

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S17-LED-VCF-SF-4FT-V-8-TW-ITL85158.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85158.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/04/15
[ISSUE DATE]04/15/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE S17-LED-VCF-SF-4ft-V-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.4 WATTS
[OTHER]see www.finelite.com for source file ITL85158. For further details on Finelite family correlation files, go to
[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf
[ABSOLUTE LUMENS]3222

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	40.5
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5359	6600	8027
55	3321	4757	7069
65	1677	2934	6073
75	363	1201	5119
85	0	0	3822

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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>
0.0	687	687	687	687	687	687	687	687	687
2.5	697	696	694	691	686	682	679	676	676
5.0	706	705	700	693	684	675	668	664	663
7.5	712	710	703	692	679	667	657	651	651
10.0	715	713	704	689	673	656	645	638	637
12.5	713	712	701	684	665	644	632	624	623
15.0	708	707	696	676	656	630	618	610	607
17.5	697	697	687	665	645	615	602	595	593
20.0	682	683	674	652	632	600	586	579	577
22.5	661	663	659	637	615	582	569	563	561
25.0	637	640	639	618	597	563	552	546	545
27.5	606	611	615	597	578	543	532	527	526
30.0	571	579	587	575	556	522	513	510	509
32.5	534	543	557	550	534	501	494	491	492
35.0	495	504	524	523	509	479	473	472	473
37.5	453	464	489	494	483	456	452	453	455
40.0	409	422	453	464	457	432	431	434	436
42.5	365	379	415	432	428	408	409	414	416
45.0	323	340	379	400	400	383	388	393	396
47.5	282	299	341	368	372	359	367	373	376
50.0	244	263	305	335	343	335	344	352	356
52.5	208	226	269	305	315	311	322	331	335
55.0	175	193	235	273	287	286	299	310	314
57.5	146	162	202	243	260	263	277	288	293
60.0	118	133	172	213	234	239	255	267	272
62.5	95	107	143	185	208	216	233	246	252
65.0	73	84	117	158	183	194	212	225	231
67.5	54	64	93	133	160	172	191	205	211
70.0	37	46	71	109	137	152	171	185	191
72.5	23	30	52	88	116	132	151	165	172
75.0	12	17	35	67	96	112	133	148	156
77.5	2	5	19	48	77	95	114	137	148
80.0	0	0	6	31	59	79	101	134	148
82.5	0	0	0	15	41	62	95	134	149
85.0	0	0	0	2	26	48	97	135	150
87.5	0	0	0	0	12	48	100	138	153
90.0	0	0	0	0	0	47	100	139	154
92.5	0	0	0	0	7	49	103	143	159
95.0	0	0	0	1	18	63	110	148	163
97.5	0	0	0	1	30	78	125	158	172
100.0	0	0	1	4	45	95	144	176	189
102.5	0	0	1	13	60	113	163	197	207
105.0	0	0	2	27	79	131	181	217	227
107.5	0	1	5	48	99	148	201	238	250
110.0	1	2	12	72	120	167	222	260	272
112.5	2	6	22	100	141	185	244	281	293
115.0	8	13	36	130	163	204	264	303	313
117.5	16	23	56	163	185	222	283	324	335
120.0	26	35	83	197	209	240	302	345	356
122.5	39	50	114	232	233	258	320	363	375
125.0	55	71	156	268	258	275	337	380	392
127.5	77	98	200	305	282	292	352	394	407
130.0	106	135	251	341	305	307	367	409	421
132.5	145	183	305	376	328	322	379	421	434

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CANDELA TABULATION - (Cont.)

135.0	196	240	361	409	350	337	391	431	444
137.5	258	306	416	440	371	350	400	441	453
140.0	330	376	466	467	391	362	408	447	459
142.5	405	445	512	491	410	374	414	452	463
145.0	478	509	550	511	425	385	419	454	466
147.5	539	564	582	528	442	396	423	456	467
150.0	593	608	605	541	455	407	426	455	465
152.5	634	639	621	551	467	418	429	452	462
155.0	660	659	631	558	478	428	432	449	458
157.5	674	669	634	562	487	438	436	447	454
160.0	678	669	633	564	496	448	440	446	451
162.5	672	662	627	564	504	458	445	446	449
165.0	660	650	617	562	510	469	453	448	450
167.5	642	633	603	559	514	478	460	453	454
170.0	622	612	589	554	518	488	471	462	462
172.5	596	591	572	548	520	497	481	473	472
175.0	572	569	556	540	522	507	495	487	487
177.5	547	546	539	532	523	515	508	504	503
180.0	524	524	524	524	524	524	524	524	524

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	249.89	N.A.	7.80
0-30	522.49	N.A.	16.20
0-40	832.21	N.A.	25.80
0-60	1363.92	N.A.	42.30
0-80	1622.03	N.A.	50.30
0-90	1676.65	N.A.	52.00
10-90	1611.66	N.A.	50.00
20-40	582.32	N.A.	18.10
20-50	875.67	N.A.	27.20
40-70	696.58	N.A.	21.60
60-80	258.12	N.A.	8.00
70-80	93.25	N.A.	2.90
80-90	54.62	N.A.	1.70
90-110	159.71	N.A.	5.00
90-120	318.30	N.A.	9.90
90-130	538.98	N.A.	16.70
90-150	1102.67	N.A.	34.20
90-180	1544.99	N.A.	48.00
110-180	1385.28	N.A.	43.00
0-180	3221.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.99
10-20	184.90
20-30	272.60
30-40	309.72
40-50	293.35
50-60	238.36
60-70	164.87
70-80	93.25
80-90	54.62
90-100	59.37
100-110	100.34
110-120	158.59
120-130	220.68
130-140	273.86
140-150	289.83
150-160	241.16
160-170	150.88
170-180	50.28

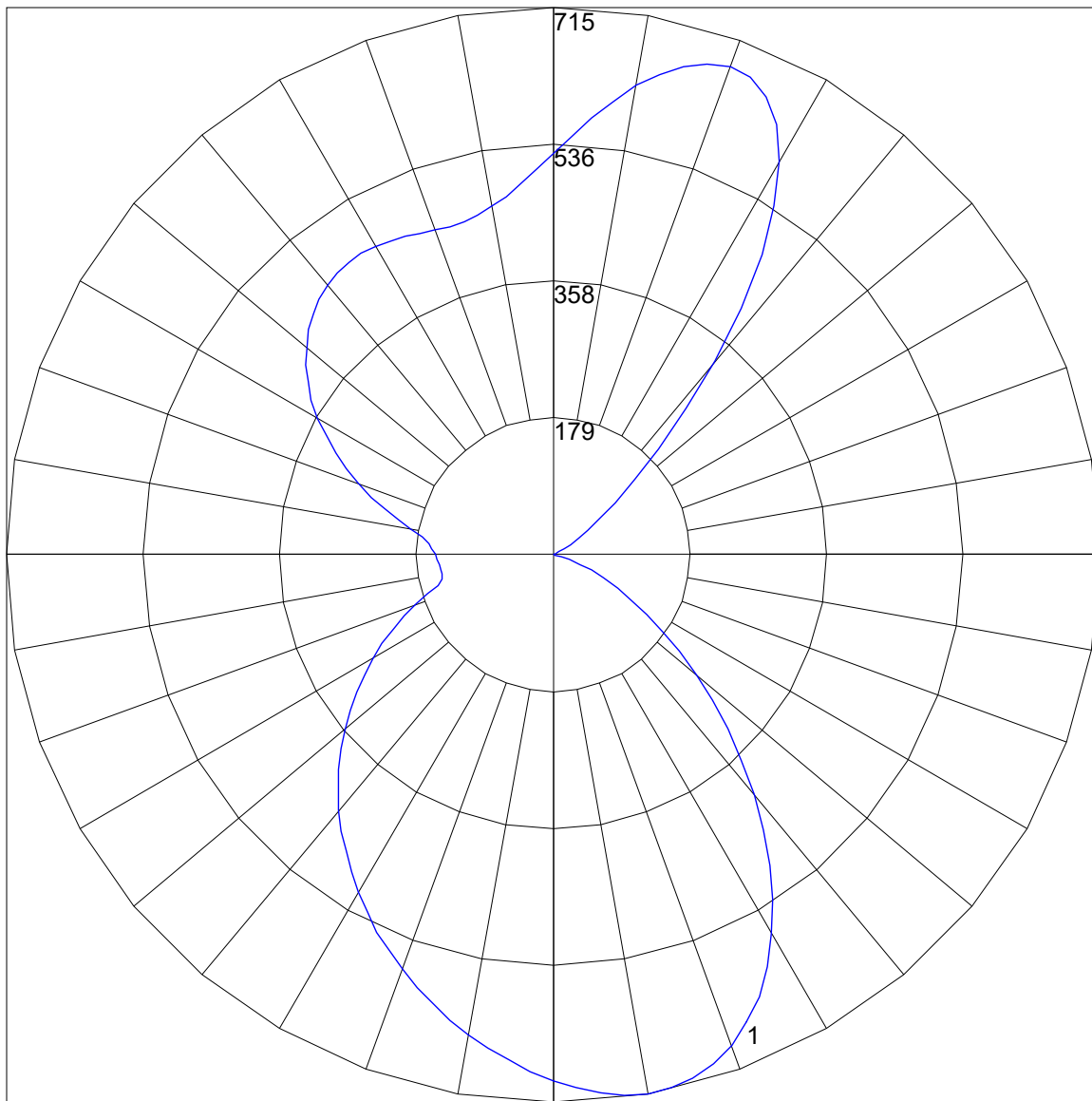
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	41	37
3	82	72	65	59	75	67	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	31	27
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	22	18	16	14

POLAR GRAPH



Maximum Candela = 715 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)