

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-H-835-ITL89277.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]05/02/17
[ISSUEDATE]05/18/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE E2-ID-L-4ft-H-H-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 28.8 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 31.5 WATTS
[ABSOLUTE]LUMENS]2870
[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2870
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	28.8
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	10231	10231
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	404.444	404.444	404.444	404.444	404.444
2.5	404.444	404.444	404.444	404.444	404.444
5.0	402.889	402.889	402.889	402.889	402.889
7.5	399.778	399.778	399.778	399.778	399.000
10.0	396.667	395.889	396.667	396.667	396.667
12.5	392.000	391.222	392.000	392.778	392.000
15.0	386.556	384.222	386.556	386.556	386.556
17.5	380.333	377.222	380.333	380.333	379.556
20.0	373.333	369.444	373.333	372.556	371.000
22.5	364.778	360.889	364.000	364.000	363.222
25.0	355.444	351.556	354.667	353.889	353.111
27.5	345.333	341.444	344.556	343.778	342.222
30.0	334.444	330.556	333.667	332.111	331.333
32.5	322.778	319.667	322.000	321.222	319.667
35.0	311.111	307.222	309.556	308.778	308.000
37.5	298.667	295.556	297.111	296.333	295.556
40.0	285.444	282.333	283.889	283.111	282.333
42.5	271.444	269.111	269.889	269.111	268.333
45.0	258.222	255.111	256.667	255.111	254.333
47.5	244.222	241.111	241.889	241.111	240.333
50.0	229.444	227.111	227.889	226.333	226.333
52.5	215.444	212.333	213.111	211.556	211.556
55.0	199.889	197.556	197.556	196.778	196.778
57.5	185.111	182.778	182.000	181.222	181.222
60.0	170.333	167.222	167.222	166.444	166.444
62.5	154.778	152.444	151.667	150.889	151.667
65.0	139.222	136.889	136.111	136.111	136.111
67.5	124.444	122.111	121.333	121.333	121.333
70.0	108.889	106.556	106.556	105.778	106.556
72.5	94.111	91.778	91.778	91.778	92.556
75.0	79.333	77.778	77.000	77.000	77.778
77.5	65.333	63.000	63.000	63.778	63.778
80.0	50.556	49.000	49.000	49.778	50.556
82.5	36.556	35.000	35.778	36.556	36.556
85.0	22.556	21.778	22.556	22.556	23.333
87.5	8.556	8.556	9.333	10.111	10.111
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	147.12	N.A.	5.10
0-30	310.01	N.A.	10.80
0-40	503.23	N.A.	17.50
0-60	877.18	N.A.	30.60
0-80	1094.85	N.A.	38.10
0-90	1120.03	N.A.	39.00
10-90	1081.79	N.A.	37.70
20-40	356.11	N.A.	12.40
20-50	553.43	N.A.	19.30
40-70	509.46	N.A.	17.80
60-80	217.67	N.A.	7.60
70-80	82.15	N.A.	2.90
80-90	25.18	N.A.	0.90
90-110	77.73	N.A.	2.70
90-120	218.54	N.A.	7.60
90-130	467.21	N.A.	16.30
90-150	1175.14	N.A.	40.90
90-180	1749.97	N.A.	61.00
110-180	1672.25	N.A.	58.30
0-180	2870.00	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	197.32
50-60	176.62
60-70	135.52
70-80	82.15
80-90	25.18
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

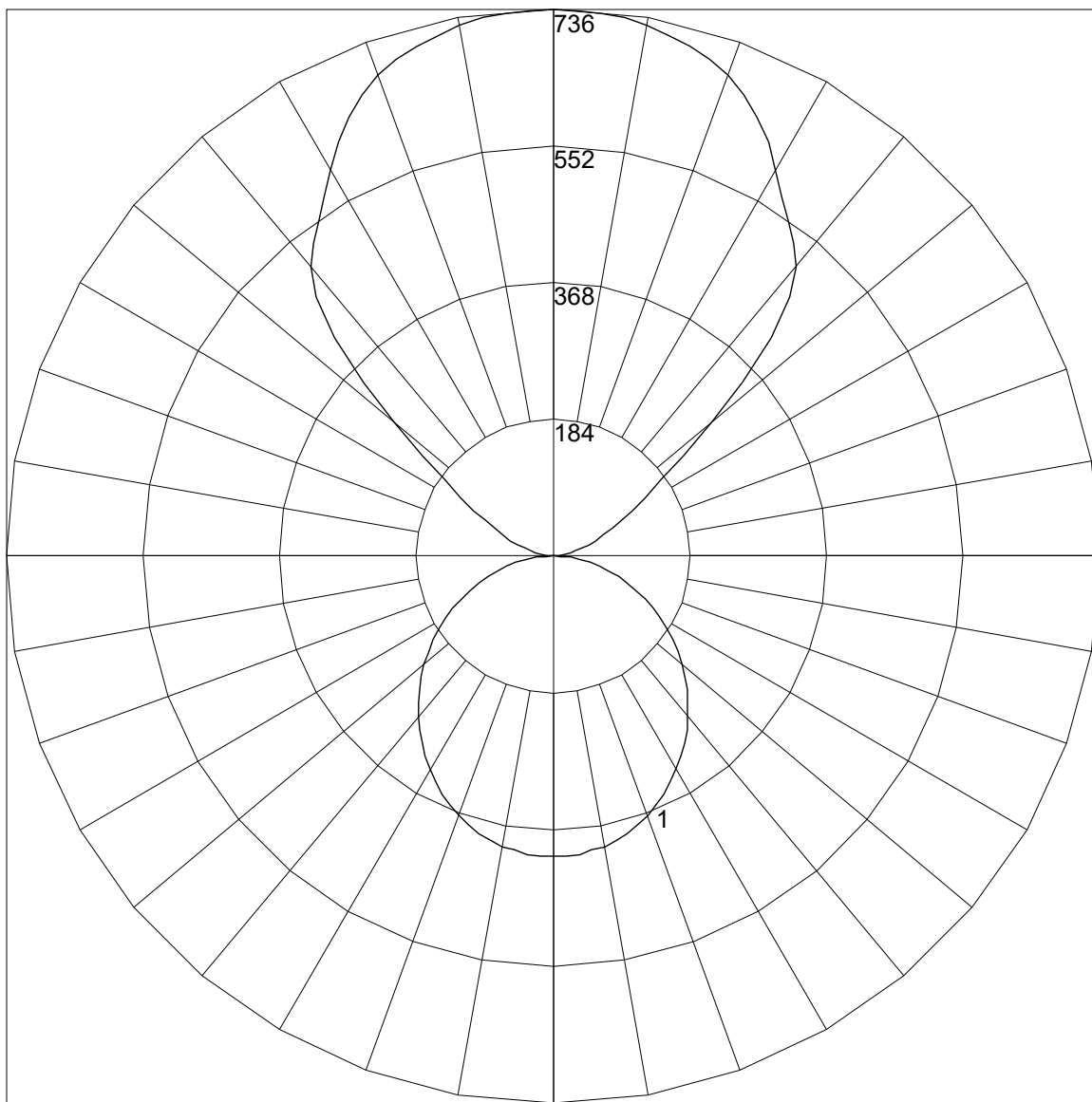
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	83	86	83	79	76	67	65	63	53	52	50	40	39	39	33
2	87	79	73	68	78	72	67	62	59	55	52	47	44	42	35	34	32	27
3	79	69	62	56	71	63	57	52	52	47	43	41	38	35	31	29	27	23
4	72	61	53	47	65	56	49	44	46	41	37	37	33	30	28	25	23	19
5	66	55	46	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	31	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	20	17	21	17	14	16	13	12	9

POLAR GRAPH



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