

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-S-835-ITL89277.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.013 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-S-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 26.3 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 28.0 WATTS
[ABSOLUTE]LUMENS]2839
[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	2839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	26.3
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	6100	6064	6009
55	5822	5754	5731
65	5503	5380	5380
75	5120	4970	5020
85	4323	4323	4472

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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	212.694	212.694	212.694	212.694	212.694
2.5	212.694	212.694	212.694	212.694	212.694
5.0	211.876	211.876	211.876	211.876	211.876
7.5	210.240	210.240	210.240	210.240	209.831
10.0	208.604	208.195	208.604	208.604	208.604
12.5	206.150	205.741	206.150	206.559	206.150
15.0	203.287	202.060	203.287	203.287	203.287
17.5	200.015	198.379	200.015	200.015	199.606
20.0	196.333	194.288	196.333	195.924	195.106
22.5	191.834	189.789	191.425	191.425	191.016
25.0	186.926	184.881	186.517	186.108	185.699
27.5	181.608	179.563	181.199	180.790	179.972
30.0	175.882	173.837	175.473	174.655	174.246
32.5	169.746	168.110	169.338	168.929	168.110
35.0	163.611	161.566	162.793	162.384	161.975
37.5	157.067	155.431	156.249	155.840	155.431
40.0	150.113	148.477	149.295	148.886	148.477
42.5	142.751	141.524	141.933	141.524	141.115
45.0	135.797	134.161	134.979	134.161	133.752
47.5	128.435	126.799	127.208	126.799	126.390
50.0	120.663	119.436	119.845	119.027	119.027
52.5	113.301	111.665	112.074	111.256	111.256
55.0	105.120	103.893	103.893	103.484	103.484
57.5	97.349	96.121	95.713	95.303	95.303
60.0	89.577	87.941	87.941	87.532	87.532
62.5	81.397	80.169	79.760	79.351	79.760
65.0	73.216	71.989	71.580	71.580	71.580
67.5	65.444	64.217	63.808	63.808	63.808
70.0	57.264	56.037	56.037	55.628	56.037
72.5	49.492	48.265	48.265	48.265	48.674
75.0	41.721	40.903	40.494	40.494	40.903
77.5	34.358	33.131	33.131	33.540	33.540
80.0	26.587	25.769	25.769	26.178	26.587
82.5	19.224	18.406	18.815	19.224	19.224
85.0	11.862	11.453	11.862	11.862	12.271
87.5	4.499	4.499	4.908	5.317	5.317
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	77.37	N.A.	2.70
0-30	163.03	N.A.	5.70
0-40	264.65	N.A.	9.30
0-60	461.30	N.A.	16.20
0-80	575.77	N.A.	20.30
0-90	589.01	N.A.	20.70
10-90	568.91	N.A.	20.00
20-40	187.28	N.A.	6.60
20-50	291.04	N.A.	10.30
40-70	267.92	N.A.	9.40
60-80	114.47	N.A.	4.00
70-80	43.20	N.A.	1.50
80-90	13.24	N.A.	0.50
90-110	99.93	N.A.	3.50
90-120	280.98	N.A.	9.90
90-130	600.69	N.A.	21.20
90-150	1510.9	N.A.	53.20
90-180	2249.97	N.A.	79.30
110-180	2150.03	N.A.	75.70
0-180	2838.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.11
10-20	57.26
20-30	85.66
30-40	101.61
40-50	103.77
50-60	92.89
60-70	71.27
70-80	43.20
80-90	13.24
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

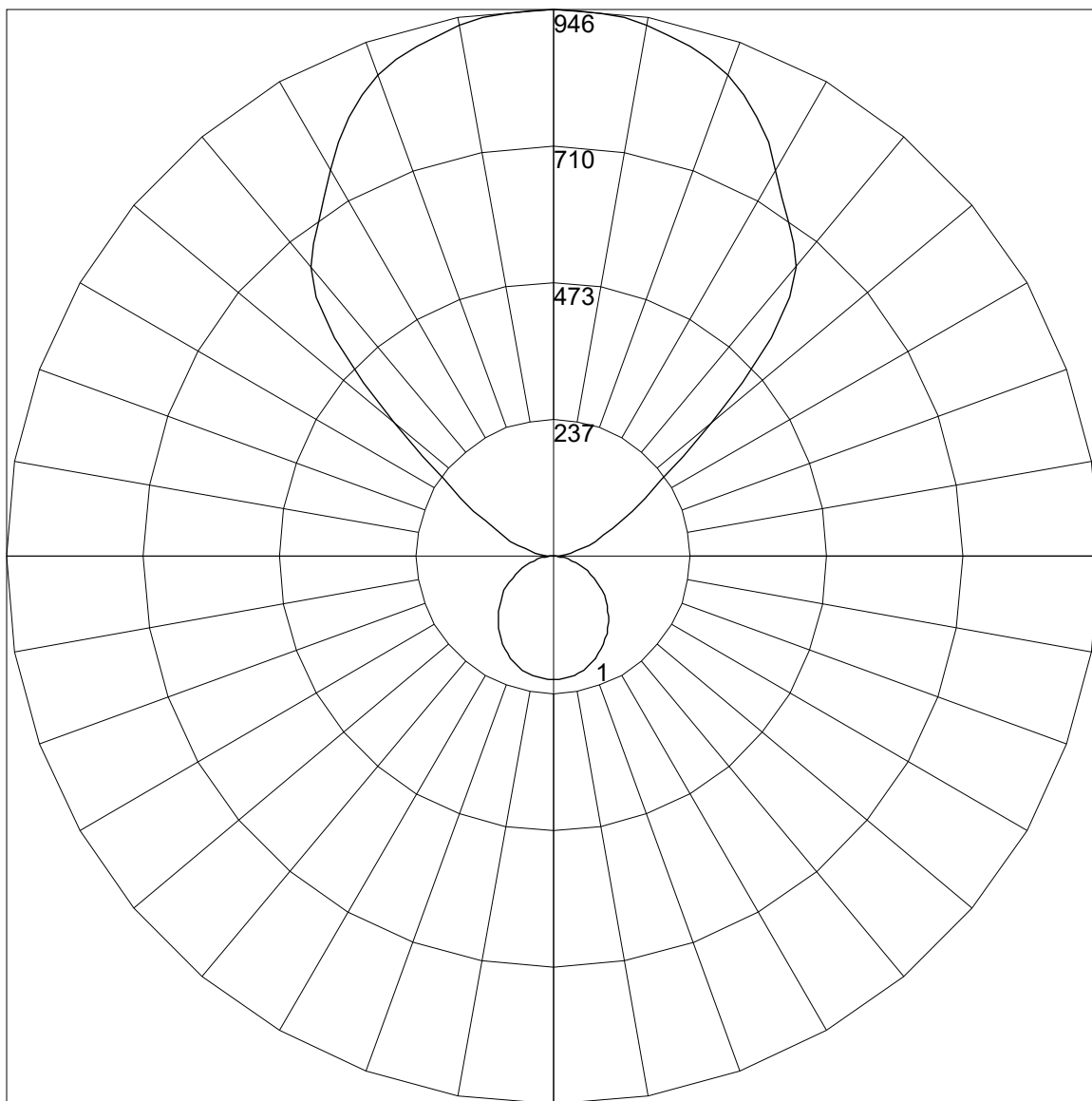
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	91	87	83	80	80	77	74	71	58	56	55	41	40	39	26	25	24	17
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20	14
3	75	66	59	54	66	59	53	48	45	41	38	32	29	27	20	18	17	12
4	69	59	51	45	61	52	46	41	40	35	32	28	26	23	18	16	15	10
5	63	52	44	39	56	46	40	35	35	31	27	25	22	20	16	14	13	9
6	58	46	39	33	51	41	35	30	32	27	24	23	20	17	14	13	11	8
7	53	42	34	29	47	37	31	26	29	24	21	21	18	15	13	11	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	6
9	46	34	27	22	40	31	24	20	24	19	16	17	14	12	11	9	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7	5

POLAR GRAPH



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