

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-MLW-ITL85132-KPL2008-7.905.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-7.905 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]02/03/23

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-B-8TW-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 59.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 60.7 WATTS

[ABSOLUTE]LUMENS]5596

[OTHER]see www.finelite.com for source files ITL85132 and KPL2008-7. 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	5595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	2607	2547	2466
55	2172	2111	2009
65	1853	1753	1640
75	1570	1456	1315
85	1234	1115	1000

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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	4476.597	4476.597	4476.597	4476.597	4476.597
2.5	4375.121	4401.457	4381.402	4385.029	4393.482
5.0	4127.710	4157.916	4151.387	4155.014	4167.336
7.5	3735.041	3784.066	3799.408	3832.679	3831.300
10.0	3191.992	3294.828	3404.855	3468.209	3476.708
12.5	2606.520	2714.546	2957.244	3066.139	3089.358
15.0	2123.774	2237.820	2477.740	2642.812	2636.962
17.5	1653.305	1778.731	2027.129	2140.639	2073.905
20.0	1153.843	1326.263	1584.107	1652.075	1624.411
22.5	776.058	968.845	1193.371	1266.510	1231.644
25.0	523.719	624.280	906.289	958.041	914.166
27.5	375.815	417.133	599.971	599.538	537.250
30.0	274.364	315.821	383.342	377.364	348.223
32.5	209.169	238.124	270.408	260.149	256.671
35.0	174.580	185.698	203.473	201.158	194.799
37.5	159.114	160.694	168.447	163.225	154.340
40.0	145.702	147.004	145.043	139.189	136.369
42.5	133.576	134.589	129.959	126.136	126.028
45.0	121.413	122.766	118.640	115.738	114.874
47.5	106.406	111.684	107.965	105.804	104.116
50.0	99.851	100.942	98.508	96.811	96.286
52.5	91.136	91.681	88.754	86.032	85.049
55.0	82.070	82.441	79.745	77.708	75.907
57.5	73.597	73.762	71.055	68.678	67.634
60.0	65.581	65.844	63.153	60.894	59.881
62.5	58.507	58.234	55.708	53.666	52.441
65.0	51.577	51.243	48.799	46.787	45.655
67.5	44.575	44.626	42.208	40.397	39.163
70.0	38.309	38.185	36.096	34.362	33.102
72.5	32.011	32.083	30.272	28.636	27.484
75.0	26.764	26.491	24.819	23.450	22.421
77.5	21.320	20.811	19.710	18.593	17.775
80.0	16.515	16.114	15.013	14.040	13.608
82.5	11.509	11.375	10.495	9.924	9.384
85.0	7.084	6.801	6.400	5.968	5.742
87.5	2.891	2.953	2.655	2.480	2.356
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-MLW-ITL85132-KPL2008-7.905.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-MLW-ITL85132-KPL2008-7.905.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1032.61	N.A.	18.50
0-30	1404.1	N.A.	25.10
0-40	1535.45	N.A.	27.40
0-60	1698.94	N.A.	30.40
0-80	1773.98	N.A.	31.70
0-90	1781.36	N.A.	31.80
10-90	1410.00	N.A.	25.20
20-40	502.83	N.A.	9.00
20-50	594.80	N.A.	10.60
40-70	212.09	N.A.	3.80
60-80	75.03	N.A.	1.30
70-80	26.44	N.A.	0.50
80-90	7.39	N.A.	0.10
90-110	329.21	N.A.	5.90
90-120	759.73	N.A.	13.60
90-130	1340.41	N.A.	24.00
90-150	2691.63	N.A.	48.10
90-180	3813.36	N.A.	68.20
110-180	3484.15	N.A.	62.30
0-180	5594.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	371.36
10-20	661.25
20-30	371.48
30-40	131.35
40-50	91.97
50-60	71.53
60-70	48.60
70-80	26.44
80-90	7.39
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

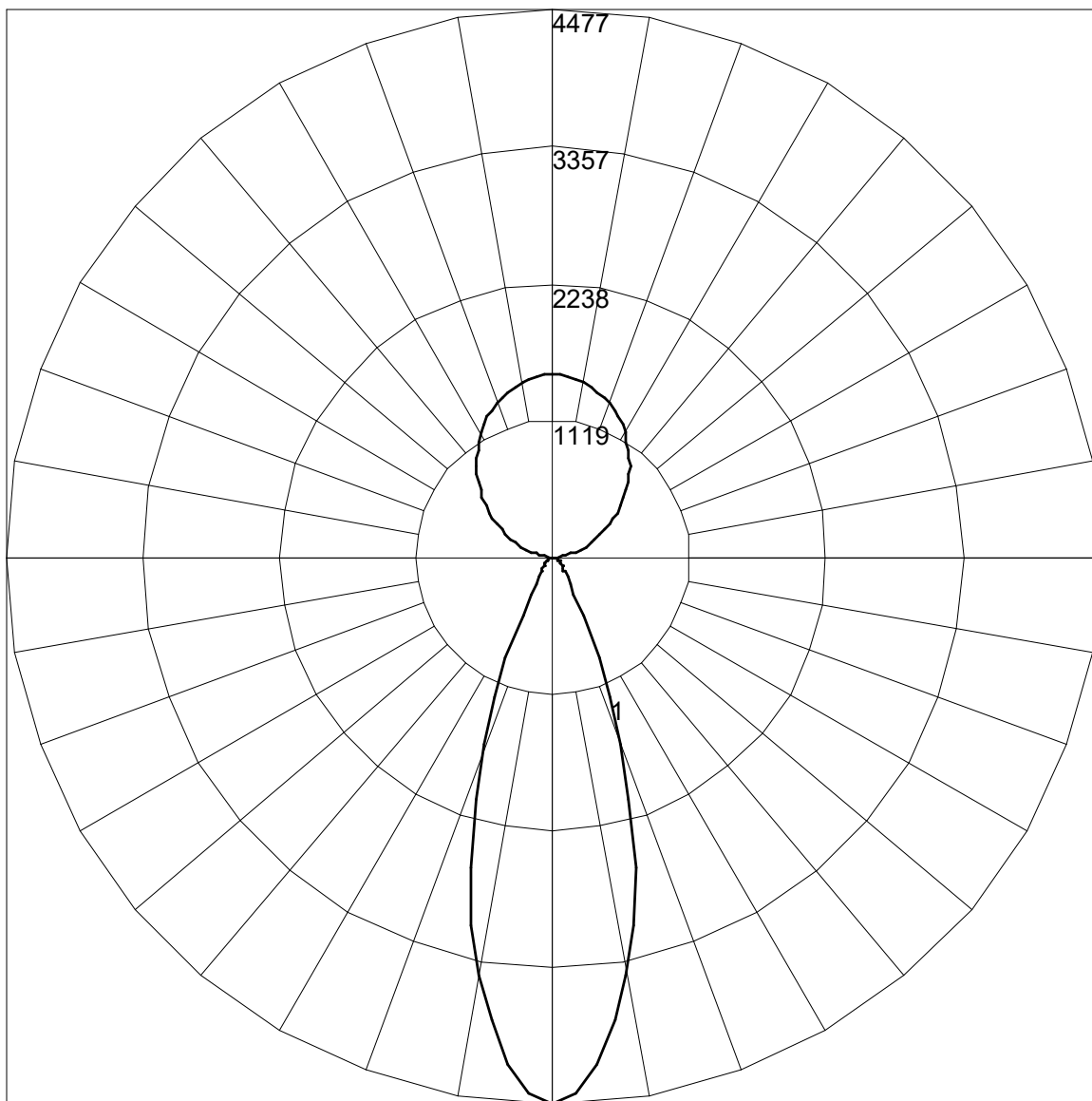
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	95	92	88	85	86	83	80	78	66	64	63	51	50	49	37	37	36	30
2	88	82	77	73	79	74	70	67	60	57	55	47	45	44	35	34	33	28
3	82	74	68	63	74	67	62	58	55	51	49	43	41	39	33	32	31	26
4	76	67	60	55	69	61	56	51	50	47	43	40	38	36	31	30	28	25
5	71	61	54	49	64	56	50	46	46	42	39	38	35	33	29	28	27	23
6	66	56	49	44	60	52	46	41	43	39	36	35	33	30	28	26	25	22
7	62	52	45	40	56	48	42	38	40	36	33	33	30	28	27	25	24	21
8	58	48	41	37	53	44	39	35	38	33	31	31	29	26	25	24	22	20
9	55	45	38	34	50	41	36	32	35	31	28	30	27	25	24	23	21	19
10	52	42	35	31	48	39	33	30	33	29	27	28	25	24	23	22	20	19

POLAR GRAPH



Maximum Candela = 4476.597 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)