

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-V-835-F-MLW-ITL85132-ITL92590.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.013 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]02/03/23

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-S-V-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 50.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 51.6 WATTS

[ABSOLUTE LUMENS]4746

[OTHER]see www.finelite.com for source files ITL85132 and ITL92590. 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	4746
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	50.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.58
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	4058	3908	3994
55	3414	3203	3176
65	2910	2694	2586
75	2522	2288	2112
85	2090	1916	1568

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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	7988.000	7988.000	7988.000	7988.000	7988.000
2.5	7845.000	7851.000	7842.000	7847.000	7839.000
5.0	7469.000	7460.000	7466.000	7457.000	7460.000
7.5	6838.000	6844.000	6920.000	6911.000	6929.000
10.0	5920.000	6010.000	6209.000	6293.000	6287.000
12.5	4897.000	5035.000	5402.000	5621.000	5584.000
15.0	3969.000	4086.000	4557.000	4880.000	4807.000
17.5	3069.000	3255.000	3745.000	3989.000	3825.000
20.0	2188.000	2432.000	2997.000	3117.000	3039.000
22.5	1447.000	1701.000	2250.000	2419.000	2320.000
25.0	970.000	1127.000	1622.000	1725.000	1532.000
27.5	676.000	763.000	1129.000	1116.000	977.000
30.0	484.000	547.000	734.000	710.000	651.000
32.5	348.000	400.000	478.000	488.000	466.000
35.0	276.000	300.000	352.000	366.000	340.000
37.5	246.000	250.000	280.000	282.000	263.000
40.0	225.000	225.000	233.000	231.000	226.000
42.5	207.000	206.000	202.000	204.000	204.000
45.0	189.000	188.000	182.000	185.000	186.000
47.5	172.000	171.000	166.000	167.000	168.000
50.0	157.000	156.000	150.000	151.000	151.000
52.5	142.000	141.000	135.000	135.000	135.000
55.0	129.000	127.000	121.000	120.000	120.000
57.5	116.000	114.000	109.000	107.000	107.000
60.0	103.000	102.000	97.000	95.000	95.000
62.5	92.000	91.000	86.000	84.000	82.000
65.0	81.000	79.000	75.000	73.000	72.000
67.5	70.000	69.000	66.000	63.000	62.000
70.0	61.000	60.000	56.000	54.000	52.000
72.5	52.000	51.000	48.000	45.000	44.000
75.0	43.000	42.000	39.000	37.000	36.000
77.5	34.000	34.000	31.000	29.000	28.000
80.0	25.000	26.000	24.000	22.000	21.000
82.5	18.000	18.000	17.000	16.000	15.000
85.0	12.000	11.000	11.000	10.000	9.000
87.5	5.000	5.000	5.000	5.000	4.000
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	78.597	78.187	78.187
105.0	99.883	98.655	96.608	96.199	95.790
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	225.556	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	311.521	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-V-835-F-MLW-ITL85132-ITL92590.013.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	469.942	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-V-835-F-MLW-ITL85132-ITL92590.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1889.08	N.A.	39.80
0-30	2573.35	N.A.	54.20
0-40	2800.31	N.A.	59.00
0-60	3055.44	N.A.	64.40
0-80	3173.07	N.A.	66.90
0-90	3185.1	N.A.	67.10
10-90	2514.41	N.A.	53.00
20-40	911.23	N.A.	19.20
20-50	1055.5	N.A.	22.20
40-70	330.88	N.A.	7.00
60-80	117.62	N.A.	2.50
70-80	41.87	N.A.	0.90
80-90	12.04	N.A.	0.30
90-110	134.76	N.A.	2.80
90-120	311.00	N.A.	6.60
90-130	548.70	N.A.	11.60
90-150	1101.84	N.A.	23.20
90-180	1561.03	N.A.	32.90
110-180	1426.26	N.A.	30.10
0-180	4746.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	670.69
10-20	1218.39
20-30	684.27
30-40	226.96
40-50	144.27
50-60	110.87
60-70	75.75
70-80	41.87
80-90	12.04
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

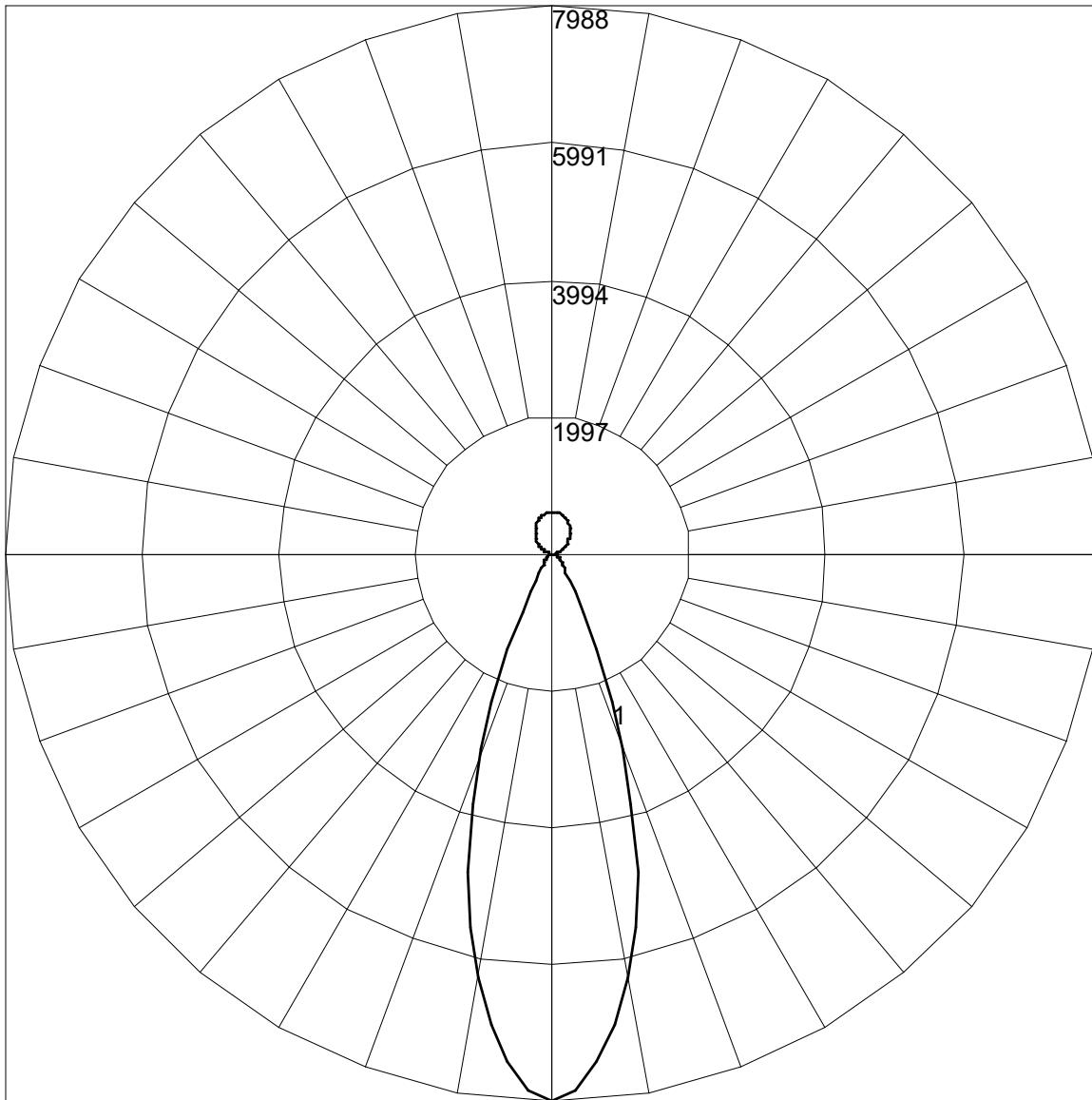
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	105	102	99	96	99	96	94	92	86	84	83	77	76	75	68	68	67	63
2	99	93	89	85	93	89	85	81	80	77	75	72	70	68	65	63	62	59
3	93	86	81	76	88	82	77	74	75	71	68	68	65	63	62	60	58	55
4	88	80	74	70	83	77	71	67	70	66	63	64	61	59	59	57	55	52
5	83	75	69	64	79	72	66	62	66	62	59	61	58	55	56	54	52	50
6	79	70	64	60	75	67	62	58	63	58	55	58	55	52	54	51	49	47
7	75	66	60	56	72	64	58	54	59	55	52	55	52	49	52	49	47	45
8	72	62	56	52	69	60	55	51	57	52	49	53	50	47	50	47	45	43
9	69	59	53	49	66	57	52	49	54	50	47	51	47	45	48	45	43	41
10	66	56	51	47	63	55	50	46	52	47	45	49	45	43	46	43	41	40

POLAR GRAPH



Maximum Candela = 7988 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)