



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EG3-4-LED-06L-SA-PG-50-80.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] EG3-4-LED-06L-SA-PG-50-80
[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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6453
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	8305	8939	10405
55	7567	9336	12022
65	6776	9783	12748
75	5801	9694	11136
85	3975	7975	7586

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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>
0.0	1380	1380	1380	1380	1380	1380	1380	1380	1380	1380
2.5	1416	1410	1393	1393	1391	1381	1374	1370	1366	1360
5.0	1416	1411	1393	1393	1391	1382	1376	1372	1367	1361
7.5	1411	1406	1389	1391	1389	1381	1376	1372	1369	1364
10.0	1404	1400	1382	1385	1384	1378	1374	1373	1371	1366
12.5	1393	1389	1372	1376	1379	1373	1373	1374	1374	1370
15.0	1377	1373	1359	1364	1369	1368	1371	1377	1379	1377
17.5	1357	1354	1342	1351	1359	1363	1369	1379	1384	1383
20.0	1335	1332	1322	1333	1348	1356	1368	1383	1392	1392
22.5	1310	1306	1299	1316	1334	1349	1368	1388	1401	1402
25.0	1279	1276	1272	1294	1319	1342	1367	1393	1409	1413
27.5	1245	1243	1242	1270	1304	1333	1367	1399	1419	1425
30.0	1207	1205	1209	1243	1285	1324	1366	1405	1429	1437
32.5	1165	1164	1172	1211	1263	1314	1365	1410	1440	1450
35.0	1121	1121	1133	1180	1242	1303	1364	1418	1452	1465
37.5	1072	1073	1091	1145	1216	1289	1362	1425	1466	1481
40.0	1022	1022	1044	1109	1190	1275	1360	1432	1481	1501
42.5	966	969	998	1071	1162	1260	1357	1441	1499	1523
45.0	910	915	950	1031	1133	1244	1355	1453	1518	1547
47.5	853	857	900	988	1101	1225	1352	1462	1539	1572
50.0	797	802	847	945	1067	1207	1348	1471	1560	1598
52.5	740	745	794	900	1031	1185	1343	1478	1575	1617
55.0	684	690	742	852	995	1164	1335	1480	1583	1628
57.5	627	633	690	801	956	1139	1322	1474	1580	1626
60.0	572	579	635	751	916	1111	1301	1458	1563	1607
62.5	517	522	583	703	875	1078	1274	1430	1528	1570
65.0	464	469	531	655	833	1041	1236	1387	1475	1512
67.5	407	416	482	607	791	999	1186	1322	1404	1433
70.0	357	365	432	560	744	950	1125	1246	1315	1336
72.5	307	316	381	514	694	889	1051	1154	1203	1223
75.0	258	267	333	467	643	823	964	1049	1083	1098
77.5	210	219	288	417	586	748	868	930	954	954
80.0	163	173	244	370	524	666	762	808	821	816
82.5	120	130	201	323	460	574	653	687	687	687
85.0	76	88	162	274	392	485	542	570	566	565
87.5	44	57	126	227	327	402	442	453	460	459
90.0	26	35	94	182	265	323	353	362	367	365
92.5	23	25	67	141	208	255	280	287	287	288
95.0	22	21	46	106	159	199	219	226	227	225
97.5	20	19	31	75	121	153	172	178	179	176
100.0	17	16	21	51	90	118	134	140	142	140
102.5	16	15	14	34	65	88	104	111	111	112
105.0	15	14	10	23	45	66	80	88	89	90
107.5	13	12	9	14	30	47	61	67	71	72
110.0	12	11	8	9	21	33	44	51	56	58
112.5	10	9	6	5	13	24	32	38	42	44
115.0	9	8	6	4	8	16	24	29	33	34
117.5	8	7	5	4	5	11	17	23	26	27
120.0	7	6	5	3	2	7	12	16	20	21
122.5	5	5	4	2	2	4	8	12	14	15
125.0	4	4	3	2	1	2	5	8	10	11
127.5	4	4	3	2	1	1	2	5	7	8
130.0	2	2	2	1	1	1	0	2	4	5
132.5	2	2	2	1	1	1	0	1	2	3

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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

	<u>90</u>
0.0	1380
2.5	1357
5.0	1358
7.5	1361
10.0	1363
12.5	1368
15.0	1373
17.5	1380
20.0	1390
22.5	1400
25.0	1411
27.5	1423
30.0	1436
32.5	1450
35.0	1465
37.5	1481
40.0	1501
42.5	1524
45.0	1549
47.5	1575
50.0	1600
52.5	1620
55.0	1634
57.5	1631
60.0	1612
62.5	1574
65.0	1515
67.5	1436
70.0	1340
72.5	1225
75.0	1093
77.5	952
80.0	817

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CANDELA TABULATION - (Cont.)

82.5	688
85.0	565
87.5	459
90.0	365
92.5	290
95.0	226
97.5	176
100.0	140
102.5	112
105.0	90
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	519.93	N.A.	8.10
0-30	1140.66	N.A.	17.70
0-40	1954.45	N.A.	30.30
0-60	3951.48	N.A.	61.20
0-80	5736.47	N.A.	88.90
0-90	6183.18	N.A.	95.80
10-90	6051.3	N.A.	93.80
20-40	1434.52	N.A.	22.20
20-50	2392.22	N.A.	37.10
40-70	2997.62	N.A.	46.50
60-80	1784.99	N.A.	27.70
70-80	784.40	N.A.	12.20
80-90	446.71	N.A.	6.90
90-110	243.49	N.A.	3.80
90-120	262.72	N.A.	4.10
90-130	267.78	N.A.	4.20
90-150	268.94	N.A.	4.20
90-180	269.34	N.A.	4.20
110-180	25.85	N.A.	0.40
0-180	6452.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.88
10-20	388.06
20-30	620.72
30-40	813.79
40-50	957.70
50-60	1039.33
60-70	1000.59
70-80	784.40
80-90	446.71
90-100	181.11
100-110	62.38
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

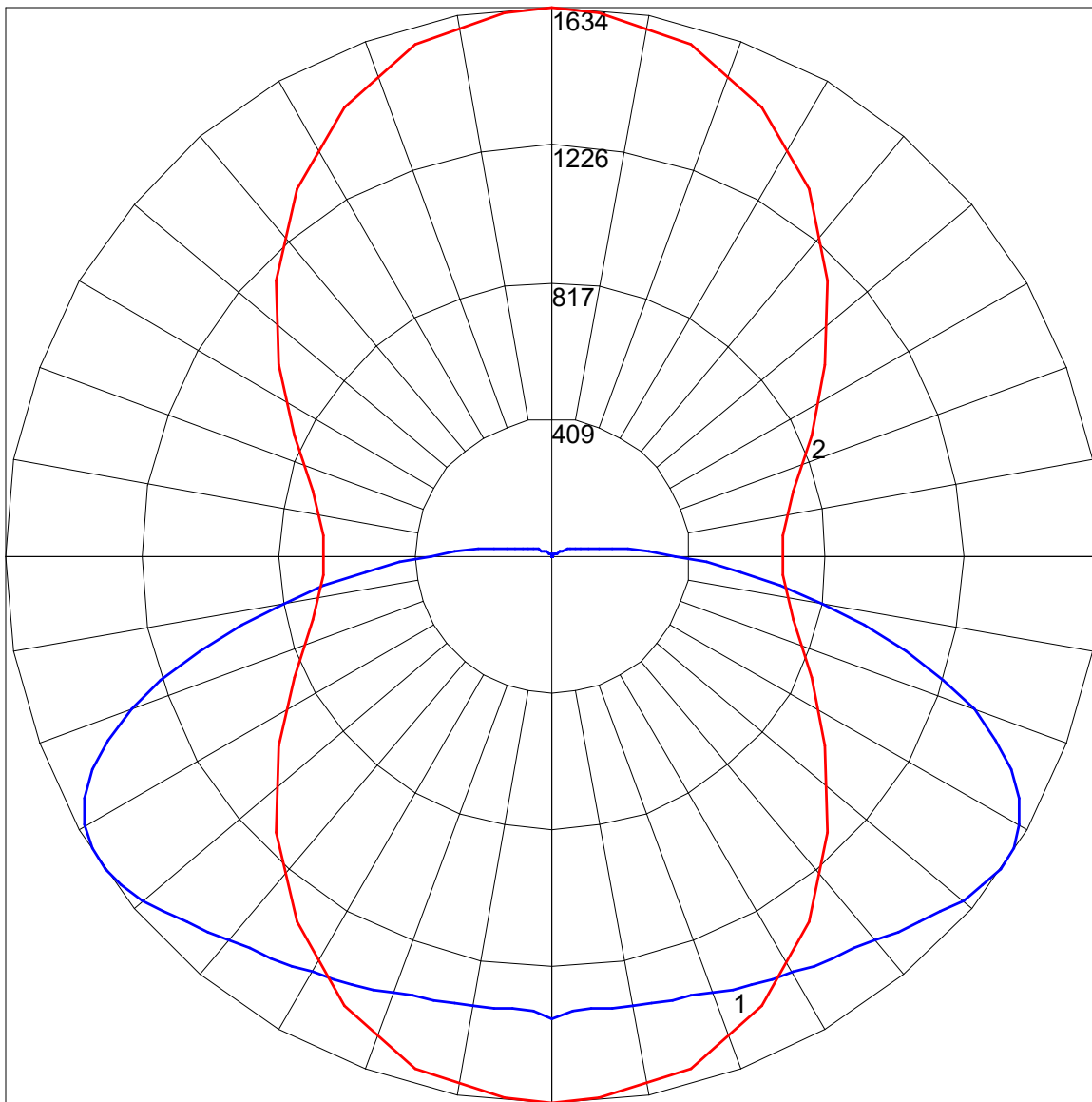
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	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	68	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	19	46	33	25	19	31	24	19	30	24	19	29	23	18	17

POLAR GRAPH



Maximum Candela = 1634 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.)