

# 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 : E2-ID-L-4FT-H-V-835-ITL89277.012.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL89277.012 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]05/02/17  
[ISSUEDATE]05/19/17  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE E2-ID-L-4ft-H-V-835  
[OTHER]INPUT\_ELECTRICAL: 120.0 VOLTS, 33.0 WATTS  
[OTHER]INPUT\_ELECTRICAL: 277.0 VOLTS, 34.6 WATTS  
[ABSOLUTE]LUMENS]3190  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL89277. 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	3190
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	33
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
Luminous Length (0-180)	4.06 ft
Luminous Width (90-270)	0.08 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14914	14824	14690
55	14233	14067	14011
65	13454	13153	13153
75	12518	12150	12273
85	10570	10570	10934

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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>
0.0	519.991	519.991	519.991	519.991	519.991
2.5	519.991	519.991	519.991	519.991	519.991
5.0	517.991	517.991	517.991	517.991	517.991
7.5	513.991	513.991	513.991	513.991	512.991
10.0	509.991	508.991	509.991	509.991	509.991
12.5	503.991	502.991	503.991	504.992	503.991
15.0	496.991	493.992	496.991	496.991	496.991
17.5	488.992	484.992	488.992	488.992	487.992
20.0	479.992	474.992	479.992	478.992	476.992
22.5	468.992	463.992	467.992	467.992	466.992
25.0	456.992	451.992	455.992	454.992	453.992
27.5	443.992	438.993	442.992	441.992	439.993
30.0	429.993	424.993	428.993	426.993	425.993
32.5	414.993	410.993	413.993	412.993	410.993
35.0	399.993	394.993	397.993	396.993	395.993
37.5	383.994	379.994	381.994	380.994	379.994
40.0	366.994	362.994	364.994	363.994	362.994
42.5	348.994	345.994	346.994	345.994	344.994
45.0	331.994	327.994	329.994	327.994	326.995
47.5	313.995	309.995	310.995	309.995	308.995
50.0	294.995	291.995	292.995	290.995	290.995
52.5	276.995	272.996	273.995	271.995	271.995
55.0	256.996	253.996	253.996	252.996	252.996
57.5	237.996	234.996	233.996	232.996	232.996
60.0	218.996	214.996	214.996	213.996	213.996
62.5	198.997	195.997	194.997	193.997	194.997
65.0	178.997	175.997	174.997	174.997	174.997
67.5	159.997	156.997	155.997	155.997	155.997
70.0	139.998	136.998	136.998	135.998	136.998
72.5	120.998	117.998	117.998	117.998	118.998
75.0	101.998	99.998	98.998	98.998	99.998
77.5	83.999	80.999	80.999	81.999	81.999
80.0	64.999	62.999	62.999	63.999	64.999
82.5	46.999	44.999	45.999	46.999	46.999
85.0	29.000	28.000	29.000	29.000	30.000
87.5	11.000	11.000	12.000	13.000	13.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	5.444	4.667	3.111	2.333	2.333
95.0	15.556	14.000	10.889	8.556	8.556
97.5	29.556	25.667	20.222	16.333	16.333
100.0	45.889	38.889	30.333	24.889	24.111
102.5	65.333	53.667	41.222	33.444	31.889
105.0	88.667	72.333	54.444	43.556	40.444
107.5	115.889	94.111	68.444	54.444	49.778
110.0	146.222	120.556	84.778	66.889	60.667
112.5	180.444	150.889	104.222	80.889	73.111
115.0	216.222	183.556	128.333	96.444	87.889
117.5	254.333	219.333	157.111	115.889	103.444
120.0	292.444	255.111	195.222	138.444	122.889
122.5	330.556	293.222	241.889	166.444	147.000
125.0	366.333	331.333	293.222	206.111	178.111
127.5	402.111	371.000	342.222	258.222	220.889
130.0	437.111	409.889	384.222	321.222	277.667
132.5	470.556	446.444	419.222	385.000	346.889

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CANDELA TABULATION - (Cont.)

135.0	500.889	480.667	450.333	441.000	416.111
137.5	527.333	512.556	480.667	480.667	472.111
140.0	553.778	541.333	512.556	507.111	508.667
142.5	577.889	567.000	544.444	528.889	531.222
145.0	600.444	590.333	575.556	553.778	550.667
147.5	620.667	610.556	603.556	580.222	573.222
150.0	639.333	630.000	628.444	608.222	599.667
152.5	655.667	647.111	649.444	634.667	626.889
155.0	670.444	661.889	666.556	657.222	651.000
157.5	683.667	675.889	680.556	676.667	671.222
160.0	695.333	688.333	692.222	691.444	688.333
162.5	705.444	699.222	703.111	701.556	700.778
165.0	714.000	709.333	712.444	710.889	709.333
167.5	720.222	717.111	719.444	719.444	717.111
170.0	725.667	724.111	725.667	725.667	724.889
172.5	729.556	728.778	729.556	729.556	730.333
175.0	733.444	732.667	732.667	732.667	732.667
177.5	735.000	734.222	734.222	734.222	734.222
180.0	735.778	735.778	735.778	735.778	735.778

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	189.16	N.A.	5.90
0-30	398.58	N.A.	12.50
0-40	647.00	N.A.	20.30
0-60	1127.78	N.A.	35.40
0-80	1407.64	N.A.	44.10
0-90	1440.01	N.A.	45.10
10-90	1390.85	N.A.	43.60
20-40	457.85	N.A.	14.40
20-50	711.54	N.A.	22.30
40-70	655.01	N.A.	20.50
60-80	279.86	N.A.	8.80
70-80	105.62	N.A.	3.30
80-90	32.37	N.A.	1.00
90-110	77.73	N.A.	2.40
90-120	218.54	N.A.	6.90
90-130	467.21	N.A.	14.60
90-150	1175.14	N.A.	36.80
90-180	1749.97	N.A.	54.90
110-180	1672.25	N.A.	52.40
0-180	3189.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.16
10-20	140.00
20-30	209.43
30-40	248.42
40-50	253.69
50-60	227.08
60-70	174.24
70-80	105.62
80-90	32.37
90-100	14.22
100-110	63.50
110-120	140.81
120-130	248.67
130-140	349.08
140-150	358.86
150-160	304.39
160-170	200.74
170-180	69.70

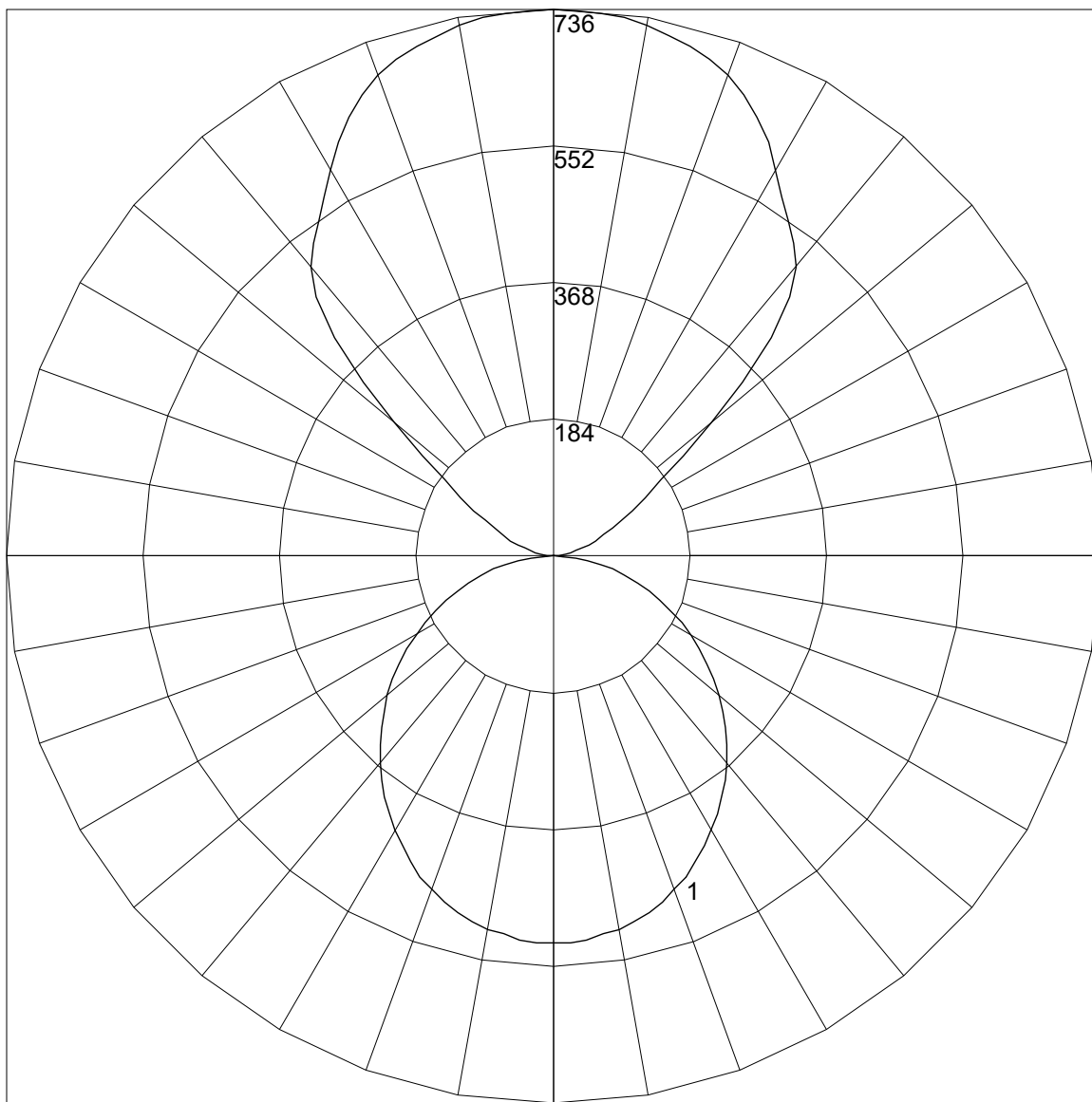
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	38
2	88	80	74	69	80	74	68	64	61	58	54	50	47	45	40	38	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	33	31	26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	29	26	22
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	23	19
6	62	50	41	36	56	46	39	33	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	40	33	27	48	37	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	28	23	29	24	20	24	20	17	20	17	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

POLAR GRAPH



Maximum Candela = 735.778 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)