



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EG3-4-LED-06L-DA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3606

[TESTLAB] TUV SUD America

[TESTDATE] 12/7/2018

[ISSUEDATE] 07/22/2021

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] EG3-4-LED-06L-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	6695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	48
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	12950	10139	9673
55	12301	8389	7512
65	12545	6795	5150
75	14031	5713	3016
85	20138	4670	1128

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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>
0.0	2303	2303	2303	2303	2303	2303	2303	2303	2303	2303
2.5	2373	2342	2277	2254	2230	2254	2277	2342	2373	2342
5.0	2357	2329	2265	2245	2225	2245	2265	2329	2357	2329
7.5	2336	2311	2251	2234	2213	2234	2251	2311	2336	2311
10.0	2301	2282	2231	2213	2195	2213	2231	2282	2301	2282
12.5	2252	2238	2200	2188	2171	2188	2200	2238	2252	2238
15.0	2194	2185	2161	2161	2147	2161	2161	2185	2194	2185
17.5	2134	2130	2114	2132	2118	2132	2114	2130	2134	2130
20.0	2066	2068	2062	2095	2085	2095	2062	2068	2066	2068
22.5	1993	1997	2006	2053	2048	2053	2006	1997	1993	1997
25.0	1924	1921	1944	2001	2005	2001	1944	1921	1924	1921
27.5	1872	1857	1873	1945	1955	1945	1873	1857	1872	1857
30.0	1833	1806	1801	1880	1901	1880	1801	1806	1833	1806
32.5	1791	1764	1735	1815	1841	1815	1735	1764	1791	1764
35.0	1736	1719	1674	1742	1774	1742	1674	1719	1736	1719
37.5	1667	1660	1613	1664	1700	1664	1613	1660	1667	1660
40.0	1588	1583	1553	1581	1619	1581	1553	1583	1588	1583
42.5	1502	1497	1486	1492	1532	1492	1486	1497	1502	1497
45.0	1419	1413	1411	1400	1440	1400	1411	1413	1419	1413
47.5	1341	1332	1328	1309	1342	1309	1328	1332	1341	1332
50.0	1261	1249	1238	1216	1241	1216	1238	1249	1261	1249
52.5	1184	1166	1144	1124	1136	1124	1144	1166	1184	1166
55.0	1112	1086	1046	1024	1021	1024	1046	1086	1112	1086
57.5	1048	1009	956	932	911	932	956	1009	1048	1009
60.0	980	946	869	837	805	837	869	946	980	946
62.5	917	882	792	748	707	748	792	882	917	882
65.0	859	825	723	659	612	659	723	825	859	825
67.5	799	766	660	574	523	574	660	766	799	766
70.0	741	708	600	494	441	494	600	708	741	708
72.5	682	650	540	422	365	422	540	650	682	650
75.0	624	593	485	358	296	358	485	593	624	593
77.5	565	537	432	301	233	301	432	537	565	537
80.0	503	477	380	249	177	249	380	477	503	477
82.5	441	420	331	205	126	205	331	420	441	420
85.0	385	367	284	167	84	167	284	367	385	367
87.5	335	320	243	134	54	134	243	320	335	320
90.0	293	276	207	108	39	108	207	276	293	276
92.5	259	245	181	91	35	91	181	245	259	245
95.0	233	221	163	77	32	77	163	221	233	221
97.5	209	198	146	64	29	64	146	198	209	198
100.0	185	176	129	52	27	52	129	176	185	176
102.5	165	155	113	42	24	42	113	155	165	155
105.0	148	139	98	33	21	33	98	139	148	139
107.5	133	123	85	24	17	24	85	123	133	123
110.0	119	109	72	15	14	15	72	109	119	109
112.5	105	95	59	8	11	8	59	95	105	95
115.0	93	83	48	5	9	5	48	83	93	83
117.5	81	71	37	4	7	4	37	71	81	71
120.0	70	60	26	3	5	3	26	60	70	60
122.5	59	49	17	2	3	2	17	49	59	49
125.0	49	40	9	1	2	1	9	40	49	40
127.5	40	30	2	0	1	0	2	30	40	30
130.0	30	21	0	0	1	0	0	21	30	21
132.5	21	12	1	1	1	1	1	12	21	12

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CANDELA TABULATION - (Cont.)

135.0	12	3	1	1	1	1	1	3	12	3
137.5	4	1	1	1	2	1	1	1	4	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	2303	2303	2303	2303	2303	2303	2303
2.5	2277	2254	2230	2254	2277	2342	2373
5.0	2265	2245	2225	2245	2265	2329	2357
7.5	2251	2234	2213	2234	2251	2311	2336
10.0	2231	2213	2195	2213	2231	2282	2301
12.5	2200	2188	2171	2188	2200	2238	2252
15.0	2161	2161	2147	2161	2161	2185	2194
17.5	2114	2132	2118	2132	2114	2130	2134
20.0	2062	2095	2085	2095	2062	2068	2066
22.5	2006	2053	2048	2053	2006	1997	1993
25.0	1944	2001	2005	2001	1944	1921	1924
27.5	1873	1945	1955	1945	1873	1857	1872
30.0	1801	1880	1901	1880	1801	1806	1833
32.5	1735	1815	1841	1815	1735	1764	1791
35.0	1674	1742	1774	1742	1674	1719	1736
37.5	1613	1664	1700	1664	1613	1660	1667
40.0	1553	1581	1619	1581	1553	1583	1588
42.5	1486	1492	1532	1492	1486	1497	1502
45.0	1411	1400	1440	1400	1411	1413	1419
47.5	1328	1309	1342	1309	1328	1332	1341
50.0	1238	1216	1241	1216	1238	1249	1261
52.5	1144	1124	1136	1124	1144	1166	1184
55.0	1046	1024	1021	1024	1046	1086	1112
57.5	956	932	911	932	956	1009	1048
60.0	869	837	805	837	869	946	980
62.5	792	748	707	748	792	882	917
65.0	723	659	612	659	723	825	859
67.5	660	574	523	574	660	766	799
70.0	600	494	441	494	600	708	741
72.5	540	422	365	422	540	650	682
75.0	485	358	296	358	485	593	624
77.5	432	301	233	301	432	537	565
80.0	380	249	177	249	380	477	503

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82.5	331	205	126	205	331	420	441
85.0	284	167	84	167	284	367	385
87.5	243	134	54	134	243	320	335
90.0	207	108	39	108	207	276	293
92.5	181	91	35	91	181	245	259
95.0	163	77	32	77	163	221	233
97.5	146	64	29	64	146	198	209
100.0	129	52	27	52	129	176	185
102.5	113	42	24	42	113	155	165
105.0	98	33	21	33	98	139	148
107.5	85	24	17	24	85	123	133
110.0	72	15	14	15	72	109	119
112.5	59	8	11	8	59	95	105
115.0	48	5	9	5	48	83	93
117.5	37	4	7	4	37	71	81
120.0	26	3	5	3	26	60	70
122.5	17	2	3	2	17	49	59
125.0	9	1	2	1	9	40	49
127.5	2	0	1	0	2	30	40
130.0	0	0	1	0	0	21	30
132.5	1	1	1	1	1	12	21
135.0	1	1	1	1	1	3	12
137.5	1	1	2	1	1	1	4
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	828.26	N.A.	12.40
0-30	1731.15	N.A.	25.90
0-40	2806.85	N.A.	41.90
0-60	4843.78	N.A.	72.30
0-80	6077.32	N.A.	90.80
0-90	6369.3	N.A.	95.10
10-90	6152.57	N.A.	91.90
20-40	1978.59	N.A.	29.60
20-50	3068.57	N.A.	45.80
40-70	2767.55	N.A.	41.30
60-80	1233.55	N.A.	18.40
70-80	502.92	N.A.	7.50
80-90	291.97	N.A.	4.40
90-110	258.04	N.A.	3.90
90-120	305.24	N.A.	4.60
90-130	322.73	N.A.	4.80
90-150	325.77	N.A.	4.90
90-180	325.77	N.A.	4.90
110-180	67.74	N.A.	1.00
0-180	6695.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	216.73
10-20	611.53
20-30	902.89
30-40	1075.7
40-50	1089.97
50-60	946.95
60-70	730.63
70-80	502.92
80-90	291.97
90-100	163.38
100-110	94.66
110-120	47.20
120-130	17.49
130-140	3.04
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

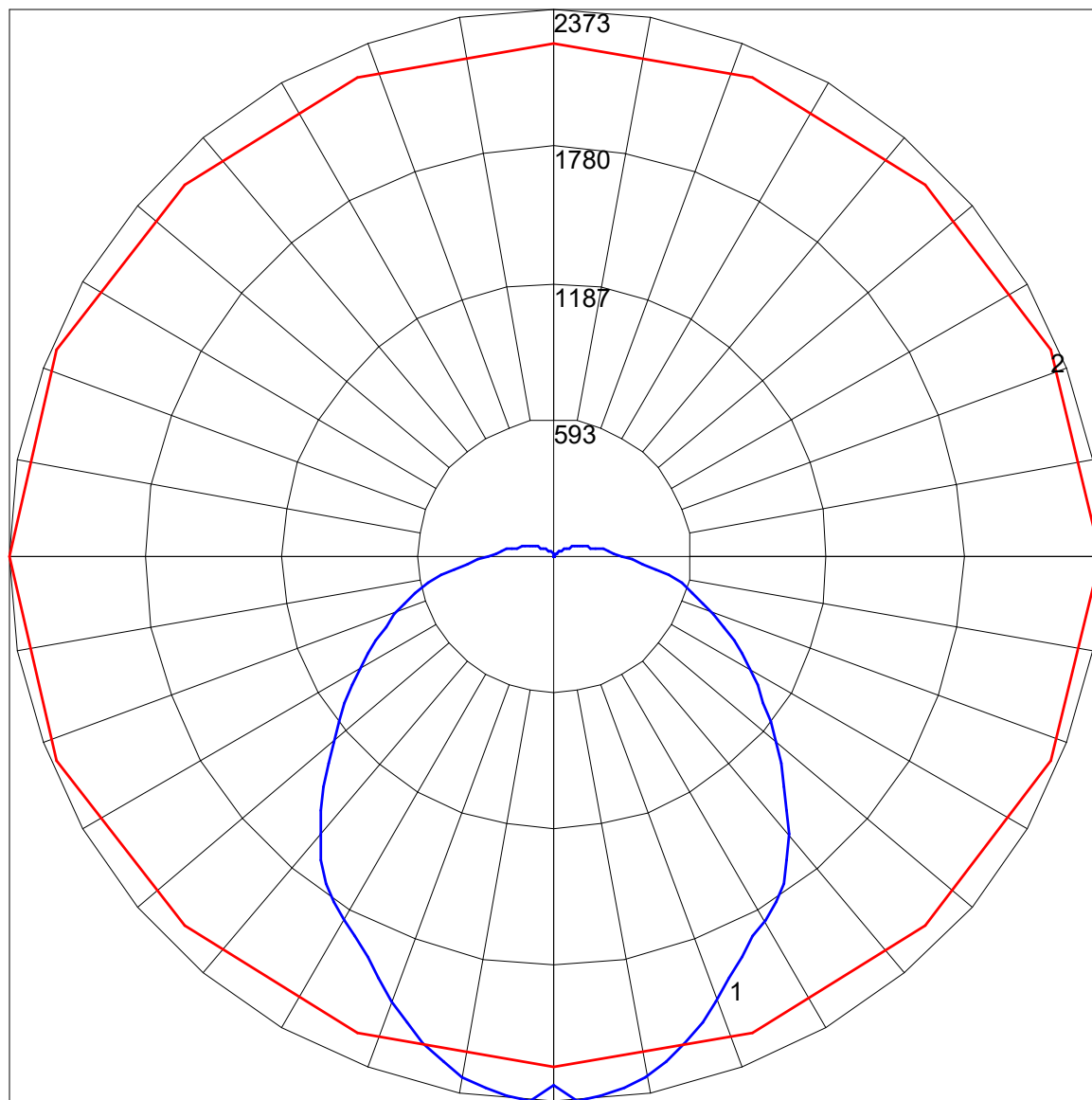
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2373 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.)