

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-S-835-F-DAO-ITL85132-KPL2008-3.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.003 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-S-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 31.1WATTS

[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]3093

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3093
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	28.5
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

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	636.890	623.232	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	389.897	390.172	389.897
30.0	626.741	623.147	604.138	548.016	461.110	405.906	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	511.370	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	329.640	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	309.928	298.685	296.892	297.616	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	333.685	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	271.075	285.224	306.566	278.825	219.403	192.582	189.778	193.868	196.926	193.868
60.0	240.852	254.596	276.253	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	170.965	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	85.472	87.769	89.055	87.769
75.0	94.782	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	65.674	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	12.283	12.283	12.283	13.511	13.511	13.511	12.283	12.283	12.283	12.283
95.0	29.070	27.842	27.842	28.251	28.661	28.251	27.842	27.842	29.070	27.842
97.5	45.857	44.629	43.810	44.219	44.219	44.219	43.810	44.629	45.857	44.629
100.0	63.054	61.007	61.007	61.007	60.597	61.007	61.007	61.007	63.054	61.007
102.5	81.069	79.431	78.612	78.203	78.203	78.203	78.612	79.431	81.069	79.431
105.0	99.903	98.675	96.628	96.218	95.809	96.218	96.628	98.675	99.903	98.675
107.5	119.147	117.919	115.462	115.053	114.643	115.053	115.462	117.919	119.147	117.919
110.0	139.210	137.981	135.934	135.115	133.887	135.115	135.934	137.981	139.210	137.981
112.5	160.091	158.044	156.815	154.768	153.540	154.768	156.815	158.044	160.091	158.044
115.0	180.972	179.744	178.925	174.831	174.012	174.831	178.925	179.744	180.972	179.744
117.5	203.082	201.035	201.035	196.122	195.303	196.122	201.035	201.035	203.082	201.035
120.0	225.601	222.326	223.145	218.232	216.594	218.232	223.145	222.326	225.601	222.326
122.5	246.892	243.617	245.255	241.160	238.294	241.160	245.255	243.617	246.892	243.617
125.0	270.640	265.727	267.364	263.270	261.223	263.270	267.364	265.727	270.640	265.727
127.5	293.978	288.655	289.474	286.199	285.380	286.199	289.474	288.655	293.978	288.655
130.0	316.907	311.584	312.403	308.308	308.718	308.308	312.403	311.584	316.907	311.584
132.5	339.835	334.103	335.331	331.237	331.237	331.237	335.331	334.103	339.835	334.103

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	361.945	356.622	358.260	354.575	354.575	354.575	358.260	356.622	361.945	356.622
137.5	384.464	379.141	380.779	377.504	377.094	377.504	380.779	379.141	384.464	379.141
140.0	406.983	401.661	402.889	400.842	399.613	400.842	402.889	401.661	406.983	401.661
142.5	428.274	422.542	424.180	422.133	420.495	422.133	424.180	422.542	428.274	422.542
145.0	449.974	443.833	445.471	443.833	440.967	443.833	445.471	443.833	449.974	443.833
147.5	470.037	463.896	465.943	463.896	460.620	463.896	465.943	463.896	470.037	463.896
150.0	489.281	483.139	485.596	482.730	480.273	482.730	485.596	483.139	489.281	483.139
152.5	507.706	501.564	504.021	501.564	499.107	501.564	504.021	501.564	507.706	501.564
155.0	525.312	519.170	522.036	519.579	517.123	519.579	522.036	519.170	525.312	519.170
157.5	540.461	534.729	538.004	535.548	533.091	535.548	538.004	534.729	540.461	534.729
160.0	555.201	549.878	552.744	550.287	547.831	550.287	552.744	549.878	555.201	549.878
162.5	567.893	563.389	565.437	563.799	562.161	563.799	565.437	563.389	567.893	563.389
165.0	579.358	575.263	576.491	575.673	574.444	575.673	576.491	575.263	579.358	575.263
167.5	587.956	585.499	586.318	585.499	585.090	585.499	586.318	585.499	587.956	585.499
170.0	595.735	594.507	594.916	594.097	593.688	594.097	594.916	594.507	595.735	594.507
172.5	602.286	601.877	601.877	601.467	601.467	601.467	601.877	601.877	602.286	601.877
175.0	606.790	606.790	606.790	606.790	606.381	606.790	606.790	606.790	606.790	606.790
177.5	609.247	609.656	609.656	609.656	609.247	609.656	609.656	609.656	609.247	609.656
180.0	610.885	610.885	610.885	610.885	610.885	610.885	610.885	610.885	610.885	610.885

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	623.232	636.890	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	405.906	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	511.370	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	309.928	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	333.685	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	271.075
60.0	168.665	169.520	198.683	250.956	276.253	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	170.965	160.624
70.0	102.041	101.910	116.985	150.053	163.363	146.135	137.423
72.5	85.472	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	94.782
77.5	53.182	53.977	64.900	84.871	90.201	81.317	75.602
80.0	38.108	39.647	49.281	65.674	69.825	63.467	59.250

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-F-DAO-ITL85132-KPL2008-3.003.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	12.283	13.511	13.511	13.511	12.283	12.283	12.283
95.0	27.842	28.251	28.661	28.251	27.842	27.842	29.070
97.5	43.810	44.219	44.219	44.219	43.810	44.629	45.857
100.0	61.007	61.007	60.597	61.007	61.007	61.007	63.054
102.5	78.612	78.203	78.203	78.203	78.612	79.431	81.069
105.0	96.628	96.218	95.809	96.218	96.628	98.675	99.903
107.5	115.462	115.053	114.643	115.053	115.462	117.919	119.147
110.0	135.934	135.115	133.887	135.115	135.934	137.981	139.210
112.5	156.815	154.768	153.540	154.768	156.815	158.044	160.091
115.0	178.925	174.831	174.012	174.831	178.925	179.744	180.972
117.5	201.035	196.122	195.303	196.122	201.035	201.035	203.082
120.0	223.145	218.232	216.594	218.232	223.145	222.326	225.601
122.5	245.255	241.160	238.294	241.160	245.255	243.617	246.892
125.0	267.364	263.270	261.223	263.270	267.364	265.727	270.640
127.5	289.474	286.199	285.380	286.199	289.474	288.655	293.978
130.0	312.403	308.308	308.718	308.308	312.403	311.584	316.907
132.5	335.331	331.237	331.237	331.237	335.331	334.103	339.835
135.0	358.260	354.575	354.575	354.575	358.260	356.622	361.945
137.5	380.779	377.504	377.094	377.504	380.779	379.141	384.464
140.0	402.889	400.842	399.613	400.842	402.889	401.661	406.983
142.5	424.180	422.133	420.495	422.133	424.180	422.542	428.274
145.0	445.471	443.833	440.967	443.833	445.471	443.833	449.974
147.5	465.943	463.486	460.620	463.486	465.943	463.896	470.037
150.0	485.596	482.730	480.273	482.730	485.596	483.139	489.281
152.5	504.021	501.564	499.107	501.564	504.021	501.564	507.706
155.0	522.036	519.579	517.123	519.579	522.036	519.170	525.312
157.5	538.004	535.548	533.091	535.548	538.004	534.729	540.461
160.0	552.744	550.287	547.831	550.287	552.744	549.878	555.201
162.5	565.437	563.799	562.161	563.799	565.437	563.389	567.893
165.0	576.491	575.673	574.444	575.673	576.491	575.263	579.358
167.5	586.318	585.499	585.090	585.499	586.318	585.499	587.956
170.0	594.916	594.097	593.688	594.097	594.916	594.507	595.735
172.5	601.877	601.467	601.467	601.467	601.877	601.877	602.286
175.0	606.790	606.790	606.381	606.790	606.790	606.790	606.790
177.5	609.656	609.656	609.247	609.656	609.656	609.656	609.247
180.0	610.885	610.885	610.885	610.885	610.885	610.885	610.885

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-F-DAO-ITL85132-KPL2008-3.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	214.18	N.A.	6.90
0-30	453.60	N.A.	14.70
0-40	734.40	N.A.	23.70
0-60	1245.91	N.A.	40.30
0-80	1505.03	N.A.	48.70
0-90	1531.19	N.A.	49.50
10-90	1476.00	N.A.	47.70
20-40	520.22	N.A.	16.80
20-50	797.46	N.A.	25.80
40-70	678.69	N.A.	21.90
60-80	259.12	N.A.	8.40
70-80	91.95	N.A.	3.00
80-90	26.16	N.A.	0.80
90-110	134.79	N.A.	4.40
90-120	311.06	N.A.	10.10
90-130	548.82	N.A.	17.70
90-150	1102.06	N.A.	35.60
90-180	1561.34	N.A.	50.50
110-180	1426.55	N.A.	46.10
0-180	3092.53	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	31.55
100-110	103.24
110-120	176.27
120-130	237.75
130-140	275.37
140-150	277.87
150-160	239.43
160-170	162.32
170-180	57.53

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

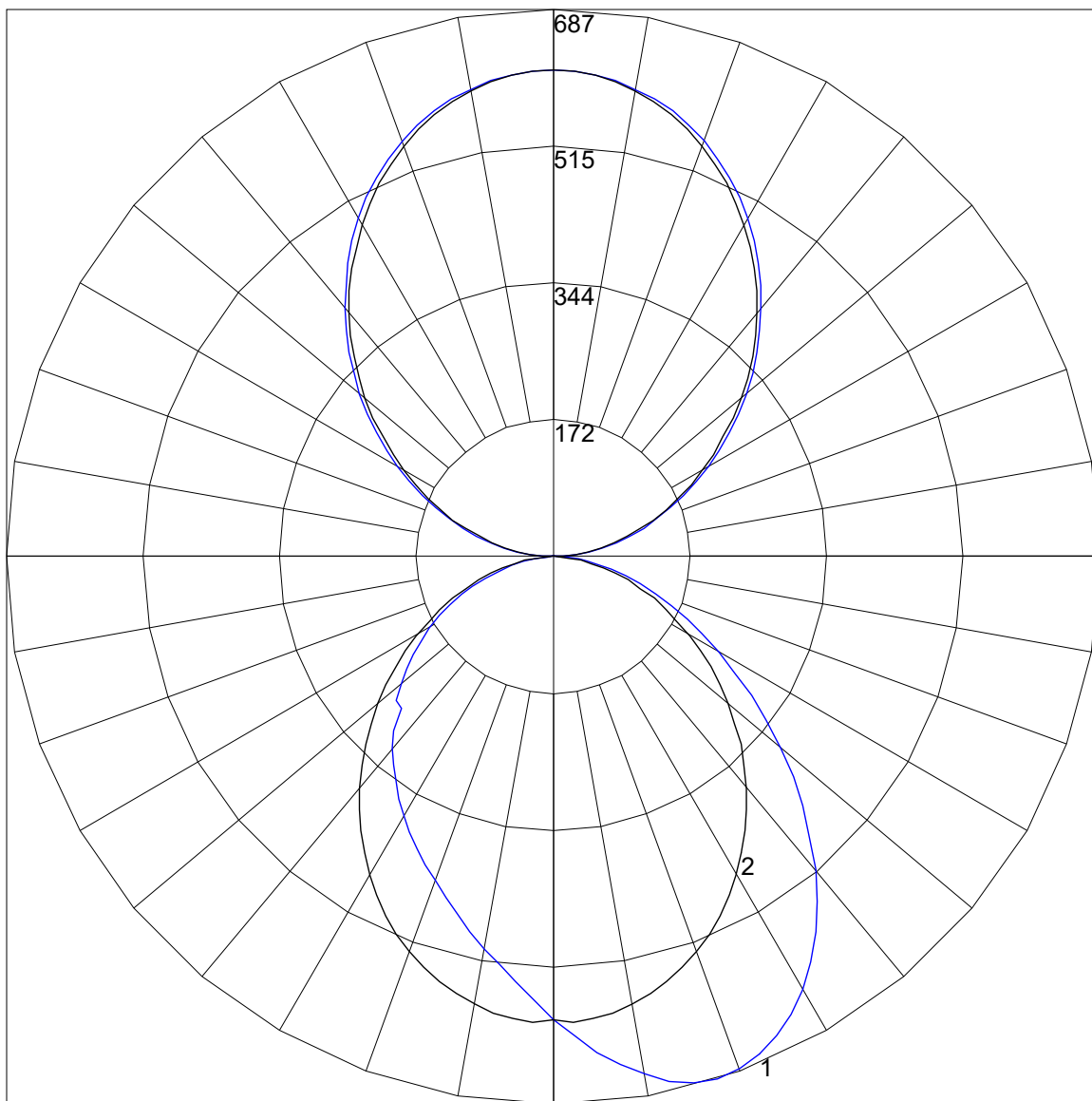
Effective Floor Cavity Reflectance 0.20

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	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	70	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	56	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	45	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-S-S-835-F-DAO-ITL85132-KPL2008-3.003.IES

POLAR GRAPH



Maximum Candela = 687.019 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)