

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-B-835-F-MLB-ITL85132-KPL2008-6.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-6.013 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-B-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.4 WATTS

[ABSOLUTE]LUMENS]2827

[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	2825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	32.4
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	194	115	120
55	86	45	51
65	42	22	25
75	22	13	12
85	8	4	4

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	4024.747	4024.747	4024.747	4024.747	4024.747
2.5	3923.156	3958.656	3941.863	3937.310	3953.856
5.0	3697.684	3749.235	3724.550	3723.110	3744.893
7.5	3356.797	3420.382	3421.751	3426.355	3441.517
10.0	2918.236	2973.285	3067.719	3091.823	3095.156
12.5	2341.612	2430.577	2652.808	2730.500	2735.655
15.0	1881.849	1976.884	2214.535	2374.452	2341.422
17.5	1415.464	1548.057	1880.506	1923.393	1817.564
20.0	957.233	1100.841	1395.749	1445.232	1414.790
22.5	596.390	768.320	1025.068	1087.238	1072.463
25.0	351.156	423.564	703.176	765.732	678.903
27.5	208.747	272.918	418.687	425.751	378.681
30.0	118.300	158.173	248.933	236.997	208.428
32.5	58.317	90.421	127.818	123.291	115.949
35.0	27.535	39.271	68.756	69.337	57.987
37.5	18.393	19.036	34.316	33.622	21.485
40.0	14.668	13.253	16.746	13.644	9.230
42.5	11.514	10.413	8.103	6.591	7.244
45.0	9.019	8.041	5.361	5.047	5.592
47.5	7.120	6.091	3.972	3.817	4.291
50.0	5.356	4.641	2.974	2.881	3.303
52.5	4.183	3.524	2.248	2.223	2.516
55.0	3.241	2.706	1.708	1.682	1.919
57.5	2.495	2.073	1.307	1.281	1.466
60.0	1.919	1.610	1.019	0.998	1.142
62.5	1.497	1.230	0.787	0.772	0.890
65.0	1.163	0.957	0.617	0.602	0.700
67.5	0.900	0.736	0.484	0.468	0.530
70.0	0.689	0.566	0.381	0.365	0.412
72.5	0.520	0.427	0.288	0.278	0.298
75.0	0.376	0.314	0.216	0.211	0.211
77.5	0.268	0.226	0.165	0.159	0.165
80.0	0.175	0.159	0.113	0.108	0.098
82.5	0.113	0.093	0.067	0.057	0.057
85.0	0.046	0.041	0.021	0.026	0.021
87.5	0.010	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	44.210	44.210
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	160.059	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	225.555	222.281	223.099	218.187	216.550
122.5	246.842	243.567	245.205	241.111	238.246
125.0	270.585	265.672	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-B-835-F-MLB-ITL85132-KPL2008-6.013.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	377.017
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	469.941	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	535.438	532.982
160.0	555.088	549.766	552.631	550.175	547.719
162.5	567.778	563.275	565.322	563.684	562.047
165.0	579.240	575.146	576.374	575.555	574.328
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

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Zone	Lumens	%Lamp	%Fixt
0-20	922.40	N.A.	32.60
0-30	1211.17	N.A.	42.90
0-40	1255.6	N.A.	44.40
0-60	1263.11	N.A.	44.70
0-80	1264.2	N.A.	44.70
0-90	1264.25	N.A.	44.70
10-90	930.46	N.A.	32.90
20-40	333.20	N.A.	11.80
20-50	338.67	N.A.	12.00
40-70	8.31	N.A.	0.30
60-80	1.09	N.A.	0.00
70-80	0.29	N.A.	0.00
80-90	0.05	N.A.	0.00
90-110	134.76	N.A.	4.80
90-120	311.00	N.A.	11.00
90-130	548.70	N.A.	19.40
90-150	1101.84	N.A.	39.00
90-180	1561.03	N.A.	55.30
110-180	1426.26	N.A.	50.50
0-180	2825.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	333.79
10-20	588.62
20-30	288.76
30-40	44.44
40-50	5.47
50-60	2.03
60-70	0.80
70-80	0.29
80-90	0.05
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

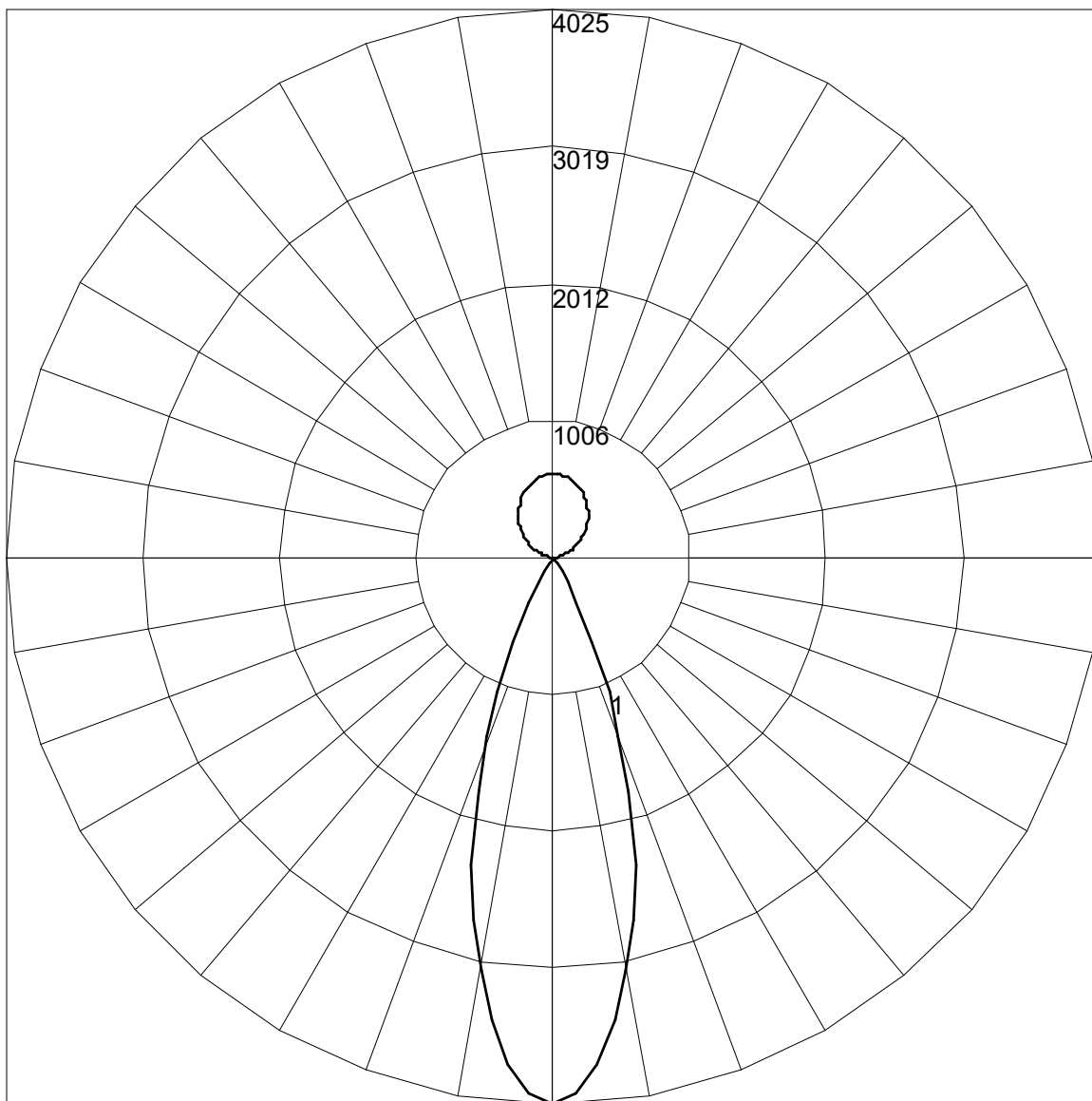
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	99	96	93	91	91	88	86	84	74	73	71	61	60	60	49	49	48	43
2	93	88	83	79	86	81	77	74	69	67	64	58	56	55	48	47	46	41
3	87	81	75	71	81	75	70	67	64	61	59	55	53	51	46	45	44	40
4	82	74	69	64	76	70	65	61	60	57	54	52	50	48	44	43	42	38
5	78	69	63	59	72	65	60	56	57	53	50	49	47	45	42	41	40	37
6	74	64	58	54	68	61	56	52	54	50	47	47	45	43	41	39	38	36
7	70	60	54	50	65	57	52	48	51	47	44	45	42	40	40	38	37	34
8	66	57	51	47	62	54	49	45	48	45	42	43	40	38	38	36	35	33
9	63	54	48	44	59	51	46	43	46	42	40	41	39	37	37	35	34	32
10	60	51	45	42	57	49	44	40	44	40	38	40	37	35	36	34	33	31

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POLAR GRAPH



Maximum Candela = 4024.747 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)