

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-S-S-835-F-MLB-ITL85132-KPL2008-6.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-6.001 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-S-S-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 30.8 WATTS
[ABSOLUTE]LUMENS]2568
[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	2567
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	28.4
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	3202.348	3202.348	3202.348	3202.348	3202.348
2.5	3121.517	3149.762	3136.401	3132.778	3145.943
5.0	2942.116	2983.134	2963.493	2962.347	2979.679
7.5	2670.885	2721.477	2722.566	2726.230	2738.293
10.0	2321.937	2365.738	2440.875	2460.054	2462.706
12.5	1863.138	1933.924	2110.746	2172.562	2176.664
15.0	1497.320	1572.937	1762.027	1889.267	1862.986
17.5	1126.234	1231.734	1496.252	1530.376	1446.171
20.0	761.637	875.901	1110.548	1149.920	1125.698
22.5	474.526	611.325	815.611	865.077	853.320
25.0	279.402	337.015	559.492	609.266	540.179
27.5	166.092	217.151	333.134	338.755	301.303
30.0	94.127	125.853	198.067	188.570	165.839
32.5	46.401	71.944	101.701	98.098	92.257
35.0	21.909	31.246	54.706	55.169	46.139
37.5	14.635	15.146	27.304	26.751	17.095
40.0	11.671	10.545	13.325	10.856	7.344
42.5	9.161	8.285	6.447	5.244	5.764
45.0	7.176	6.398	4.265	4.016	4.450
47.5	5.665	4.847	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	0.811	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	0.373	0.422
70.0	0.549	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	12.281	12.281	12.281	13.509	13.509
95.0	29.064	27.836	27.836	28.246	28.655
97.5	45.848	44.620	43.801	44.211	44.211
100.0	63.041	60.994	60.994	60.994	60.585
102.5	81.053	79.415	78.596	78.187	78.187
105.0	99.883	98.655	96.608	96.199	95.789
107.5	119.123	117.895	115.439	115.029	114.620
110.0	139.181	137.953	135.906	135.088	133.860
112.5	160.058	158.012	156.784	154.737	153.509
115.0	180.936	179.708	178.889	174.795	173.977
117.5	203.041	200.994	200.994	196.082	195.263
120.0	225.556	222.281	223.099	218.187	216.550
122.5	246.842	243.567	245.205	241.111	238.246
125.0	270.585	265.673	267.310	263.216	261.170
127.5	293.918	288.596	289.415	286.140	285.322
130.0	316.842	311.520	312.339	308.246	308.655
132.5	339.766	334.035	335.263	331.170	331.170

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-F-MLB-ITL85132-KPL2008-6.001.IES****CANDELA TABULATION - (Cont.)**

135.0	361.871	356.550	358.187	354.503	354.503
137.5	384.386	379.064	380.702	377.427	377.018
140.0	406.901	401.579	402.807	400.760	399.532
142.5	428.187	422.456	424.094	422.047	420.409
145.0	449.883	443.743	445.380	443.743	440.877
147.5	469.942	463.801	465.848	463.392	460.526
150.0	489.181	483.041	485.497	482.632	480.175
152.5	507.602	501.462	503.918	501.462	499.006
155.0	525.205	519.064	521.930	519.474	517.018
157.5	540.351	534.620	537.895	535.439	532.982
160.0	555.088	549.766	552.632	550.175	547.719
162.5	567.778	563.275	565.322	563.684	562.047
165.0	579.240	575.146	576.374	575.556	574.327
167.5	587.836	585.380	586.199	585.380	584.971
170.0	595.614	594.386	594.795	593.977	593.567
172.5	602.164	601.754	601.754	601.345	601.345
175.0	606.667	606.667	606.667	606.667	606.257
177.5	609.123	609.532	609.532	609.532	609.123
180.0	610.760	610.760	610.760	610.760	610.760

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-F-MLB-ITL85132-KPL2008-6.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	733.92	N.A.	28.60
0-30	963.68	N.A.	37.50
0-40	999.04	N.A.	38.90
0-60	1005.01	N.A.	39.20
0-80	1005.88	N.A.	39.20
0-90	1005.92	N.A.	39.20
10-90	740.33	N.A.	28.80
20-40	265.11	N.A.	10.30
20-50	269.47	N.A.	10.50
40-70	6.61	N.A.	0.30
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	134.76	N.A.	5.20
90-120	311.00	N.A.	12.10
90-130	548.70	N.A.	21.40
90-150	1101.84	N.A.	42.90
90-180	1561.03	N.A.	60.80
110-180	1426.26	N.A.	55.60
0-180	2566.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	265.58
10-20	468.34
20-30	229.76
30-40	35.36
40-50	4.35
50-60	1.62
60-70	0.64
70-80	0.23
80-90	0.04
90-100	31.55
100-110	103.22
110-120	176.24
120-130	237.70
130-140	275.32
140-150	277.82
150-160	239.38
160-170	162.28
170-180	57.52

IES INDOOR REPORT

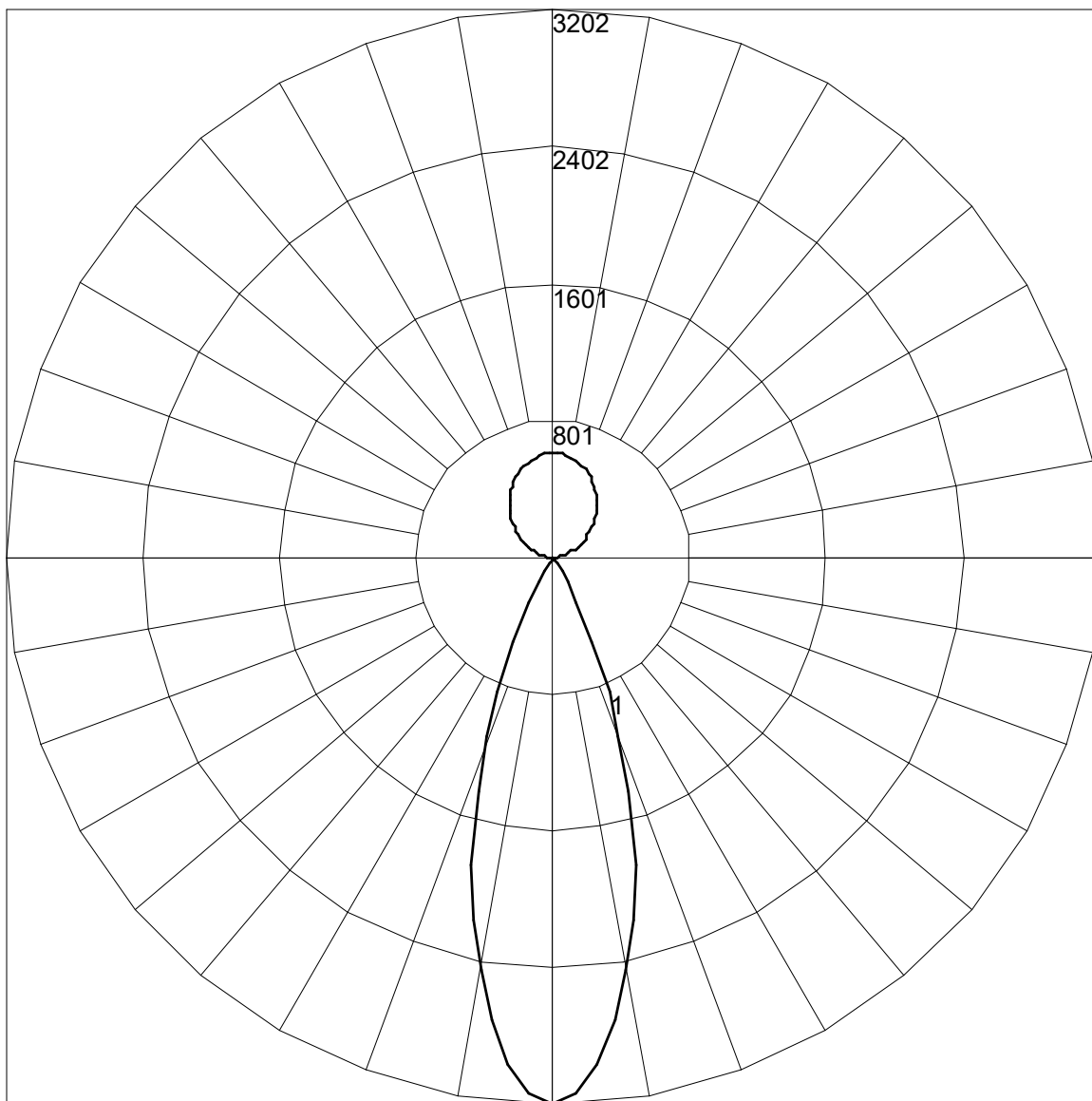
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	43	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	53	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 = 3202.348 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)