

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-B-B-835-ITL89277.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]05/02/17
[ISSUEDATE]05/16/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE E2-ID-L-4ft-B-B-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 19.1 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 22.4 WATTS
[ABSOLUTE]LUMENS]1899
[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	1899
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	19.1
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	7629	7560
55	7325	7239	7211
65	6924	6769	6769
75	6443	6253	6316
85	5439	5439	5627

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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	267.610	267.610	267.610	267.610	267.610
2.5	267.610	267.610	267.610	267.610	267.610
5.0	266.580	266.580	266.580	266.580	266.580
7.5	264.522	264.522	264.522	264.522	264.007
10.0	262.463	261.949	262.463	262.463	262.463
12.5	259.376	258.861	259.376	259.890	259.376
15.0	255.773	254.229	255.773	255.773	255.773
17.5	251.656	249.598	251.656	251.656	251.141
20.0	247.024	244.451	247.024	246.510	245.480
22.5	241.363	238.790	240.849	240.849	240.334
25.0	235.188	232.615	234.673	234.159	233.644
27.5	228.498	225.924	227.983	227.468	226.439
30.0	221.293	218.719	220.778	219.749	219.234
32.5	213.573	211.515	213.059	212.544	211.515
35.0	205.854	203.280	204.824	204.310	203.795
37.5	197.619	195.561	196.590	196.076	195.561
40.0	188.871	186.812	187.841	187.327	186.812
42.5	179.607	178.063	178.578	178.063	177.549
45.0	170.859	168.800	169.829	168.800	168.285
47.5	161.595	159.537	160.051	159.537	159.022
50.0	151.817	150.273	150.788	149.759	149.759
52.5	142.554	140.495	141.010	139.980	139.980
55.0	132.261	130.717	130.717	130.202	130.202
57.5	122.483	120.939	120.424	119.910	119.910
60.0	112.705	110.646	110.646	110.132	110.132
62.5	102.412	100.868	100.354	99.839	100.354
65.0	92.119	90.576	90.061	90.061	90.061
67.5	82.341	80.798	80.283	80.283	80.283
70.0	72.049	70.505	70.505	69.990	70.505
72.5	62.271	60.727	60.727	60.727	61.241
75.0	52.493	51.463	50.949	50.949	51.463
77.5	43.229	41.685	41.685	42.200	42.200
80.0	33.451	32.422	32.422	32.937	33.451
82.5	24.188	23.159	23.673	24.188	24.188
85.0	14.924	14.410	14.924	14.924	15.439
87.5	5.661	5.661	6.176	6.690	6.690
90.0	0.000	0.000	0.000	0.000	0.000
92.5	3.602	3.088	2.059	1.544	1.544
95.0	10.293	9.263	7.205	5.661	5.661
97.5	19.556	16.983	13.380	10.807	10.807
100.0	30.363	25.732	20.071	16.468	15.954
102.5	43.229	35.510	27.276	22.129	21.100
105.0	58.668	47.861	36.024	28.820	26.761
107.5	76.680	62.271	45.288	36.024	32.937
110.0	96.751	79.768	56.095	44.259	40.141
112.5	119.395	99.839	68.961	53.522	48.376
115.0	143.068	121.454	84.915	63.815	58.154
117.5	168.285	145.127	103.956	76.680	68.446
120.0	193.502	168.800	129.173	91.605	81.312
122.5	218.719	194.017	160.051	110.132	97.266
125.0	242.393	219.234	194.017	136.378	117.851
127.5	266.066	245.480	226.439	170.859	146.156
130.0	289.224	271.212	254.229	212.544	183.724
132.5	311.354	295.400	277.388	254.744	229.527

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CANDELA TABULATION - (Cont.)

135.0	331.424	318.044	297.973	291.798	275.329
137.5	348.922	339.144	318.044	318.044	312.383
140.0	366.419	358.185	339.144	335.541	336.571
142.5	382.373	375.168	360.244	349.951	351.495
145.0	397.298	390.607	380.829	366.419	364.361
147.5	410.678	403.988	399.356	383.917	379.285
150.0	423.029	416.854	415.824	402.444	396.783
152.5	433.837	428.176	429.719	419.941	414.795
155.0	443.615	437.954	441.041	434.866	430.749
157.5	452.363	447.217	450.305	447.732	444.129
160.0	460.083	455.451	458.024	457.510	455.451
162.5	466.773	462.656	465.229	464.200	463.685
165.0	472.434	469.346	471.405	470.376	469.346
167.5	476.551	474.493	476.037	476.037	474.493
170.0	480.154	479.124	480.154	480.154	479.639
172.5	482.727	482.212	482.727	482.727	483.241
175.0	485.300	484.785	484.785	484.785	484.785
177.5	486.329	485.815	485.815	485.815	485.815
180.0	486.844	486.844	486.844	486.844	486.844

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	97.35	N.A.	5.10
0-30	205.13	N.A.	10.80
0-40	332.98	N.A.	17.50
0-60	580.40	N.A.	30.60
0-80	724.43	N.A.	38.10
0-90	741.09	N.A.	39.00
10-90	715.79	N.A.	37.70
20-40	235.63	N.A.	12.40
20-50	366.19	N.A.	19.30
40-70	337.10	N.A.	17.80
60-80	144.03	N.A.	7.60
70-80	54.36	N.A.	2.90
80-90	16.66	N.A.	0.90
90-110	51.43	N.A.	2.70
90-120	144.60	N.A.	7.60
90-130	309.14	N.A.	16.30
90-150	777.56	N.A.	40.90
90-180	1157.91	N.A.	61.00
110-180	1106.48	N.A.	58.30
0-180	1899.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.30
10-20	72.05
20-30	107.78
30-40	127.85
40-50	130.56
50-60	116.87
60-70	89.67
70-80	54.36
80-90	16.66
90-100	9.41
100-110	42.02
110-120	93.17
120-130	164.54
130-140	230.98
140-150	237.44
150-160	201.41
160-170	132.82
170-180	46.12

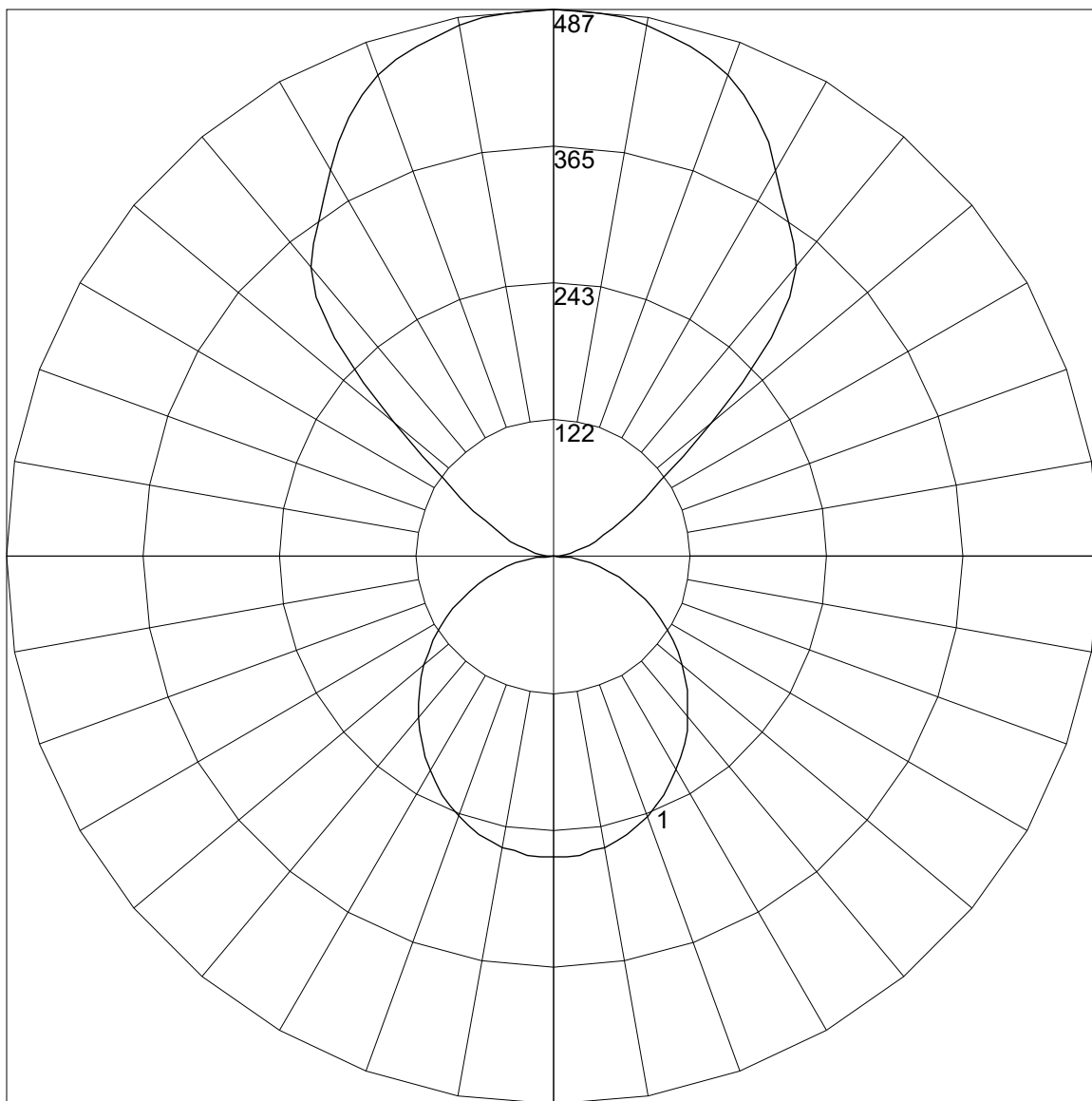
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 486.844 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)