



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EG3-8-LED-11L-DA-S-40-80.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] EG3-8-LED-11L-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	10650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	75
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)	8.00 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	10508	8156	7691
55	10066	6770	5974
65	10407	5511	4098
75	11967	4656	2394
85	19105	3854	900

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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	3663	3663	3663	3663	3663	3663	3663	3663	3663	3663
2.5	3775	3725	3621	3586	3547	3586	3621	3725	3775	3725
5.0	3750	3704	3603	3571	3539	3571	3603	3704	3750	3704
7.5	3716	3676	3580	3554	3519	3554	3580	3676	3716	3676
10.0	3660	3629	3548	3521	3492	3521	3548	3629	3660	3629
12.5	3582	3560	3500	3480	3453	3480	3500	3560	3582	3560
15.0	3490	3476	3437	3438	3416	3438	3437	3476	3490	3476
17.5	3394	3388	3363	3391	3368	3391	3363	3388	3394	3388
20.0	3286	3289	3280	3332	3316	3332	3280	3289	3286	3289
22.5	3170	3176	3191	3265	3257	3265	3191	3176	3170	3176
25.0	3060	3056	3092	3184	3190	3184	3092	3056	3060	3056
27.5	2978	2954	2980	3093	3110	3093	2980	2954	2978	2954
30.0	2915	2873	2865	2990	3024	2990	2865	2873	2915	2873
32.5	2849	2806	2760	2886	2928	2886	2760	2806	2849	2806
35.0	2761	2735	2663	2771	2822	2771	2663	2735	2761	2735
37.5	2651	2641	2566	2647	2704	2647	2566	2641	2651	2641
40.0	2525	2517	2470	2514	2576	2514	2470	2517	2525	2517
42.5	2388	2382	2363	2373	2437	2373	2363	2382	2388	2382
45.0	2257	2248	2245	2227	2290	2227	2245	2248	2257	2248
47.5	2134	2119	2112	2082	2135	2082	2112	2119	2134	2119
50.0	2006	1987	1969	1935	1974	1935	1969	1987	2006	1987
52.5	1883	1854	1820	1788	1806	1788	1820	1854	1883	1854
55.0	1769	1727	1664	1628	1624	1628	1664	1727	1769	1727
57.5	1668	1605	1520	1482	1450	1482	1520	1605	1668	1605
60.0	1558	1505	1382	1331	1281	1331	1382	1505	1558	1505
62.5	1458	1403	1260	1190	1124	1190	1260	1403	1458	1403
65.0	1367	1312	1151	1048	974	1048	1151	1312	1367	1312
67.5	1272	1218	1050	913	833	913	1050	1218	1272	1218
70.0	1179	1126	955	787	701	787	955	1126	1179	1126
72.5	1084	1034	859	671	580	671	859	1034	1084	1034
75.0	993	944	771	569	470	569	771	944	993	944
77.5	898	853	688	479	371	479	688	853	898	853
80.0	799	759	605	397	281	397	605	759	799	759
82.5	702	668	526	326	201	326	526	668	702	668
85.0	613	584	452	265	134	265	452	584	613	584
87.5	533	509	386	213	86	213	386	509	533	509
90.0	466	439	329	171	62	171	329	439	466	439
92.5	412	389	288	144	56	144	288	389	412	389
95.0	371	351	259	122	51	122	259	351	371	351
97.5	333	315	232	102	47	102	232	315	333	315
100.0	295	280	205	83	43	83	205	280	295	280
102.5	263	247	180	67	38	67	180	247	263	247
105.0	236	221	156	52	33	52	156	221	236	221
107.5	212	196	135	38	28	38	135	196	212	196
110.0	189	173	114	24	23	24	114	173	189	173
112.5	168	152	94	13	18	13	94	152	168	152
115.0	147	132	76	9	14	9	76	132	147	132
117.5	129	113	58	7	11	7	58	113	129	113
120.0	111	95	42	4	8	4	42	95	111	95
122.5	94	78	28	3	5	3	28	78	94	78
125.0	78	63	14	2	4	2	14	63	78	63
127.5	63	48	3	1	2	1	3	48	63	48
130.0	48	33	1	1	1	1	1	33	48	33
132.5	33	19	1	1	1	1	1	19	33	19

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PHOTOMETRIC FILENAME : EG3-8-LED-11L-DA-S-40-80.IES

CANDELA TABULATION - (Cont.)

135.0	19	5	2	2	2	2	2	5	19	5
137.5	7	2	2	2	2	2	2	2	7	2
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	3663	3663	3663	3663	3663	3663	3663
2.5	3621	3586	3547	3586	3621	3725	3775
5.0	3603	3571	3539	3571	3603	3704	3750
7.5	3580	3554	3519	3554	3580	3676	3716
10.0	3548	3521	3492	3521	3548	3629	3660
12.5	3500	3480	3453	3480	3500	3560	3582
15.0	3437	3438	3416	3438	3437	3476	3490
17.5	3363	3391	3368	3391	3363	3388	3394
20.0	3280	3332	3316	3332	3280	3289	3286
22.5	3191	3265	3257	3265	3191	3176	3170
25.0	3092	3184	3190	3184	3092	3056	3060
27.5	2980	3093	3110	3093	2980	2954	2978
30.0	2865	2990	3024	2990	2865	2873	2915
32.5	2760	2886	2928	2886	2760	2806	2849
35.0	2663	2771	2822	2771	2663	2735	2761
37.5	2566	2647	2704	2647	2566	2641	2651
40.0	2470	2514	2576	2514	2470	2517	2525
42.5	2363	2373	2437	2373	2363	2382	2388
45.0	2245	2227	2290	2227	2245	2248	2257
47.5	2112	2082	2135	2082	2112	2119	2134
50.0	1969	1935	1974	1935	1969	1987	2006
52.5	1820	1788	1806	1788	1820	1854	1883
55.0	1664	1628	1624	1628	1664	1727	1769
57.5	1520	1482	1450	1482	1520	1605	1668
60.0	1382	1331	1281	1331	1382	1505	1558
62.5	1260	1190	1124	1190	1260	1403	1458
65.0	1151	1048	974	1048	1151	1312	1367
67.5	1050	913	833	913	1050	1218	1272
70.0	955	787	701	787	955	1126	1179
72.5	859	671	580	671	859	1034	1084
75.0	771	569	470	569	771	944	993
77.5	688	479	371	479	688	853	898
80.0	605	397	281	397	605	759	799

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82.5	526	326	201	326	526	668	702
85.0	452	265	134	265	452	584	613
87.5	386	213	86	213	386	509	533
90.0	329	171	62	171	329	439	466
92.5	288	144	56	144	288	389	412
95.0	259	122	51	122	259	351	371
97.5	232	102	47	102	232	315	333
100.0	205	83	43	83	205	280	295
102.5	180	67	38	67	180	247	263
105.0	156	52	33	52	156	221	236
107.5	135	38	28	38	135	196	212
110.0	114	24	23	24	114	173	189
112.5	94	13	18	13	94	152	168
115.0	76	9	14	9	76	132	147
117.5	58	7	11	7	58	113	129
120.0	42	4	8	4	42	95	111
122.5	28	3	5	3	28	78	94
125.0	14	2	4	2	14	63	78
127.5	3	1	2	1	3	48	63
130.0	1	1	1	1	1	33	48
132.5	1	1	1	1	1	19	33
135.0	2	2	2	2	2	5	19
137.5	2	2	2	2	2	2	7
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	1317.45	N.A.	12.40
0-30	2753.64	N.A.	25.90
0-40	4464.68	N.A.	41.90
0-60	7704.6	N.A.	72.30
0-80	9666.86	N.A.	90.80
0-90	10131.26	N.A.	95.10
10-90	9786.53	N.A.	91.90
20-40	3147.23	N.A.	29.60
20-50	4880.99	N.A.	45.80
40-70	4402.23	N.A.	41.30
60-80	1962.26	N.A.	18.40
70-80	799.95	N.A.	7.50
80-90	464.40	N.A.	4.40
90-110	410.41	N.A.	3.90
90-120	485.58	N.A.	4.60
90-130	513.53	N.A.	4.80
90-150	518.42	N.A.	4.90
90-180	518.42	N.A.	4.90
110-180	108.00	N.A.	1.00
0-180	10649.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	344.73
10-20	972.72
20-30	1436.19
30-40	1711.04
40-50	1733.76
50-60	1506.16
60-70	1162.31
70-80	799.95
80-90	464.40
90-100	259.75
100-110	150.66
110-120	75.17
120-130	27.95
130-140	4.88
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

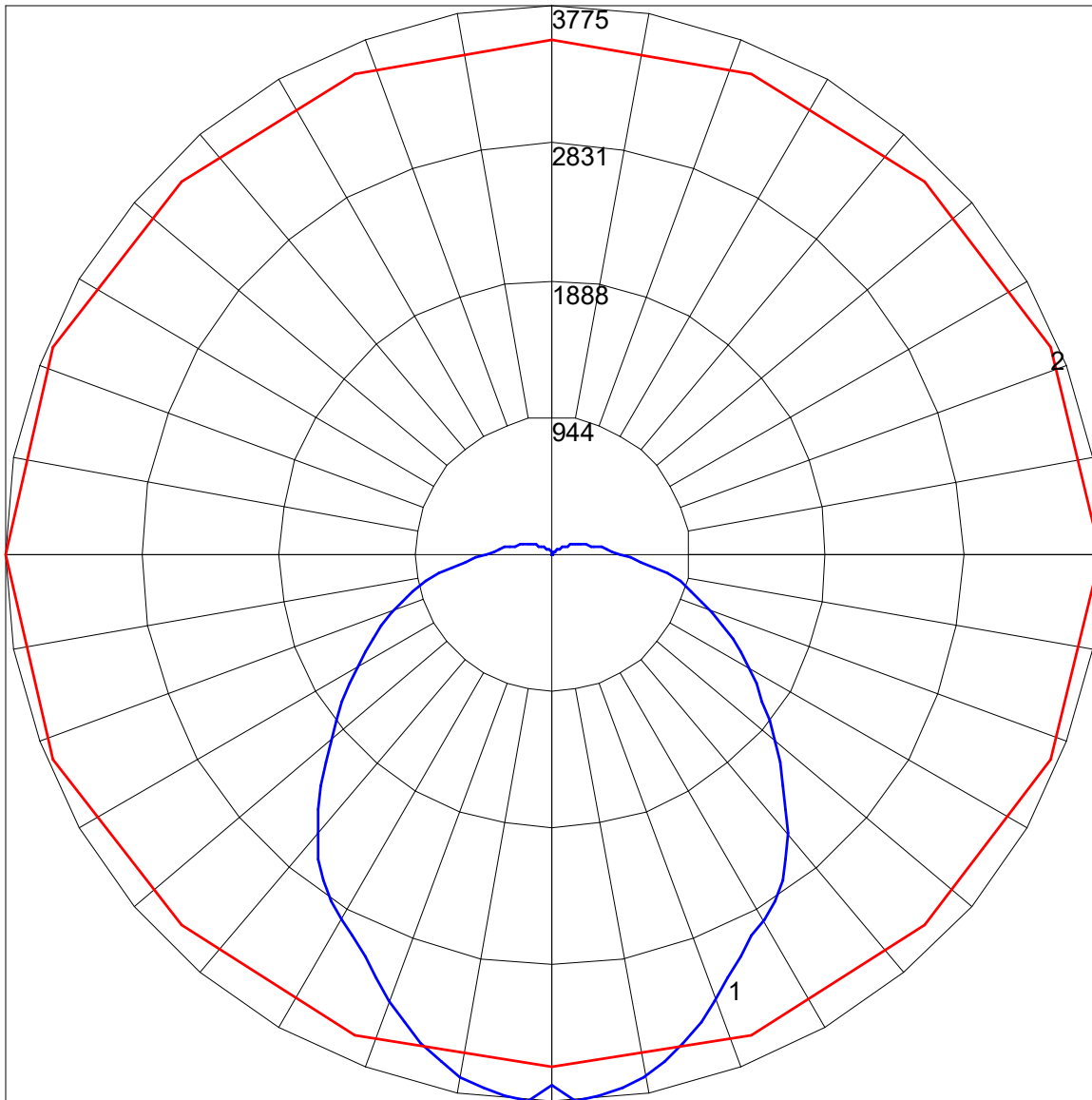
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	41	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 = 3775 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.)