



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-8-LED-13L-DA-S-35-80.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-13L-DA-S-35-80
 [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	12692
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	95
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	12525	9719	9166
55	11995	8068	7118
65	12402	6569	4885
75	14256	5550	2853
85	22783	4596	1074

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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	4365	4365	4365	4365	4365	4365	4365	4365	4365	4365
2.5	4499	4439	4315	4274	4227	4274	4315	4439	4499	4439
5.0	4469	4414	4294	4256	4218	4256	4294	4414	4469	4414
7.5	4428	4381	4266	4235	4194	4235	4266	4381	4428	4381
10.0	4362	4325	4228	4196	4162	4196	4228	4325	4362	4325
12.5	4269	4243	4171	4147	4115	4147	4171	4243	4269	4243
15.0	4159	4142	4096	4097	4071	4097	4096	4142	4159	4142
17.5	4045	4038	4008	4041	4014	4041	4008	4038	4045	4038
20.0	3916	3920	3909	3971	3952	3971	3909	3920	3916	3920
22.5	3778	3785	3803	3891	3881	3891	3803	3785	3778	3785
25.0	3647	3642	3685	3794	3802	3794	3685	3642	3647	3642
27.5	3549	3520	3551	3686	3706	3686	3551	3520	3549	3520
30.0	3474	3424	3414	3563	3604	3563	3414	3424	3474	3424
32.5	3395	3344	3289	3439	3489	3439	3289	3344	3395	3344
35.0	3290	3259	3174	3302	3363	3302	3174	3259	3290	3259
37.5	3159	3147	3058	3155	3222	3155	3058	3147	3159	3147
40.0	3009	3000	2944	2996	3070	2996	2944	3000	3009	3000
42.5	2846	2839	2816	2828	2904	2828	2816	2839	2846	2839
45.0	2690	2679	2675	2654	2729	2654	2675	2679	2690	2679
47.5	2543	2525	2517	2481	2544	2481	2517	2525	2543	2525
50.0	2391	2368	2347	2306	2352	2306	2347	2368	2391	2368
52.5	2244	2209	2169	2131	2152	2131	2169	2209	2244	2209
55.0	2108	2058	1983	1940	1935	1940	1983	2058	2108	2058
57.5	1988	1913	1811	1766	1728	1766	1811	1913	1988	1913
60.0	1857	1794	1647	1586	1527	1586	1647	1794	1857	1794
62.5	1738	1672	1502	1418	1340	1418	1502	1672	1738	1672
65.0	1629	1564	1372	1249	1161	1249	1372	1564	1629	1564
67.5	1516	1452	1251	1088	993	1088	1251	1452	1516	1452
70.0	1405	1342	1138	938	835	938	1138	1342	1405	1342
72.5	1292	1232	1024	800	691	800	1024	1232	1292	1232
75.0	1183	1125	919	678	560	678	919	1125	1183	1125
77.5	1070	1017	820	571	442	571	820	1017	1070	1017
80.0	952	905	721	473	335	473	721	905	952	905
82.5	837	796	627	389	240	389	627	796	837	796
85.0	731	696	539	316	160	316	539	696	731	696
87.5	635	607	460	254	102	254	460	607	635	607
90.0	555	523	392	204	74	204	392	523	555	523
92.5	491	464	343	172	67	172	343	464	491	464
95.0	442	418	309	145	61	145	309	418	442	418
97.5	397	375	276	122	56	122	276	375	397	375
100.0	352	334	244	99	51	99	244	334	352	334
102.5	313	294	215	80	45	80	215	294	313	294
105.0	281	263	186	62	39	62	186	263	281	263
107.5	253	234	161	45	33	45	161	234	253	234
110.0	225	206	136	29	27	29	136	206	225	206
112.5	200	181	112	15	21	15	112	181	200	181
115.0	175	157	91	11	17	11	91	157	175	157
117.5	154	135	69	8	13	8	69	135	154	135
120.0	132	113	50	5	10	5	50	113	132	113
122.5	112	93	33	4	6	4	33	93	112	93
125.0	93	75	17	2	5	2	17	75	93	75
127.5	75	57	4	1	2	1	4	57	75	57
130.0	57	39	1	1	1	1	1	39	57	39
132.5	39	23	1	1	1	1	1	23	39	23

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135.0	23	6	2	2	2	2	2	6	23	6
137.5	8	2	2	2	2	2	2	2	8	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	4365	4365	4365	4365	4365	4365	4365
2.5	4315	4274	4227	4274	4315	4439	4499
5.0	4294	4256	4218	4256	4294	4414	4469
7.5	4266	4235	4194	4235	4266	4381	4428
10.0	4228	4196	4162	4196	4228	4325	4362
12.5	4171	4147	4115	4147	4171	4243	4269
15.0	4096	4097	4071	4097	4096	4142	4159
17.5	4008	4041	4014	4041	4008	4038	4045
20.0	3909	3971	3952	3971	3909	3920	3916
22.5	3803	3891	3881	3891	3803	3785	3778
25.0	3685	3794	3802	3794	3685	3642	3647
27.5	3551	3686	3706	3686	3551	3520	3549
30.0	3414	3563	3604	3563	3414	3424	3474
32.5	3289	3439	3489	3439	3289	3344	3395
35.0	3174	3302	3363	3302	3174	3259	3290
37.5	3058	3155	3222	3155	3058	3147	3159
40.0	2944	2996	3070	2996	2944	3000	3009
42.5	2816	2828	2904	2828	2816	2839	2846
45.0	2675	2654	2729	2654	2675	2679	2690
47.5	2517	2481	2544	2481	2517	2525	2543
50.0	2347	2306	2352	2306	2347	2368	2391
52.5	2169	2131	2152	2131	2169	2209	2244
55.0	1983	1940	1935	1940	1983	2058	2108
57.5	1811	1766	1728	1766	1811	1913	1988
60.0	1647	1586	1527	1586	1647	1794	1857
62.5	1502	1418	1340	1418	1502	1672	1738
65.0	1372	1249	1161	1249	1372	1564	1629
67.5	1251	1088	993	1088	1251	1452	1516
70.0	1138	938	835	938	1138	1342	1405
72.5	1024	800	691	800	1024	1232	1292
75.0	919	678	560	678	919	1125	1183
77.5	820	571	442	571	820	1017	1070
80.0	721	473	335	473	721	905	952

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82.5	627	389	240	389	627	796	837
85.0	539	316	160	316	539	696	731
87.5	460	254	102	254	460	607	635
90.0	392	204	74	204	392	523	555
92.5	343	172	67	172	343	464	491
95.0	309	145	61	145	309	418	442
97.5	276	122	56	122	276	375	397
100.0	244	99	51	99	244	334	352
102.5	215	80	45	80	215	294	313
105.0	186	62	39	62	186	263	281
107.5	161	45	33	45	161	234	253
110.0	136	29	27	29	136	206	225
112.5	112	15	21	15	112	181	200
115.0	91	11	17	11	91	157	175
117.5	69	8	13	8	69	135	154
120.0	50	5	10	5	50	113	132
122.5	33	4	6	4	33	93	112
125.0	17	2	5	2	17	75	93
127.5	4	1	2	1	4	57	75
130.0	1	1	1	1	1	39	57
132.5	1	1	1	1	1	23	39
135.0	2	2	2	2	2	6	23
137.5	2	2	2	2	2	2	8
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	1570.06	N.A.	12.40
0-30	3281.59	N.A.	25.90
0-40	5320.65	N.A.	41.90
0-60	9181.72	N.A.	72.30
0-80	11520.4	N.A.	90.80
0-90	12073.99	N.A.	95.10
10-90	11663.17	N.A.	91.90
20-40	3750.59	N.A.	29.60
20-50	5816.76	N.A.	45.80
40-70	5246.37	N.A.	41.30
60-80	2338.68	N.A.	18.40
70-80	953.39	N.A.	7.50
80-90	553.59	N.A.	4.40
90-110	489.09	N.A.	3.90
90-120	578.64	N.A.	4.60
90-130	611.92	N.A.	4.80
90-150	617.60	N.A.	4.90
90-180	617.60	N.A.	4.90
110-180	128.51	N.A.	1.00
0-180	12691.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	410.82
10-20	1159.24
20-30	1711.53
30-40	2039.06
40-50	2066.17
50-60	1794.9
60-70	1385.29
70-80	953.39
80-90	553.59
90-100	309.56
100-110	179.53
110-120	89.55
120-130	33.28
130-140	5.68
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

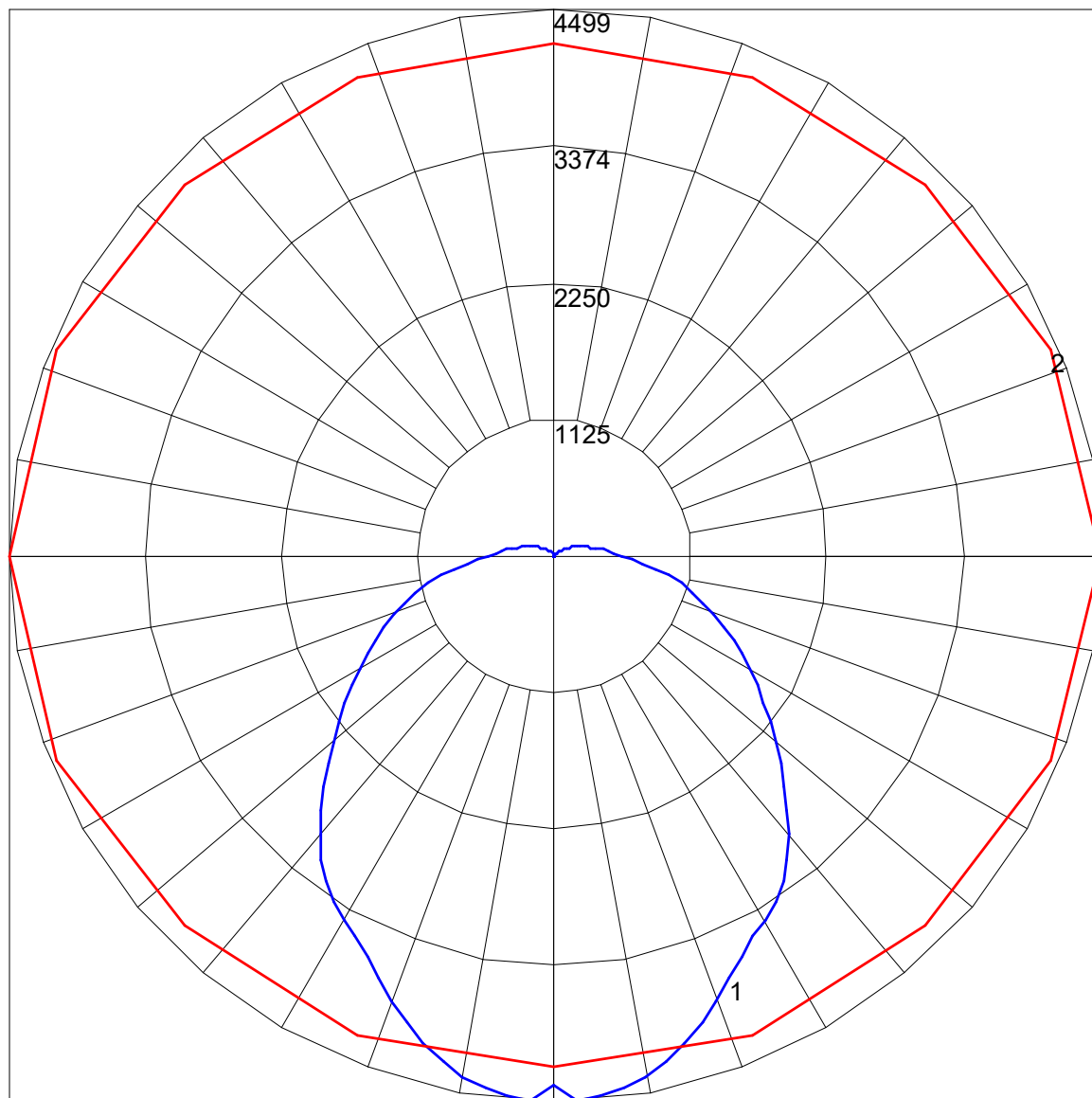
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4499 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.)