

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-B-835-ITL89277.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.004 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-S-B-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 17.2 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 20.3 WATTS
[ABSOLUTE]LUMENS]1662
[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	1662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	17.2
Ballast Factor	1.00
CIE Type	General Diffuse
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	6768	6768
75	6442	6252	6315
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	267.578	267.578	267.578	267.578	267.578
2.5	267.578	267.578	267.578	267.578	267.578
5.0	266.549	266.549	266.549	266.549	266.549
7.5	264.490	264.490	264.490	264.490	263.976
10.0	262.432	261.917	262.432	262.432	262.432
12.5	259.345	258.830	259.345	259.859	259.345
15.0	255.743	254.199	255.743	255.743	255.743
17.5	251.626	249.568	251.626	251.626	251.111
20.0	246.995	244.422	246.995	246.480	245.451
22.5	241.334	238.762	240.820	240.820	240.305
25.0	235.160	232.587	234.645	234.131	233.616
27.5	228.470	225.897	227.956	227.441	226.412
30.0	221.266	218.693	220.752	219.722	219.208
32.5	213.548	211.489	213.033	212.518	211.489
35.0	205.829	203.256	204.800	204.285	203.771
37.5	197.596	195.538	196.567	196.052	195.538
40.0	188.848	186.790	187.819	187.304	186.790
42.5	179.586	178.042	178.557	178.042	177.528
45.0	170.838	168.780	169.809	168.780	168.265
47.5	161.576	159.518	160.032	159.518	159.003
50.0	151.799	150.255	150.770	149.741	149.741
52.5	142.537	140.478	140.993	139.964	139.964
55.0	132.245	130.701	130.701	130.187	130.187
57.5	122.468	120.925	120.410	119.895	119.895
60.0	112.691	110.633	110.633	110.118	110.118
62.5	102.400	100.856	100.342	99.827	100.342
65.0	92.109	90.565	90.050	90.050	90.050
67.5	82.332	80.788	80.273	80.273	80.273
70.0	72.040	70.496	70.496	69.982	70.496
72.5	62.263	60.720	60.720	60.720	61.234
75.0	52.486	51.457	50.943	50.943	51.457
77.5	43.224	41.680	41.680	42.195	42.195
80.0	33.447	32.418	32.418	32.933	33.447
82.5	24.185	23.156	23.670	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	2.865	2.456	1.637	1.228	1.228
95.0	8.187	7.368	5.731	4.503	4.503
97.5	15.555	13.508	10.643	8.596	8.596
100.0	24.151	20.467	15.964	13.099	12.690
102.5	34.385	28.244	21.695	17.602	16.783
105.0	46.665	38.069	28.654	22.923	21.286
107.5	60.992	49.530	36.022	28.654	26.198
110.0	76.956	63.447	44.618	35.203	31.928
112.5	94.967	79.412	54.851	42.571	38.478
115.0	113.796	96.604	67.541	50.758	46.255
117.5	133.854	115.433	82.686	60.992	54.442
120.0	153.911	134.263	102.744	72.862	64.675
122.5	173.969	154.321	127.304	87.599	77.365
125.0	192.799	174.378	154.321	108.475	93.739
127.5	211.628	195.255	180.109	135.900	116.252
130.0	230.048	215.721	202.213	169.057	146.134
132.5	247.650	234.960	220.634	202.623	182.565

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CANDELA TABULATION - (Cont.)

135.0	263.614	252.971	237.007	232.095	218.996
137.5	277.532	269.754	252.971	252.971	248.469
140.0	291.449	284.900	269.754	266.889	267.708
142.5	304.139	298.408	286.537	278.350	279.578
145.0	316.010	310.688	302.911	291.449	289.812
147.5	326.652	321.331	317.647	305.367	301.683
150.0	336.476	331.564	330.746	320.103	315.600
152.5	345.073	340.570	341.798	334.020	329.927
155.0	352.850	348.347	350.803	345.891	342.617
157.5	359.809	355.715	358.171	356.125	353.259
160.0	365.949	362.265	364.312	363.902	362.265
162.5	371.270	367.996	370.042	369.224	368.814
165.0	375.773	373.317	374.954	374.136	373.317
167.5	379.048	377.410	378.638	378.638	377.410
170.0	381.913	381.094	381.913	381.913	381.504
172.5	383.960	383.550	383.960	383.960	384.369
175.0	386.007	385.597	385.597	385.597	385.597
177.5	386.825	386.416	386.416	386.416	386.416
180.0	387.235	387.235	387.235	387.235	387.235

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	97.34	N.A.	5.90
0-30	205.10	N.A.	12.30
0-40	332.94	N.A.	20.00
0-60	580.33	N.A.	34.90
0-80	724.34	N.A.	43.60
0-90	741.00	N.A.	44.60
10-90	715.71	N.A.	43.10
20-40	235.60	N.A.	14.20
20-50	366.14	N.A.	22.00
40-70	337.06	N.A.	20.30
60-80	144.01	N.A.	8.70
70-80	54.35	N.A.	3.30
80-90	16.66	N.A.	1.00
90-110	40.91	N.A.	2.50
90-120	115.02	N.A.	6.90
90-130	245.89	N.A.	14.80
90-150	618.47	N.A.	37.20
90-180	921.00	N.A.	55.40
110-180	880.09	N.A.	53.00
0-180	1662.00	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	7.49
100-110	33.42
110-120	74.11
120-130	130.87
130-140	183.72
140-150	188.86
150-160	160.20
160-170	105.65
170-180	36.68

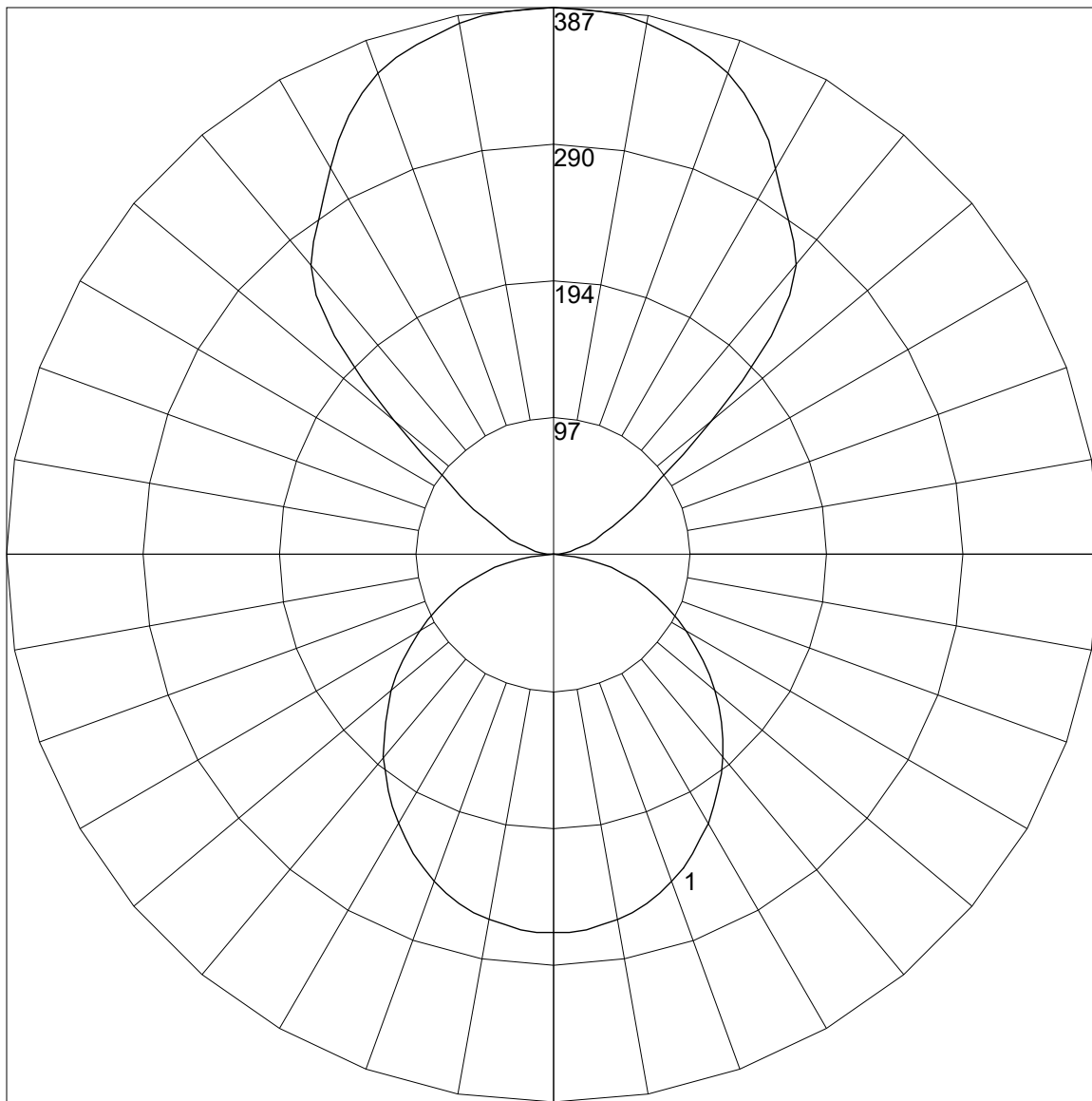
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	39	37	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	32	30	26
4	73	62	54	48	66	57	50	45	48	43	38	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	23	19
6	62	49	41	36	56	46	38	33	38	33	29	32	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15
8	53	40	33	27	48	37	30	26	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	27	21	18	22	18	15	18	15	13	11

POLAR GRAPH



Maximum Candela = 387.235 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)