

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-B-835-ITL89277.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.014 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-B-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 28.2 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 30.1 WATTS
[ABSOLUTE]LUMENS]2991
[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	2991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	28.2
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	7675	7628	7559
55	7324	7238	7210
65	6923	6769	6769
75	6442	6252	6316
85	5439	5439	5626

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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	267.579	267.579	267.579	267.579	267.579
2.5	267.579	267.579	267.579	267.579	267.579
5.0	266.550	266.550	266.550	266.550	266.550
7.5	264.491	264.491	264.491	264.491	263.977
10.0	262.433	261.918	262.433	262.433	262.433
12.5	259.346	258.831	259.346	259.860	259.346
15.0	255.744	254.200	255.744	255.744	255.744
17.5	251.627	249.569	251.627	251.627	251.113
20.0	246.996	244.423	246.996	246.481	245.452
22.5	241.335	238.763	240.821	240.821	240.306
25.0	235.161	232.588	234.646	234.131	233.617
27.5	228.471	225.898	227.957	227.442	226.413
30.0	221.267	218.694	220.752	219.723	219.209
32.5	213.548	211.490	213.034	212.519	211.490
35.0	205.830	203.257	204.801	204.286	203.772
37.5	197.597	195.538	196.567	196.053	195.538
40.0	188.849	186.791	187.820	187.305	186.791
42.5	179.587	178.043	178.557	178.043	177.528
45.0	170.839	168.780	169.810	168.780	168.266
47.5	161.576	159.518	160.033	159.518	159.004
50.0	151.799	150.256	150.770	149.741	149.741
52.5	142.537	140.479	140.993	139.964	139.964
55.0	132.246	130.702	130.702	130.187	130.187
57.5	122.469	120.925	120.410	119.896	119.896
60.0	112.692	110.634	110.634	110.119	110.119
62.5	102.400	100.857	100.342	99.828	100.342
65.0	92.109	90.565	90.051	90.051	90.051
67.5	82.332	80.788	80.274	80.274	80.274
70.0	72.040	70.497	70.497	69.982	70.497
72.5	62.264	60.720	60.720	60.720	61.234
75.0	52.487	51.458	50.943	50.943	51.458
77.5	43.224	41.681	41.681	42.195	42.195
80.0	33.447	32.418	32.418	32.933	33.447
82.5	24.185	23.156	23.671	24.185	24.185
85.0	14.923	14.408	14.923	14.923	15.437
87.5	5.660	5.660	6.175	6.689	6.689
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	97.34	N.A.	3.30
0-30	205.10	N.A.	6.90
0-40	332.94	N.A.	11.10
0-60	580.34	N.A.	19.40
0-80	724.35	N.A.	24.20
0-90	741.01	N.A.	24.80
10-90	715.71	N.A.	23.90
20-40	235.60	N.A.	7.90
20-50	366.15	N.A.	12.20
40-70	337.06	N.A.	11.30
60-80	144.01	N.A.	4.80
70-80	54.35	N.A.	1.80
80-90	16.66	N.A.	0.60
90-110	99.93	N.A.	3.30
90-120	280.98	N.A.	9.40
90-130	600.69	N.A.	20.10
90-150	1510.9	N.A.	50.50
90-180	2249.97	N.A.	75.20
110-180	2150.03	N.A.	71.90
0-180	2990.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.29
10-20	72.04
20-30	107.77
30-40	127.83
40-50	130.54
50-60	116.85
60-70	89.66
70-80	54.35
80-90	16.66
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

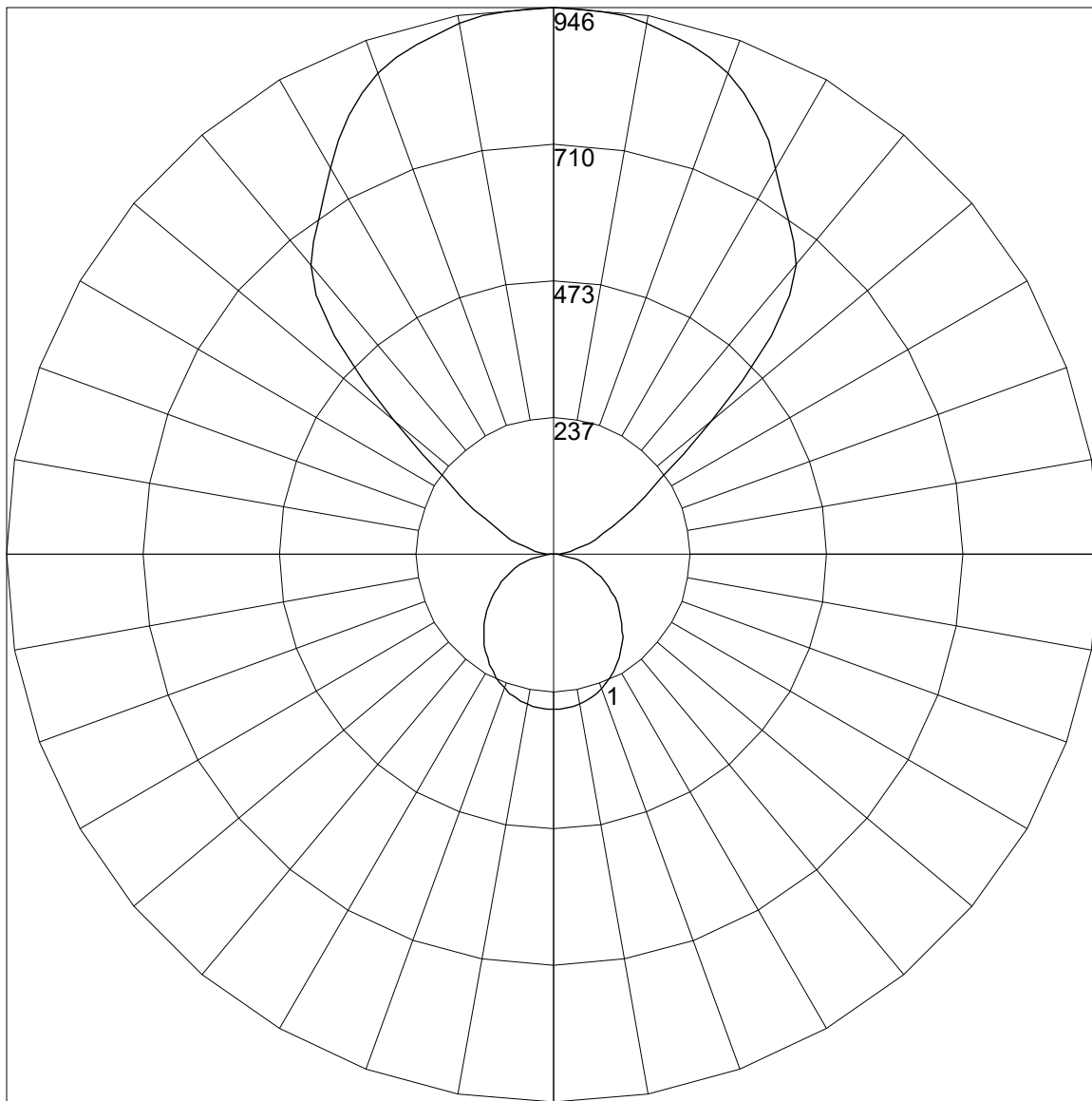
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	72	60	58	56	44	43	42	29	28	28	21
2	84	77	71	66	74	68	63	59	53	49	47	39	36	35	25	24	23	17
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	22	21	20	14
4	70	59	52	46	62	53	46	41	41	37	33	30	27	25	20	18	17	12
5	64	53	45	39	56	47	40	35	37	32	28	27	24	21	18	16	14	11
6	59	47	39	34	52	42	35	31	33	28	24	24	21	19	16	14	13	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	27	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	22	18	23	18	15	17	14	11	11	10	8	6

POLAR GRAPH



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