

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-H-835-F-MLB-ITL85132-KPL2008-6.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-6.003 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-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 55.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 55.6 WATTS
[ABSOLUTE]LUMENS]4879
[OTHER]see www.finelite.com for source files ITL85132 and KPL2008-6. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4879
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	55.6
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	293	174	182
55	130	68	77
65	63	34	38
75	33	19	19
85	12	5	5

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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>
0.0	6084.462	6084.462	6084.462	6084.462	6084.462
2.5	5930.882	5984.549	5959.162	5952.279	5977.292
5.0	5590.021	5667.955	5630.637	5628.459	5661.390
7.5	5074.681	5170.807	5172.876	5179.837	5202.758
10.0	4411.680	4494.902	4637.663	4674.102	4679.142
12.5	3539.962	3674.455	4010.417	4127.869	4135.662
15.0	2844.909	2988.580	3347.851	3589.608	3539.674
17.5	2139.846	2340.294	2842.879	2907.714	2747.726
20.0	1447.110	1664.211	2110.041	2184.848	2138.827
22.5	901.600	1161.518	1549.660	1643.647	1621.309
25.0	530.864	640.329	1063.036	1157.606	1026.340
27.5	315.576	412.588	632.956	643.634	572.476
30.0	178.842	239.120	376.328	358.283	315.093
32.5	88.161	136.694	193.231	186.387	175.288
35.0	41.627	59.368	103.942	104.821	87.663
37.5	27.806	28.778	51.878	50.828	32.480
40.0	22.174	20.036	25.317	20.627	13.953
42.5	17.407	15.742	12.250	9.963	10.951
45.0	13.634	12.157	8.104	7.630	8.454
47.5	10.764	9.209	6.004	5.771	6.487
50.0	8.097	7.016	4.496	4.356	4.993
52.5	6.323	5.328	3.399	3.360	3.803
55.0	4.900	4.091	2.582	2.543	2.901
57.5	3.772	3.134	1.976	1.937	2.217
60.0	2.901	2.434	1.540	1.509	1.727
62.5	2.263	1.859	1.190	1.167	1.346
65.0	1.758	1.447	0.933	0.910	1.058
67.5	1.361	1.112	0.731	0.708	0.801
70.0	1.042	0.856	0.576	0.552	0.622
72.5	0.786	0.646	0.436	0.420	0.451
75.0	0.568	0.474	0.327	0.319	0.319
77.5	0.404	0.342	0.249	0.241	0.249
80.0	0.264	0.241	0.171	0.163	0.148
82.5	0.171	0.140	0.101	0.086	0.086
85.0	0.070	0.062	0.031	0.039	0.031
87.5	0.016	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	558.444	548.333	549.889	543.667	542.111
130.0	602.000	591.889	593.444	585.667	586.444
132.5	645.556	634.667	637.000	629.222	629.222

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-F-MLB-ITL85132-KPL2008-6.003.IES****CANDELA TABULATION - (Cont.)**

135.0	687.556	677.444	680.556	673.556	673.556
137.5	730.333	720.222	723.333	717.111	716.333
140.0	773.111	763.000	765.333	761.444	759.111
142.5	813.556	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	880.444	875.000
150.0	929.444	917.778	922.444	917.000	912.333
152.5	964.444	952.778	957.444	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-H-835-F-MLB-ITL85132-KPL2008-6.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1394.46	N.A.	28.60
0-30	1830.99	N.A.	37.50
0-40	1898.17	N.A.	38.90
0-60	1909.52	N.A.	39.20
0-80	1911.17	N.A.	39.20
0-90	1911.24	N.A.	39.20
10-90	1406.64	N.A.	28.80
20-40	503.72	N.A.	10.30
20-50	511.99	N.A.	10.50
40-70	12.56	N.A.	0.30
60-80	1.65	N.A.	0.00
70-80	0.44	N.A.	0.00
80-90	0.07	N.A.	0.00
90-110	256.05	N.A.	5.20
90-120	590.90	N.A.	12.10
90-130	1042.54	N.A.	21.40
90-150	2093.49	N.A.	42.90
90-180	2965.95	N.A.	60.80
110-180	2709.9	N.A.	55.60
0-180	4877.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	504.60
10-20	889.85
20-30	436.54
30-40	67.18
40-50	8.27
50-60	3.08
60-70	1.21
70-80	0.44
80-90	0.07
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

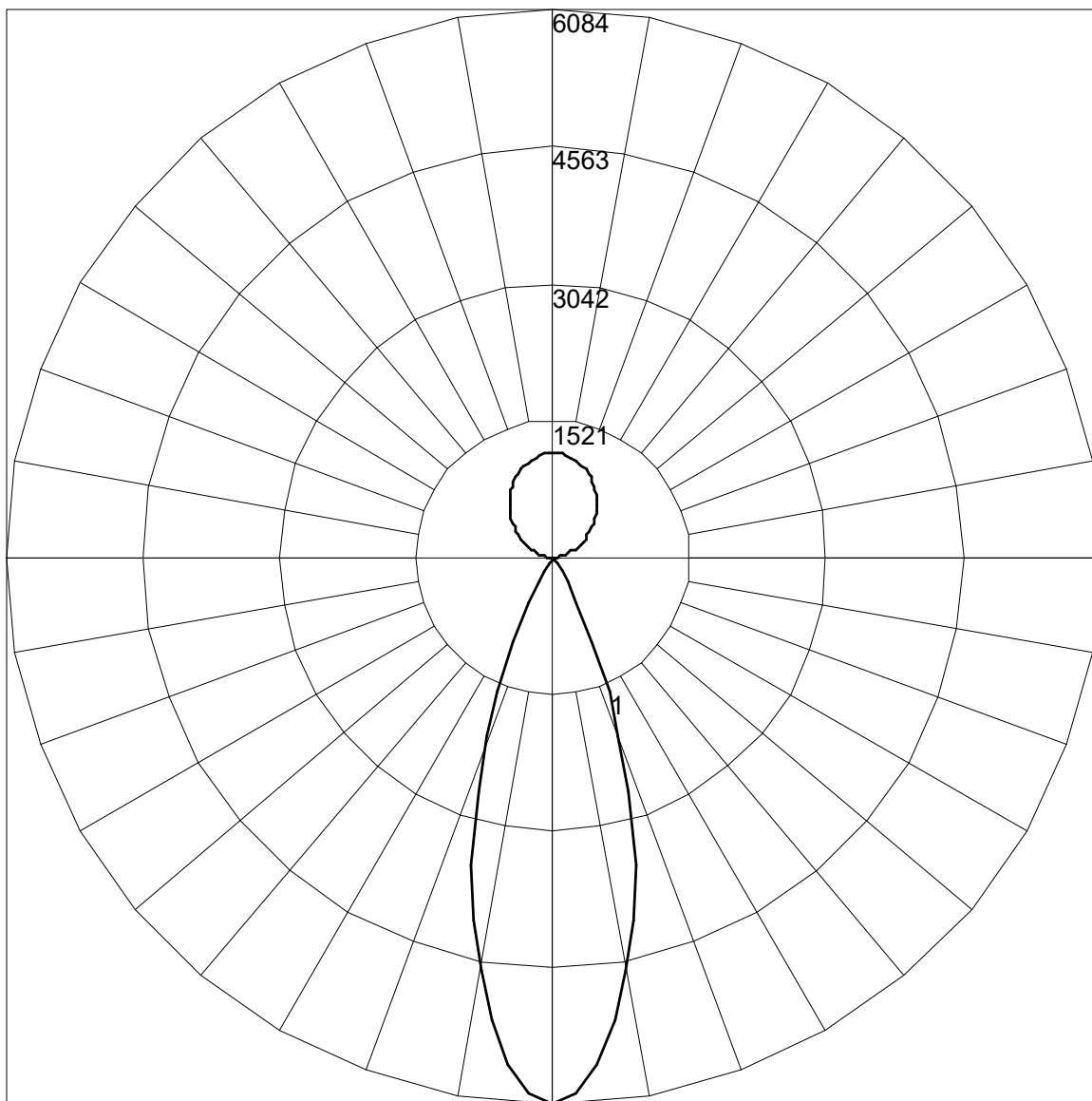
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	98	94	91	89	89	86	84	82	71	70	68	57	56	55	44	44	44	38
2	91	86	81	77	83	79	75	72	66	63	61	54	52	51	43	42	41	36
3	86	78	73	68	78	72	68	64	61	58	55	51	49	47	41	40	39	35
4	80	72	66	61	74	67	62	58	57	54	51	48	46	44	39	38	37	34
5	76	67	60	56	69	62	57	53	53	50	47	45	43	41	38	36	35	32
6	71	62	56	51	66	58	53	49	50	46	44	43	41	39	36	35	34	31
7	67	58	52	47	62	54	49	45	47	44	41	41	39	37	35	34	32	30
8	64	54	48	44	59	51	46	42	45	41	38	39	37	35	34	32	31	29
9	61	51	45	41	56	48	43	40	43	39	36	38	35	33	33	31	30	28
10	58	48	43	39	54	46	41	37	41	37	34	36	33	32	32	30	29	27

POLAR GRAPH



Maximum Candela = 6084.462 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)