

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-S-835-ITL89277.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.001 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-S-S-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 15.3 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 18.3 WATTS
[ABSOLUTE]LUMENS]1511
[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	1511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	15.3
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	6107	6070	6015
55	5828	5760	5737
65	5509	5386	5386
75	5126	4975	5026
85	4328	4328	4477

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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	212.932	212.932	212.932	212.932	212.932
2.5	212.932	212.932	212.932	212.932	212.932
5.0	212.113	212.113	212.113	212.113	212.113
7.5	210.475	210.475	210.475	210.475	210.066
10.0	208.837	208.428	208.837	208.837	208.837
12.5	206.380	205.971	206.380	206.790	206.380
15.0	203.514	202.286	203.514	203.514	203.514
17.5	200.238	198.600	200.238	200.238	199.829
20.0	196.553	194.505	196.553	196.143	195.324
22.5	192.049	190.001	191.639	191.639	191.230
25.0	187.135	185.087	186.725	186.316	185.906
27.5	181.811	179.764	181.402	180.992	180.173
30.0	176.079	174.031	175.669	174.850	174.441
32.5	169.936	168.298	169.527	169.117	168.298
35.0	163.794	161.747	162.975	162.566	162.156
37.5	157.242	155.604	156.423	156.014	155.604
40.0	150.281	148.643	149.462	149.053	148.643
42.5	142.910	141.682	142.091	141.682	141.272
45.0	135.949	134.311	135.130	134.311	133.902
47.5	128.578	126.940	127.350	126.940	126.531
50.0	120.798	119.570	119.979	119.160	119.160
52.5	113.427	111.789	112.199	111.380	111.380
55.0	105.238	104.009	104.009	103.600	103.600
57.5	97.457	96.229	95.820	95.410	95.410
60.0	89.677	88.039	88.039	87.630	87.630
62.5	81.488	80.259	79.850	79.440	79.850
65.0	73.298	72.069	71.660	71.660	71.660
67.5	65.518	64.289	63.880	63.880	63.880
70.0	57.328	56.099	56.099	55.690	56.099
72.5	49.548	48.319	48.319	48.319	48.729
75.0	41.767	40.949	40.539	40.539	40.949
77.5	34.397	33.168	33.168	33.578	33.578
80.0	26.617	25.798	25.798	26.207	26.617
82.5	19.246	18.427	18.836	19.246	19.246
85.0	11.875	11.466	11.875	11.875	12.285
87.5	4.504	4.504	4.914	5.323	5.323
90.0	0.000	0.000	0.000	0.000	0.000
92.5	2.866	2.457	1.638	1.228	1.228
95.0	8.190	7.371	5.733	4.504	4.504
97.5	15.560	13.513	10.647	8.599	8.599
100.0	24.160	20.474	15.970	13.104	12.694
102.5	34.397	28.254	21.703	17.608	16.789
105.0	46.681	38.082	28.664	22.931	21.293
107.5	61.013	49.548	36.035	28.664	26.207
110.0	76.983	63.470	44.634	35.216	31.940
112.5	95.001	79.440	54.871	42.586	38.492
115.0	113.837	96.638	67.565	50.776	46.272
117.5	133.902	115.475	82.716	61.013	54.462
120.0	153.966	134.311	102.781	72.888	64.699
122.5	174.031	154.376	127.350	87.630	77.393
125.0	192.867	174.441	154.376	108.514	93.772
127.5	211.704	195.324	180.173	135.949	116.294
130.0	230.131	215.799	202.286	169.117	146.186
132.5	247.738	235.044	220.712	202.695	182.630

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CANDELA TABULATION - (Cont.)

135.0	263.708	253.062	237.092	232.178	219.075
137.5	277.631	269.851	253.062	253.062	248.557
140.0	291.553	285.002	269.851	266.984	267.803
142.5	304.247	298.515	286.640	278.450	279.678
145.0	316.122	310.799	303.019	291.553	289.915
147.5	326.769	321.446	317.760	305.476	301.791
150.0	336.597	331.683	330.864	320.217	315.713
152.5	345.196	340.692	341.920	334.140	330.045
155.0	352.976	348.472	350.929	346.015	342.739
157.5	359.937	355.843	358.299	356.252	353.386
160.0	366.080	362.394	364.442	364.032	362.394
162.5	371.403	368.127	370.175	369.356	368.946
165.0	375.907	373.450	375.088	374.269	373.450
167.5	379.183	377.545	378.774	378.774	377.545
170.0	382.050	381.231	382.050	382.050	381.640
172.5	384.097	383.688	384.097	384.097	384.507
175.0	386.144	385.735	385.735	385.735	385.735
177.5	386.963	386.554	386.554	386.554	386.554
180.0	387.373	387.373	387.373	387.373	387.373

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	77.46	N.A.	5.10
0-30	163.22	N.A.	10.80
0-40	264.94	N.A.	17.50
0-60	461.82	N.A.	30.60
0-80	576.42	N.A.	38.10
0-90	589.67	N.A.	39.00
10-90	569.54	N.A.	37.70
20-40	187.49	N.A.	12.40
20-50	291.37	N.A.	19.30
40-70	268.22	N.A.	17.80
60-80	114.60	N.A.	7.60
70-80	43.25	N.A.	2.90
80-90	13.26	N.A.	0.90
90-110	40.92	N.A.	2.70
90-120	115.06	N.A.	7.60
90-130	245.97	N.A.	16.30
90-150	618.69	N.A.	40.90
90-180	921.33	N.A.	61.00
110-180	880.41	N.A.	58.30
0-180	1511.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.13
10-20	57.33
20-30	85.76
30-40	101.73
40-50	103.88
50-60	92.99
60-70	71.35
70-80	43.25
80-90	13.26
90-100	7.49
100-110	33.43
110-120	74.13
120-130	130.92
130-140	183.79
140-150	188.93
150-160	160.26
160-170	105.69
170-180	36.69

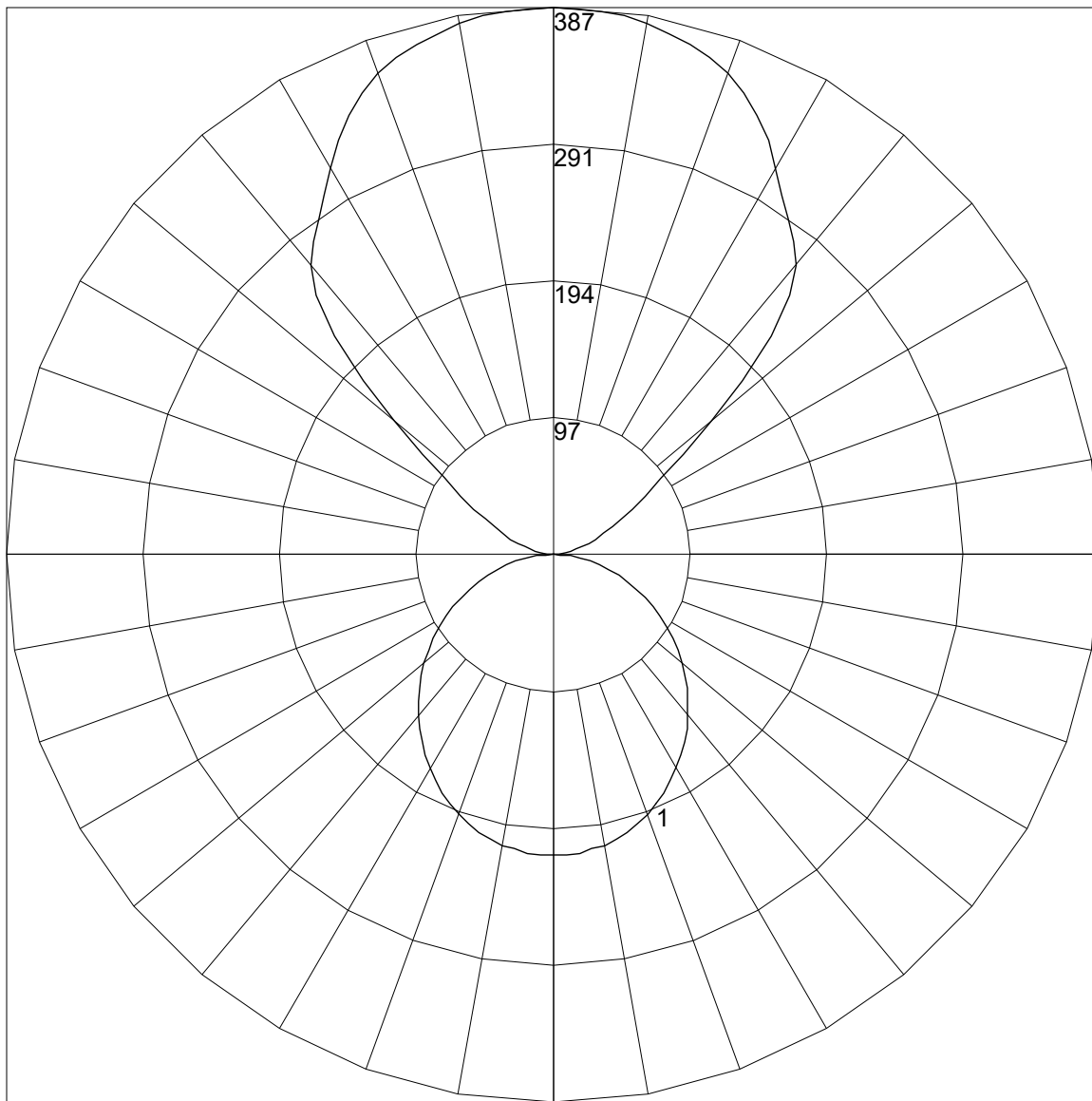
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 387.373 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)