

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-S-835-F-MLB-ITL85132-KPL2008-6.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-6.010 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-S-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.4 WATTS

[ABSOLUTE]LUMENS]2968

[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	2968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	32.4
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	154	92	96
55	68	36	40
65	33	18	20
75	18	10	10
85	6	3	3

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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	3202.124	3202.124	3202.124	3202.124	3202.124
2.5	3121.298	3149.542	3136.181	3132.559	3145.722
5.0	2941.910	2982.925	2963.285	2962.139	2979.470
7.5	2670.697	2721.286	2722.375	2726.039	2738.101
10.0	2321.774	2365.572	2440.704	2459.881	2462.534
12.5	1863.007	1933.788	2110.597	2172.410	2176.511
15.0	1497.215	1572.826	1761.903	1889.135	1862.856
17.5	1126.156	1231.647	1496.147	1530.269	1446.070
20.0	761.583	875.839	1110.470	1149.839	1125.619
22.5	474.493	611.282	815.553	865.016	853.261
25.0	279.383	336.992	559.453	609.223	540.141
27.5	166.081	217.136	333.111	338.731	301.282
30.0	94.121	125.844	198.053	188.557	165.827
32.5	46.397	71.939	101.693	98.091	92.250
35.0	21.907	31.244	54.703	55.165	46.135
37.5	14.633	15.145	27.302	26.750	17.094
40.0	11.670	10.544	13.324	10.855	7.343
42.5	9.161	8.285	6.447	5.243	5.763
45.0	7.176	6.398	4.265	4.016	4.449
47.5	5.665	4.846	3.160	3.037	3.414
50.0	4.261	3.692	2.366	2.292	2.628
52.5	3.328	2.804	1.789	1.768	2.002
55.0	2.579	2.153	1.359	1.339	1.527
57.5	1.985	1.650	1.040	1.019	1.167
60.0	1.527	1.281	0.810	0.794	0.909
62.5	1.191	0.978	0.626	0.614	0.708
65.0	0.925	0.761	0.491	0.479	0.557
67.5	0.716	0.585	0.385	0.372	0.422
70.0	0.548	0.450	0.303	0.291	0.327
72.5	0.413	0.340	0.229	0.221	0.237
75.0	0.299	0.250	0.172	0.168	0.168
77.5	0.213	0.180	0.131	0.127	0.131
80.0	0.139	0.127	0.090	0.086	0.078
82.5	0.090	0.074	0.053	0.045	0.045
85.0	0.037	0.033	0.016	0.020	0.016
87.5	0.008	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-S-835-F-MLB-ITL85132-KPL2008-6.010.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-S-835-F-MLB-ITL85132-KPL2008-6.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	733.87	N.A.	24.70
0-30	963.61	N.A.	32.50
0-40	998.97	N.A.	33.70
0-60	1004.94	N.A.	33.90
0-80	1005.81	N.A.	33.90
0-90	1005.85	N.A.	33.90
10-90	740.28	N.A.	24.90
20-40	265.10	N.A.	8.90
20-50	269.45	N.A.	9.10
40-70	6.61	N.A.	0.20
60-80	0.87	N.A.	0.00
70-80	0.23	N.A.	0.00
80-90	0.04	N.A.	0.00
90-110	169.42	N.A.	5.70
90-120	390.97	N.A.	13.20
90-130	689.80	N.A.	23.20
90-150	1385.17	N.A.	46.70
90-180	1962.43	N.A.	66.10
110-180	1793.02	N.A.	60.40
0-180	2968.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	265.56
10-20	468.31
20-30	229.74
30-40	35.35
40-50	4.35
50-60	1.62
60-70	0.64
70-80	0.23
80-90	0.04
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

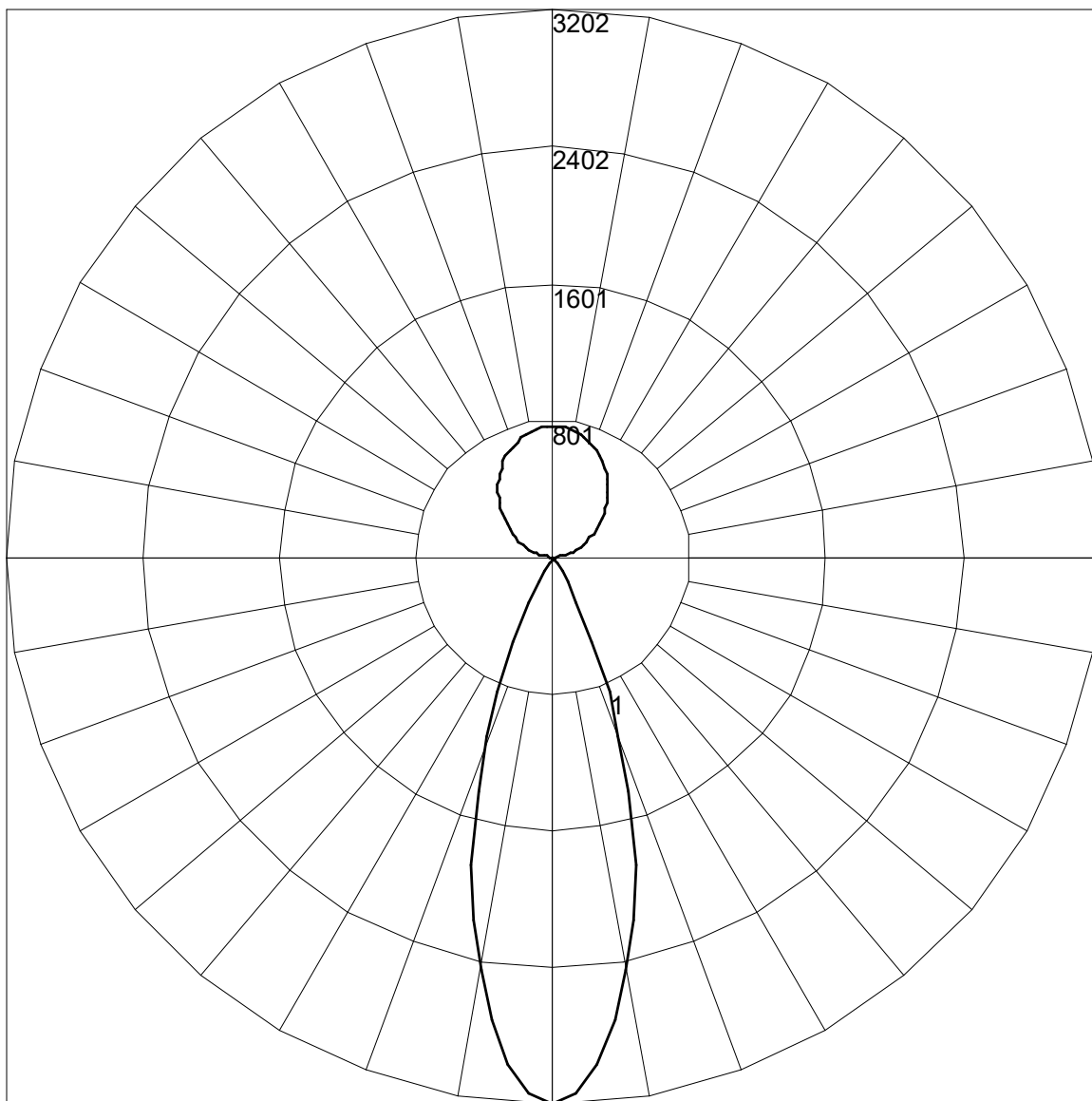
PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-F-MLB-ITL85132-KPL2008-6.010.IES

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	96	93	90	87	87	84	82	79	68	66	65	53	52	51	40	39	39	33
2	90	84	79	75	81	76	73	69	63	60	58	50	48	47	38	37	37	31
3	84	76	71	66	76	70	65	61	58	55	52	47	45	43	36	35	35	30
4	78	70	64	59	71	64	59	55	54	50	47	44	42	40	35	34	33	29
5	73	64	58	53	67	59	54	50	50	46	44	42	39	37	33	32	31	28
6	69	59	53	49	63	55	50	46	47	43	40	39	37	35	32	31	30	27
7	65	55	49	45	60	51	46	42	44	40	38	37	35	33	31	30	28	26
8	61	52	45	41	57	48	43	39	42	38	35	36	33	31	30	28	27	25
9	58	48	42	38	54	45	40	37	40	36	33	34	31	30	29	27	26	24
10	55	46	40	36	51	43	38	34	38	34	31	33	30	28	28	26	25	23

POLAR GRAPH



Maximum Candela = 3202.124 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)