

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-B-H-835-F-MLB-ITL85132-KPL2008-6.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-6.011 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-B-H-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 46.8 WATTS

[ABSOLUTE]LUMENS]3876

[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	3874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	46
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	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	6084.714	6084.714	6084.714	6084.714	6084.714
2.5	5931.128	5984.797	5959.409	5952.526	5977.540
5.0	5590.252	5668.189	5630.870	5628.692	5661.625
7.5	5074.891	5171.021	5173.090	5180.051	5202.973
10.0	4411.863	4495.088	4637.855	4674.296	4679.336
12.5	3540.109	3674.608	4010.583	4128.040	4135.833
15.0	2845.027	2988.704	3347.990	3589.757	3539.821
17.5	2139.934	2340.391	2842.997	2907.835	2747.839
20.0	1447.170	1664.280	2110.128	2184.938	2138.915
22.5	901.637	1161.566	1549.724	1643.715	1621.376
25.0	530.886	640.355	1063.080	1157.654	1026.383
27.5	315.589	412.605	632.982	643.661	572.499
30.0	178.850	239.130	376.343	358.298	315.106
32.5	88.165	136.700	193.239	186.394	175.295
35.0	41.628	59.370	103.947	104.825	87.667
37.5	27.807	28.779	51.880	50.830	32.481
40.0	22.175	20.036	25.318	20.628	13.954
42.5	17.407	15.743	12.251	9.964	10.952
45.0	13.635	12.157	8.105	7.630	8.455
47.5	10.765	9.209	6.005	5.771	6.487
50.0	8.097	7.016	4.496	4.356	4.994
52.5	6.324	5.328	3.399	3.360	3.803
55.0	4.900	4.091	2.582	2.543	2.901
57.5	3.772	3.135	1.976	1.937	2.217
60.0	2.901	2.435	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	15.439	15.439	15.439	16.983	16.983
95.0	36.538	34.994	34.994	35.509	36.023
97.5	57.637	56.094	55.064	55.579	55.579
100.0	79.252	76.678	76.678	76.678	76.164
102.5	101.895	99.836	98.807	98.292	98.292
105.0	125.567	124.023	121.450	120.936	120.421
107.5	149.754	148.210	145.123	144.608	144.094
110.0	174.971	173.427	170.854	169.825	168.281
112.5	201.216	198.643	197.099	194.526	192.982
115.0	227.462	225.918	224.889	219.743	218.714
117.5	255.251	252.678	252.678	246.503	245.474
120.0	283.556	279.439	280.468	274.292	272.234
122.5	310.316	306.199	308.257	303.111	299.509
125.0	340.164	333.988	336.047	330.901	328.328
127.5	369.497	362.807	363.836	359.719	358.690
130.0	398.316	391.626	392.655	387.509	388.023
132.5	427.134	419.930	421.474	416.328	416.328

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-MLB-ITL85132-KPL2008-6.011.IES****CANDELA TABULATION - (Cont.)**

135.0	454.924	448.234	450.292	445.661	445.661
137.5	483.228	476.538	478.596	474.480	473.965
140.0	511.532	504.842	506.386	503.813	502.269
142.5	538.292	531.088	533.146	530.573	528.515
145.0	565.567	557.848	559.906	557.848	554.246
147.5	590.784	583.064	585.638	582.550	578.947
150.0	614.971	607.252	610.339	606.737	603.649
152.5	638.129	630.409	633.497	630.409	627.322
155.0	660.257	652.538	656.140	653.053	649.965
157.5	679.298	672.094	676.211	673.123	670.035
160.0	697.825	691.135	694.737	691.649	688.561
162.5	713.778	708.117	710.690	708.632	706.573
165.0	728.187	723.041	724.585	723.556	722.012
167.5	738.994	735.906	736.936	735.906	735.392
170.0	748.772	747.228	747.743	746.714	746.199
172.5	757.006	756.491	756.491	755.977	755.977
175.0	762.667	762.667	762.667	762.667	762.152
177.5	765.754	766.269	766.269	766.269	765.754
180.0	767.813	767.813	767.813	767.813	767.813

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-MLB-ITL85132-KPL2008-6.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1394.52	N.A.	36.00
0-30	1831.07	N.A.	47.30
0-40	1898.25	N.A.	49.00
0-60	1909.6	N.A.	49.30
0-80	1911.25	N.A.	49.30
0-90	1911.32	N.A.	49.30
10-90	1406.69	N.A.	36.30
20-40	503.74	N.A.	13.00
20-50	512.01	N.A.	13.20
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	169.42	N.A.	4.40
90-120	390.97	N.A.	10.10
90-130	689.80	N.A.	17.80
90-150	1385.17	N.A.	35.80
90-180	1962.43	N.A.	50.70
110-180	1793.02	N.A.	46.30
0-180	3873.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	504.63
10-20	889.89
20-30	436.56
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	39.66
100-110	129.76
110-120	221.56
120-130	298.83
130-140	346.11
140-150	349.26
150-160	300.94
160-170	204.02
170-180	72.31

IES INDOOR REPORT

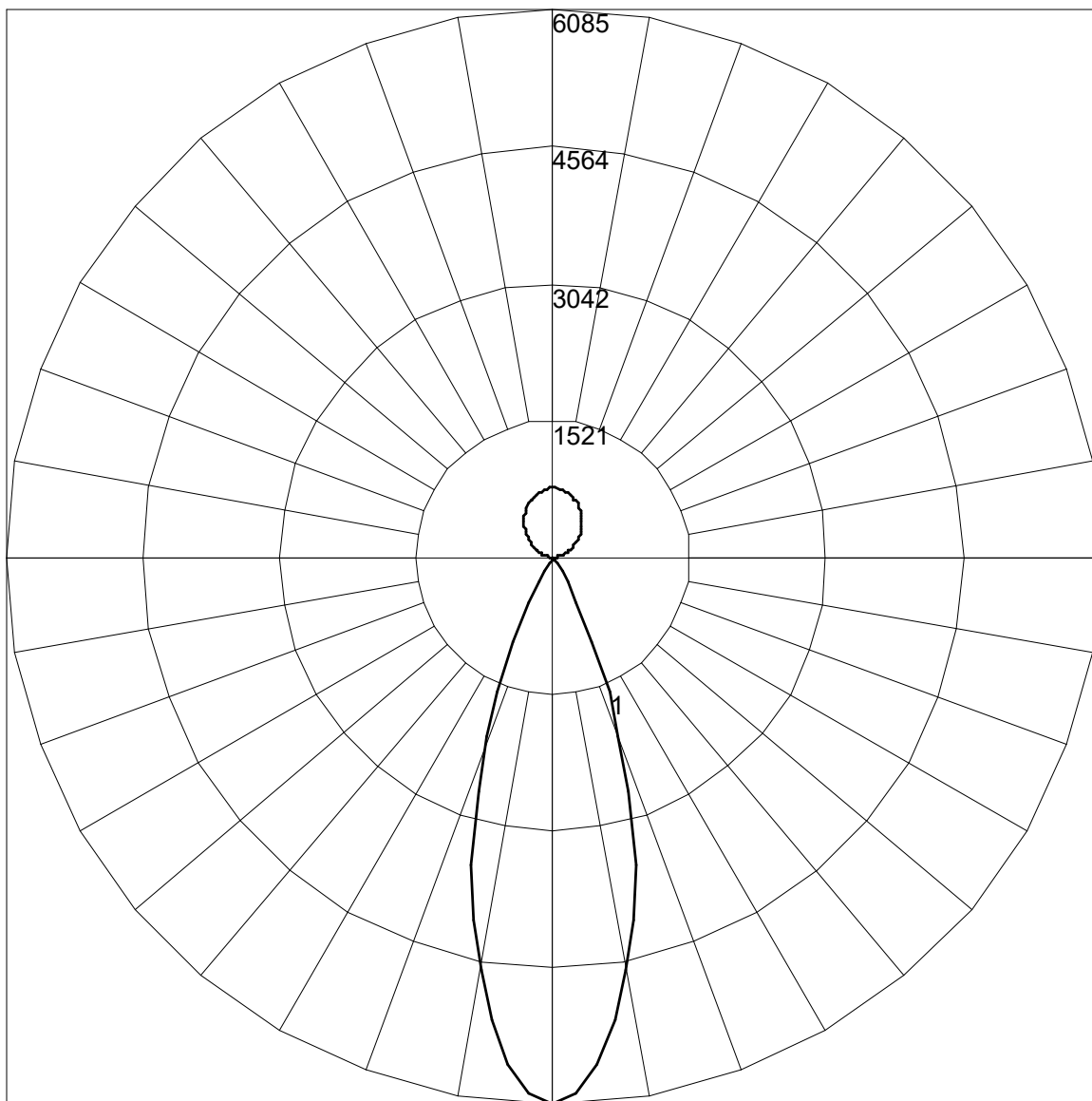
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	101	97	95	92	93	90	88	86	77	75	74	65	64	63	54	53	53	47
2	95	89	85	81	88	83	80	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	73	69	67	64	62	58	56	54	50	49	48	44
4	84	76	71	66	78	72	67	63	63	60	57	55	53	51	48	47	45	42
5	80	71	65	61	74	67	62	58	60	56	53	53	50	48	46	45	43	41
6	75	67	61	56	71	63	58	54	57	53	50	50	48	46	45	43	42	39
7	72	63	57	53	67	60	54	51	54	50	47	48	46	44	43	41	40	38
8	68	59	53	49	64	56	51	48	51	47	45	46	44	42	42	40	38	37
9	65	56	50	47	61	54	49	45	49	45	42	44	42	40	40	38	37	35
10	62	53	48	44	59	51	46	43	47	43	40	43	40	38	39	37	36	34

POLAR GRAPH



Maximum Candela = 6084.714 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)