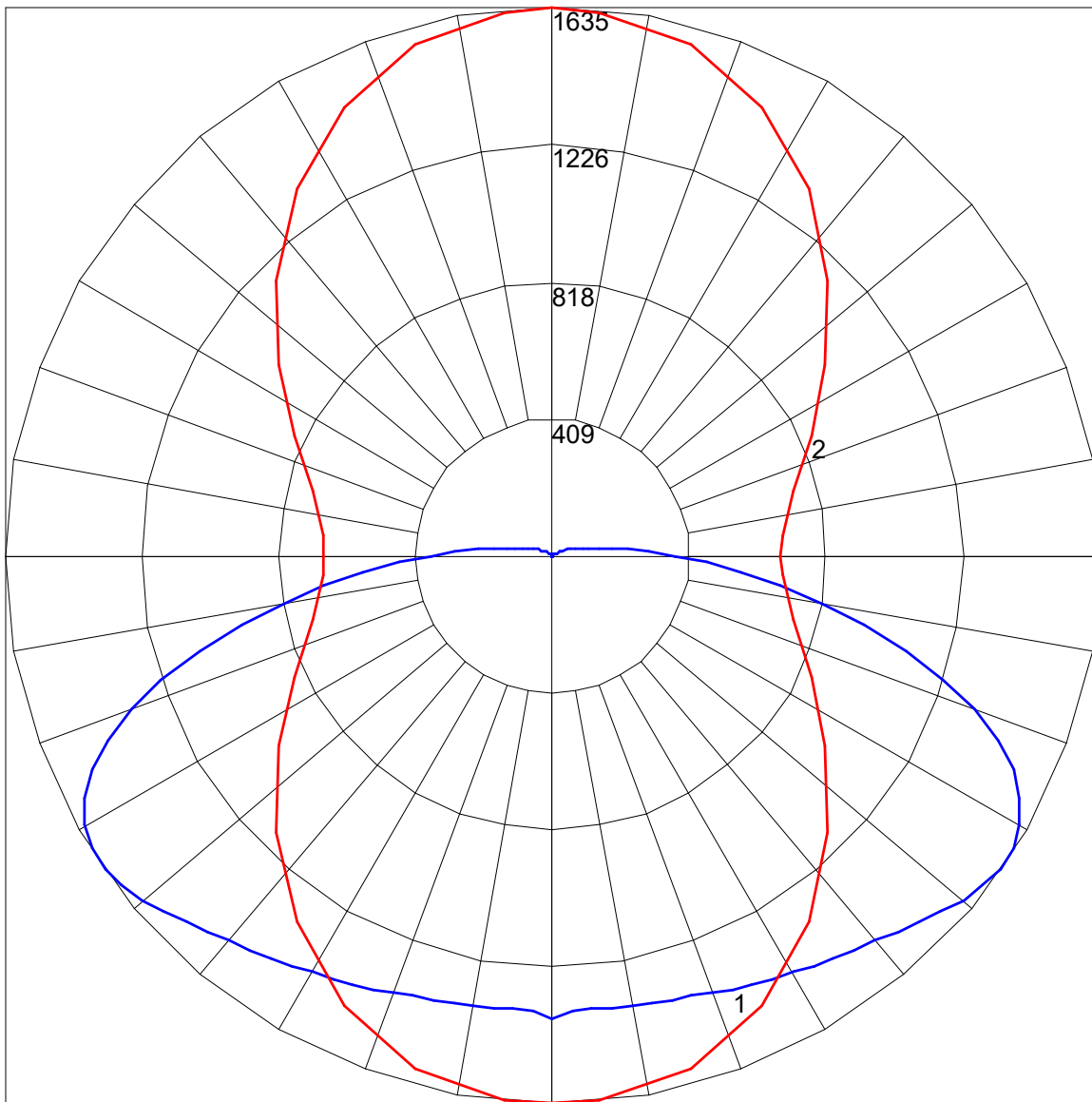
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	109	109	103	103	103	98	98	98	96
1	104	98	93	87	101	95	90	86	90	86	82	85	82	79	81	78	76	73
2	93	83	75	68	90	81	73	67	76	70	64	72	67	62	69	64	60	57
3	84	71	62	54	81	69	61	53	66	58	52	62	56	50	59	54	49	46
4	76	62	52	45	73	61	51	44	57	49	43	54	47	42	52	46	41	38
5	69	55	45	37	67	54	44	37	51	43	36	48	41	35	46	40	35	32
6	64	49	39	32	61	48	38	32	45	37	31	43	36	30	41	35	30	27
7	59	44	35	28	57	43	34	28	41	33	27	39	32	26	37	31	26	24
8	55	40	31	24	53	39	30	24	37	29	24	36	29	23	34	28	23	21
9	51	36	28	22	49	36	27	22	34	27	21	33	26	21	31	25	20	18
10	48	34	25	20	46	33	25	19	31	24	19	30	24	19	29	23	18	17

POLAR GRAPH



Maximum Candela = 1635 Located At Horizontal Angle = 90, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)