

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-V-B-8TW-F-MLB-ITL85132-KPL2008-6.905.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-6.905 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/11/15
[ISSUE DATE]02/10/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-2-ID-4ft-V-B-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com
for lumen adjustment factors for other CCT's & CRI's
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 59.8 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 60.7 WATTS
[ABSOLUTE LUMENS]5079
[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	5060
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	59.8
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	122	88	88
55	82	54	68
65	55	37	37
75	60	30	30
85	0	0	0

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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	3918.316	3918.316	3918.316	3918.316	3918.316
2.5	3845.754	3844.211	3846.269	3844.211	3842.667
5.0	3654.831	3655.345	3652.257	3649.170	3650.199
7.5	3336.795	3343.486	3369.217	3367.158	3367.158
10.0	2869.006	2911.205	3015.158	3048.094	3039.345
12.5	2343.579	2415.111	2606.035	2713.591	2703.298
15.0	1875.790	1950.924	2186.620	2343.579	2296.234
17.5	1431.158	1514.526	1767.205	1891.228	1811.462
20.0	974.176	1105.918	1382.784	1456.374	1409.029
22.5	609.825	718.924	1021.520	1101.287	1045.193
25.0	355.088	440.515	697.310	765.240	652.538
27.5	207.392	259.883	443.088	448.749	372.070
30.0	112.187	148.210	251.135	239.813	208.421
32.5	49.404	76.678	127.111	127.626	113.731
35.0	15.953	32.421	65.357	72.047	56.094
37.5	8.234	11.836	33.450	34.480	20.070
40.0	7.205	6.690	14.924	12.351	6.175
42.5	6.175	5.661	6.175	4.632	4.632
45.0	5.661	5.146	4.117	4.117	4.117
47.5	4.632	4.117	3.088	3.088	3.602
50.0	4.117	3.602	2.573	2.573	3.088
52.5	3.602	3.088	2.573	2.573	2.573
55.0	3.088	3.088	2.058	2.058	2.573
57.5	2.573	2.573	1.544	1.544	2.058
60.0	2.573	2.058	1.544	1.544	1.544
62.5	2.058	2.058	1.029	1.029	1.544
65.0	1.544	1.544	1.029	1.029	1.029
67.5	1.544	1.029	1.029	1.029	1.029
70.0	1.029	1.029	0.515	0.515	0.515
72.5	1.029	1.029	0.515	0.515	0.515
75.0	1.029	0.515	0.515	0.515	0.515
77.5	0.515	0.515	0.515	0.515	0.515
80.0	0.515	0.515	0.515	0.000	0.000
82.5	0.515	0.515	0.515	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	30.000	30.000	33.000	33.000
95.0	71.000	68.000	68.000	69.000	70.000
97.5	112.000	109.000	107.000	108.000	108.000
100.0	154.000	149.000	149.000	149.000	148.000
102.5	198.000	194.000	192.000	191.000	191.000
105.0	244.000	241.000	236.000	235.000	234.000
107.5	291.000	288.000	282.000	281.000	280.000
110.0	340.000	337.000	332.000	330.000	327.000
112.5	391.000	386.000	383.000	378.000	375.000
115.0	442.000	439.000	437.000	427.000	425.000
117.5	496.000	491.000	491.000	479.000	477.000
120.0	551.000	543.000	545.000	533.000	529.000
122.5	603.000	595.000	599.000	589.000	582.000
125.0	661.000	649.000	653.000	643.000	638.000
127.5	718.000	705.000	707.000	699.000	697.000
130.0	774.000	761.000	763.000	753.000	754.000
132.5	830.000	816.000	819.000	809.000	809.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-8TW-F-MLB-ITL85132-KPL2008-6.905.IES****CANDELA TABULATION - (Cont.)**

135.0	884.000	871.000	875.000	866.000	866.000
137.5	939.000	926.000	930.000	922.000	921.000
140.0	994.000	981.000	984.000	979.000	976.000
142.5	1046.000	1032.000	1036.000	1031.000	1027.000
145.0	1099.000	1084.000	1088.000	1084.000	1077.000
147.5	1148.000	1133.000	1138.000	1132.000	1125.000
150.0	1195.000	1180.000	1186.000	1179.000	1173.000
152.5	1240.000	1225.000	1231.000	1225.000	1219.000
155.0	1283.000	1268.000	1275.000	1269.000	1263.000
157.5	1320.000	1306.000	1314.000	1308.000	1302.000
160.0	1356.000	1343.000	1350.000	1344.000	1338.000
162.5	1387.000	1376.000	1381.000	1377.000	1373.000
165.0	1415.000	1405.000	1408.000	1406.000	1403.000
167.5	1436.000	1430.000	1432.000	1430.000	1429.000
170.0	1455.000	1452.000	1453.000	1451.000	1450.000
172.5	1471.000	1470.000	1470.000	1469.000	1469.000
175.0	1482.000	1482.000	1482.000	1482.000	1481.000
177.5	1488.000	1489.000	1489.000	1489.000	1488.000
180.0	1492.000	1492.000	1492.000	1492.000	1492.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-8TW-F-MLB-ITL85132-KPL2008-6.905.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	907.59	N.A.	17.90
0-30	1196.07	N.A.	23.60
0-40	1238.36	N.A.	24.50
0-60	1244.41	N.A.	24.60
0-80	1246.26	N.A.	24.60
0-90	1246.39	N.A.	24.60
10-90	919.17	N.A.	18.20
20-40	330.77	N.A.	6.50
20-50	334.64	N.A.	6.60
40-70	7.29	N.A.	0.10
60-80	1.86	N.A.	0.00
70-80	0.61	N.A.	0.00
80-90	0.13	N.A.	0.00
90-110	329.21	N.A.	6.50
90-120	759.73	N.A.	15.00
90-130	1340.41	N.A.	26.50
90-150	2691.63	N.A.	53.20
90-180	3813.36	N.A.	75.40
110-180	3484.15	N.A.	68.90
0-180	5059.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	327.23
10-20	580.36
20-30	288.48
30-40	42.29
40-50	3.86
50-60	2.18
60-70	1.25
70-80	0.61
80-90	0.13
90-100	77.06
100-110	252.15
110-120	430.52
120-130	580.67
130-140	672.56
140-150	678.67
150-160	584.78
160-170	396.44
170-180	140.51

IES INDOOR REPORT

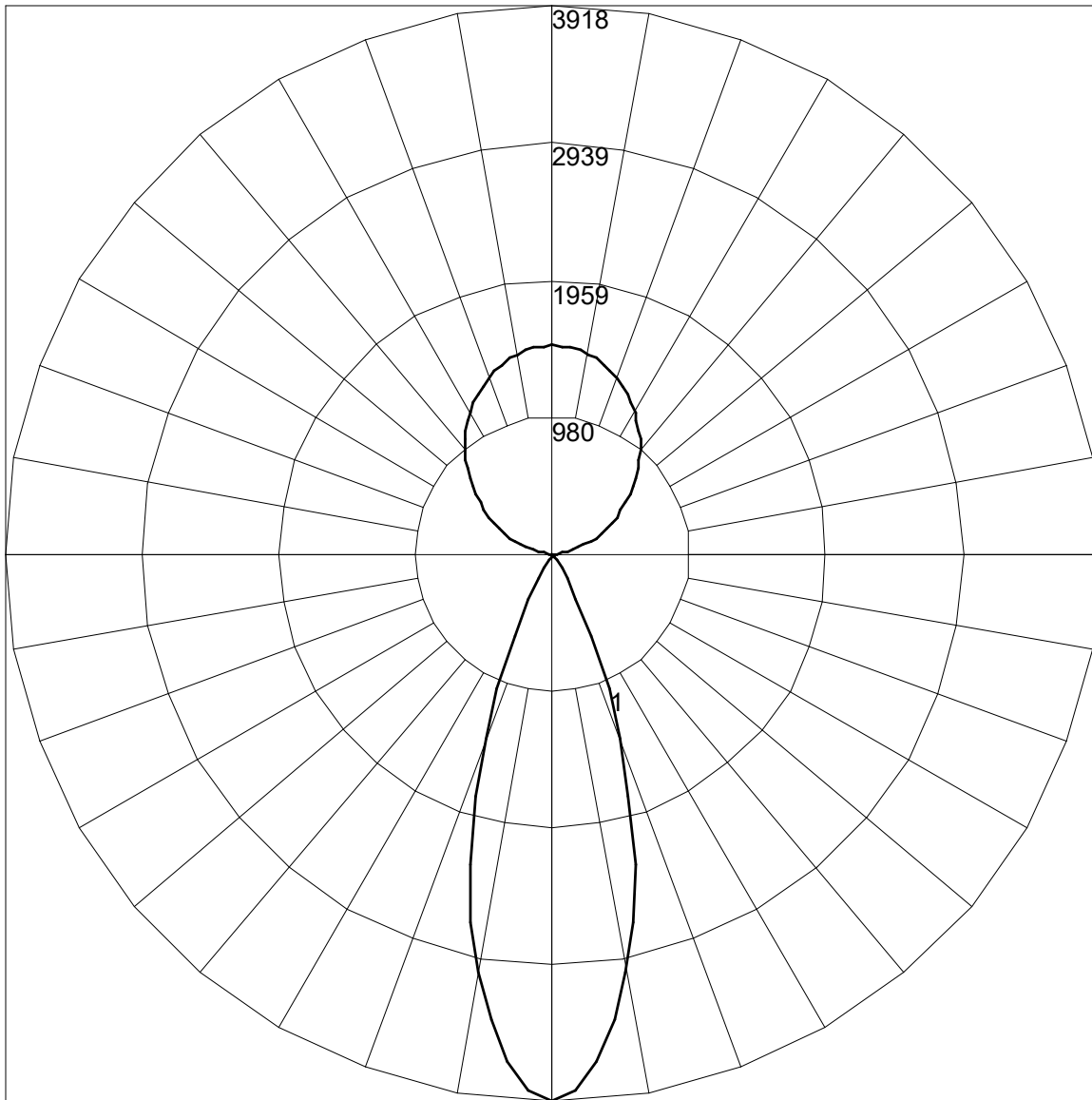
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	94	90	87	84	83	80	78	76	63	61	60	46	45	45	31	31	30	24
2	87	81	76	71	77	72	68	65	57	54	52	43	41	40	30	29	28	23
3	80	73	67	62	72	66	61	57	52	49	46	40	38	36	28	27	27	22
4	75	66	59	55	67	60	54	50	48	44	42	37	35	33	27	26	25	21
5	70	60	54	49	63	55	49	45	44	41	38	35	33	31	26	25	24	20
6	65	55	49	44	59	50	45	41	41	37	35	33	30	29	25	24	23	20
7	61	51	44	40	55	47	41	37	38	35	32	31	28	27	24	23	22	19
8	57	47	41	36	52	43	38	34	36	32	30	29	27	25	23	22	21	18
9	54	44	38	33	49	40	35	31	34	30	28	28	25	24	22	21	20	18
10	51	41	35	31	46	38	33	29	32	28	26	26	24	22	21	20	19	17

POLAR GRAPH



Maximum Candela = 3918.316 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)