

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 : E3-P-WW-D-4FT-H-835-F-ITL93801.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93801.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/04/20
[ISSUE DATE]12/07/20
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE E3-P-WW-D-4ft-H-835-F
[INPUT_ELECTRICAL]120.0 VOLTS, 15.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 15.5 WATTS
[ABSOLUTE LUMENS]1656

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	3.16
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	4.13 ft
Luminous Height	0.11 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17050	16830	12002
55	15544	15112	10873
65	14122	13280	9262
75	12714	11545	7186
85	11148	9908	5142

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>
0.0	205.347	205.347	205.347	205.347	205.347	205.347	205.347	205.347	205.347	205.347
2.5	248.128	245.794	245.794	243.461	240.349	235.682	228.682	221.682	214.681	210.014
5.0	292.464	290.131	288.575	283.130	275.352	264.462	252.795	238.016	224.793	212.348
7.5	336.023	336.023	331.356	322.799	310.354	294.020	277.685	255.128	234.905	215.459
10.0	383.470	381.137	376.470	365.580	348.468	324.355	301.020	272.240	244.239	217.792
12.5	428.584	425.473	419.250	406.027	385.026	355.468	324.355	288.575	252.795	219.348
15.0	475.254	471.365	463.587	445.697	420.028	386.581	348.468	303.354	261.351	220.904
17.5	516.479	512.590	503.256	483.032	453.475	413.805	369.469	318.132	268.351	221.682
20.0	556.148	552.259	541.370	520.368	484.588	440.252	389.693	332.911	275.352	221.682
22.5	588.039	585.706	576.372	551.481	513.368	465.920	409.139	344.579	280.797	221.682
25.0	618.375	615.263	604.374	578.705	540.592	487.699	426.251	354.690	285.464	220.126
27.5	644.043	640.154	629.264	602.818	562.371	506.367	441.030	364.802	288.575	218.570
30.0	664.267	660.378	649.488	622.264	579.483	521.924	452.697	371.803	290.908	216.237
32.5	678.268	674.379	662.711	636.265	593.484	533.591	460.475	376.470	291.686	212.348
35.0	689.935	685.268	674.379	646.377	604.374	543.703	467.476	380.359	290.908	208.458
37.5	695.380	691.491	679.823	652.599	609.819	549.148	470.587	380.359	287.797	203.014
40.0	698.491	694.602	683.712	655.711	612.152	550.704	471.365	378.803	283.908	196.013
42.5	700.047	695.380	683.712	656.488	612.152	550.704	469.031	374.914	278.463	189.013
45.0	698.491	694.602	681.379	654.155	608.263	546.814	464.364	369.469	270.685	181.234
47.5	695.380	691.491	677.490	649.488	602.818	539.814	455.808	360.913	262.907	171.900
50.0	690.713	686.824	672.045	642.487	595.818	532.036	447.252	351.579	252.795	162.566
52.5	683.712	680.601	665.045	634.709	586.484	521.924	436.363	339.912	242.683	152.455
55.0	676.712	672.823	657.266	626.153	576.372	509.479	423.917	328.244	230.238	142.343
57.5	668.156	664.267	647.154	616.041	563.927	496.255	410.694	314.243	217.792	132.231
60.0	657.266	654.155	636.265	603.596	551.481	482.255	395.915	299.465	205.347	121.341
62.5	645.599	643.265	623.820	591.151	537.480	466.698	380.359	284.686	194.457	110.452
65.0	632.376	630.042	610.596	576.372	521.924	450.364	364.024	269.907	179.679	100.340
67.5	618.375	615.263	596.596	561.593	506.367	434.807	347.690	255.128	166.456	89.450
70.0	602.818	600.485	581.039	545.259	490.033	417.695	330.578	239.572	154.010	80.116
72.5	586.484	584.150	563.927	526.591	472.921	400.582	315.021	225.571	142.343	70.005
75.0	567.816	565.482	546.037	509.479	454.253	381.914	297.909	212.348	129.898	61.449
77.5	548.370	546.037	526.591	490.033	434.029	363.247	281.574	198.347	119.008	52.892
80.0	527.369	525.813	506.367	469.809	415.361	345.356	266.018	184.346	108.118	44.336
82.5	506.367	503.256	485.366	448.808	395.138	327.466	249.683	170.345	98.007	37.336
85.0	481.477	479.921	462.809	427.806	374.914	309.576	234.127	158.677	88.673	31.113
87.5	458.142	456.586	440.252	406.027	355.468	292.464	220.126	147.010	79.339	24.891
90.0	434.807	431.696	416.139	385.026	335.245	275.352	206.125	135.342	71.560	19.446
92.5	410.694	407.583	392.804	360.913	315.021	256.684	192.124	124.453	63.782	14.779
95.0	384.248	382.692	367.914	338.356	294.798	240.349	178.123	115.119	56.782	10.112
97.5	360.135	359.357	343.801	317.355	275.352	224.793	164.900	105.007	49.781	6.223
100.0	336.800	335.245	322.022	295.575	257.462	209.236	153.232	96.451	44.336	3.889
102.5	315.021	312.688	299.465	276.130	238.794	193.680	141.565	87.895	38.114	2.333
105.0	292.464	291.686	279.241	256.684	222.459	179.679	129.898	79.339	32.669	2.333
107.5	273.018	272.240	259.795	238.016	206.125	166.456	119.008	71.560	27.224	1.556
110.0	254.350	253.573	241.905	221.682	191.346	153.232	108.896	63.782	21.001	1.556
112.5	237.238	235.682	225.571	206.125	176.567	140.009	99.562	56.782	16.334	1.556
115.0	220.904	218.570	208.458	190.568	163.344	128.342	90.228	49.003	13.223	0.778
117.5	203.791	202.236	192.902	175.790	149.343	117.452	80.894	42.003	10.890	0.778
120.0	188.235	187.457	178.123	161.789	136.120	106.563	71.560	34.225	9.334	0.778
122.5	173.456	171.900	164.122	147.788	124.453	94.895	63.004	27.224	7.778	0.000
125.0	158.677	157.122	149.343	134.565	112.785	84.783	53.670	22.557	7.000	0.000
127.5	143.899	143.121	135.342	121.341	100.340	74.672	44.336	18.668	6.223	0.000
130.0	129.898	129.120	122.119	108.118	88.673	63.782	33.447	15.557	5.445	0.000
132.5	115.897	115.897	108.896	95.673	77.005	52.115	27.224	12.445	4.667	0.000

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CANDELA TABULATION - (Cont.)

135.0	102.674	101.118	94.895	83.228	65.338	39.669	22.557	10.890	3.111	0.000
137.5	89.450	87.895	82.450	70.783	51.337	31.113	18.668	9.334	2.333	0.000
140.0	74.672	74.672	68.449	57.559	38.114	25.668	14.779	7.778	1.556	0.000
142.5	60.671	59.893	54.448	43.558	30.335	21.001	12.445	7.000	0.778	0.000
145.0	45.892	45.114	40.447	32.669	24.113	16.334	10.890	5.445	0.778	0.000
147.5	35.780	35.002	32.669	25.668	19.446	13.223	8.556	3.889	0.778	0.000
150.0	28.002	28.002	25.668	20.224	14.779	11.667	7.000	2.333	0.778	0.000
152.5	22.557	22.557	20.224	15.557	12.445	9.334	6.223	1.556	0.778	0.000
155.0	17.112	17.112	14.779	12.445	9.334	7.000	3.889	0.778	0.000	0.000
157.5	14.001	14.001	11.667	9.334	7.778	5.445	2.333	0.778	0.000	0.000
160.0	10.112	10.112	8.556	7.000	6.223	3.111	0.778	0.778	0.000	0.000
162.5	7.778	7.778	6.223	5.445	3.889	1.556	0.778	0.778	0.000	0.000
165.0	5.445	4.667	3.111	2.333	1.556	0.778	0.778	0.778	0.000	0.000
167.5	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.778	0.000	0.000
170.0	0.778	0.778	0.000	0.000	0.000	0.000	0.778	0.778	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.778	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>90.0</u>	<u>95.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	205.347	205.347	205.347	205.347	205.347	205.347
2.5	206.125	202.236	188.235	178.123	170.345	165.678
5.0	206.125	198.347	174.234	152.455	137.676	131.453
7.5	204.569	194.457	159.455	128.342	107.341	100.340
10.0	203.791	189.790	146.232	105.007	80.894	73.894
12.5	202.236	185.901	133.009	84.006	59.115	52.892
15.0	200.680	181.234	119.008	66.893	43.558	36.558
17.5	198.347	175.790	106.563	52.892	31.113	24.891
20.0	196.013	170.345	94.895	40.447	21.001	16.334
22.5	192.124	164.900	83.228	30.335	13.223	9.334
25.0	189.013	159.455	72.338	22.557	7.000	3.111
27.5	184.346	153.232	63.004	15.557	1.556	1.556
30.0	179.679	147.010	53.670	9.334	1.556	0.778
32.5	174.234	140.009	45.114	4.667	0.778	0.778
35.0	168.789	133.787	37.336	1.556	0.778	0.778
37.5	162.566	126.008	30.335	0.778	0.000	0.000
40.0	155.566	118.230	24.113	0.778	0.000	0.000
42.5	147.788	110.452	17.890	0.000	0.000	0.000
45.0	139.232	101.896	12.445	0.000	0.000	0.000
47.5	131.453	93.340	7.000	0.000	0.000	0.000
50.0	122.119	84.783	3.111	0.000	0.000	0.000
52.5	112.785	76.227	0.778	0.000	0.000	0.000
55.0	103.451	67.671	0.000	0.000	0.000	0.000
57.5	94.117	59.115	0.000	0.000	0.000	0.000
60.0	84.006	50.559	0.000	0.000	0.000	0.000
62.5	74.672	42.781	0.000	0.000	0.000	0.000
65.0	66.116	35.002	0.000	0.000	0.000	0.000
67.5	56.782	28.002	0.000	0.000	0.000	0.000
70.0	48.225	21.001	0.000	0.000	0.000	0.000
72.5	40.447	14.001	0.000	0.000	0.000	0.000
75.0	32.669	8.556	0.000	0.000	0.000	0.000
77.5	25.668	3.889	0.000	0.000	0.000	0.000
80.0	20.224	1.556	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	14.001	0.000	0.000	0.000	0.000	0.000
85.0	9.334	0.000	0.000	0.000	0.000	0.000
87.5	3.889	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	85.10	N.A.	5.10
0-30	202.05	N.A.	12.20
0-40	367.71	N.A.	22.20
0-60	778.23	N.A.	47.00
0-80	1170.87	N.A.	70.70
0-90	1326.4	N.A.	80.10
10-90	1306.27	N.A.	78.90
20-40	282.61	N.A.	17.10
20-50	481.35	N.A.	29.10
40-70	617.08	N.A.	37.30
60-80	392.64	N.A.	23.70
70-80	186.08	N.A.	11.20
80-90	155.53	N.A.	9.40
90-110	207.44	N.A.	12.50
90-120	266.37	N.A.	16.10
90-130	302.58	N.A.	18.30
90-150	327.62	N.A.	19.80
90-180	329.76	N.A.	19.90
110-180	122.32	N.A.	7.40
0-180	1656.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.13
10-20	64.97
20-30	116.95
30-40	165.66
40-50	198.74
50-60	211.79
60-70	206.56
70-80	186.08
80-90	155.53
90-100	120.46
100-110	86.98
110-120	58.93
120-130	36.21
130-140	18.42
140-150	6.62
150-160	1.85
160-170	0.29
170-180	0.00

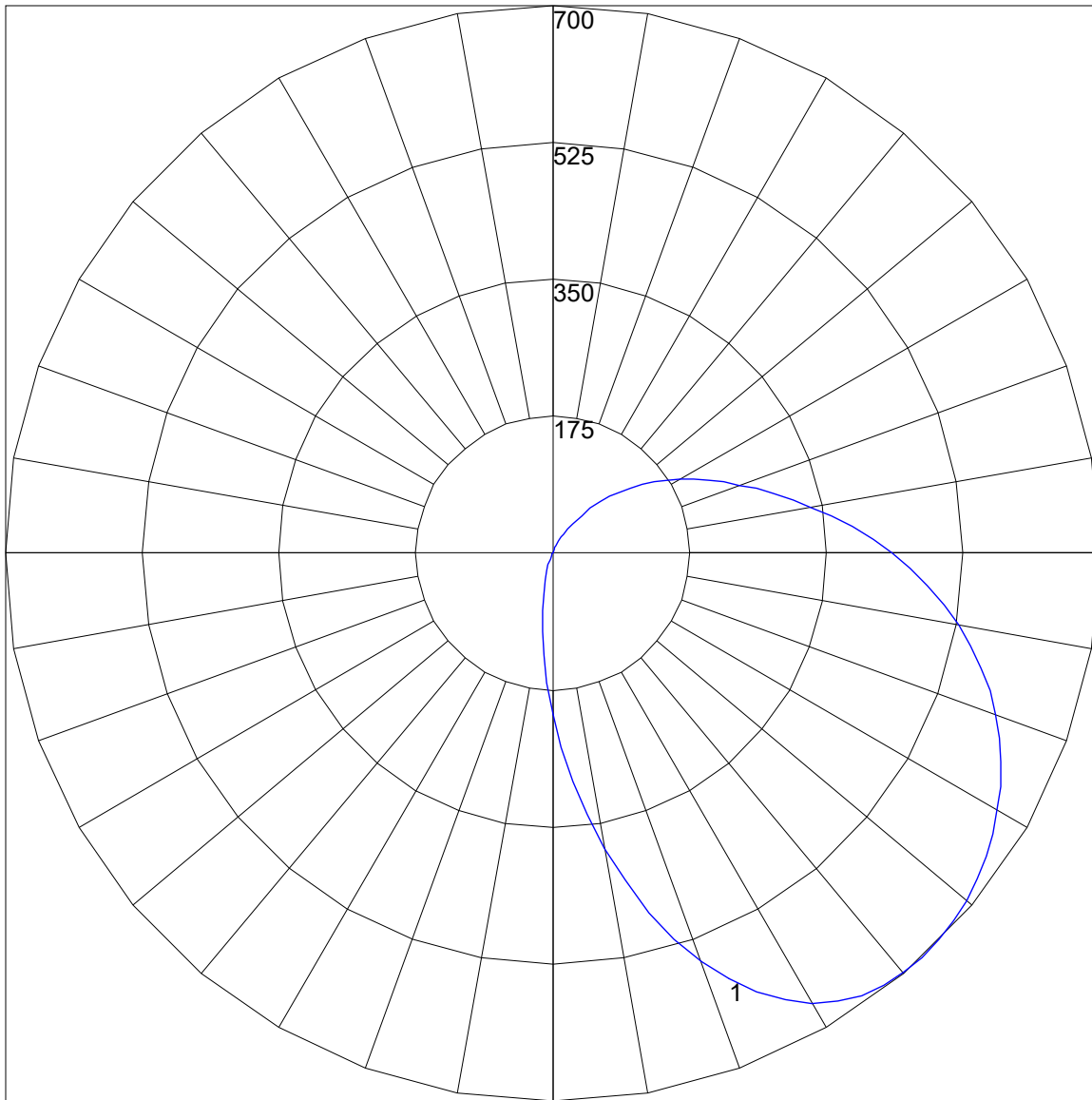
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	100	93	87	82	95	89	84	79	81	77	73	74	70	67	67	64	62	58
2	89	79	70	63	84	75	67	61	68	62	56	62	57	52	56	52	48	45
3	80	68	58	50	76	64	56	49	59	51	45	53	47	42	48	43	39	35
4	72	59	49	41	68	56	47	40	51	43	37	46	40	35	42	36	32	29
5	66	52	42	35	62	50	40	33	45	37	31	41	34	29	37	31	27	24
6	61	46	36	29	57	44	35	28	40	32	27	37	30	25	33	27	23	20
7	56	41	32	25	53	40	31	25	36	29	23	33	26	21	30	24	20	18
8	52	37	28	22	49	36	27	21	33	25	20	30	24	19	27	22	18	15
9	48	34	25	20	46	33	25	19	30	23	18	27	21	17	25	20	16	13
10	45	31	23	17	43	30	22	17	28	21	16	25	19	15	23	18	14	12

POLAR GRAPH



Maximum Candela = 700.047 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)