

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-S-835-F-ITL93801.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93801.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/04/20
[ISSUEDATE]12/07/20
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE E3-P-WW-D-4ft-B-835-F
[INPUT_ELECTRICAL]120.0 VOLTS, 7.6 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 8.5 WATTS
[ABSOLUTE LUMENS]872

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	872
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	7.6
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	8978	8862	6320
55	8185	7957	5725
65	7436	6993	4877
75	6695	6079	3784
85	5870	5217	2708

IES INDOOR REPORT
PHOTOMETRIC FILENAME : E3-P-WW-D-4FT-S-835-F-ITL93801.003.IES

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	108.130	108.130	108.130	108.130	108.130	108.130	108.130	108.130	108.130	108.130
2.5	130.657	129.428	129.428	128.199	126.561	124.103	120.417	116.731	113.045	110.587
5.0	154.003	152.774	151.955	149.088	144.992	139.258	133.114	125.332	118.369	111.816
7.5	176.939	176.939	174.482	169.977	163.423	154.822	146.221	134.343	123.694	113.454
10.0	201.924	200.695	198.238	192.504	183.493	170.796	158.508	143.354	128.609	114.683
12.5	225.680	224.041	220.765	213.802	202.743	187.179	170.796	151.955	133.114	115.502
15.0	250.255	248.207	244.111	234.690	221.174	203.562	183.493	159.737	137.620	116.321
17.5	271.962	269.915	265.000	254.350	238.786	217.898	194.551	167.519	141.306	116.731
20.0	292.851	290.803	285.069	274.010	255.170	231.823	205.201	175.301	144.992	116.731
22.5	309.644	308.415	303.500	290.394	270.324	245.340	215.440	181.445	147.859	116.731
25.0	325.618	323.979	318.245	304.729	284.659	256.808	224.451	186.769	150.317	115.912
27.5	339.134	337.086	331.352	317.426	296.128	266.638	232.233	192.094	151.955	115.093
30.0	349.783	347.735	342.001	327.666	305.139	274.830	238.377	195.780	153.184	113.864
32.5	357.155	355.108	348.964	335.038	312.511	280.973	242.473	198.238	153.593	111.816
35.0	363.299	360.842	355.108	340.363	318.245	286.298	246.159	200.286	153.184	109.768
37.5	366.166	364.118	357.975	343.639	321.112	289.165	247.797	200.286	151.545	106.901
40.0	367.805	365.757	360.023	345.278	322.341	289.984	248.207	199.466	149.497	103.215
42.5	368.624	366.166	360.023	345.687	322.341	289.984	246.978	197.419	146.630	99.528
45.0	367.805	365.757	358.794	344.458	320.293	287.936	244.520	194.551	142.535	95.433
47.5	366.166	364.118	356.746	342.001	317.426	284.250	240.015	190.046	138.439	90.518
50.0	363.709	361.661	353.879	338.315	313.740	280.154	235.510	185.131	133.114	85.603
52.5	360.023	358.384	350.193	334.219	308.825	274.830	229.775	178.987	127.790	80.278
55.0	356.336	354.288	346.097	329.714	303.500	268.276	223.222	172.844	121.236	74.954
57.5	351.831	349.783	340.772	324.389	296.947	261.313	216.259	165.471	114.683	69.629
60.0	346.097	344.458	335.038	317.836	290.394	253.941	208.477	157.689	108.130	63.895
62.5	339.953	338.724	328.485	311.282	283.021	245.749	200.286	149.907	102.395	58.161
65.0	332.990	331.761	321.522	303.500	274.830	237.148	191.684	142.125	94.613	52.836
67.5	325.618	323.979	314.149	295.718	266.638	228.956	183.083	134.343	87.651	47.102
70.0	317.426	316.197	305.958	287.117	258.037	219.946	174.072	126.151	81.097	42.187
72.5	308.825	307.596	296.947	277.287	249.026	210.935	165.881	118.779	74.954	36.862
75.0	298.995	297.766	287.527	268.276	239.196	201.105	156.870	111.816	68.400	32.357
77.5	288.755	287.527	277.287	258.037	228.547	191.275	148.269	104.443	62.666	27.852
80.0	277.697	276.877	266.638	247.388	218.717	181.854	140.077	97.071	56.932	23.346
82.5	266.638	265.000	255.579	236.329	208.068	172.434	131.476	89.698	51.607	19.660
85.0	253.531	252.712	243.701	225.270	197.419	163.014	123.284	83.555	46.692	16.383
87.5	241.244	240.425	231.823	213.802	187.179	154.003	115.912	77.411	41.777	13.107
90.0	228.956	227.318	219.126	202.743	176.530	144.992	108.539	71.267	37.682	10.240
92.5	216.259	214.621	206.839	190.046	165.881	135.162	101.167	65.533	33.586	7.782
95.0	202.334	201.514	193.732	178.168	155.232	126.561	93.794	60.618	29.899	5.325
97.5	189.636	189.227	181.035	167.109	144.992	118.369	86.831	55.294	26.213	3.277
100.0	177.349	176.530	169.567	155.641	135.572	110.178	80.688	50.788	23.346	2.048
102.5	165.881	164.652	157.689	145.402	125.742	101.986	74.544	46.283	20.070	1.229
105.0	154.003	153.593	147.040	135.162	117.140	94.613	68.400	41.777	17.202	1.229
107.5	143.763	143.354	136.800	125.332	108.539	87.651	62.666	37.682	14.335	0.819
110.0	133.933	133.524	127.380	116.731	100.757	80.688	57.341	33.586	11.059	0.819
112.5	124.923	124.103	118.779	108.539	92.975	73.725	52.426	29.899	8.601	0.819
115.0	116.321	115.093	109.768	100.348	86.012	67.581	47.512	25.804	6.963	0.410
117.5	107.310	106.491	101.576	92.566	78.640	61.847	42.597	22.117	5.734	0.410
120.0	99.119	98.709	93.794	85.193	71.677	56.113	37.682	18.022	4.915	0.410
122.5	91.337	90.518	86.422	77.821	65.533	49.969	33.176	14.335	4.096	0.000
125.0	83.555	82.736	78.640	70.858	59.389	44.644	28.261	11.878	3.686	0.000
127.5	75.773	75.363	71.267	63.895	52.836	39.320	23.346	9.830	3.277	0.000
130.0	68.400	67.991	64.304	56.932	46.692	33.586	17.612	8.192	2.867	0.000
132.5	61.028	61.028	57.341	50.379	40.549	27.442	14.335	6.553	2.457	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : E3-P-WW-D-4FT-S-835-F-ITL93801.003.IES

CANDELA TABULATION - (Cont.)

135.0	54.065	53.246	49.969	43.825	34.405	20.889	11.878	5.734	1.638	0.000
137.5	47.102	46.283	43.416	37.272	27.032	16.383	9.830	4.915	1.229	0.000
140.0	39.320	39.320	36.043	30.309	20.070	13.516	7.782	4.096	0.819	0.000
142.5	31.947	31.538	28.671	22.937	15.974	11.059	6.553	3.686	0.410	0.000
145.0	24.165	23.756	21.298	17.202	12.697	8.601	5.734	2.867	0.410	0.000
147.5	18.841	18.431	17.202	13.516	10.240	6.963	4.505	2.048	0.410	0.000
150.0	14.745	14.745	13.516	10.649	7.782	6.144	3.686	1.229	0.410	0.000
152.5	11.878	11.878	10.649	8.192	6.553	4.915	3.277	0.819	0.410	0.000
155.0	9.011	9.011	7.782	6.553	4.915	3.686	2.048	0.410	0.000	0.000
157.5	7.372	7.372	6.144	4.915	4.096	2.867	1.229	0.410	0.000	0.000
160.0	5.325	5.325	4.505	3.686	3.277	1.638	0.410	0.410	0.000	0.000
162.5	4.096	4.096	3.277	2.867	2.048	0.819	0.410	0.410	0.000	0.000
165.0	2.867	2.457	1.638	1.229	0.819	0.410	0.410	0.410	0.000	0.000
167.5	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.410	0.000	0.000
170.0	0.410	0.410	0.000	0.000	0.000	0.000	0.410	0.410	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.410	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	108.130	108.130	108.130	108.130	108.130	108.130
2.5	108.539	106.491	99.119	93.794	89.698	87.241
5.0	108.539	104.443	91.746	80.278	72.496	69.219
7.5	107.720	102.395	83.964	67.581	56.522	52.836
10.0	107.310	99.938	77.001	55.294	42.597	38.910
12.5	106.491	97.890	70.039	44.235	31.128	27.852
15.0	105.672	95.433	62.666	35.224	22.937	19.250
17.5	104.443	92.566	56.113	27.852	16.383	13.107
20.0	103.215	89.698	49.969	21.298	11.059	8.601
22.5	101.167	86.831	43.825	15.974	6.963	4.915
25.0	99.528	83.964	38.091	11.878	3.686	1.638
27.5	97.071	80.688	33.176	8.192	0.819	0.819
30.0	94.613	77.411	28.261	4.915	0.819	0.410
32.5	91.746	73.725	23.756	2.457	0.410	0.410
35.0	88.879	70.448	19.660	0.819	0.410	0.410
37.5	85.603	66.352	15.974	0.410	0.000	0.000
40.0	81.916	62.256	12.697	0.410	0.000	0.000
42.5	77.821	58.161	9.420	0.000	0.000	0.000
45.0	73.315	53.655	6.553	0.000	0.000	0.000
47.5	69.219	49.150	3.686	0.000	0.000	0.000
50.0	64.304	44.644	1.638	0.000	0.000	0.000
52.5	59.389	40.139	0.410	0.000	0.000	0.000
55.0	54.474	35.634	0.000	0.000	0.000	0.000
57.5	49.559	31.128	0.000	0.000	0.000	0.000
60.0	44.235	26.623	0.000	0.000	0.000	0.000
62.5	39.320	22.527	0.000	0.000	0.000	0.000
65.0	34.814	18.431	0.000	0.000	0.000	0.000
67.5	29.899	14.745	0.000	0.000	0.000	0.000
70.0	25.394	11.059	0.000	0.000	0.000	0.000
72.5	21.298	7.372	0.000	0.000	0.000	0.000
75.0	17.202	4.505	0.000	0.000	0.000	0.000
77.5	13.516	2.048	0.000	0.000	0.000	0.000
80.0	10.649	0.819	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : E3-P-WW-D-4FT-S-835-F-ITL93801.003.IES

CANDELA TABULATION - (Cont.)

82.5	7.372	0.000	0.000	0.000	0.000	0.000
85.0	4.915	0.000	0.000	0.000	0.000	0.000
87.5	2.048	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : E3-P-WW-D-4FT-S-835-F-ITL93801.003.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	44.81	N.A.	5.10
0-30	106.39	N.A.	12.20
0-40	193.62	N.A.	22.20
0-60	409.79	N.A.	47.00
0-80	616.55	N.A.	70.70
0-90	698.44	N.A.	80.10
10-90	687.84	N.A.	78.90
20-40	148.81	N.A.	17.10
20-50	253.46	N.A.	29.10
40-70	324.94	N.A.	37.30
60-80	206.75	N.A.	23.70
70-80	97.99	N.A.	11.20
80-90	81.90	N.A.	9.40
90-110	109.23	N.A.	12.50
90-120	140.26	N.A.	16.10
90-130	159.33	N.A.	18.30
90-150	172.51	N.A.	19.80
90-180	173.64	N.A.	19.90
110-180	64.41	N.A.	7.40
0-180	872.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.60
10-20	34.21
20-30	61.58
30-40	87.23
40-50	104.65
50-60	111.52
60-70	108.77
70-80	97.99
80-90	81.90
90-100	63.43
100-110	45.80
110-120	31.03
120-130	19.07
130-140	9.70
140-150	3.48
150-160	0.97
160-170	0.15
170-180	0.00

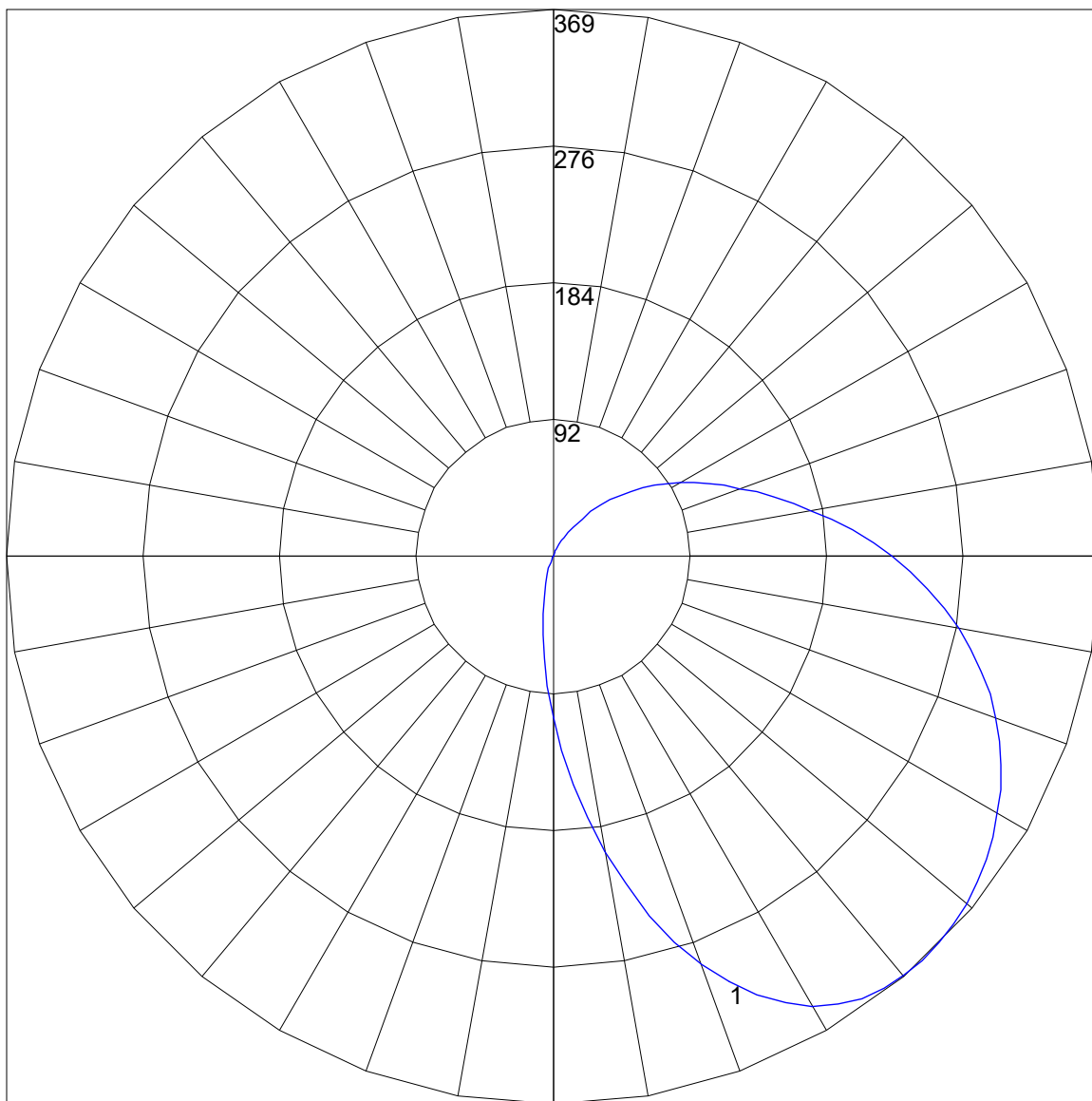
IES INDOOR REPORT
PHOTOMETRIC FILENAME : E3-P-WW-D-4FT-S-835-F-ITL93801.003.IES

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 = 368.624 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)