

# 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 : S11-LED-4FT-S-8-35-ITL85173.001.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85173.001 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]09/17/15  
[ISSUE DATE]04/21/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE S11-LED-4ft-S-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.5 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 16.0 WATTS  
[ABSOLUTE LUMENS]1876  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85173. 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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	14.5
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.43 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	10.643	10.234	11.462	14.327	12.281	3.684	1.637	1.228	1.228
<b>95.0</b>	32.749	31.930	32.339	32.749	25.789	14.327	8.187	5.322	4.912
<b>97.5</b>	55.263	55.673	55.263	53.216	41.754	26.199	17.602	13.918	12.690
<b>100.0</b>	82.281	82.281	80.643	75.322	59.357	39.708	28.655	22.924	22.105
<b>102.5</b>	112.573	112.164	108.889	100.702	79.006	54.444	40.526	33.567	32.339
<b>105.0</b>	145.322	144.912	139.591	128.129	101.111	70.409	54.035	45.439	43.801
<b>107.5</b>	181.345	180.117	172.749	157.602	124.444	88.421	68.363	58.538	56.491
<b>110.0</b>	219.415	218.187	208.363	189.123	150.643	107.251	84.327	72.456	70.000
<b>112.5</b>	259.942	257.895	245.614	220.234	176.842	128.129	100.702	87.193	84.737
<b>115.0</b>	302.105	299.649	286.140	253.801	204.678	149.006	117.485	103.567	99.883
<b>117.5</b>	345.497	342.632	324.620	288.187	233.333	172.339	135.497	120.351	115.848
<b>120.0</b>	390.117	384.386	365.556	323.392	263.216	197.310	155.146	136.725	133.041
<b>122.5</b>	435.146	429.006	407.310	359.006	292.281	223.099	174.795	155.146	148.596
<b>125.0</b>	480.585	472.807	448.246	394.620	323.392	249.708	196.082	173.567	167.018
<b>127.5</b>	524.386	515.789	488.363	430.234	355.322	277.544	218.596	194.035	188.304
<b>130.0</b>	566.140	557.134	526.842	464.620	387.251	305.380	241.520	214.503	207.953
<b>132.5</b>	606.667	596.842	564.094	499.006	419.181	334.854	266.901	236.199	229.240
<b>135.0</b>	643.918	632.865	598.070	531.345	450.702	363.918	293.509	259.123	250.526
<b>137.5</b>	677.485	664.795	629.591	562.865	481.403	393.392	322.164	282.456	273.041
<b>140.0</b>	707.368	694.269	658.246	590.702	510.877	422.456	351.637	307.836	297.193
<b>142.5</b>	732.749	720.058	683.626	616.491	539.123	451.111	381.111	334.854	322.164
<b>145.0</b>	754.444	742.164	705.731	639.825	565.322	479.357	413.450	364.327	350.000
<b>147.5</b>	772.047	760.585	724.561	660.702	590.292	506.784	442.515	395.848	379.883
<b>150.0</b>	785.965	774.912	740.526	679.123	612.398	532.982	472.807	429.006	412.222
<b>152.5</b>	796.199	785.965	753.626	695.088	632.865	557.134	501.871	461.345	446.199
<b>155.0</b>	803.158	794.152	763.450	709.006	651.287	581.696	530.117	493.275	479.357
<b>157.5</b>	806.023	798.655	770.819	720.058	667.661	604.211	557.134	523.158	511.287
<b>160.0</b>	807.251	800.702	775.322	729.474	682.807	625.497	582.515	552.222	541.988
<b>162.5</b>	806.433	799.883	777.778	736.842	695.497	645.146	607.895	580.468	569.006
<b>165.0</b>	803.567	796.608	778.596	742.573	706.959	663.158	630.819	607.485	597.661
<b>167.5</b>	797.836	791.696	776.140	746.257	715.556	679.123	651.696	632.865	624.678
<b>170.0</b>	790.058	784.327	771.228	748.304	722.924	694.269	672.164	656.199	650.468
<b>172.5</b>	780.234	775.731	765.088	747.895	728.246	707.778	690.585	679.123	674.620
<b>175.0</b>	767.134	764.269	757.719	745.848	732.339	718.830	707.368	699.591	696.725
<b>177.5</b>	752.398	751.170	747.485	741.754	735.205	728.246	722.515	718.830	716.784
<b>180.0</b>	736.023	736.023	736.023	736.023	736.023	736.023	736.023	736.023	736.023

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	129.46	N.A.	6.90
90-120	329.84	N.A.	17.60
90-130	618.57	N.A.	33.00
90-150	1311.49	N.A.	69.90
90-180	1876.43	N.A.	100.00
110-180	1746.97	N.A.	93.10
0-180	1876.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	25.44
100-110	104.02
110-120	200.38
120-130	288.73
130-140	344.46
140-150	348.46
150-160	297.07
160-170	198.32
170-180	69.55

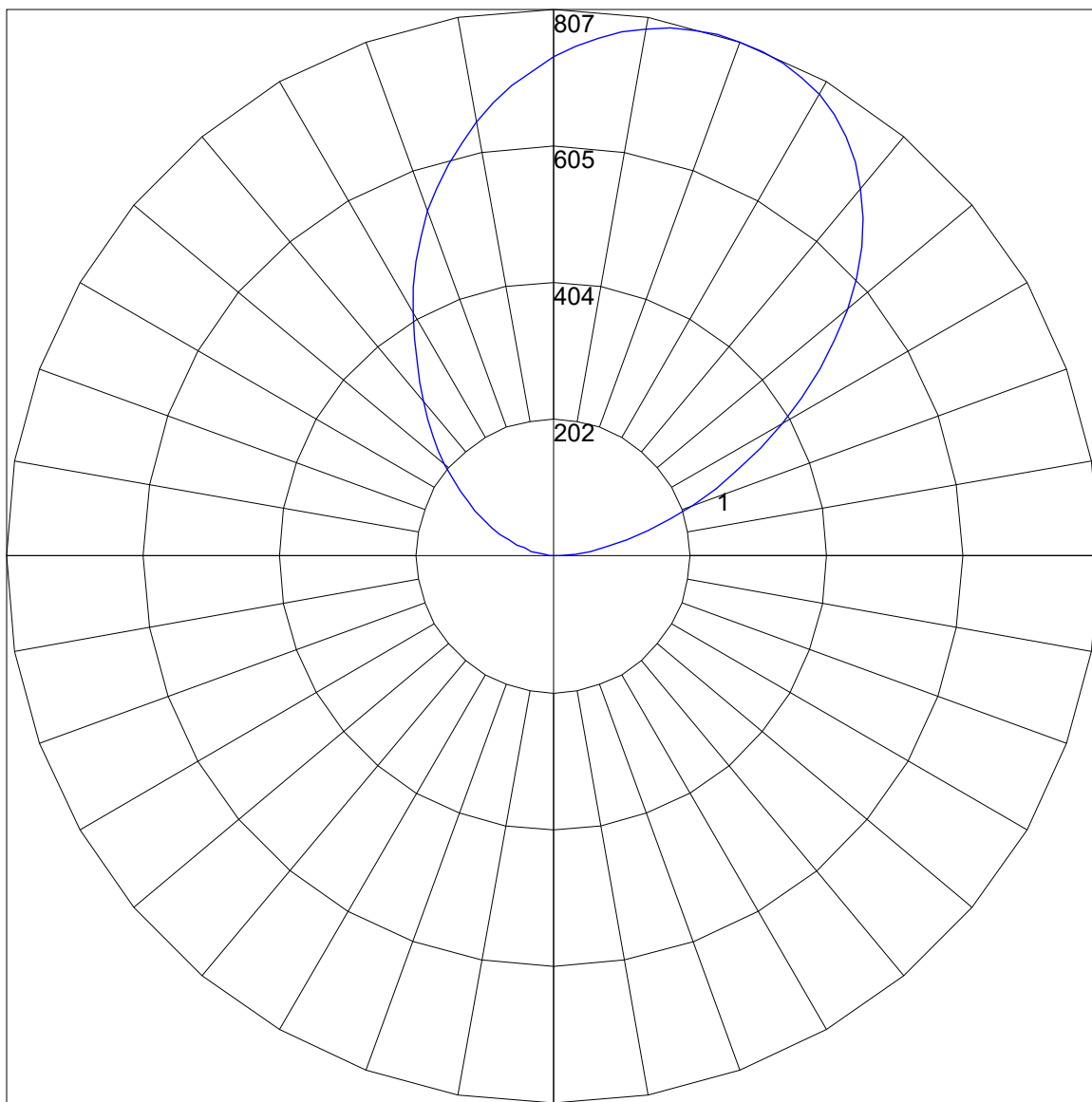
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 807.251 Located At Horizontal Angle = 0, Vertical Angle = 160  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)