

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 : HP-2-ID-4FT-S-B-835-F-DAO-ITL85132-KPL2008-3.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.015 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-S-B-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.3 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.6 WATTS

[OTHER]see www.finelite.com for source files ITL85132 and KPL2008-3. 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

[ABSOLUTE LUMENS]3487

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3486
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	32.3
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)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11958	12439	8999
55	10149	11294	8027
65	8379	9837	7097
75	6990	8309	5956
85	6975	8279	4954

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898
2.5	756.815	752.805	749.120	748.070	735.666	724.281	708.325	700.522	701.166	700.522
5.0	785.231	778.669	767.474	756.120	731.898	710.482	686.960	675.122	672.641	675.122
7.5	809.237	800.683	783.512	762.199	726.190	693.527	665.806	646.299	649.176	646.299
10.0	829.151	820.082	795.515	765.781	717.852	676.275	645.249	629.612	628.402	629.612
12.5	848.524	836.310	804.929	766.399	707.301	657.359	625.170	607.387	606.656	607.387
15.0	859.503	847.639	811.929	764.216	694.814	639.463	604.345	582.496	584.807	582.496
17.5	863.703	851.808	815.213	758.699	679.260	618.875	584.056	565.944	565.110	565.944
20.0	859.935	849.548	813.272	750.469	664.298	598.776	563.766	547.270	545.196	547.270
22.5	850.140	840.937	808.969	738.682	645.568	577.113	543.745	528.190	526.898	528.190
25.0	833.135	826.999	794.975	725.470	625.494	555.608	522.374	509.033	508.812	509.033
27.5	814.832	807.219	780.388	708.783	602.621	533.492	502.409	490.169	490.514	490.169
30.0	787.923	783.404	759.507	688.952	579.696	510.294	482.279	470.580	472.217	470.580
32.5	758.215	756.388	737.493	667.046	553.699	487.019	461.882	451.603	453.595	451.603
35.0	722.479	724.878	711.068	642.881	528.515	462.664	440.408	432.446	433.573	432.446
37.5	685.344	689.487	681.684	614.356	502.193	437.989	418.611	412.640	414.416	412.640
40.0	645.300	652.408	650.627	586.099	476.736	413.850	397.137	392.670	395.037	392.670
42.5	600.521	612.421	615.056	555.181	447.352	389.633	375.499	373.245	374.156	373.245
45.0	556.931	571.271	579.372	523.156	419.151	364.495	352.899	351.957	338.853	351.957
47.5	515.596	527.866	544.764	490.087	390.194	340.170	330.077	330.993	335.188	330.993
50.0	468.665	484.544	504.133	454.079	360.969	314.929	308.280	309.762	313.231	309.762
52.5	425.286	442.158	465.541	419.501	332.769	290.950	285.031	287.614	292.242	287.614
55.0	383.415	400.097	426.686	384.975	303.277	266.465	261.890	266.517	269.425	266.517
57.5	340.788	358.576	385.407	350.531	275.828	242.110	238.584	243.726	247.571	243.726
60.0	302.793	320.071	347.299	315.496	249.779	213.117	212.041	220.045	225.506	220.045
62.5	264.684	282.689	308.980	282.287	218.382	195.396	194.526	200.630	202.555	200.630
65.0	233.257	247.221	273.836	249.645	197.552	172.275	172.286	178.261	179.867	178.261
67.5	201.932	214.934	238.744	218.295	172.713	150.076	149.726	155.213	155.671	155.213
70.0	172.764	183.717	205.376	188.643	147.070	128.119	128.284	132.700	135.819	132.700
72.5	144.023	153.952	171.472	158.878	123.955	107.315	107.454	110.341	111.958	110.341
75.0	119.158	127.043	141.656	132.021	101.535	87.041	86.820	84.246	90.073	84.246
77.5	95.045	102.230	113.399	106.697	81.590	67.858	66.860	67.889	67.611	67.889
80.0	74.487	79.789	87.782	82.563	61.954	49.844	47.908	47.388	47.553	47.388
82.5	55.649	59.016	64.909	61.357	44.980	33.039	31.361	26.800	28.710	26.800
85.0	40.044	41.392	47.527	45.242	28.437	18.503	15.390	12.569	10.484	12.569
87.5	24.036	25.261	26.687	23.589	13.413	5.049	2.702	0.968	0.659	0.968
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	12.282	12.282	12.282	13.510	13.510	13.510	12.282	12.282	12.282	12.282
95.0	29.067	27.839	27.839	28.248	28.657	28.248	27.839	27.839	29.067	27.839
97.5	45.852	44.624	43.805	44.214	44.214	44.214	43.805	44.624	45.852	44.624
100.0	63.046	60.999	60.999	60.999	60.590	60.999	60.999	60.999	63.046	60.999
102.5	81.059	79.422	78.603	78.193	78.193	78.193	78.603	79.422	81.059	79.422
105.0	99.891	98.663	96.616	96.207	95.797	96.207	96.616	98.663	99.891	98.663
107.5	119.132	117.904	115.448	115.039	114.629	115.039	115.448	117.904	119.132	117.904
110.0	139.193	137.964	135.917	135.099	133.871	135.099	135.917	137.964	139.193	137.964
112.5	160.071	158.025	156.796	154.749	153.521	154.749	156.796	158.025	160.071	158.025
115.0	180.950	179.722	178.903	174.810	173.991	174.810	178.903	179.722	180.950	179.722
117.5	203.057	201.010	201.010	196.098	195.279	196.098	201.010	201.010	203.057	201.010
120.0	225.574	222.299	223.118	218.205	216.567	218.205	223.118	222.299	225.574	222.299
122.5	246.862	243.587	245.225	241.131	238.265	241.131	245.225	243.587	246.862	243.587
125.0	270.607	265.694	267.332	263.238	261.191	263.238	267.332	265.694	270.607	265.694
127.5	293.942	288.620	289.439	286.164	285.345	286.164	289.439	288.620	293.942	288.620
130.0	316.868	311.546	312.365	308.271	308.680	308.271	312.365	311.546	316.868	311.546
132.5	339.794	334.062	335.290	331.197	331.197	331.197	335.290	334.062	339.794	334.062

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	361.901	356.579	358.216	354.532	354.532	354.532	358.216	356.579	361.901	356.579
137.5	384.417	379.095	380.733	377.458	377.048	377.458	380.733	379.095	384.417	379.095
140.0	406.934	401.612	402.840	400.793	399.565	400.793	402.840	401.612	406.934	401.612
142.5	428.222	422.490	424.128	422.081	420.444	422.081	424.128	422.490	428.222	422.490
145.0	449.920	443.779	445.416	443.779	440.913	443.779	445.416	443.779	449.920	443.779
147.5	469.980	463.839	465.886	463.429	460.564	463.429	465.886	463.839	469.980	463.839
150.0	489.221	483.080	485.537	482.671	480.214	482.671	485.537	483.080	489.221	483.080
152.5	507.644	501.503	503.959	501.503	499.046	501.503	503.959	501.503	507.644	501.503
155.0	525.247	519.107	521.972	519.516	517.060	519.516	521.972	519.107	525.247	519.107
157.5	540.395	534.663	537.938	535.482	533.026	535.482	537.938	534.663	540.395	534.663
160.0	555.133	549.811	552.677	550.220	547.764	550.220	552.677	549.811	555.133	549.811
162.5	567.824	563.321	565.368	563.730	562.092	563.730	565.368	563.321	567.824	563.321
165.0	579.287	575.193	576.421	575.602	574.374	575.602	576.421	575.193	579.287	575.193
167.5	587.884	585.428	586.246	585.428	585.018	585.428	586.246	585.428	587.884	585.428
170.0	595.662	594.434	594.844	594.025	593.615	594.025	594.844	594.434	595.662	594.434
172.5	602.213	601.803	601.803	601.394	601.394	601.394	601.803	601.803	602.213	601.803
175.0	606.716	606.716	606.716	606.716	606.307	606.716	606.716	606.716	606.716	606.716
177.5	609.172	609.582	609.582	609.582	609.172	609.582	609.582	609.582	609.172	609.582
180.0	610.810	610.810	610.810	610.810	610.810	610.810	610.810	610.810	610.810	610.810

Vert. Angles

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	731.898	731.898	731.898	731.898	731.898	731.898	731.898
2.5	708.325	724.281	735.666	748.070	749.120	752.805	756.815
5.0	686.960	710.482	731.898	756.120	767.474	778.669	785.231
7.5	665.806	693.527	726.190	762.199	783.512	800.683	809.237
10.0	645.249	676.275	717.852	765.781	795.515	820.082	829.151
12.5	625.170	657.359	707.301	766.399	804.929	836.310	848.524
15.0	604.345	639.463	694.814	764.216	811.929	847.639	859.503
17.5	584.056	618.875	679.260	758.699	815.213	851.808	863.703
20.0	563.766	598.776	664.298	750.469	813.272	849.548	859.935
22.5	543.745	577.113	645.568	738.682	808.969	840.937	850.140
25.0	522.374	555.608	625.494	725.470	794.975	826.999	833.135
27.5	502.409	533.492	602.621	708.783	780.388	807.219	814.832
30.0	482.279	510.294	579.696	688.952	759.507	783.404	787.923
32.5	461.882	487.019	553.699	667.046	737.493	756.388	758.215
35.0	440.408	462.664	528.515	642.881	711.068	724.878	722.479
37.5	418.611	437.989	502.193	614.356	681.684	689.487	685.344
40.0	397.137	413.850	476.736	586.099	650.627	652.408	645.300
42.5	375.499	389.633	447.352	555.181	615.056	612.421	600.521
45.0	352.899	364.495	419.151	523.156	579.372	571.271	556.931
47.5	330.077	340.170	390.194	490.087	544.764	527.866	515.596
50.0	308.280	314.929	360.969	454.079	504.133	484.544	468.665
52.5	285.031	290.950	332.769	419.501	465.541	442.158	425.286
55.0	261.890	266.465	303.277	384.975	426.686	400.097	383.415
57.5	238.584	242.110	275.828	350.531	385.407	358.576	340.788
60.0	212.041	213.117	249.779	315.496	347.299	320.071	302.793
62.5	194.526	195.396	218.382	282.287	308.980	282.689	264.684
65.0	172.286	172.275	197.552	249.645	273.836	247.221	233.257
67.5	149.726	150.076	172.713	218.295	238.744	214.934	201.932
70.0	128.284	128.119	147.070	188.643	205.376	183.717	172.764
72.5	107.454	107.315	123.955	158.878	171.472	153.952	144.023
75.0	86.820	87.041	101.535	132.021	141.656	127.043	119.158
77.5	66.860	67.858	81.590	106.697	113.399	102.230	95.045
80.0	47.908	49.844	61.954	82.563	87.782	79.789	74.487

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-F-DAO-ITL85132-KPL2008-3.015.IES****CANDELA TABULATION - (Cont.)**

82.5	31.361	33.039	44.980	61.357	64.909	59.016	55.649
85.0	15.390	18.503	28.437	45.242	47.527	41.392	40.044
87.5	2.702	5.049	13.413	23.589	26.687	25.261	24.036
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	12.282	13.510	13.510	13.510	12.282	12.282	12.282
95.0	27.839	28.248	28.657	28.248	27.839	27.839	29.067
97.5	43.805	44.214	44.214	44.214	43.805	44.624	45.852
100.0	60.999	60.999	60.590	60.999	60.999	60.999	63.046
102.5	78.603	78.193	78.193	78.193	78.603	79.422	81.059
105.0	96.616	96.207	95.797	96.207	96.616	98.663	99.891
107.5	115.448	115.039	114.629	115.039	115.448	117.904	119.132
110.0	135.917	135.099	133.871	135.099	135.917	137.964	139.193
112.5	156.796	154.749	153.521	154.749	156.796	158.025	160.071
115.0	178.903	174.810	173.991	174.810	178.903	179.722	180.950
117.5	201.010	196.098	195.279	196.098	201.010	201.010	203.057
120.0	223.118	218.205	216.567	218.205	223.118	222.299	225.574
122.5	245.225	241.131	238.265	241.131	245.225	243.587	246.862
125.0	267.332	263.238	261.191	263.238	267.332	265.694	270.607
127.5	289.439	286.164	285.345	286.164	289.439	288.620	293.942
130.0	312.365	308.271	308.680	308.271	312.365	311.546	316.868
132.5	335.290	331.197	331.197	331.197	335.290	334.062	339.794
135.0	358.216	354.532	354.532	354.532	358.216	356.579	361.901
137.5	380.733	377.458	377.048	377.458	380.733	379.095	384.417
140.0	402.840	400.793	399.565	400.793	402.840	401.612	406.934
142.5	424.128	422.081	420.444	422.081	424.128	422.490	428.222
145.0	445.416	443.779	440.913	443.779	445.416	443.779	449.920
147.5	465.886	463.429	460.564	463.429	465.886	463.839	469.980
150.0	485.537	482.671	480.214	482.671	485.537	483.080	489.221
152.5	503.959	501.503	499.046	501.503	503.959	501.503	507.644
155.0	521.972	519.516	517.060	519.516	521.972	519.107	525.247
157.5	537.938	535.482	533.026	535.482	537.938	534.663	540.395
160.0	552.677	550.220	547.764	550.220	552.677	549.811	555.133
162.5	565.368	563.730	562.092	563.730	565.368	563.321	567.824
165.0	576.421	575.602	574.374	575.602	576.421	575.193	579.287
167.5	586.246	585.428	585.018	585.428	586.246	585.428	587.884
170.0	594.844	594.025	593.615	594.025	594.844	594.434	595.662
172.5	601.803	601.394	601.394	601.394	601.803	601.803	602.213
175.0	606.716	606.716	606.307	606.716	606.716	606.716	606.716
177.5	609.582	609.582	609.172	609.582	609.582	609.582	609.172
180.0	610.810	610.810	610.810	610.810	610.810	610.810	610.810

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-F-DAO-ITL85132-KPL2008-3.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	269.26	N.A.	7.70
0-30	570.25	N.A.	16.40
0-40	923.26	N.A.	26.50
0-60	1566.32	N.A.	44.90
0-80	1892.08	N.A.	54.30
0-90	1924.97	N.A.	55.20
10-90	1855.59	N.A.	53.20
20-40	654.01	N.A.	18.80
20-50	1002.55	N.A.	28.80
40-70	853.23	N.A.	24.50
60-80	325.76	N.A.	9.30
70-80	115.59	N.A.	3.30
80-90	32.89	N.A.	0.90
90-110	134.78	N.A.	3.90
90-120	311.03	N.A.	8.90
90-130	548.75	N.A.	15.70
90-150	1101.93	N.A.	31.60
90-180	1561.15	N.A.	44.80
110-180	1426.38	N.A.	40.90
0-180	3486.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.38
10-20	199.88
20-30	301.00
30-40	353.01
40-50	348.55
50-60	294.51
60-70	210.17
70-80	115.59
80-90	32.89
90-100	31.55
100-110	103.23
110-120	176.25
120-130	237.72
130-140	275.34
140-150	277.84
150-160	239.40
160-170	162.30
170-180	57.52

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-F-DAO-ITL85132-KPL2008-3.015.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

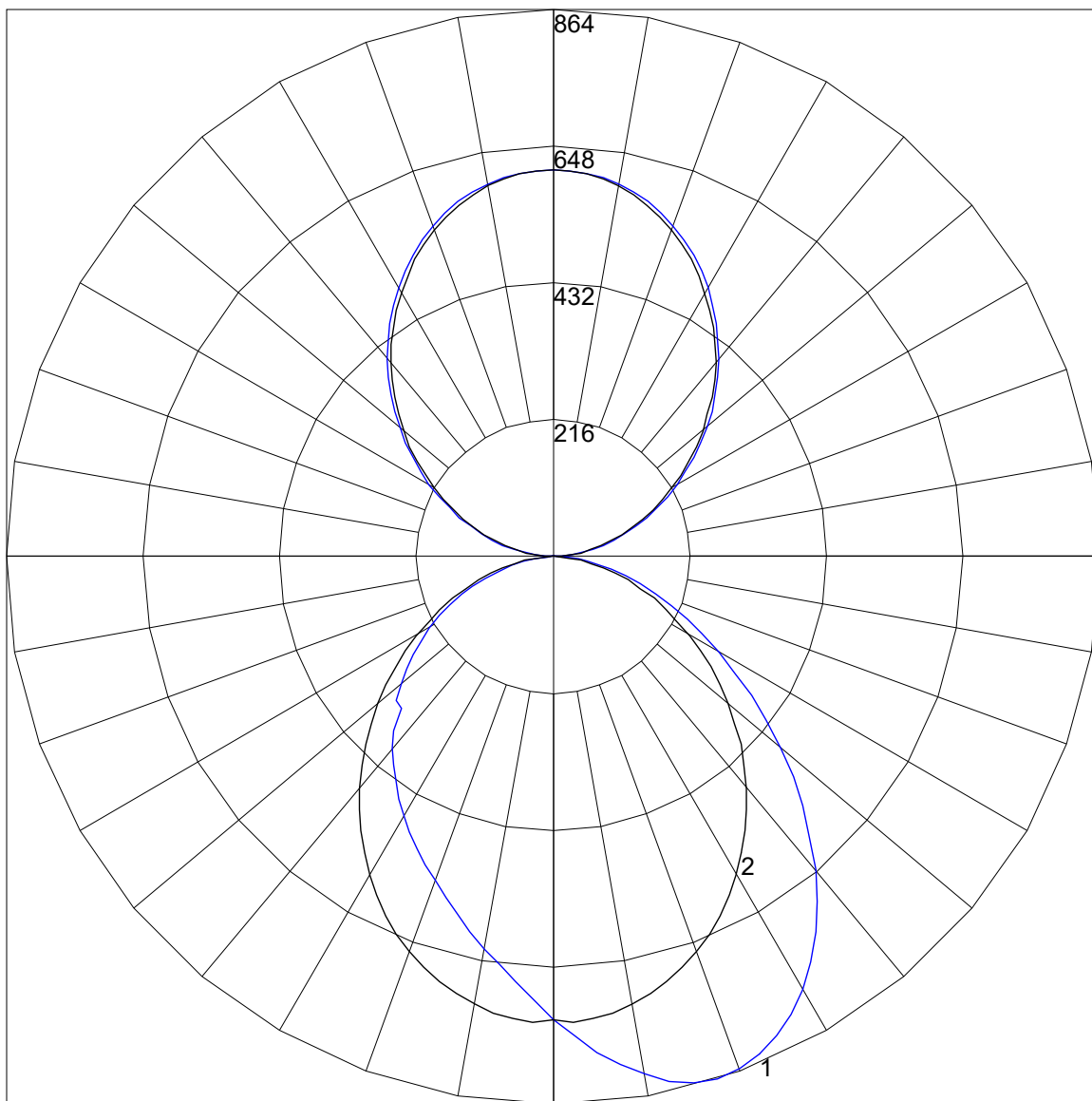
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	67	67	62	59	57	54	51	48	45	44	39
3	82	73	66	60	76	68	61	56	59	54	50	50	46	43	42	40	37	33
4	75	65	57	51	70	60	53	48	52	47	42	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	31	27	25	22
7	59	47	39	33	55	44	37	31	38	32	28	33	29	25	28	25	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	36	30	25	32	26	23	28	23	20	24	20	18	16
10	48	36	28	23	44	34	27	22	30	24	20	26	21	18	22	19	16	14

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-F-DAO-ITL85132-KPL2008-3.015.IES

POLAR GRAPH



Maximum Candela = 863.703 Located At Horizontal Angle = 0, Vertical Angle = 17.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)