



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-2-LED-04L-DA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3605
 [TESTLAB] TUV SUD America
 [TESTDATE] 12/7/2018 8:57:35 AM
 [ISSUEDATE] 07/22/2021
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] EG3-2-LED-04L-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	4455
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 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	17694	12780	12441
55	17537	11539	9815
65	17254	10003	7001
75	16377	7833	4340
85	15592	5218	1772

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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	1510	1510	1510	1510	1510	1510	1510	1510	1510	1510
2.5	1512	1508	1509	1512	1506	1512	1509	1508	1512	1508
5.0	1509	1506	1506	1508	1501	1508	1506	1506	1509	1506
7.5	1500	1498	1500	1500	1494	1500	1500	1498	1500	1498
10.0	1487	1484	1487	1491	1480	1491	1487	1484	1487	1484
12.5	1468	1468	1471	1474	1465	1474	1471	1468	1468	1468
15.0	1448	1446	1449	1455	1445	1455	1449	1446	1448	1446
17.5	1419	1421	1424	1431	1422	1431	1424	1421	1419	1421
20.0	1379	1387	1397	1403	1395	1403	1397	1387	1379	1387
22.5	1331	1342	1364	1371	1365	1371	1364	1342	1331	1342
25.0	1282	1292	1324	1336	1330	1336	1324	1292	1282	1292
27.5	1233	1240	1277	1295	1291	1295	1277	1240	1233	1240
30.0	1185	1190	1224	1252	1249	1252	1224	1190	1185	1190
32.5	1146	1145	1168	1205	1206	1205	1168	1145	1146	1145
35.0	1112	1104	1114	1154	1158	1154	1114	1104	1112	1104
37.5	1084	1071	1061	1100	1106	1100	1061	1071	1084	1071
40.0	1060	1039	1008	1043	1052	1043	1008	1039	1060	1039
42.5	1036	1007	956	976	990	976	956	1007	1036	1007
45.0	1008	977	909	912	926	912	909	977	1008	977
47.5	971	942	864	846	862	846	864	942	971	942
50.0	927	903	824	784	798	784	824	903	927	903
52.5	885	862	783	721	733	721	783	862	885	862
55.0	837	817	740	661	667	661	740	817	837	817
57.5	789	769	696	602	602	602	696	769	789	769
60.0	741	720	650	546	538	546	650	720	741	720
62.5	690	671	601	491	476	491	601	671	690	671
65.0	639	619	552	439	416	439	552	619	639	619
67.5	584	566	501	390	360	390	501	566	584	566
70.0	526	511	450	344	308	344	450	511	526	511
72.5	468	455	400	299	259	299	400	455	468	455
75.0	413	400	349	256	213	256	349	400	413	400
77.5	358	347	299	216	171	216	299	347	358	347
80.0	299	292	252	178	131	178	252	292	299	292
82.5	245	241	209	142	96	142	209	241	245	241
85.0	197	194	170	111	66	111	170	194	197	194
87.5	158	154	135	85	44	85	135	154	158	154
90.0	128	125	108	65	31	65	108	125	128	125
92.5	108	106	91	54	25	54	91	106	108	106
95.0	94	92	78	45	22	45	78	92	94	92
97.5	84	81	68	37	19	37	68	81	84	81
100.0	77	73	59	31	17	31	59	73	77	73
102.5	70	66	52	25	15	25	52	66	70	66
105.0	65	60	45	20	13	20	45	60	65	60
107.5	60	55	39	15	12	15	39	55	60	55
110.0	55	50	34	10	10	10	34	50	55	50
112.5	50	44	28	7	8	7	28	44	50	44
115.0	45	40	23	4	7	4	23	40	45	40
117.5	40	34	18	3	5	3	18	34	40	34
120.0	35	29	13	2	4	2	13	29	35	29
122.5	29	24	8	2	3	2	8	24	29	24
125.0	24	19	5	1	2	1	5	19	24	19
127.5	19	14	2	0	1	0	2	14	19	14
130.0	14	9	0	0	1	0	0	9	14	9
132.5	10	6	0	0	0	0	0	6	10	6

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CANDELA TABULATION - (Cont.)

135.0	6	3	0	0	0	0	0	3	6	3
137.5	3	1	0	0	0	0	0	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	1510	1510	1510	1510	1510	1510	1510
2.5	1509	1512	1506	1512	1509	1508	1512
5.0	1506	1508	1501	1508	1506	1506	1509
7.5	1500	1500	1494	1500	1500	1498	1500
10.0	1487	1491	1480	1491	1487	1484	1487
12.5	1471	1474	1465	1474	1471	1468	1468
15.0	1449	1455	1445	1455	1449	1446	1448
17.5	1424	1431	1422	1431	1424	1421	1419
20.0	1397	1403	1395	1403	1397	1387	1379
22.5	1364	1371	1365	1371	1364	1342	1331
25.0	1324	1336	1330	1336	1324	1292	1282
27.5	1277	1295	1291	1295	1277	1240	1233
30.0	1224	1252	1249	1252	1224	1190	1185
32.5	1168	1205	1206	1205	1168	1145	1146
35.0	1114	1154	1158	1154	1114	1104	1112
37.5	1061	1100	1106	1100	1061	1071	1084
40.0	1008	1043	1052	1043	1008	1039	1060
42.5	956	976	990	976	956	1007	1036
45.0	909	912	926	912	909	977	1008
47.5	864	846	862	846	864	942	971
50.0	824	784	798	784	824	903	927
52.5	783	721	733	721	783	862	885
55.0	740	661	667	661	740	817	837
57.5	696	602	602	602	696	769	789
60.0	650	546	538	546	650	720	741
62.5	601	491	476	491	601	671	690
65.0	552	439	416	439	552	619	639
67.5	501	390	360	390	501	566	584
70.0	450	344	308	344	450	511	526
72.5	400	299	259	299	400	455	468
75.0	349	256	213	256	349	400	413
77.5	299	216	171	216	299	347	358
80.0	252	178	131	178	252	292	299

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CANDELA TABULATION - (Cont.)

82.5	209	142	96	142	209	241	245
85.0	170	111	66	111	170	194	197
87.5	135	85	44	85	135	154	158
90.0	108	65	31	65	108	125	128
92.5	91	54	25	54	91	106	108
95.0	78	45	22	45	78	92	94
97.5	68	37	19	37	68	81	84
100.0	59	31	17	31	59	73	77
102.5	52	25	15	25	52	66	70
105.0	45	20	13	20	45	60	65
107.5	39	15	12	15	39	55	60
110.0	34	10	10	10	34	50	55
112.5	28	7	8	7	28	44	50
115.0	23	4	7	4	23	40	45
117.5	18	3	5	3	18	34	40
120.0	13	2	4	2	13	29	35
122.5	8	2	3	2	8	24	29
125.0	5	1	2	1	5	19	24
127.5	2	0	1	0	2	14	19
130.0	0	0	1	0	0	9	14
132.5	0	0	0	0	0	6	10
135.0	0	0	0	0	0	3	6
137.5	0	0	0	0	0	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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	551.64	N.A.	12.40
0-30	1156.38	N.A.	26.00
0-40	1862.52	N.A.	41.80
0-60	3252.65	N.A.	73.00
0-80	4130.96	N.A.	92.70
0-90	4301.33	N.A.	96.50
10-90	4158.19	N.A.	93.30
20-40	1310.88	N.A.	29.40
20-50	2037.08	N.A.	45.70
40-70	1919.32	N.A.	43.10
60-80	878.30	N.A.	19.70
70-80	349.11	N.A.	7.80
80-90	170.38	N.A.	3.80
90-110	120.45	N.A.	2.70
90-120	143.72	N.A.	3.20
90-130	152.45	N.A.	3.40
90-150	153.84	N.A.	3.50
90-180	153.84	N.A.	3.50
110-180	33.39	N.A.	0.70
0-180	4455.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.15
10-20	408.49
20-30	604.74
30-40	706.14
40-50	726.20
50-60	663.94
60-70	529.19
70-80	349.11
80-90	170.38
90-100	76.55
100-110	43.90
110-120	23.27
120-130	8.74
130-140	1.39
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

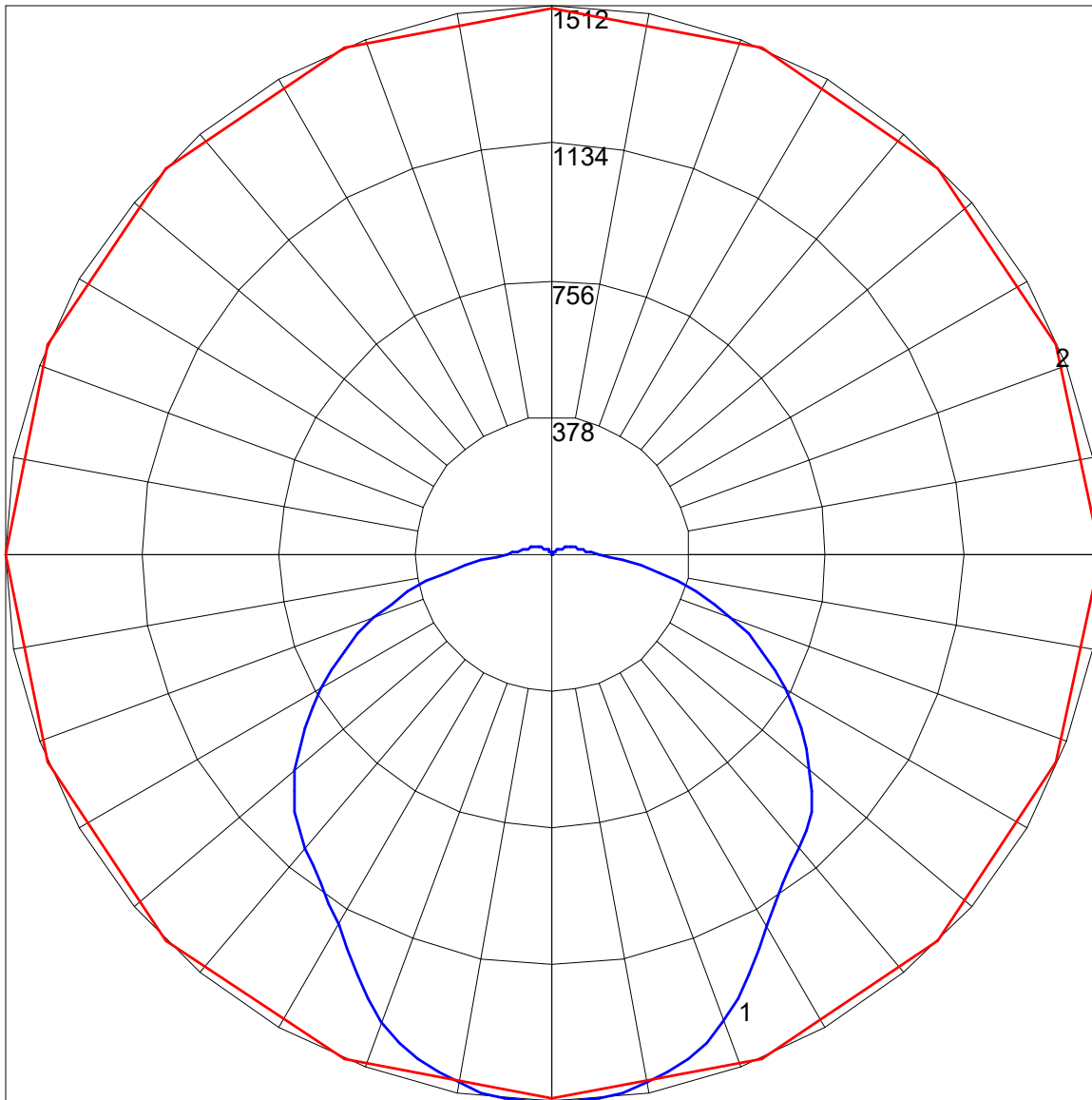
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	104	104	104	99	99	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	79
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	75	71	68	65
3	88	77	69	62	86	76	68	61	72	65	60	69	63	58	66	61	57	55
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	59	53	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	45	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	44	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	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 1512 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.)