

# 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-MF-4FT-H-8-35-ITL85171.003.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85171.003 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]09/17/15  
[ISSUE DATE]04/21/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE S11-LED-MF-4ft-H-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 15.1 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 17.7 WATTS  
[ABSOLUTE LUMENS]1797  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85171. 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	1797
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	15.1
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 w/Sides
Luminous Length (0-180)	0.12 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.06 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	351	0	0
75	1762	809	0
85	5004	3973	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>
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	5.444	1.556	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	14.000	7.778	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	22.556	16.333	0.778	0.000	0.000	0.000	0.000	0.000	0.000
70.0	31.889	24.889	5.444	0.000	0.000	0.000	0.000	0.000	0.000
72.5	45.111	35.778	13.222	0.000	0.000	0.000	0.000	0.000	0.000
75.0	59.889	48.222	22.556	0.000	0.000	0.000	0.000	0.000	0.000
77.5	75.444	63.778	35.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	93.333	80.889	49.000	6.222	0.000	0.000	0.000	0.000	0.000
82.5	113.556	99.556	64.556	15.556	0.000	0.000	0.000	0.000	0.000
85.0	135.333	120.556	82.444	27.222	0.000	0.000	0.000	0.000	0.000
87.5	159.444	143.889	102.667	40.444	0.000	0.000	0.000	0.000	0.000
90.0	183.556	169.556	125.222	56.778	0.000	0.000	0.000	0.000	0.000
92.5	213.111	198.333	149.333	74.667	7.778	0.000	0.000	0.000	0.000
95.0	245.778	228.667	175.778	94.111	19.444	0.000	0.000	0.000	0.000
97.5	280.778	261.333	203.000	115.111	31.889	0.000	0.000	0.000	0.000
100.0	317.333	295.556	231.778	136.889	45.889	0.000	0.000	0.000	0.000
102.5	355.444	331.333	260.556	160.222	62.222	1.556	0.000	0.000	0.000
105.0	393.556	367.111	290.889	184.333	80.111	9.333	0.000	0.000	0.000
107.5	432.444	403.667	322.000	209.222	98.000	19.444	0.000	0.000	0.000
110.0	469.000	438.667	353.111	234.889	118.222	31.889	0.000	0.000	0.000
112.5	504.778	472.889	385.000	261.333	139.222	46.667	2.333	0.000	0.000
115.0	537.444	504.000	414.556	287.778	161.778	62.222	11.667	0.000	0.000
117.5	568.556	534.333	444.889	315.000	185.111	80.889	20.222	0.778	0.000
120.0	595.000	561.556	471.333	341.444	210.000	99.556	31.111	9.333	2.333
122.5	619.111	587.222	498.556	368.667	234.889	118.222	43.556	19.444	12.444
125.0	640.111	609.000	522.667	394.333	259.778	138.444	58.333	28.778	21.778
127.5	659.556	629.222	546.000	419.222	286.222	160.222	75.444	39.667	31.111
130.0	675.889	646.333	567.000	444.111	311.889	182.778	94.111	52.111	42.000
132.5	689.111	662.667	585.667	467.444	338.333	206.889	113.556	66.889	55.222

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**CANDELA TABULATION - (Cont.)**

135.0	700.000	674.333	602.000	489.222	364.000	230.222	135.333	84.778	70.778
137.5	710.111	686.000	616.778	509.444	389.667	255.889	157.889	103.444	88.667
140.0	717.889	696.111	630.778	529.667	414.556	280.778	182.000	124.444	108.111
142.5	722.556	703.111	643.222	546.000	437.889	306.444	207.667	147.778	130.667
145.0	727.222	708.556	653.333	563.111	460.444	333.667	235.667	173.444	155.556
147.5	730.333	714.000	663.444	578.667	483.000	360.889	265.222	201.444	182.778
150.0	731.889	716.333	670.444	591.889	503.222	388.111	295.556	231.778	213.111
152.5	731.889	717.889	676.667	603.556	521.889	415.333	327.444	264.444	245.778
155.0	730.333	717.889	680.556	613.667	539.778	441.778	360.111	299.444	281.556
157.5	727.222	716.333	683.667	623.000	555.333	466.667	392.778	336.778	319.667
160.0	722.556	713.222	684.444	630.778	570.111	490.778	424.667	374.111	358.556
162.5	717.111	708.556	683.667	636.222	582.556	513.333	455.778	411.444	398.222
165.0	710.889	702.333	680.556	640.111	593.444	534.333	486.111	447.222	437.111
167.5	702.333	694.556	675.889	642.444	602.778	553.778	514.889	483.000	475.222
170.0	690.667	683.667	668.889	642.444	609.000	570.889	540.556	515.667	510.222
172.5	678.222	672.778	660.333	640.111	615.222	588.000	565.444	547.556	543.667
175.0	662.667	658.778	650.222	636.222	619.111	601.222	586.444	574.778	574.000
177.5	643.222	640.889	637.000	630.000	621.444	612.111	605.111	599.667	597.333
180.0	622.222	622.222	622.222	622.222	622.222	622.222	622.222	622.222	622.222

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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	16.29	N.A.	0.90
0-90	57.72	N.A.	3.20
10-90	57.72	N.A.	3.20
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	2.23	N.A.	0.10
60-80	16.29	N.A.	0.90
70-80	14.06	N.A.	0.80
80-90	41.44	N.A.	2.30
90-110	237.60	N.A.	13.20
90-120	449.70	N.A.	25.00
90-130	711.72	N.A.	39.60
90-150	1277.44	N.A.	71.10
90-180	1739.45	N.A.	96.80
110-180	1501.85	N.A.	83.60
0-180	1797.17	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	2.23
70-80	14.06
80-90	41.44
90-100	88.08
100-110	149.52
110-120	212.10
120-130	262.02
130-140	286.26
140-150	279.45
150-160	239.49
160-170	163.97
170-180	58.55

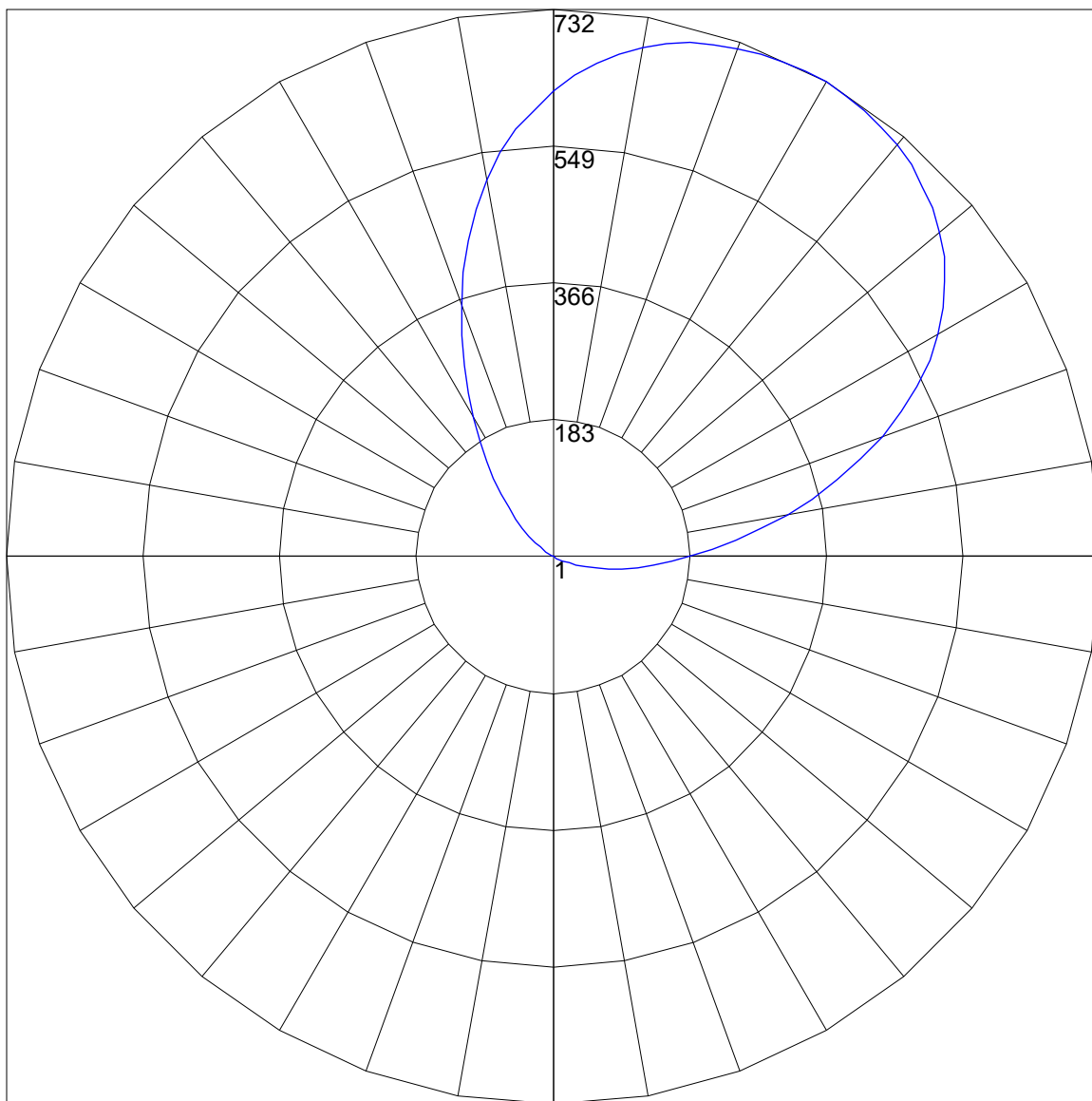
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	96	96	96	83	83	83	83	57	57	57	34	34	34	13	13	13	3
1	86	82	78	74	74	70	67	64	49	47	45	29	27	26	10	10	9	1
2	78	71	65	60	67	61	56	52	42	39	37	25	23	22	9	8	7	0
3	71	62	55	50	61	54	48	43	37	33	30	22	20	18	7	7	6	0
4	65	55	47	42	55	47	41	36	33	29	26	19	17	15	7	6	5	0
5	59	49	41	35	51	42	36	31	29	25	22	17	15	13	6	5	4	0
6	55	43	36	30	47	37	31	26	26	22	19	15	13	11	5	4	4	0
7	50	39	31	26	43	33	27	23	23	19	16	14	11	10	5	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	8	4	3	3	0
9	43	32	25	20	37	27	21	17	19	15	12	11	9	7	4	3	2	0
10	40	29	22	18	34	25	19	15	17	14	11	10	8	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 731.889 Located At Horizontal Angle = 0, Vertical Angle = 150  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)