



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-50-80.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-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	4508
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	8716	6826	6516
55	8286	5646	5055
65	8441	4577	3467
75	9444	3852	2028
85	13547	3141	765

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-50-80.IES

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>
0.0	1551	1551	1551	1551	1551	1551	1551	1551	1551	1551
2.5	1598	1577	1533	1518	1502	1518	1533	1577	1598	1577
5.0	1587	1568	1525	1512	1498	1512	1525	1568	1587	1568
7.5	1573	1556	1516	1504	1490	1504	1516	1556	1573	1556
10.0	1549	1537	1502	1490	1478	1490	1502	1537	1549	1537
12.5	1516	1507	1481	1473	1462	1473	1481	1507	1516	1507
15.0	1477	1471	1455	1455	1446	1455	1455	1471	1477	1471
17.5	1437	1434	1423	1436	1426	1436	1423	1434	1437	1434
20.0	1391	1392	1388	1411	1404	1411	1388	1392	1391	1392
22.5	1342	1345	1351	1382	1379	1382	1351	1345	1342	1345
25.0	1296	1293	1309	1347	1350	1347	1309	1293	1296	1293
27.5	1260	1250	1261	1310	1316	1310	1261	1250	1260	1250
30.0	1234	1216	1213	1266	1280	1266	1213	1216	1234	1216
32.5	1206	1188	1168	1222	1240	1222	1168	1188	1206	1188
35.0	1169	1157	1127	1173	1195	1173	1127	1157	1169	1157
37.5	1122	1118	1086	1120	1145	1120	1086	1118	1122	1118
40.0	1069	1066	1046	1065	1090	1065	1046	1066	1069	1066
42.5	1011	1008	1001	1005	1032	1005	1001	1008	1011	1008
45.0	955	951	950	943	970	943	950	951	955	951
47.5	903	897	894	881	904	881	894	897	903	897
50.0	849	841	834	819	836	819	834	841	849	841
52.5	797	785	770	757	765	757	770	785	797	785
55.0	749	731	704	689	687	689	704	731	749	731
57.5	706	679	644	628	613	628	644	679	706	679
60.0	660	637	585	564	542	564	585	637	660	637
62.5	617	594	533	504	476	504	533	594	617	594
65.0	578	556	487	444	412	444	487	556	578	556
67.5	538	516	444	386	352	386	444	516	538	516
70.0	499	477	404	333	297	333	404	477	499	477
72.5	459	438	364	284	246	284	364	438	459	438
75.0	420	399	327	241	199	241	327	399	420	399
77.5	380	362	291	203	157	203	291	362	380	362
80.0	339	321	256	168	119	168	256	321	339	321
82.5	297	283	223	138	85	138	223	283	297	283
85.0	259	247	191	112	57	112	191	247	259	247
87.5	226	215	164	90	36	90	164	215	226	215
90.0	197	186	139	73	26	73	139	186	197	186
92.5	174	165	122	61	24	61	122	165	174	165
95.0	157	149	110	52	22	52	110	149	157	149
97.5	141	133	98	43	20	43	98	133	141	133
100.0	125	119	87	35	18	35	87	119	125	119
102.5	111	104	76	28	16	28	76	104	111	104
105.0	100	94	66	22	14	22	66	94	100	94
107.5	90	83	57	16	11	16	57	83	90	83
110.0	80	73	48	10	9	10	48	73	80	73
112.5	71	64	40	5	7	5	40	64	71	64
115.0	63	56	32	3	6	3	32	56	63	56
117.5	55	48	25	3	5	3	25	48	55	48
120.0	47	40	18	2	3	2	18	40	47	40
122.5	40	33	11	1	2	1	11	33	40	33
125.0	33	27	6	1	1	1	6	27	33	27
127.5	27	20	1	0	1	0	1	20	27	20
130.0	20	14	0	0	1	0	0	14	20	14
132.5	14	8	1	1	1	1	1	8	14	8

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-50-80.IES

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	1551	1551	1551	1551	1551	1551	1551
2.5	1533	1518	1502	1518	1533	1577	1598
5.0	1525	1512	1498	1512	1525	1568	1587
7.5	1516	1504	1490	1504	1516	1556	1573
10.0	1502	1490	1478	1490	1502	1537	1549
12.5	1481	1473	1462	1473	1481	1507	1516
15.0	1455	1455	1446	1455	1455	1471	1477
17.5	1423	1436	1426	1436	1423	1434	1437
20.0	1388	1411	1404	1411	1388	1392	1391
22.5	1351	1382	1379	1382	1351	1345	1342
25.0	1309	1347	1350	1347	1309	1293	1296
27.5	1261	1310	1316	1310	1261	1250	1260
30.0	1213	1266	1280	1266	1213	1216	1234
32.5	1168	1222	1240	1222	1168	1188	1206
35.0	1127	1173	1195	1173	1127	1157	1169
37.5	1086	1120	1145	1120	1086	1118	1122
40.0	1046	1065	1090	1065	1046	1066	1069
42.5	1001	1005	1032	1005	1001	1008	1011
45.0	950	943	970	943	950	951	955
47.5	894	881	904	881	894	897	903
50.0	834	819	836	819	834	841	849
52.5	770	757	765	757	770	785	797
55.0	704	689	687	689	704	731	749
57.5	644	628	613	628	644	679	706
60.0	585	564	542	564	585	637	660
62.5	533	504	476	504	533	594	617
65.0	487	444	412	444	487	556	578
67.5	444	386	352	386	444	516	538
70.0	404	333	297	333	404	477	499
72.5	364	284	246	284	364	438	459
75.0	327	241	199	241	327	399	420
77.5	291	203	157	203	291	362	380
80.0	256	168	119	168	256	321	339

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-50-80.IES

CANDELA TABULATION - (Cont.)

82.5	223	138	85	138	223	283	297
85.0	191	112	57	112	191	247	259
87.5	164	90	36	90	164	215	226
90.0	139	73	26	73	139	186	197
92.5	122	61	24	61	122	165	174
95.0	110	52	22	52	110	149	157
97.5	98	43	20	43	98	133	141
100.0	87	35	18	35	87	119	125
102.5	76	28	16	28	76	104	111
105.0	66	22	14	22	66	94	100
107.5	57	16	11	16	57	83	90
110.0	48	10	9	10	48	73	80
112.5	40	5	7	5	40	64	71
115.0	32	3	6	3	32	56	63
117.5	25	3	5	3	25	48	55
120.0	18	2	3	2	18	40	47
122.5	11	1	2	1	11	33	40
125.0	6	1	1	1	6	27	33
127.5	1	0	1	0	1	20	27
130.0	0	0	1	0	0	14	20
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-50-80.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	557.67	N.A.	12.40
0-30	1165.59	N.A.	25.90
0-40	1889.9	N.A.	41.90
0-60	3261.46	N.A.	72.30
0-80	4092.18	N.A.	90.80
0-90	4288.75	N.A.	95.10
10-90	4142.81	N.A.	91.90
20-40	1332.23	N.A.	29.60
20-50	2066.2	N.A.	45.80
40-70	1863.54	N.A.	41.30
60-80	830.73	N.A.	18.40
70-80	338.74	N.A.	7.50
80-90	196.56	N.A.	4.40
90-110	173.73	N.A.	3.90
90-120	205.49	N.A.	4.60
90-130	217.21	N.A.	4.80
90-150	219.37	N.A.	4.90
90-180	219.37	N.A.	4.90
110-180	45.64	N.A.	1.00
0-180	4508.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.93
10-20	411.74
20-30	607.92
30-40	724.31
40-50	733.97
50-60	637.58
60-70	491.98
70-80	338.74
80-90	196.56
90-100	110.05
100-110	63.67
110-120	31.76
120-130	11.72
130-140	2.16
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

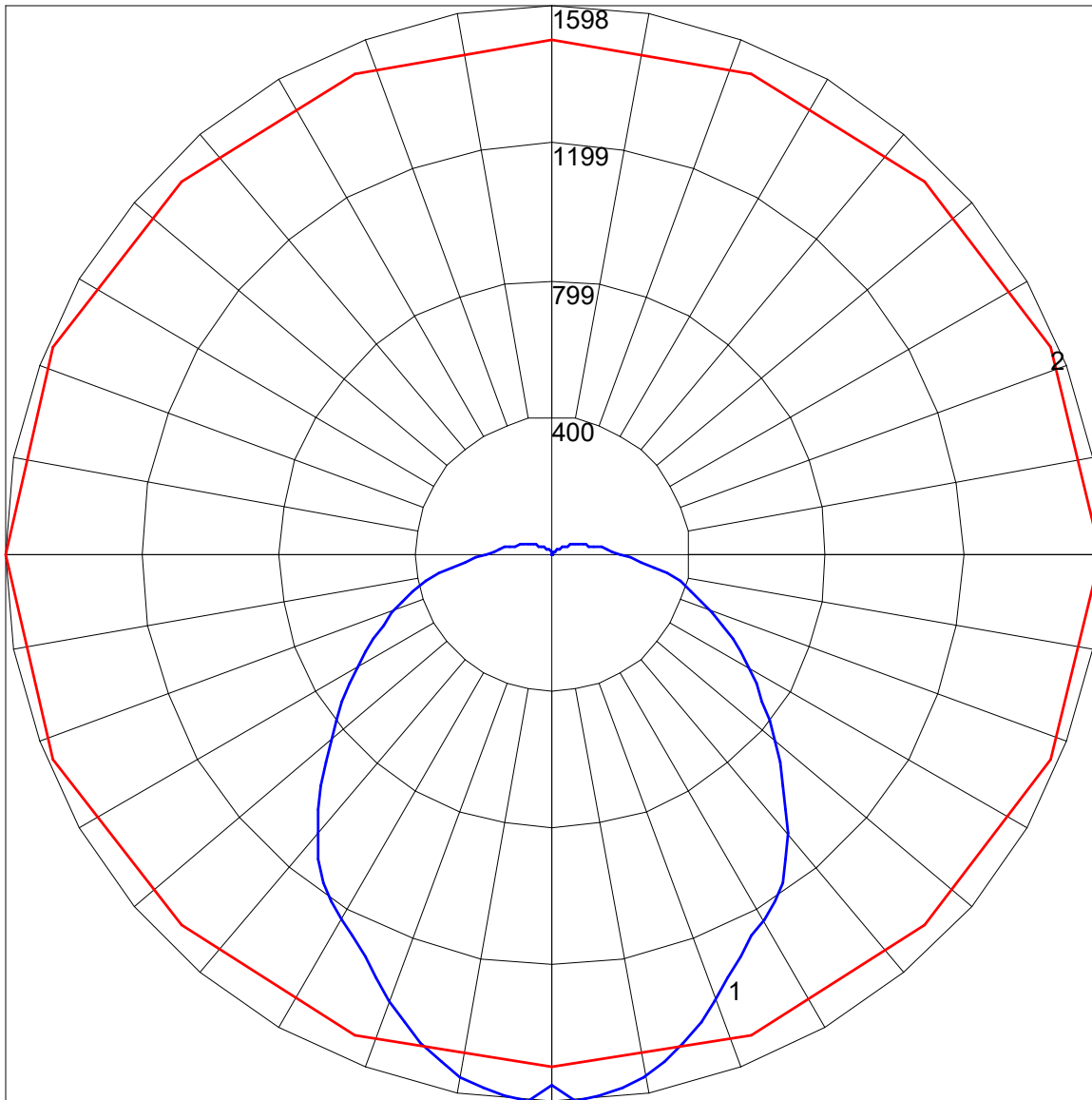
IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-50-80.IES

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 = 1598 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.)