

# 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-S-V-835-ITL89277.006.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL89277.006 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]05/02/17  
[ISSUEDATE]05/22/17  
[LUMCAT]FINELITE E2-ID-L-4ft-S-V-835  
[OTHER]INPUT\_ELECTRICAL: 120.0 VOLTS, 26.3 WATTS  
[OTHER]INPUT\_ELECTRICAL: 277.0 VOLTS, 28.0 WATTS  
[\_ABSOLUTE]LUMENS]2361  
[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)  
[MANUFAC] Finelite, Inc.  
[\_SEARCH\_CRI] 80  
[\_SEARCH\_COLORTEMP] 3500K  
[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Corridor, Educational, Hallway, Healthcare, Hospitality,  
[\_SEARCH\_MOUNTING] Cable, Ceiling, Pendant, Suspended  
[\_SEARCH\_CERTIFICATION] UL

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2361
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
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)	4.00 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	8438	8387	8311
55	8052	7958	7927
65	7612	7442	7442
75	7082	6874	6943
85	5980	5980	6186

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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	289.661	289.661	289.661	289.661	289.661
2.5	289.661	289.661	289.661	289.661	289.661
5.0	288.547	288.547	288.547	288.547	288.547
7.5	286.319	286.319	286.319	286.319	285.762
10.0	284.091	283.534	284.091	284.091	284.091
12.5	280.749	280.191	280.749	281.306	280.749
15.0	276.849	275.178	276.849	276.849	276.849
17.5	272.393	270.165	272.393	272.393	271.836
20.0	267.380	264.594	267.380	266.823	265.708
22.5	261.252	258.467	260.695	260.695	260.138
25.0	254.568	251.782	254.011	253.454	252.897
27.5	247.326	244.541	246.769	246.212	245.098
30.0	239.528	236.742	238.970	237.856	237.299
32.5	231.172	228.944	230.615	230.058	228.944
35.0	222.816	220.031	221.702	221.145	220.588
37.5	213.904	211.676	212.790	212.233	211.676
40.0	204.434	202.206	203.320	202.763	202.206
42.5	194.407	192.736	193.293	192.736	192.179
45.0	184.938	182.709	183.824	182.709	182.152
47.5	174.911	172.683	173.240	172.683	172.126
50.0	164.327	162.656	163.213	162.099	162.099
52.5	154.300	152.072	152.629	151.515	151.515
55.0	143.160	141.488	141.488	140.931	140.931
57.5	132.576	130.905	130.348	129.790	129.790
60.0	121.992	119.764	119.764	119.207	119.207
62.5	110.851	109.180	108.623	108.066	108.623
65.0	99.710	98.039	97.482	97.482	97.482
67.5	89.127	87.455	86.898	86.898	86.898
70.0	77.986	76.315	76.315	75.758	76.315
72.5	67.402	65.731	65.731	65.731	66.288
75.0	56.818	55.704	55.147	55.147	55.704
77.5	46.791	45.120	45.120	45.677	45.677
80.0	36.208	35.094	35.094	35.651	36.208
82.5	26.181	25.067	25.624	26.181	26.181
85.0	16.154	15.597	16.154	16.154	16.711
87.5	6.127	6.127	6.685	7.241	7.241
90.0	0.000	0.000	0.000	0.000	0.000
92.5	4.850	4.157	2.771	2.078	2.078
95.0	13.857	12.471	9.700	7.621	7.621
97.5	26.328	22.863	18.014	14.549	14.549
100.0	40.877	34.641	27.020	22.170	21.478
102.5	58.198	47.805	36.720	29.792	28.406
105.0	78.982	64.433	48.498	38.798	36.027
107.5	103.232	83.832	60.969	48.498	44.341
110.0	130.252	107.388	75.518	59.583	54.041
112.5	160.736	134.409	92.839	72.054	65.126
115.0	192.607	163.508	114.317	85.911	78.290
117.5	226.555	195.378	139.951	103.232	92.146
120.0	260.504	227.248	173.900	123.324	109.467
122.5	294.452	261.197	215.470	148.265	130.945
125.0	326.323	295.145	261.197	183.600	158.658
127.5	358.193	330.479	304.845	230.019	196.763
130.0	389.370	365.121	342.258	286.138	247.340
132.5	419.162	397.684	373.435	342.950	309.002

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CANDELA TABULATION - (Cont.)

135.0	446.182	428.168	401.148	392.834	370.663
137.5	469.738	456.574	428.168	428.168	420.547
140.0	493.294	482.209	456.574	451.725	453.110
142.5	514.772	505.072	484.980	471.124	473.202
145.0	534.864	525.857	512.693	493.294	490.523
147.5	552.877	543.871	537.635	516.850	510.615
150.0	569.505	561.192	559.806	541.792	534.171
152.5	584.055	576.434	578.512	565.348	558.420
155.0	597.219	589.597	593.754	585.441	579.898
157.5	608.997	602.068	606.225	602.761	597.912
160.0	619.389	613.154	616.618	615.925	613.154
162.5	628.396	622.853	626.317	624.932	624.239
165.0	636.017	631.860	634.631	633.246	631.860
167.5	641.560	638.789	640.867	640.867	638.789
170.0	646.410	645.024	646.410	646.410	645.717
172.5	649.874	649.181	649.874	649.874	650.566
175.0	653.338	652.645	652.645	652.645	652.645
177.5	654.724	654.031	654.031	654.031	654.031
180.0	655.416	655.416	655.416	655.416	655.416

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	105.37	N.A.	4.50
0-30	222.03	N.A.	9.40
0-40	360.41	N.A.	15.30
0-60	628.23	N.A.	26.60
0-80	784.13	N.A.	33.20
0-90	802.16	N.A.	34.00
10-90	774.78	N.A.	32.80
20-40	255.05	N.A.	10.80
20-50	396.36	N.A.	16.80
40-70	364.87	N.A.	15.50
60-80	155.90	N.A.	6.60
70-80	58.84	N.A.	2.50
80-90	18.03	N.A.	0.80
90-110	69.24	N.A.	2.90
90-120	194.67	N.A.	8.20
90-130	416.18	N.A.	17.60
90-150	1046.79	N.A.	44.30
90-180	1558.84	N.A.	66.00
110-180	1489.6	N.A.	63.10
0-180	2361.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	27.38
10-20	77.99
20-30	116.66
30-40	138.38
40-50	141.32
50-60	126.50
60-70	97.06
70-80	58.84
80-90	18.03
90-100	12.67
100-110	56.57
110-120	125.43
120-130	221.51
130-140	310.96
140-150	319.66
150-160	271.15
160-170	178.81
170-180	62.09

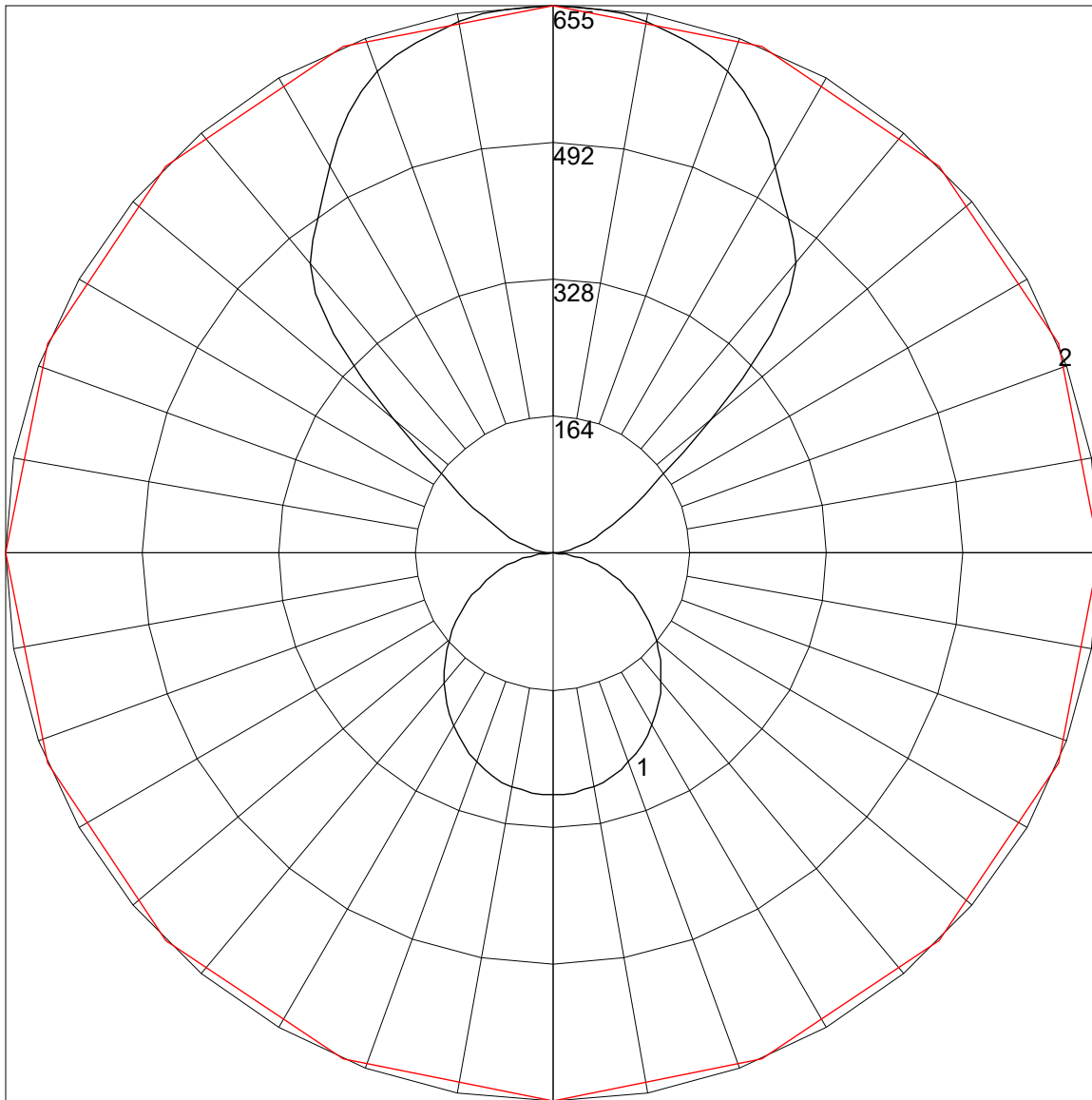
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	34
1	94	90	86	82	85	81	78	75	65	63	61	50	49	47	36	35	35	28
2	86	78	72	67	77	71	66	61	57	53	50	44	41	39	32	30	29	24
3	78	69	61	56	70	62	56	51	50	45	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	48	43	44	39	35	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	30	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	26	28	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	19	16	14	11
8	51	39	32	26	46	36	29	24	29	24	20	23	19	17	17	15	13	10
9	48	36	28	23	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	15	12	10	8

POLAR GRAPH



Maximum Candela = 655.416 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)