

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-PF-4FT-V-8-TW-ITL85159.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85159.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/07/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S17-LED-ACF-PF-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, 40.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.4 WATTS

[OTHER]see www.finelite.com for source file ITL85159. 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]3306

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3306
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	40.6
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)	0.26 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.27 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2168	1763	1523
55	2319	1821	1258
65	2422	1861	1026
75	2475	1868	750
85	2484	1834	344

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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	195	195	195	195	195	195	195	195	195
2.5	193	193	193	194	195	196	198	199	200
5.0	193	192	192	193	194	198	202	205	206
7.5	196	194	192	191	193	199	206	212	215
10.0	199	197	193	189	191	199	210	219	223
12.5	203	200	193	187	189	199	215	226	231
15.0	209	205	195	185	186	199	218	232	237
17.5	214	209	196	182	182	197	221	235	239
20.0	221	215	198	180	178	195	221	235	239
22.5	228	220	199	177	173	192	220	233	234
25.0	236	226	201	174	167	189	217	227	228
27.5	244	233	203	170	162	185	213	220	219
30.0	252	238	204	166	155	179	207	211	210
32.5	260	245	206	162	148	174	200	202	201
35.0	268	251	207	158	141	167	192	194	194
37.5	275	257	209	154	133	160	184	188	189
40.0	283	262	210	149	125	152	176	182	186
42.5	290	267	211	145	117	145	169	179	184
45.0	297	272	211	140	109	137	162	178	185
47.5	303	276	211	134	100	129	157	177	186
50.0	307	279	211	129	91	121	152	176	187
52.5	311	282	211	124	83	114	148	176	188
55.0	314	283	210	118	75	106	144	176	189
57.5	316	284	208	113	68	99	140	175	188
60.0	316	284	206	107	60	93	137	173	187
62.5	316	282	203	101	53	87	134	171	184
65.0	314	281	200	96	47	81	130	167	180
67.5	311	277	195	90	40	76	125	162	175
70.0	308	273	191	85	34	71	120	157	170
72.5	303	269	186	79	28	66	115	151	164
75.0	297	263	180	73	23	61	109	145	158
77.5	290	256	173	67	17	57	103	139	151
80.0	282	249	166	61	12	52	97	132	144
82.5	274	241	159	55	8	47	91	126	139
85.0	265	233	151	49	5	42	86	119	131
87.5	255	224	143	43	2	38	79	111	122
90.0	246	215	135	39	0	31	68	97	108
92.5	238	208	131	42	10	28	58	84	94
95.0	234	205	132	58	25	34	58	81	91
97.5	231	205	142	80	43	42	65	84	94
100.0	233	210	160	104	62	56	73	91	98
102.5	241	224	186	132	86	74	83	98	105
105.0	257	246	220	162	110	95	95	106	111
107.5	283	276	256	194	137	119	112	116	121
110.0	317	314	297	228	166	143	132	131	132
112.5	360	360	338	263	196	168	153	149	148
115.0	411	411	384	300	226	195	177	169	167
117.5	469	467	429	337	257	221	201	191	188
120.0	529	524	476	374	290	249	227	215	210
122.5	590	576	520	411	322	277	253	239	234
125.0	648	630	564	447	354	303	279	265	259
127.5	700	677	603	482	387	331	306	289	284
130.0	744	719	638	513	420	359	333	315	310
132.5	781	753	667	543	451	388	360	341	336

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CANDELA TABULATION - (Cont.)

135.0	810	781	694	573	483	416	387	367	361
137.5	832	802	716	600	513	444	413	393	386
140.0	846	816	733	625	541	471	439	418	412
142.5	855	826	748	648	568	497	464	443	437
145.0	858	831	761	669	593	523	489	468	461
147.5	856	833	771	686	616	548	512	489	483
150.0	855	834	780	705	639	572	536	513	506
152.5	850	833	787	721	659	596	559	536	528
155.0	846	831	793	734	678	618	582	559	550
157.5	840	830	798	744	694	639	604	580	573
160.0	837	828	801	754	710	658	626	602	595
162.5	833	825	803	762	723	677	646	625	618
165.0	829	821	803	768	734	694	666	647	640
167.5	823	817	801	772	743	710	686	668	663
170.0	815	810	797	774	750	724	704	690	685
172.5	805	802	791	775	756	737	721	711	707
175.0	793	791	784	773	760	748	737	730	728
177.5	779	779	775	769	763	757	752	748	747
180.0	764	764	764	764	764	764	764	764	764

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	77.02	N.A.	2.30
0-30	171.19	N.A.	5.20
0-40	292.09	N.A.	8.80
0-60	584.93	N.A.	17.70
0-80	881.89	N.A.	26.70
0-90	1001.77	N.A.	30.30
10-90	982.83	N.A.	29.70
20-40	215.06	N.A.	6.50
20-50	355.24	N.A.	10.70
40-70	447.16	N.A.	13.50
60-80	296.97	N.A.	9.00
70-80	142.64	N.A.	4.30
80-90	119.88	N.A.	3.60
90-110	271.07	N.A.	8.20
90-120	538.32	N.A.	16.30
90-130	905.73	N.A.	27.40
90-150	1708.35	N.A.	51.70
90-180	2304.4	N.A.	69.70
110-180	2033.33	N.A.	61.50
0-180	3306.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	18.94
10-20	58.08
20-30	94.17
30-40	120.90
40-50	140.18
50-60	152.66
60-70	154.32
70-80	142.64
80-90	119.88
90-100	107.29
100-110	163.78
110-120	267.25
120-130	367.40
130-140	412.38
140-150	390.24
150-160	316.70
160-170	207.10
170-180	72.26

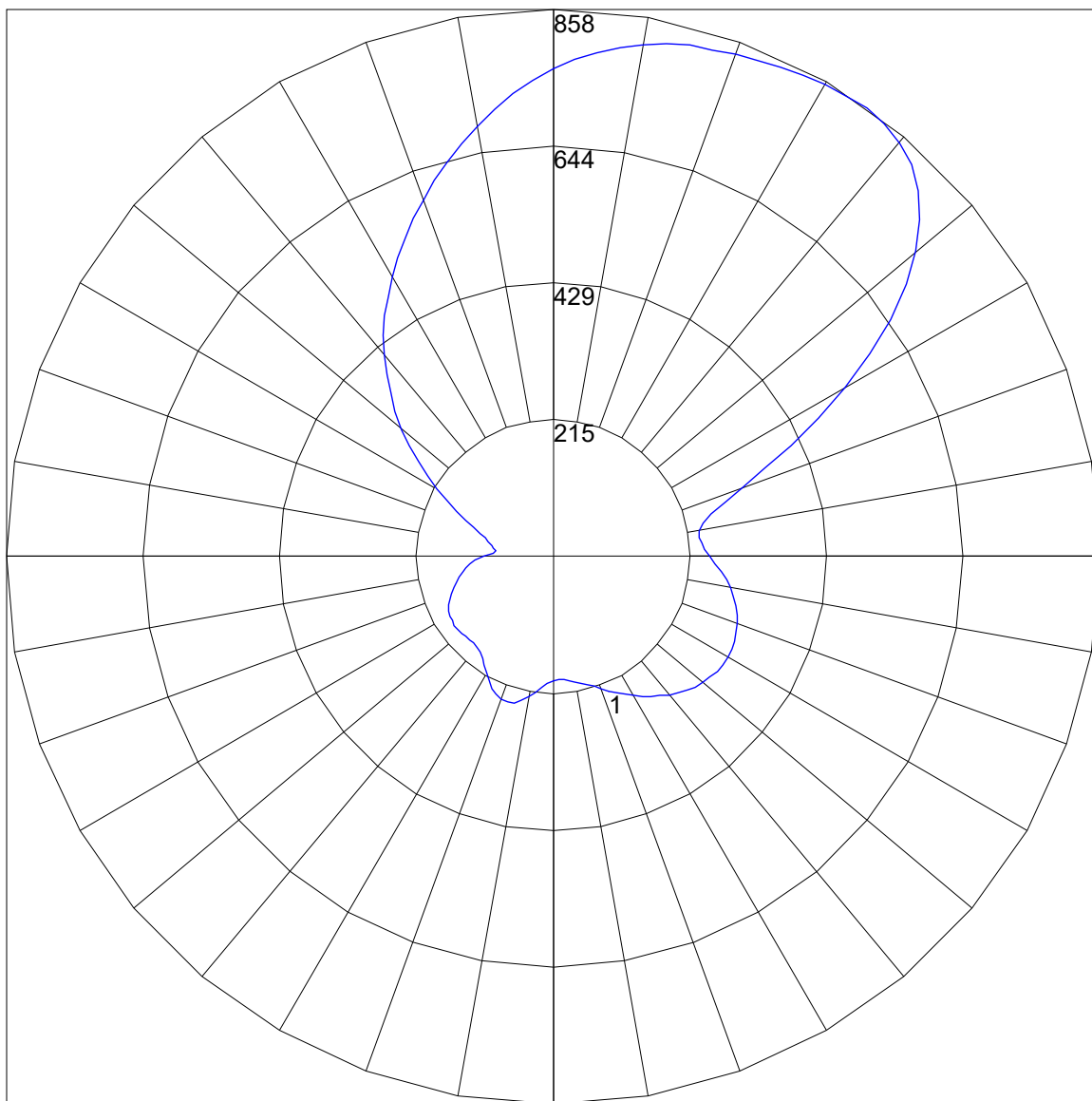
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	92	87	82	78	82	78	74	70	61	58	56	45	43	42	31	30	29	22
2	83	75	68	62	74	67	61	56	52	48	45	39	36	33	26	24	23	17
3	75	65	57	51	67	58	51	46	45	41	37	33	30	27	22	20	18	14
4	68	57	49	42	61	51	44	38	40	35	31	29	26	23	20	17	15	11
5	62	50	42	36	55	45	38	33	35	30	26	26	22	19	18	15	13	9
6	57	45	37	31	51	40	33	28	32	26	22	23	20	17	16	13	11	8
7	53	40	32	27	47	36	29	24	28	23	19	21	17	15	14	12	10	7
8	49	36	29	23	43	33	26	21	26	21	17	19	15	13	13	11	9	6
9	45	33	25	20	40	30	23	19	23	18	15	18	14	11	12	10	8	5
10	42	30	23	18	38	27	21	16	21	17	13	16	13	10	11	9	7	5

POLAR GRAPH



Maximum Candela = 858 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)