

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-B-B-8TW-F-DAO-ITL85132-KPL2008-3.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 39.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 42.1 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]3887

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3887
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	39.8
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

IES INDOOR REPORT

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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	701.165	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	646.298	649.176	646.298
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	565.943	565.110	565.943
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	577.112	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	528.514	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	447.351	389.633	375.499	373.245	374.156	373.245
45.0	556.931	571.271	579.372	523.157	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	314.930	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	292.241	287.614
55.0	383.416	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	220.044	225.506	220.044
62.5	264.685	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	111.957	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	95.044	102.230	113.399	106.697	81.590	67.858	66.859	67.889	67.611	67.889
80.0	74.487	79.789	87.782	82.563	61.954	49.843	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	15.389	12.569	10.484	12.569
87.5	24.037	25.262	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	15.436	15.436	15.436	16.980	16.980	16.980	15.436	15.436	15.436	15.436
95.0	36.532	34.989	34.989	35.503	36.018	35.503	34.989	34.989	36.532	34.989
97.5	57.629	56.085	55.056	55.570	55.570	55.570	55.056	56.085	57.629	56.085
100.0	79.239	76.666	76.666	76.666	76.152	76.666	76.666	76.666	79.239	76.666
102.5	101.879	99.821	98.792	98.277	98.277	98.277	98.792	99.821	101.879	99.821
105.0	125.548	124.004	121.431	120.917	120.402	120.917	121.431	124.004	125.548	124.004
107.5	149.731	148.188	145.100	144.586	144.071	144.586	145.100	148.188	149.731	148.188
110.0	174.944	173.400	170.827	169.798	168.255	169.798	170.827	173.400	174.944	173.400
112.5	201.185	198.612	197.069	194.496	192.952	194.496	197.069	198.612	201.185	198.612
115.0	227.427	225.883	224.854	219.709	218.679	219.709	224.854	225.883	227.427	225.883
117.5	255.212	252.639	252.639	246.465	245.436	246.465	252.639	252.639	255.212	252.639
120.0	283.512	279.395	280.424	274.250	272.192	274.250	280.424	279.395	283.512	279.395
122.5	310.268	306.151	308.209	303.064	299.462	303.064	308.209	306.151	310.268	306.151
125.0	340.111	333.937	335.995	330.849	328.276	330.849	335.995	333.937	340.111	333.937
127.5	369.440	362.751	363.780	359.663	358.634	359.663	363.780	362.751	369.440	362.751
130.0	398.254	391.565	392.594	387.449	387.963	387.449	392.594	391.565	398.254	391.565
132.5	427.068	419.865	421.408	416.263	416.263	416.263	421.408	419.865	427.068	419.865

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	454.853	448.164	450.223	445.592	445.592	445.592	450.223	448.164	454.853	448.164
137.5	483.153	476.464	478.522	474.406	473.891	474.406	478.522	476.464	483.153	476.464
140.0	511.453	504.764	506.307	503.735	502.191	503.735	506.307	504.764	511.453	504.764
142.5	538.209	531.005	533.063	530.491	528.433	530.491	533.063	531.005	538.209	531.005
145.0	565.479	557.761	559.819	557.761	554.160	557.761	559.819	557.761	565.479	557.761
147.5	590.692	582.974	585.547	582.459	578.857	582.459	585.547	582.974	590.692	582.974
150.0	614.875	607.157	610.244	606.643	603.555	606.643	610.244	607.157	614.875	607.157
152.5	638.030	630.312	633.399	630.312	627.224	630.312	633.399	630.312	638.030	630.312
155.0	660.155	652.437	656.038	652.951	649.864	652.951	656.038	652.437	660.155	652.437
157.5	679.193	671.989	676.106	673.018	669.931	673.018	676.106	671.989	679.193	671.989
160.0	697.716	691.027	694.629	691.542	688.455	691.542	694.629	691.027	697.716	691.027
162.5	713.667	708.007	710.580	708.522	706.463	708.522	710.580	708.007	713.667	708.007
165.0	728.074	722.929	724.472	723.443	721.900	723.443	724.472	722.929	728.074	722.929
167.5	738.880	735.792	736.821	735.792	735.278	735.792	736.821	735.792	738.880	735.792
170.0	748.656	747.112	747.627	746.597	746.083	746.597	747.627	747.112	748.656	747.112
172.5	756.888	756.374	756.374	755.859	755.859	755.859	756.374	756.374	756.888	756.374
175.0	762.548	762.548	762.548	762.548	762.034	762.548	762.548	762.548	762.548	762.548
177.5	765.635	766.150	766.150	766.150	765.635	766.150	766.150	766.150	765.635	766.150
180.0	767.694	767.694	767.694	767.694	767.694	767.694	767.694	767.694	767.694	767.694

**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	577.112	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	528.514	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	447.351	555.181	615.056	612.421	600.521
45.0	352.899	364.495	419.151	523.157	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	314.930	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	383.416
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	264.685
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	66.859	67.858	81.590	106.697	113.399	102.230	95.044
80.0	47.908	49.843	61.954	82.563	87.782	79.789	74.487

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-F-DAO-ITL85132-KPL2008-3.902.IES****CANDELA TABULATION - (Cont.)**

82.5	31.361	33.039	44.980	61.357	64.909	59.016	55.649
85.0	15.389	18.503	28.437	45.242	47.527	41.392	40.044
87.5	2.702	5.049	13.413	23.589	26.687	25.262	24.037
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	15.436	16.980	16.980	16.980	15.436	15.436	15.436
95.0	34.989	35.503	36.018	35.503	34.989	34.989	36.532
97.5	55.056	55.570	55.570	55.570	55.056	56.085	57.629
100.0	76.666	76.666	76.152	76.666	76.666	76.666	79.239
102.5	98.792	98.277	98.277	98.277	98.792	99.821	101.879
105.0	121.431	120.917	120.402	120.917	121.431	124.004	125.548
107.5	145.100	144.586	144.071	144.586	145.100	148.188	149.731
110.0	170.827	169.798	168.255	169.798	170.827	173.400	174.944
112.5	197.069	194.496	192.952	194.496	197.069	198.612	201.185
115.0	224.854	219.709	218.679	219.709	224.854	225.883	227.427
117.5	252.639	246.465	245.436	246.465	252.639	252.639	255.212
120.0	280.424	274.250	272.192	274.250	280.424	279.395	283.512
122.5	308.209	303.064	299.462	303.064	308.209	306.151	310.268
125.0	335.995	330.849	328.276	330.849	335.995	333.937	340.111
127.5	363.780	359.663	358.634	359.663	363.780	362.751	369.440
130.0	392.594	387.449	387.963	387.449	392.594	391.565	398.254
132.5	421.408	416.263	416.263	416.263	421.408	419.865	427.068
135.0	450.223	445.592	445.592	445.592	450.223	448.164	454.853
137.5	478.522	474.406	473.891	474.406	478.522	476.464	483.153
140.0	506.307	503.735	502.191	503.735	506.307	504.764	511.453
142.5	533.063	530.491	528.433	530.491	533.063	531.005	538.209
145.0	559.819	557.761	554.160	557.761	559.819	557.761	565.479
147.5	585.547	582.459	578.857	582.459	585.547	582.974	590.692
150.0	610.244	606.643	603.555	606.643	610.244	607.157	614.875
152.5	633.399	630.312	627.224	630.312	633.399	630.312	638.030
155.0	656.038	652.951	649.864	652.951	656.038	652.437	660.155
157.5	676.106	673.018	669.931	673.018	676.106	671.989	679.193
160.0	694.629	691.542	688.455	691.542	694.629	691.027	697.716
162.5	710.580	708.522	706.463	708.522	710.580	708.007	713.667
165.0	724.472	723.443	721.900	723.443	724.472	722.929	728.074
167.5	736.821	735.792	735.278	735.792	736.821	735.792	738.880
170.0	747.627	746.597	746.083	746.597	747.627	747.112	748.656
172.5	756.374	755.859	755.859	755.859	756.374	756.374	756.888
175.0	762.548	762.548	762.034	762.548	762.548	762.548	762.548
177.5	766.150	766.150	765.635	766.150	766.150	766.150	765.635
180.0	767.694	767.694	767.694	767.694	767.694	767.694	767.694

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-F-DAO-ITL85132-KPL2008-3.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	269.26	N.A.	6.90
0-30	570.25	N.A.	14.70
0-40	923.26	N.A.	23.80
0-60	1566.32	N.A.	40.30
0-80	1892.08	N.A.	48.70
0-90	1924.97	N.A.	49.50
10-90	1855.59	N.A.	47.70
20-40	654.01	N.A.	16.80
20-50	1002.55	N.A.	25.80
40-70	853.23	N.A.	22.00
60-80	325.76	N.A.	8.40
70-80	115.59	N.A.	3.00
80-90	32.89	N.A.	0.80
90-110	169.39	N.A.	4.40
90-120	390.91	N.A.	10.10
90-130	689.69	N.A.	17.70
90-150	1384.95	N.A.	35.60
90-180	1962.13	N.A.	50.50
110-180	1792.74	N.A.	46.10
0-180	3887.1	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	39.65
100-110	129.74
110-120	221.52
120-130	298.78
130-140	346.06
140-150	349.20
150-160	300.89
160-170	203.98
170-180	72.30

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-F-DAO-ITL85132-KPL2008-3.902.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

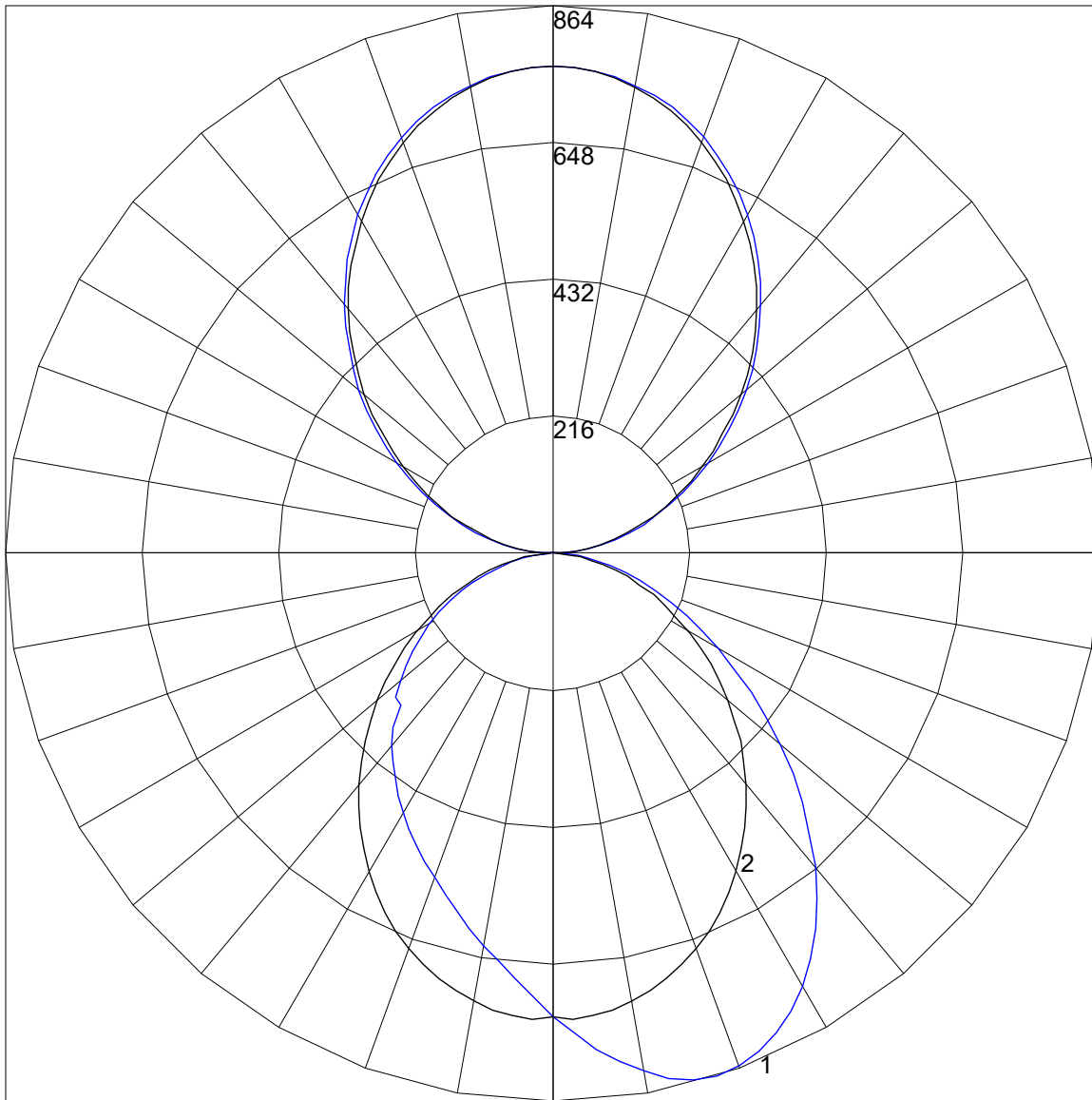
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-F-DAO-ITL85132-KPL2008-3.902.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)