

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-S-835-F-DAO-ITL85132-KPL2008-3.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.012 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-S-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.8 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]3494

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3493
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	32.4
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	9511	9895	7158
55	8073	8984	6385
65	6665	7825	5645
75	5560	6610	4737
85	5548	6585	3940

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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	582.177	582.177	582.177	582.177	582.177	582.177	582.177	582.177	582.177	582.177
2.5	601.996	598.807	595.876	595.041	585.174	576.118	563.426	557.219	557.731	557.219
5.0	624.600	619.380	610.475	601.444	582.177	565.141	546.431	537.015	535.042	537.015
7.5	643.695	636.891	623.233	606.279	577.637	551.655	529.605	514.088	516.377	514.088
10.0	659.535	652.321	632.780	609.128	571.004	537.932	513.253	500.815	499.853	500.815
12.5	674.945	665.230	640.268	609.620	562.611	522.886	497.282	483.137	482.555	483.137
15.0	683.678	674.241	645.836	607.884	552.679	508.651	480.717	463.337	465.176	463.337
17.5	687.019	677.557	648.448	603.495	540.307	492.275	464.578	450.171	449.508	450.171
20.0	684.022	675.760	646.905	596.948	528.405	476.287	448.439	435.317	433.668	435.317
22.5	676.231	668.910	643.482	587.573	513.507	459.055	432.513	420.141	419.113	420.141
25.0	662.704	657.824	632.350	577.063	497.540	441.950	415.514	404.902	404.726	404.902
27.5	648.145	642.090	620.747	563.790	479.345	424.358	399.633	389.898	390.172	389.898
30.0	626.741	623.147	604.138	548.016	461.110	405.905	383.621	374.315	375.617	374.315
32.5	603.110	601.657	586.627	530.591	440.431	387.392	367.396	359.220	360.805	359.220
35.0	574.685	576.593	565.608	511.369	420.399	368.019	350.316	343.982	344.879	343.982
37.5	545.146	548.442	542.235	488.680	399.461	348.392	332.977	328.228	329.641	328.228
40.0	513.294	518.948	517.531	466.203	379.212	329.190	315.897	312.343	314.226	312.343
42.5	477.675	487.141	489.237	441.610	355.839	309.927	298.685	296.892	297.617	296.892
45.0	443.002	454.408	460.852	416.137	333.407	289.932	280.708	279.959	269.535	279.959
47.5	410.122	419.883	433.324	389.832	310.374	270.583	262.555	263.283	266.620	263.283
50.0	372.792	385.423	401.005	361.190	287.127	250.506	245.216	246.395	249.155	246.395
52.5	338.287	351.708	370.307	333.686	264.696	231.431	226.723	228.778	232.459	228.778
55.0	304.982	318.251	339.401	306.222	241.237	211.956	208.316	211.997	214.310	211.997
57.5	271.074	285.224	306.566	278.825	219.403	192.582	189.778	193.868	196.926	193.868
60.0	240.852	254.596	276.254	250.956	198.683	169.520	168.665	175.031	179.375	175.031
62.5	210.539	224.860	245.773	224.541	173.709	155.424	154.732	159.588	161.119	159.588
65.0	185.541	196.648	217.818	198.576	157.140	137.034	137.042	141.795	143.072	141.795
67.5	160.624	170.966	189.905	173.639	137.382	119.376	119.097	123.462	123.826	123.462
70.0	137.423	146.135	163.363	150.053	116.985	101.910	102.041	105.554	108.035	105.554
72.5	114.561	122.459	136.395	126.377	98.598	85.362	85.473	87.769	89.055	87.769
75.0	94.783	101.055	112.678	105.014	80.764	69.235	69.059	67.012	71.647	67.012
77.5	75.602	81.317	90.201	84.871	64.900	53.977	53.182	54.001	53.780	54.001
80.0	59.250	63.467	69.825	65.673	49.281	39.647	38.108	37.694	37.825	37.694
82.5	44.265	46.943	51.631	48.806	35.778	26.280	24.945	21.318	22.837	21.318
85.0	31.852	32.925	37.805	35.987	22.620	14.718	12.241	9.998	8.340	9.998
87.5	19.119	20.094	21.228	18.763	10.669	4.016	2.149	0.770	0.524	0.770
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	57.628	56.085	55.056	55.570	55.570	55.570	55.056	56.085	57.628	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	218.680	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	333.936	335.995	330.849	328.277	330.849	335.995	333.936	340.111	333.936
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

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-F-DAO-ITL85132-KPL2008-3.012.IES

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	559.820	557.761	554.160	557.761	559.820	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	656.039	652.951	649.864	652.951	656.039	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	738.879	735.792	736.821	735.792	735.278	735.792	736.821	735.792	738.879	735.792
170.0	748.656	747.112	747.627	746.598	746.083	746.598	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	582.177	582.177	582.177	582.177	582.177	582.177	582.177
2.5	563.426	576.118	585.174	595.041	595.876	598.807	601.996
5.0	546.431	565.141	582.177	601.444	610.475	619.380	624.600
7.5	529.605	551.655	577.637	606.279	623.233	636.891	643.695
10.0	513.253	537.932	571.004	609.128	632.780	652.321	659.535
12.5	497.282	522.886	562.611	609.620	640.268	665.230	674.945
15.0	480.717	508.651	552.679	607.884	645.836	674.241	683.678
17.5	464.578	492.275	540.307	603.495	648.448	677.557	687.019
20.0	448.439	476.287	528.405	596.948	646.905	675.760	684.022
22.5	432.513	459.055	513.507	587.573	643.482	668.910	676.231
25.0	415.514	441.950	497.540	577.063	632.350	657.824	662.704
27.5	399.633	424.358	479.345	563.790	620.747	642.090	648.145
30.0	383.621	405.905	461.110	548.016	604.138	623.147	626.741
32.5	367.396	387.392	440.431	530.591	586.627	601.657	603.110
35.0	350.316	368.019	420.399	511.369	565.608	576.593	574.685
37.5	332.977	348.392	399.461	488.680	542.235	548.442	545.146
40.0	315.897	329.190	379.212	466.203	517.531	518.948	513.294
42.5	298.685	309.927	355.839	441.610	489.237	487.141	477.675
45.0	280.708	289.932	333.407	416.137	460.852	454.408	443.002
47.5	262.555	270.583	310.374	389.832	433.324	419.883	410.122
50.0	245.216	250.506	287.127	361.190	401.005	385.423	372.792
52.5	226.723	231.431	264.696	333.686	370.307	351.708	338.287
55.0	208.316	211.956	241.237	306.222	339.401	318.251	304.982
57.5	189.778	192.582	219.403	278.825	306.566	285.224	271.074
60.0	168.665	169.520	198.683	250.956	276.254	254.596	240.852
62.5	154.732	155.424	173.709	224.541	245.773	224.860	210.539
65.0	137.042	137.034	157.140	198.576	217.818	196.648	185.541
67.5	119.097	119.376	137.382	173.639	189.905	170.966	160.624
70.0	102.041	101.910	116.985	150.053	163.363	146.135	137.423
72.5	85.473	85.362	98.598	126.377	136.395	122.459	114.561
75.0	69.059	69.235	80.764	105.014	112.678	101.055	94.783
77.5	53.182	53.977	64.900	84.871	90.201	81.317	75.602
80.0	38.108	39.647	49.281	65.673	69.825	63.467	59.250

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-F-DAO-ITL85132-KPL2008-3.012.IES****CANDELA TABULATION - (Cont.)**

82.5	24.945	26.280	35.778	48.806	51.631	46.943	44.265
85.0	12.241	14.718	22.620	35.987	37.805	32.925	31.852
87.5	2.149	4.016	10.669	18.763	21.228	20.094	19.119
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	57.628
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	218.680	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	328.277	330.849	335.995	333.936	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	559.820	557.761	554.160	557.761	559.820	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	656.039	652.951	649.864	652.951	656.039	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	738.879
170.0	747.627	746.598	746.083	746.598	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-S-835-F-DAO-ITL85132-KPL2008-3.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	214.18	N.A.	6.10
0-30	453.60	N.A.	13.00
0-40	734.40	N.A.	21.00
0-60	1245.91	N.A.	35.70
0-80	1505.03	N.A.	43.10
0-90	1531.19	N.A.	43.80
10-90	1476.00	N.A.	42.30
20-40	520.22	N.A.	14.90
20-50	797.46	N.A.	22.80
40-70	678.69	N.A.	19.40
60-80	259.12	N.A.	7.40
70-80	91.95	N.A.	2.60
80-90	26.16	N.A.	0.70
90-110	169.39	N.A.	4.80
90-120	390.91	N.A.	11.20
90-130	689.69	N.A.	19.70
90-150	1384.95	N.A.	39.60
90-180	1962.13	N.A.	56.20
110-180	1792.74	N.A.	51.30
0-180	3493.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.19
10-20	158.99
20-30	239.42
30-40	280.80
40-50	277.24
50-60	234.27
60-70	167.18
70-80	91.95
80-90	26.16
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-S-835-F-DAO-ITL85132-KPL2008-3.012.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

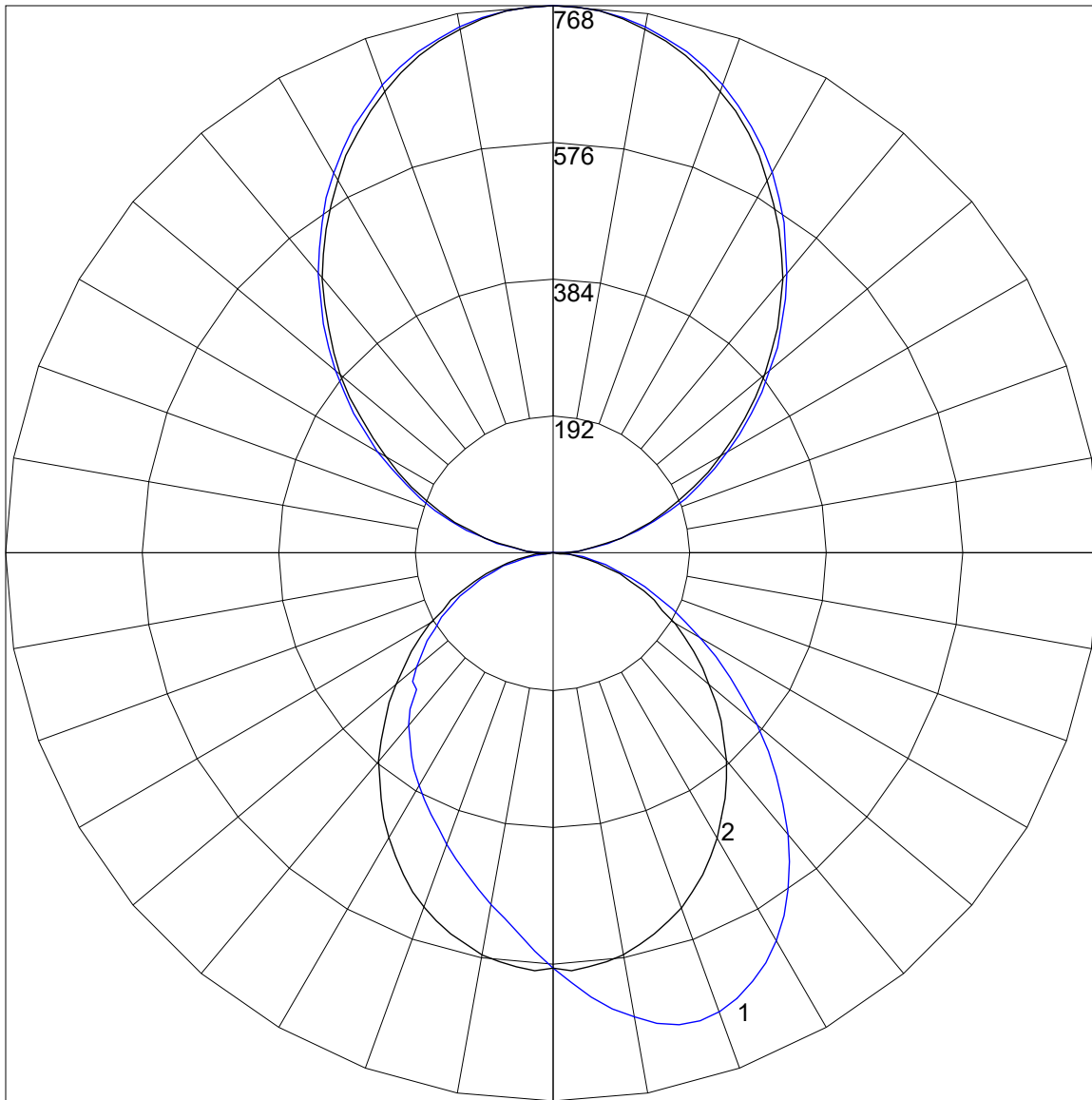
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	50	50	50	44
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	45	44	43	37
2	88	81	75	70	80	74	69	64	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-F-DAO-ITL85132-KPL2008-3.012.IES

POLAR GRAPH



Maximum Candela = 767.694 Located At Horizontal Angle = 0, Vertical Angle = 180

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

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