

# 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-V-H-835-ITL89277.015.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL89277.015 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-V-H-835  
[OTHER]INPUT\_ELECTRICAL: 120.0 VOLTS, 33.0 WATTS  
[OTHER]INPUT\_ELECTRICAL: 277.0 VOLTS, 34.6 WATTS  
[ABSOLUTE]LUMENS]3370  
[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	3370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	33
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
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	11600	11530	11425
55	11070	10941	10898
65	10464	10230	10230
75	9737	9450	9546
85	8221	8221	8504

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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	404.437	404.437	404.437	404.437	404.437
2.5	404.437	404.437	404.437	404.437	404.437
5.0	402.882	402.882	402.882	402.882	402.882
7.5	399.771	399.771	399.771	399.771	398.993
10.0	396.660	395.882	396.660	396.660	396.660
12.5	391.993	391.216	391.993	392.771	391.993
15.0	386.549	384.216	386.549	386.549	386.549
17.5	380.327	377.216	380.327	380.327	379.549
20.0	373.327	369.438	373.327	372.549	370.994
22.5	364.772	360.883	363.994	363.994	363.216
25.0	355.438	351.550	354.661	353.883	353.105
27.5	345.327	341.439	344.550	343.772	342.216
30.0	334.439	330.550	333.661	332.106	331.328
32.5	322.772	319.661	321.995	321.217	319.661
35.0	311.106	307.217	309.550	308.772	307.995
37.5	298.662	295.551	297.106	296.328	295.551
40.0	285.440	282.329	283.884	283.106	282.329
42.5	271.440	269.106	269.884	269.106	268.329
45.0	258.218	255.107	256.662	255.107	254.329
47.5	244.218	241.107	241.885	241.107	240.329
50.0	229.440	227.107	227.885	226.329	226.329
52.5	215.441	212.330	213.107	211.552	211.552
55.0	199.885	197.552	197.552	196.774	196.774
57.5	185.108	182.775	181.997	181.219	181.219
60.0	170.331	167.220	167.220	166.441	166.441
62.5	154.775	152.442	151.664	150.886	151.664
65.0	139.220	136.887	136.109	136.109	136.109
67.5	124.442	122.109	121.331	121.331	121.331
70.0	108.887	106.554	106.554	105.776	106.554
72.5	94.110	91.776	91.776	91.776	92.554
75.0	79.332	77.776	76.999	76.999	77.776
77.5	65.332	62.999	62.999	63.777	63.777
80.0	50.555	48.999	48.999	49.777	50.555
82.5	36.555	34.999	35.777	36.555	36.555
85.0	22.555	21.777	22.555	22.555	23.333
87.5	8.555	8.555	9.333	10.111	10.111
90.0	0.000	0.000	0.000	0.000	0.000
92.5	7.000	6.000	4.000	3.000	3.000
95.0	20.000	18.000	14.000	11.000	11.000
97.5	38.000	33.000	26.000	21.000	21.000
100.0	59.000	50.000	39.000	32.000	31.000
102.5	84.000	69.000	53.000	43.000	41.000
105.0	114.000	93.000	70.000	56.000	52.000
107.5	149.000	121.000	88.000	70.000	64.000
110.0	188.000	155.000	109.000	86.000	78.000
112.5	232.000	194.000	134.000	104.000	94.000
115.0	278.000	236.000	165.000	124.000	113.000
117.5	327.000	282.000	202.000	149.000	133.000
120.0	376.000	328.000	251.000	178.000	158.000
122.5	425.000	377.000	311.000	214.000	189.000
125.0	471.000	426.000	377.000	265.000	229.000
127.5	517.000	477.000	440.000	332.000	284.000
130.0	562.000	527.000	494.000	413.000	357.000
132.5	605.000	574.000	539.000	495.000	446.000

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CANDELA TABULATION - (Cont.)

135.0	644.000	618.000	579.000	567.000	535.000
137.5	678.000	659.000	618.000	618.000	607.000
140.0	712.000	696.000	659.000	652.000	654.000
142.5	743.000	729.000	700.000	680.000	683.000
145.0	772.000	759.000	740.000	712.000	708.000
147.5	798.000	785.000	776.000	746.000	737.000
150.0	822.000	810.000	808.000	782.000	771.000
152.5	843.000	832.000	835.000	816.000	806.000
155.0	862.000	851.000	857.000	845.000	837.000
157.5	879.000	869.000	875.000	870.000	863.000
160.0	894.000	885.000	890.000	889.000	885.000
162.5	907.000	899.000	904.000	902.000	901.000
165.0	918.000	912.000	916.000	914.000	912.000
167.5	926.000	922.000	925.000	925.000	922.000
170.0	933.000	931.000	933.000	933.000	932.000
172.5	938.000	937.000	938.000	938.000	939.000
175.0	943.000	942.000	942.000	942.000	942.000
177.5	945.000	944.000	944.000	944.000	944.000
180.0	946.000	946.000	946.000	946.000	946.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	147.12	N.A.	4.40
0-30	310.01	N.A.	9.20
0-40	503.23	N.A.	14.90
0-60	877.16	N.A.	26.00
0-80	1094.83	N.A.	32.50
0-90	1120.01	N.A.	33.20
10-90	1081.78	N.A.	32.10
20-40	356.11	N.A.	10.60
20-50	553.42	N.A.	16.40
40-70	509.45	N.A.	15.10
60-80	217.67	N.A.	6.50
70-80	82.15	N.A.	2.40
80-90	25.18	N.A.	0.70
90-110	99.93	N.A.	3.00
90-120	280.98	N.A.	8.30
90-130	600.69	N.A.	17.80
90-150	1510.9	N.A.	44.80
90-180	2249.97	N.A.	66.80
110-180	2150.03	N.A.	63.80
0-180	3369.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.23
10-20	108.89
20-30	162.89
30-40	193.22
40-50	197.31
50-60	176.62
60-70	135.52
70-80	82.15
80-90	25.18
90-100	18.29
100-110	81.65
110-120	181.04
120-130	319.72
130-140	448.82
140-150	461.39
150-160	391.36
160-170	258.09
170-180	89.61

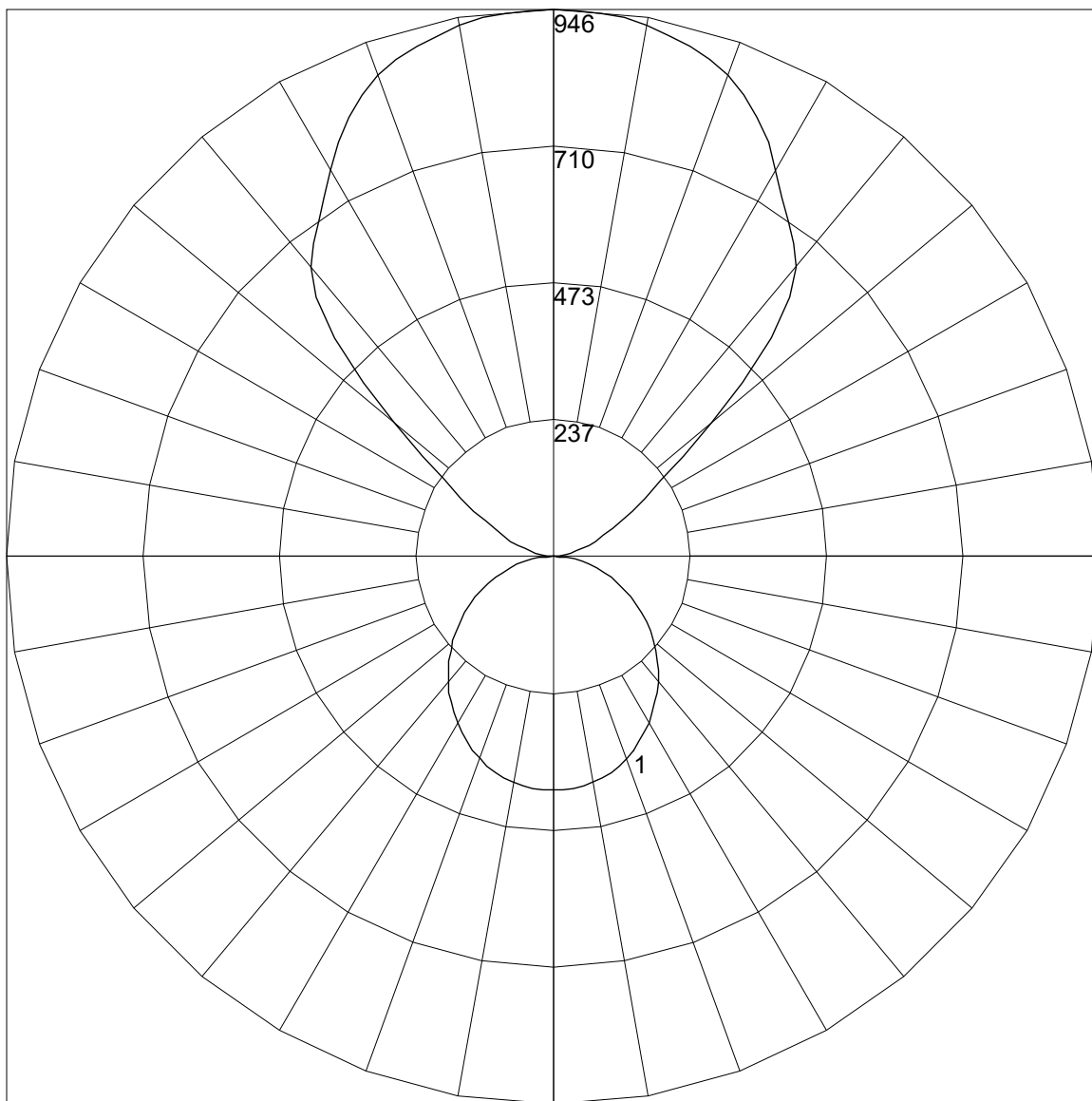
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	82	84	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	28	23
3	78	68	61	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	60	53	47	64	55	48	43	44	39	35	34	31	28	25	22	21	17
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	35	30	50	39	32	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	26	46	36	29	24	29	24	20	23	19	16	17	14	12	10
9	48	36	28	23	43	32	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	16	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 946 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)