



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-2-LED-04L-DA-S-50-80.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-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] 3500

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	18361	13258	12911
55	18208	11976	10183
65	17902	10384	7270
75	17011	8124	4503
85	16146	5402	1853

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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	1567	1567	1567	1567	1567	1567	1567	1567	1567	1567
2.5	1569	1565	1566	1569	1563	1569	1566	1565	1569	1565
5.0	1566	1563	1563	1565	1558	1565	1563	1563	1566	1563
7.5	1557	1555	1557	1557	1550	1557	1557	1555	1557	1555
10.0	1543	1540	1543	1547	1536	1547	1543	1540	1543	1540
12.5	1523	1523	1526	1530	1520	1530	1526	1523	1523	1523
15.0	1503	1501	1504	1510	1499	1510	1504	1501	1503	1501
17.5	1472	1475	1478	1485	1476	1485	1478	1475	1472	1475
20.0	1431	1439	1450	1456	1448	1456	1450	1439	1431	1439
22.5	1381	1393	1415	1423	1416	1423	1415	1393	1381	1393
25.0	1330	1341	1374	1386	1380	1386	1374	1341	1330	1341
27.5	1279	1287	1325	1344	1340	1344	1325	1287	1279	1287
30.0	1230	1235	1270	1299	1296	1299	1270	1235	1230	1235
32.5	1189	1188	1212	1250	1251	1250	1212	1188	1189	1188
35.0	1154	1146	1156	1197	1202	1197	1156	1146	1154	1146
37.5	1125	1111	1101	1142	1148	1142	1101	1111	1125	1111
40.0	1100	1078	1046	1082	1092	1082	1046	1078	1100	1078
42.5	1075	1045	992	1013	1027	1013	992	1045	1075	1045
45.0	1046	1014	943	946	961	946	943	1014	1046	1014
47.5	1008	978	897	878	895	878	897	978	1008	978
50.0	962	937	855	814	828	814	855	937	962	937
52.5	918	895	813	748	761	748	813	895	918	895
55.0	869	848	768	686	692	686	768	848	869	848
57.5	819	798	722	625	625	625	722	798	819	798
60.0	769	747	675	567	558	567	675	747	769	747
62.5	716	696	624	510	494	510	624	696	716	696
65.0	663	642	573	456	432	456	573	642	663	642
67.5	606	587	520	405	374	405	520	587	606	587
70.0	546	530	467	357	320	357	467	530	546	530
72.5	486	472	415	310	269	310	415	472	486	472
75.0	429	415	362	266	221	266	362	415	429	415
77.5	371	360	310	224	177	224	310	360	371	360
80.0	310	303	262	185	136	185	262	303	310	303
82.5	254	250	217	147	100	147	217	250	254	250
85.0	204	201	176	115	69	115	176	201	204	201
87.5	164	160	140	88	46	88	140	160	164	160
90.0	133	130	112	67	32	67	112	130	133	130
92.5	112	110	94	56	26	56	94	110	112	110
95.0	98	95	81	47	23	47	81	95	98	95
97.5	87	84	71	38	20	38	71	84	87	84
100.0	80	76	61	32	18	32	61	76	80	76
102.5	73	69	54	26	16	26	54	69	73	69
105.0	67	62	47	21	13	21	47	62	67	62
107.5	62	57	40	16	12	16	40	57	62	57
110.0	57	52	35	10	10	10	35	52	57	52
112.5	52	46	29	7	8	7	29	46	52	46
115.0	47	42	24	4	7	4	24	42	47	42
117.5	42	35	19	3	5	3	19	35	42	35
120.0	36	30	13	2	4	2	13	30	36	30
122.5	30	25	8	2	3	2	8	25	30	25
125.0	25	20	5	1	2	1	5	20	25	20
127.5	20	15	2	0	1	0	2	15	20	15
130.0	15	9	0	0	1	0	0	9	15	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	1567	1567	1567	1567	1567	1567	1567
2.5	1566	1569	1563	1569	1566	1565	1569
5.0	1563	1565	1558	1565	1563	1563	1566
7.5	1557	1557	1550	1557	1557	1555	1557
10.0	1543	1547	1536	1547	1543	1540	1543
12.5	1526	1530	1520	1530	1526	1523	1523
15.0	1504	1510	1499	1510	1504	1501	1503
17.5	1478	1485	1476	1485	1478	1475	1472
20.0	1450	1456	1448	1456	1450	1439	1431
22.5	1415	1423	1416	1423	1415	1393	1381
25.0	1374	1386	1380	1386	1374	1341	1330
27.5	1325	1344	1340	1344	1325	1287	1279
30.0	1270	1299	1296	1299	1270	1235	1230
32.5	1212	1250	1251	1250	1212	1188	1189
35.0	1156	1197	1202	1197	1156	1146	1154
37.5	1101	1142	1148	1142	1101	1111	1125
40.0	1046	1082	1092	1082	1046	1078	1100
42.5	992	1013	1027	1013	992	1045	1075
45.0	943	946	961	946	943	1014	1046
47.5	897	878	895	878	897	978	1008
50.0	855	814	828	814	855	937	962
52.5	813	748	761	748	813	895	918
55.0	768	686	692	686	768	848	869
57.5	722	625	625	625	722	798	819
60.0	675	567	558	567	675	747	769
62.5	624	510	494	510	624	696	716
65.0	573	456	432	456	573	642	663
67.5	520	405	374	405	520	587	606
70.0	467	357	320	357	467	530	546
72.5	415	310	269	310	415	472	486
75.0	362	266	221	266	362	415	429
77.5	310	224	177	224	310	360	371
80.0	262	185	136	185	262	303	310

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CANDELA TABULATION - (Cont.)

82.5	217	147	100	147	217	250	254
85.0	176	115	69	115	176	201	204
87.5	140	88	46	88	140	160	164
90.0	112	67	32	67	112	130	133
92.5	94	56	26	56	94	110	112
95.0	81	47	23	47	81	95	98
97.5	71	38	20	38	71	84	87
100.0	61	32	18	32	61	76	80
102.5	54	26	16	26	54	69	73
105.0	47	21	13	21	47	62	67
107.5	40	16	12	16	40	57	62
110.0	35	10	10	10	35	52	57
112.5	29	7	8	7	29	46	52
115.0	24	4	7	4	24	42	47
117.5	19	3	5	3	19	35	42
120.0	13	2	4	2	13	30	36
122.5	8	2	3	2	8	25	30
125.0	5	1	2	1	5	20	25
127.5	2	0	1	0	2	15	20
130.0	0	0	1	0	0	9	15
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	572.48	N.A.	12.40
0-30	1200.02	N.A.	26.00
0-40	1932.76	N.A.	41.80
0-60	3375.48	N.A.	73.00
0-80	4286.96	N.A.	92.70
0-90	4463.71	N.A.	96.50
10-90	4315.14	N.A.	93.30
20-40	1360.28	N.A.	29.40
20-50	2113.91	N.A.	45.70
40-70	1991.96	N.A.	43.10
60-80	911.48	N.A.	19.70
70-80	362.24	N.A.	7.80
80-90	176.75	N.A.	3.80
90-110	124.97	N.A.	2.70
90-120	149.10	N.A.	3.20
90-130	158.14	N.A.	3.40
90-150	159.54	N.A.	3.50
90-180	159.54	N.A.	3.50
110-180	34.57	N.A.	0.70
0-180	4623.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.56
10-20	423.92
20-30	627.54
30-40	732.74
40-50	753.63
50-60	689.09
60-70	549.24
70-80	362.24
80-90	176.75
90-100	79.41
100-110	45.56
110-120	24.13
120-130	9.05
130-140	1.40
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

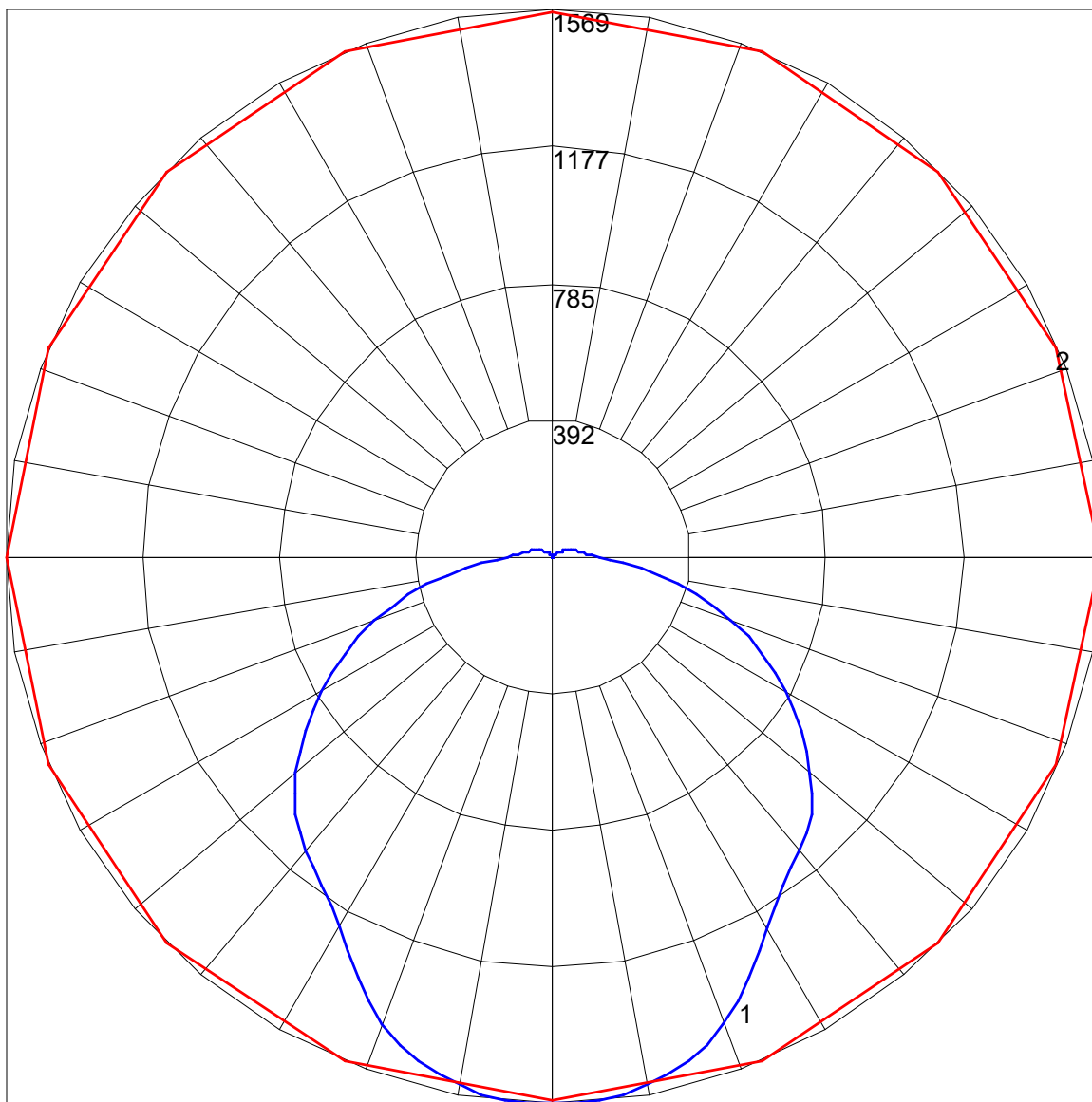
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	77	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 = 1569 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.)