

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-B-835-F-ITL93801.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93801.002 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-B-835-F
[INPUT_ELECTRICAL]120.0 VOLTS, 9.7 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 10.5 WATTS
[ABSOLUTE LUMENS]1096

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1096
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	9.7
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	11284	11139	7943
55	10288	10001	7196
65	9347	8789	6130
75	8414	7641	4756
85	7378	6558	3404

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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	135.906	135.906	135.906	135.906	135.906	135.906	135.906	135.906	135.906	135.906
2.5	164.220	162.675	162.675	161.131	159.072	155.983	151.350	146.717	142.084	138.995
5.0	193.563	192.019	190.989	187.386	182.238	175.031	167.309	157.527	148.776	140.539
7.5	222.392	222.392	219.303	213.640	205.403	194.593	183.782	168.853	155.468	142.598
10.0	253.794	252.250	249.161	241.954	230.628	214.670	199.226	180.179	161.646	144.143
12.5	283.652	281.593	277.475	268.723	254.824	235.262	214.670	190.989	167.309	145.172
15.0	314.540	311.966	306.818	294.978	277.990	255.853	230.628	200.770	172.971	146.202
17.5	341.824	339.250	333.073	319.688	300.126	273.871	244.528	210.551	177.605	146.717
20.0	368.079	365.505	358.298	344.398	320.718	291.374	257.913	220.333	182.238	146.717
22.5	389.186	387.641	381.464	364.990	339.765	308.363	270.783	228.055	185.841	146.717
25.0	409.263	407.203	399.996	383.008	357.783	322.777	282.108	234.747	188.930	145.687
27.5	426.251	423.677	416.470	398.967	372.197	335.132	291.889	241.439	190.989	144.658
30.0	439.636	437.062	429.854	411.837	383.523	345.428	299.611	246.072	192.534	143.113
32.5	448.902	446.328	438.606	421.103	392.789	353.150	304.759	249.161	193.048	140.539
35.0	456.624	453.535	446.328	427.795	399.996	359.842	309.392	251.735	192.534	137.965
37.5	460.227	457.653	449.931	431.914	403.600	363.446	311.451	251.735	190.474	134.362
40.0	462.287	459.713	452.505	433.973	405.144	364.475	311.966	250.706	187.900	129.729
42.5	463.316	460.227	452.505	434.488	405.144	364.475	310.422	248.132	184.297	125.095
45.0	462.287	459.713	450.961	432.943	402.570	361.901	307.333	244.528	179.149	119.947
47.5	460.227	457.653	448.387	429.854	398.967	357.268	301.670	238.865	174.001	113.770
50.0	457.139	454.565	444.784	425.221	394.334	352.120	296.008	232.688	167.309	107.592
52.5	452.505	450.446	440.150	420.073	388.156	345.428	288.800	224.966	160.616	100.900
55.0	447.872	445.298	435.002	414.411	381.464	337.191	280.564	217.244	152.380	94.208
57.5	442.210	439.636	428.310	407.718	373.227	328.440	271.812	207.977	144.143	87.515
60.0	435.002	432.943	421.103	399.481	364.990	319.173	262.031	198.196	135.906	80.308
62.5	427.280	425.736	412.866	391.245	355.724	308.877	251.735	188.415	128.699	73.101
65.0	418.529	416.985	404.115	381.464	345.428	298.067	240.924	178.634	118.918	66.409
67.5	409.263	407.203	394.848	371.683	335.132	287.771	230.114	168.853	110.166	59.202
70.0	398.967	397.422	384.552	360.872	324.321	276.445	218.788	158.557	101.930	53.024
72.5	388.156	386.612	373.227	348.517	312.996	265.120	208.492	149.291	94.208	46.332
75.0	375.801	374.256	361.387	337.191	300.641	252.765	197.167	140.539	85.971	40.669
77.5	362.931	361.387	348.517	324.321	287.256	240.410	186.356	131.273	78.764	35.006
80.0	349.031	348.002	335.132	310.937	274.901	228.569	176.060	122.007	71.557	29.343
82.5	335.132	333.073	321.233	297.037	261.516	216.729	165.249	112.740	64.864	24.710
85.0	318.659	317.629	306.303	283.138	248.132	204.889	154.954	105.018	58.687	20.592
87.5	303.215	302.185	291.374	268.723	235.262	193.563	145.687	97.296	52.509	16.473
90.0	287.771	285.712	275.416	254.824	221.877	182.238	136.421	89.574	47.361	12.870
92.5	271.812	269.753	259.972	238.865	208.492	169.883	127.155	82.367	42.213	9.781
95.0	254.309	253.279	243.498	223.936	195.108	159.072	117.888	76.190	37.580	6.692
97.5	238.350	237.836	227.540	210.037	182.238	148.776	109.137	69.497	32.947	4.118
100.0	222.907	221.877	213.125	195.622	170.397	138.480	101.415	63.835	29.343	2.574
102.5	208.492	206.948	198.196	182.752	158.042	128.184	93.693	58.172	25.225	1.544
105.0	193.563	193.048	184.812	169.883	147.232	118.918	85.971	52.509	21.621	1.544
107.5	180.693	180.179	171.942	157.527	136.421	110.166	78.764	47.361	18.018	1.030
110.0	168.338	167.823	160.101	146.717	126.640	101.415	72.071	42.213	13.899	1.030
112.5	157.013	155.983	149.291	136.421	116.859	92.663	65.894	37.580	10.811	1.030
115.0	146.202	144.658	137.965	126.125	108.107	84.941	59.716	32.432	8.752	0.515
117.5	134.876	133.847	127.669	116.344	98.841	77.734	53.539	27.799	7.207	0.515
120.0	124.581	124.066	117.888	107.078	90.089	70.527	47.361	22.651	6.178	0.515
122.5	114.799	113.770	108.622	97.811	82.367	62.805	41.698	18.018	5.148	0.000
125.0	105.018	103.989	98.841	89.060	74.645	56.113	35.521	14.929	4.633	0.000
127.5	95.237	94.722	89.574	80.308	66.409	49.420	29.343	12.355	4.118	0.000
130.0	85.971	85.456	80.823	71.557	58.687	42.213	22.136	10.296	3.604	0.000
132.5	76.705	76.705	72.071	63.320	50.965	34.491	18.018	8.237	3.089	0.000

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CANDELA TABULATION - (Cont.)

135.0	67.953	66.923	62.805	55.083	43.243	26.255	14.929	7.207	2.059	0.000
137.5	59.202	58.172	54.568	46.846	33.977	20.592	12.355	6.178	1.544	0.000
140.0	49.420	49.420	45.302	38.095	25.225	16.988	9.781	5.148	1.030	0.000
142.5	40.154	39.639	36.036	28.829	20.077	13.899	8.237	4.633	0.515	0.000
145.0	30.373	29.858	26.769	21.621	15.959	10.811	7.207	3.604	0.515	0.000
147.5	23.681	23.166	21.621	16.988	12.870	8.752	5.663	2.574	0.515	0.000
150.0	18.533	18.533	16.988	13.385	9.781	7.722	4.633	1.544	0.515	0.000
152.5	14.929	14.929	13.385	10.296	8.237	6.178	4.118	1.030	0.515	0.000
155.0	11.326	11.326	9.781	8.237	6.178	4.633	2.574	0.515	0.000	0.000
157.5	9.266	9.266	7.722	6.178	5.148	3.604	1.544	0.515	0.000	0.000
160.0	6.692	6.692	5.663	4.633	4.118	2.059	0.515	0.515	0.000	0.000
162.5	5.148	5.148	4.118	3.604	2.574	1.030	0.515	0.515	0.000	0.000
165.0	3.604	3.089	2.059	1.544	1.030	0.515	0.515	0.515	0.000	0.000
167.5	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.515	0.000	0.000
170.0	0.515	0.515	0.000	0.000	0.000	0.000	0.515	0.515	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.515	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	135.906	135.906	135.906	135.906	135.906	135.906
2.5	136.421	133.847	124.581	117.888	112.740	109.651
5.0	136.421	131.273	115.314	100.900	91.119	87.000
7.5	135.391	128.699	105.533	84.941	71.042	66.409
10.0	134.876	125.610	96.782	69.497	53.539	48.906
12.5	133.847	123.036	88.030	55.598	39.124	35.006
15.0	132.817	119.947	78.764	44.272	28.829	24.195
17.5	131.273	116.344	70.527	35.006	20.592	16.473
20.0	129.729	112.740	62.805	26.769	13.899	10.811
22.5	127.155	109.137	55.083	20.077	8.752	6.178
25.0	125.095	105.533	47.876	14.929	4.633	2.059
27.5	122.007	101.415	41.698	10.296	1.030	1.030
30.0	118.918	97.296	35.521	6.178	1.030	0.515
32.5	115.314	92.663	29.858	3.089	0.515	0.515
35.0	111.711	88.545	24.710	1.030	0.515	0.515
37.5	107.592	83.397	20.077	0.515	0.000	0.000
40.0	102.959	78.249	15.959	0.515	0.000	0.000
42.5	97.811	73.101	11.840	0.000	0.000	0.000
45.0	92.148	67.438	8.237	0.000	0.000	0.000
47.5	87.000	61.775	4.633	0.000	0.000	0.000
50.0	80.823	56.113	2.059	0.000	0.000	0.000
52.5	74.645	50.450	0.515	0.000	0.000	0.000
55.0	68.468	44.787	0.000	0.000	0.000	0.000
57.5	62.290	39.124	0.000	0.000	0.000	0.000
60.0	55.598	33.462	0.000	0.000	0.000	0.000
62.5	49.420	28.314	0.000	0.000	0.000	0.000
65.0	43.758	23.166	0.000	0.000	0.000	0.000
67.5	37.580	18.533	0.000	0.000	0.000	0.000
70.0	31.917	13.899	0.000	0.000	0.000	0.000
72.5	26.769	9.266	0.000	0.000	0.000	0.000
75.0	21.621	5.663	0.000	0.000	0.000	0.000
77.5	16.988	2.574	0.000	0.000	0.000	0.000
80.0	13.385	1.030	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	9.266	0.000	0.000	0.000	0.000	0.000
85.0	6.178	0.000	0.000	0.000	0.000	0.000
87.5	2.574	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	56.32	N.A.	5.10
0-30	133.72	N.A.	12.20
0-40	243.36	N.A.	22.20
0-60	515.06	N.A.	47.00
0-80	774.92	N.A.	70.70
0-90	877.86	N.A.	80.10
10-90	864.54	N.A.	78.90
20-40	187.04	N.A.	17.10
20-50	318.57	N.A.	29.10
40-70	408.41	N.A.	37.30
60-80	259.86	N.A.	23.70
70-80	123.16	N.A.	11.20
80-90	102.93	N.A.	9.40
90-110	137.29	N.A.	12.50
90-120	176.29	N.A.	16.10
90-130	200.26	N.A.	18.30
90-150	216.83	N.A.	19.80
90-180	218.25	N.A.	19.90
110-180	80.95	N.A.	7.40
0-180	1096.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.32
10-20	43.00
20-30	77.40
30-40	109.64
40-50	131.53
50-60	140.17
60-70	136.71
70-80	123.16
80-90	102.93
90-100	79.73
100-110	57.56
110-120	39.00
120-130	23.97
130-140	12.19
140-150	4.38
150-160	1.22
160-170	0.19
170-180	0.00

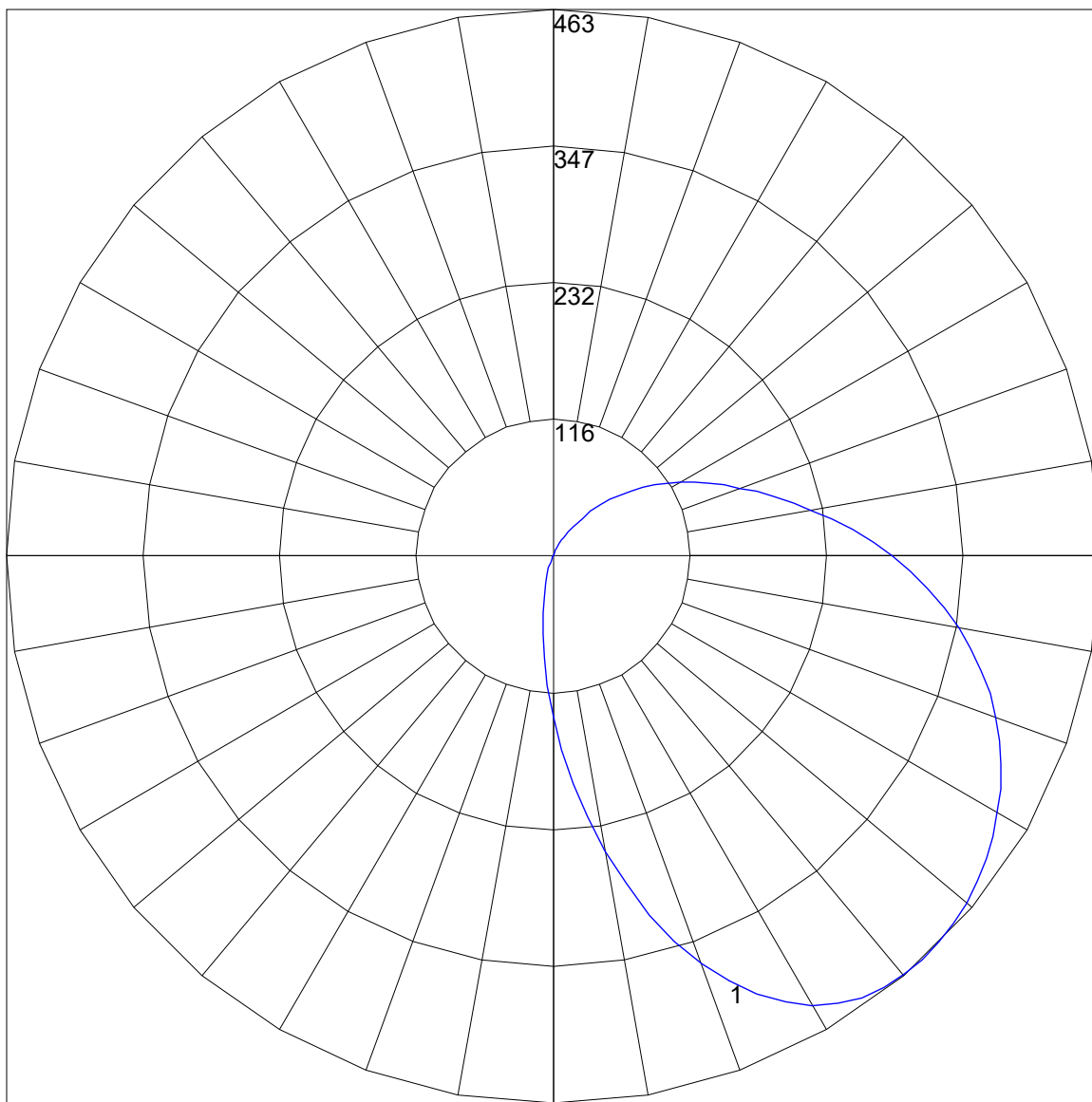
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 463.316 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)