

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-ACF-SF-4FT-V-8-TW-ITL85160.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85160.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/08/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S17-LED-ACF-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, 40.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.8 WATTS

[OTHER]see www.finelite.com for source file ITL85160. 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

[_ABSOLUTELUMENS]2673

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2673
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	40.8
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	0.04 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	49	225	5787
55	0	0	5219
65	0	0	4492
75	0	0	3858
85	0	0	2682

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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	107	107	107	107	107	107	107	107	107
2.5	92	93	96	101	107	114	120	124	125
5.0	79	80	86	95	107	120	133	141	144
7.5	68	69	77	89	107	127	146	160	165
10.0	57	59	68	83	106	133	160	178	185
12.5	48	50	60	78	105	139	172	195	203
15.0	40	42	53	72	103	144	184	209	217
17.5	32	35	46	67	102	148	194	219	227
20.0	26	29	39	61	99	152	200	225	232
22.5	20	23	33	56	97	155	205	227	232
25.0	16	18	28	51	94	156	207	225	228
27.5	12	14	23	46	91	157	207	220	220
30.0	10	11	19	41	88	157	204	212	212
32.5	7	9	15	37	85	155	199	204	203
35.0	5	7	12	33	81	152	193	196	196
37.5	2	5	10	28	77	148	186	190	191
40.0	1	2	8	24	73	143	178	185	187
42.5	1	1	5	21	69	138	172	181	185
45.0	1	1	4	17	64	132	165	178	185
47.5	0	1	1	14	60	126	159	177	185
50.0	0	0	1	11	56	120	154	176	185
52.5	0	0	1	9	51	113	150	175	186
55.0	0	0	0	6	47	107	146	174	186
57.5	0	0	0	5	43	101	142	173	185
60.0	0	0	0	3	39	94	138	171	185
62.5	0	0	0	1	34	89	133	169	183
65.0	0	0	0	1	30	83	129	167	180
67.5	0	0	0	1	27	77	124	162	176
70.0	0	0	0	0	23	72	120	158	171
72.5	0	0	0	0	19	67	114	152	165
75.0	0	0	0	0	16	62	109	146	160
77.5	0	0	0	0	13	57	103	140	153
80.0	0	0	0	0	10	52	97	133	147
82.5	0	0	0	0	7	48	91	127	140
85.0	0	0	0	0	4	43	85	120	133
87.5	0	0	0	0	2	38	79	112	125
90.0	0	0	0	0	0	31	69	101	113
92.5	0	0	1	5	10	33	67	92	101
95.0	5	6	9	23	25	36	69	93	102
97.5	13	15	26	44	43	46	73	96	104
100.0	27	31	51	70	65	63	79	101	109
102.5	47	54	82	99	89	84	92	108	116
105.0	74	83	116	129	116	107	110	118	124
107.5	107	119	155	164	145	132	132	138	139
110.0	142	160	197	199	175	159	156	159	160
112.5	187	206	243	237	207	186	182	181	182
115.0	238	256	289	277	240	215	209	207	205
117.5	294	311	339	317	272	244	237	232	231
120.0	354	371	391	359	306	274	265	260	259
122.5	418	432	443	400	341	304	294	288	286
125.0	483	495	495	441	377	335	323	316	314
127.5	550	555	544	481	413	366	352	344	342
130.0	612	612	590	518	448	397	381	372	370
132.5	670	665	633	555	482	428	410	401	398

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CANDELA TABULATION - (Cont.)

135.0	721	711	669	589	516	458	439	427	425
137.5	764	750	702	621	549	488	466	455	453
140.0	797	781	729	650	579	516	493	481	478
142.5	824	806	754	676	610	545	520	506	504
145.0	842	824	773	701	637	572	544	531	528
147.5	856	838	790	723	663	598	569	554	552
150.0	864	848	805	744	687	624	593	577	573
152.5	869	855	818	763	710	649	617	600	596
155.0	871	860	828	778	730	671	640	621	617
157.5	874	864	837	793	748	694	662	643	638
160.0	873	867	845	804	765	715	685	664	659
162.5	874	867	850	814	779	734	706	685	681
165.0	874	868	852	822	791	751	726	707	701
167.5	871	866	853	828	801	768	744	729	723
170.0	867	863	852	831	809	782	763	750	746
172.5	860	858	848	833	815	796	781	771	767
175.0	850	848	842	831	819	806	796	789	787
177.5	839	837	835	829	823	816	811	807	806
180.0	824	824	824	824	824	824	824	824	824

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S17-LED-ACF-SF-4FT-V-8-TW-ITL85160.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	43.59	N.A.	1.60
0-30	95.29	N.A.	3.60
0-40	155.92	N.A.	5.80
0-60	283.56	N.A.	10.60
0-80	399.84	N.A.	15.00
0-90	443.00	N.A.	16.60
10-90	432.43	N.A.	16.20
20-40	112.33	N.A.	4.20
20-50	175.69	N.A.	6.60
40-70	189.44	N.A.	7.10
60-80	116.28	N.A.	4.30
70-80	54.47	N.A.	2.00
80-90	43.17	N.A.	1.60
90-110	165.76	N.A.	6.20
90-120	403.67	N.A.	15.10
90-130	758.53	N.A.	28.40
90-150	1591.38	N.A.	59.50
90-180	2230.26	N.A.	83.40
110-180	2064.5	N.A.	77.20
0-180	2673.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.57
10-20	33.02
20-30	51.71
30-40	60.63
40-50	63.36
50-60	64.28
60-70	61.81
70-80	54.47
80-90	43.17
90-100	46.57
100-110	119.19
110-120	237.91
120-130	354.86
130-140	421.33
140-150	411.51
150-160	338.58
160-170	222.49
170-180	77.82

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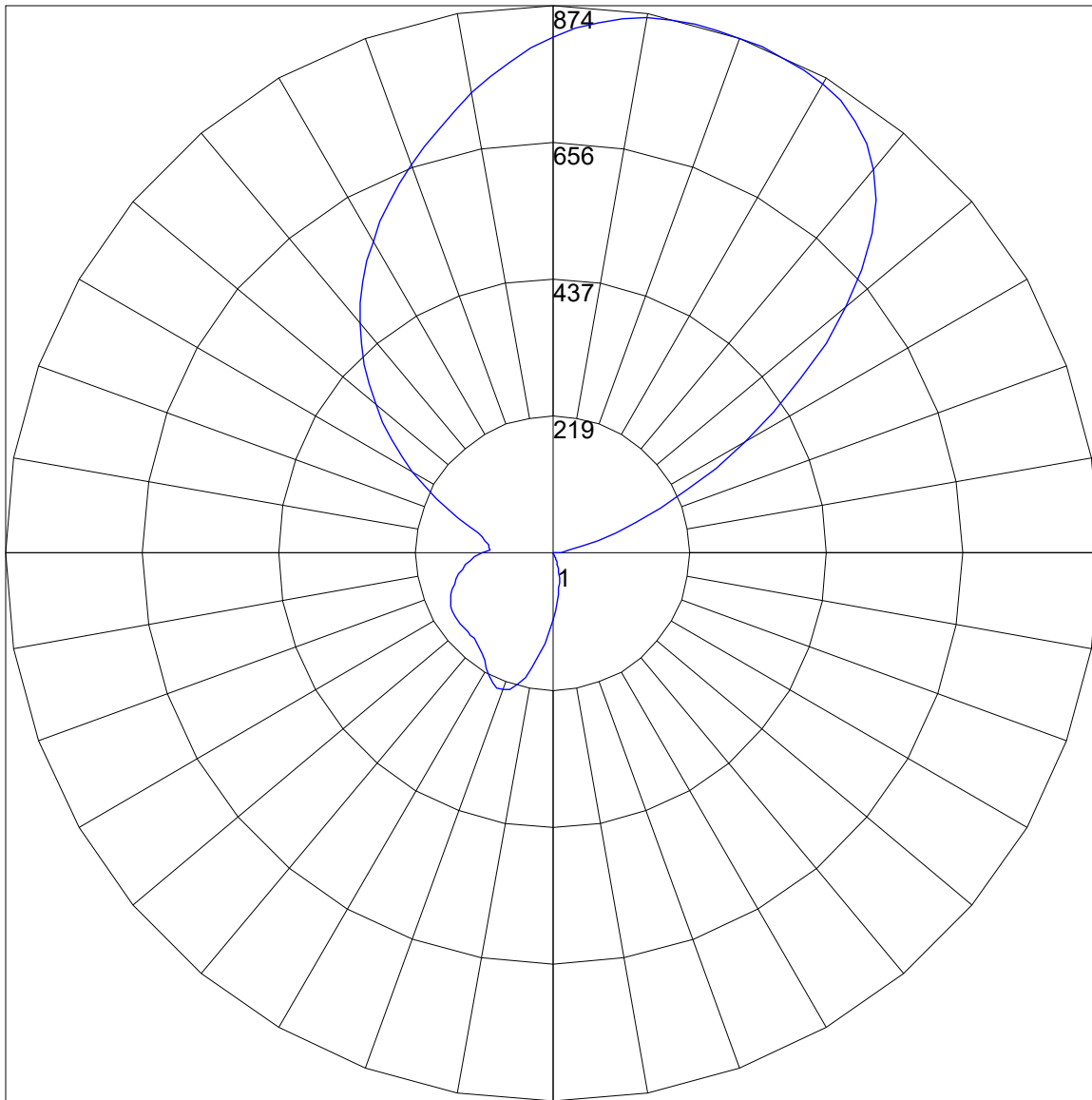
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	25	25	25	17
1	90	85	81	78	78	75	72	69	55	53	51	38	36	35	21	21	20	12
2	81	74	68	63	71	65	60	56	48	45	42	33	31	29	18	17	16	10
3	74	65	57	52	64	57	51	46	42	38	35	29	26	24	16	15	14	8
4	67	57	49	43	59	50	44	39	37	33	29	25	22	20	14	13	11	7
5	62	50	43	37	54	44	38	33	33	28	25	22	20	17	13	11	10	6
6	57	45	37	32	49	40	33	28	30	25	22	20	17	15	11	10	9	5
7	52	40	33	27	45	36	29	24	27	22	19	18	15	13	10	9	7	4
8	48	36	29	24	42	32	26	21	24	20	16	17	14	11	9	8	7	4
9	45	33	26	21	39	29	23	19	22	18	14	15	12	10	9	7	6	3
10	42	30	23	19	36	27	21	17	20	16	13	14	11	9	8	6	5	3

POLAR GRAPH



Maximum Candela = 874 Located At Horizontal Angle = 0, Vertical Angle = 157.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)