

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-H-V-835-F-MLB-ITL85132-KPL2008-6.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-6.009 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]02/10/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-H-V-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 64.0 WATTS

[ABSOLUTE]LUMENS]5426

[OTHER]see www.finelite.com for source files ITL85132 and KPL2008-6. For further details on Finelite family correlation files, go

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	64
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	376	224	233
55	167	88	99
65	81	43	49
75	43	25	24
85	16	7	7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-MLB-ITL85132-KPL2008-6.009.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	7822.880	7822.880	7822.880	7822.880	7822.880
2.5	7625.420	7694.420	7661.780	7652.930	7685.090
5.0	7187.170	7287.370	7239.390	7236.590	7278.930
7.5	6524.590	6648.180	6650.840	6659.790	6689.260
10.0	5672.160	5779.160	5962.710	6009.560	6016.040
12.5	4551.380	4724.300	5156.250	5307.260	5317.280
15.0	3657.740	3842.460	4304.380	4615.210	4551.010
17.5	2751.230	3008.950	3655.130	3738.490	3532.790
20.0	1860.570	2139.700	2712.910	2809.090	2749.920
22.5	1159.200	1493.380	1992.420	2113.260	2084.540
25.0	682.540	823.280	1366.760	1488.350	1319.580
27.5	405.740	530.470	813.800	827.530	736.040
30.0	229.940	307.440	483.850	460.650	405.120
32.5	113.350	175.750	248.440	239.640	225.370
35.0	53.520	76.330	133.640	134.770	112.710
37.5	35.750	37.000	66.700	65.350	41.760
40.0	28.510	25.760	32.550	26.520	17.940
42.5	22.380	20.240	15.750	12.810	14.080
45.0	17.530	15.630	10.420	9.810	10.870
47.5	13.840	11.840	7.720	7.420	8.340
50.0	10.410	9.020	5.780	5.600	6.420
52.5	8.130	6.850	4.370	4.320	4.890
55.0	6.300	5.260	3.320	3.270	3.730
57.5	4.850	4.030	2.540	2.490	2.850
60.0	3.730	3.130	1.980	1.940	2.220
62.5	2.910	2.390	1.530	1.500	1.730
65.0	2.260	1.860	1.200	1.170	1.360
67.5	1.750	1.430	0.940	0.910	1.030
70.0	1.340	1.100	0.740	0.710	0.800
72.5	1.010	0.830	0.560	0.540	0.580
75.0	0.730	0.610	0.420	0.410	0.410
77.5	0.520	0.440	0.320	0.310	0.320
80.0	0.340	0.310	0.220	0.210	0.190
82.5	0.220	0.180	0.130	0.110	0.110
85.0	0.090	0.080	0.040	0.050	0.040
87.5	0.020	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.333	23.333	23.333	25.667	25.667
95.0	55.222	52.889	52.889	53.667	54.444
97.5	87.111	84.778	83.222	84.000	84.000
100.0	119.778	115.889	115.889	115.889	115.111
102.5	154.000	150.889	149.333	148.556	148.556
105.0	189.778	187.444	183.556	182.778	182.000
107.5	226.333	224.000	219.333	218.556	217.778
110.0	264.444	262.111	258.222	256.667	254.333
112.5	304.111	300.222	297.889	294.000	291.667
115.0	343.778	341.444	339.889	332.111	330.556
117.5	385.778	381.889	381.889	372.556	371.000
120.0	428.556	422.333	423.889	414.556	411.444
122.5	469.000	462.778	465.889	458.111	452.667
125.0	514.111	504.778	507.889	500.111	496.222
127.5	558.445	548.333	549.889	543.667	542.111
130.0	602.000	591.889	593.445	585.667	586.445
132.5	645.555	634.667	637.000	629.222	629.222

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-MLB-ITL85132-KPL2008-6.009.IES****CANDELA TABULATION - (Cont.)**

135.0	687.555	677.445	680.555	673.555	673.555
137.5	730.333	720.222	723.333	717.111	716.333
140.0	773.111	763.000	765.333	761.445	759.111
142.5	813.555	802.667	805.778	801.889	798.778
145.0	854.778	843.111	846.222	843.111	837.667
147.5	892.889	881.222	885.111	880.445	875.000
150.0	929.445	917.778	922.445	917.000	912.333
152.5	964.445	952.778	957.445	952.778	948.111
155.0	997.889	986.222	991.667	987.000	982.333
157.5	1026.667	1015.778	1022.000	1017.333	1012.667
160.0	1054.667	1044.556	1050.000	1045.333	1040.667
162.5	1078.778	1070.222	1074.111	1071.000	1067.889
165.0	1100.556	1092.778	1095.111	1093.556	1091.222
167.5	1116.889	1112.222	1113.778	1112.222	1111.444
170.0	1131.667	1129.333	1130.111	1128.556	1127.778
172.5	1144.111	1143.333	1143.333	1142.556	1142.556
175.0	1152.667	1152.667	1152.667	1152.667	1151.889
177.5	1157.333	1158.111	1158.111	1158.111	1157.333
180.0	1160.444	1160.444	1160.444	1160.444	1160.444

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-MLB-ITL85132-KPL2008-6.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1792.87	N.A.	33.10
0-30	2354.14	N.A.	43.40
0-40	2440.51	N.A.	45.00
0-60	2455.1	N.A.	45.30
0-80	2457.22	N.A.	45.30
0-90	2457.31	N.A.	45.30
10-90	1808.53	N.A.	33.30
20-40	647.64	N.A.	11.90
20-50	658.27	N.A.	12.10
40-70	16.15	N.A.	0.30
60-80	2.12	N.A.	0.00
70-80	0.56	N.A.	0.00
80-90	0.09	N.A.	0.00
90-110	256.05	N.A.	4.70
90-120	590.90	N.A.	10.90
90-130	1042.54	N.A.	19.20
90-150	2093.49	N.A.	38.60
90-180	2965.95	N.A.	54.70
110-180	2709.9	N.A.	50.00
0-180	5423.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	648.78
10-20	1144.1
20-30	561.26
30-40	86.37
40-50	10.64
50-60	3.95
60-70	1.56
70-80	0.56
80-90	0.09
90-100	59.94
100-110	196.12
110-120	334.85
120-130	451.64
130-140	523.10
140-150	527.85
150-160	454.83
160-170	308.34
170-180	109.29

IES INDOOR REPORT

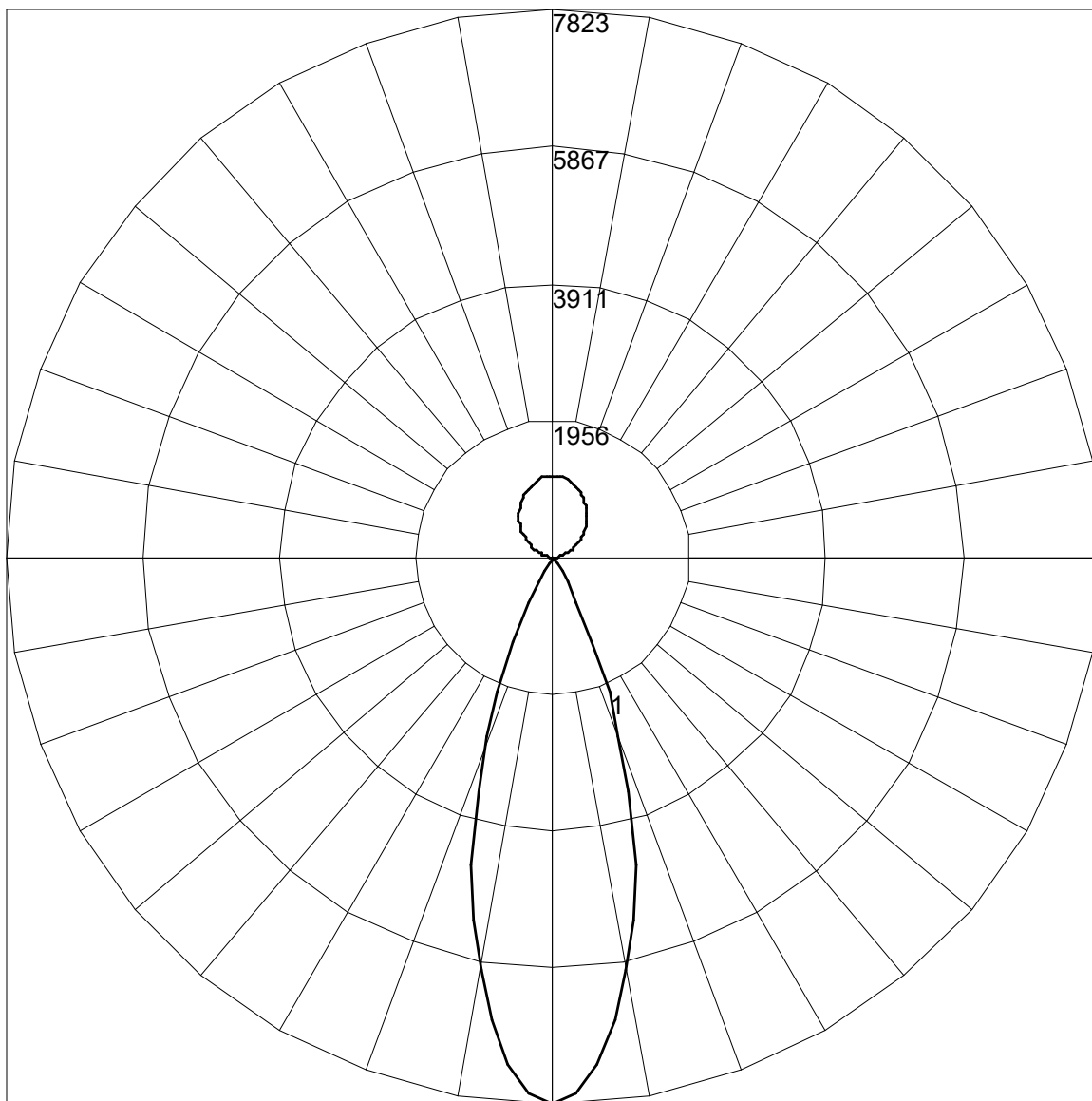
PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-MLB-ITL85132-KPL2008-6.009.IES

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	81	81	81	66	66	66	52	52	52	45
1	99	96	93	91	91	89	86	84	75	73	72	62	61	60	50	49	49	44
2	93	88	83	80	86	81	78	75	69	67	65	58	57	55	48	47	46	42
3	88	81	75	71	81	75	71	67	65	62	59	55	53	52	46	45	44	40
4	83	75	69	64	76	70	65	61	61	57	55	52	50	48	45	43	42	39
5	78	69	63	59	72	65	60	56	57	54	51	50	47	45	43	41	40	37
6	74	65	59	54	69	61	56	52	54	50	47	48	45	43	41	40	39	36
7	70	61	55	51	65	57	52	49	51	47	45	45	43	41	40	38	37	35
8	67	57	51	47	62	54	49	46	49	45	42	43	41	39	39	37	36	34
9	63	54	48	44	59	51	46	43	46	43	40	42	39	37	37	36	34	32
10	61	51	46	42	57	49	44	41	44	41	38	40	37	36	36	34	33	31

POLAR GRAPH



Maximum Candela = 7822.88 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)