

# 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-H-V-835-F-MLW-ITL85132-ITL92590.007.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.007 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]02/03/23

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 64.0 WATTS

[ABSOLUTE]LUMENS]6146

[OTHER]see [www.finelite.com](http://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](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	6151
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	64
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	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	23.333	23.333	23.333	25.667	25.667
95.0	55.222	52.889	52.889	53.667	54.444
97.5	87.111	84.778	83.222	84.000	84.000
100.0	119.778	115.889	115.889	115.889	115.111
102.5	154.000	150.889	149.333	148.556	148.556
105.0	189.778	187.444	183.556	182.778	182.000
107.5	226.333	224.000	219.333	218.556	217.778
110.0	264.445	262.111	258.222	256.667	254.333
112.5	304.111	300.222	297.889	294.000	291.667
115.0	343.778	341.445	339.889	332.111	330.555
117.5	385.778	381.889	381.889	372.555	371.000
120.0	428.555	422.333	423.889	414.555	411.445
122.5	469.000	462.778	465.889	458.111	452.667
125.0	514.111	504.778	507.889	500.111	496.222
127.5	558.444	548.333	549.889	543.667	542.111
130.0	602.000	591.889	593.444	585.667	586.444
132.5	645.556	634.667	637.000	629.222	629.222

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-MLW-ITL85132-ITL92590.007.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	687.556	677.444	680.556	673.556	673.556
<b>137.5</b>	730.333	720.222	723.333	717.111	716.333
<b>140.0</b>	773.111	763.000	765.333	761.444	759.111
<b>142.5</b>	813.556	802.667	805.778	801.889	798.778
<b>145.0</b>	854.778	843.111	846.222	843.111	837.667
<b>147.5</b>	892.889	881.222	885.111	880.444	875.000
<b>150.0</b>	929.444	917.778	922.444	917.000	912.333
<b>152.5</b>	964.444	952.778	957.444	952.778	948.111
<b>155.0</b>	997.889	986.222	991.667	987.000	982.333
<b>157.5</b>	1026.667	1015.778	1022.000	1017.333	1012.667
<b>160.0</b>	1054.667	1044.555	1050.000	1045.333	1040.667
<b>162.5</b>	1078.778	1070.222	1074.111	1071.000	1067.889
<b>165.0</b>	1100.555	1092.778	1095.111	1093.555	1091.222
<b>167.5</b>	1116.889	1112.222	1113.778	1112.222	1111.445
<b>170.0</b>	1131.667	1129.333	1130.111	1128.555	1127.778
<b>172.5</b>	1144.111	1143.333	1143.333	1142.555	1142.555
<b>175.0</b>	1152.667	1152.667	1152.667	1152.667	1151.889
<b>177.5</b>	1157.333	1158.111	1158.111	1158.111	1157.333
<b>180.0</b>	1160.445	1160.445	1160.445	1160.445	1160.445

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-MLW-ITL85132-ITL92590.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1889.08	N.A.	30.70
0-30	2573.35	N.A.	41.80
0-40	2800.31	N.A.	45.50
0-60	3055.44	N.A.	49.70
0-80	3173.07	N.A.	51.60
0-90	3185.1	N.A.	51.80
10-90	2514.41	N.A.	40.90
20-40	911.23	N.A.	14.80
20-50	1055.5	N.A.	17.20
40-70	330.88	N.A.	5.40
60-80	117.62	N.A.	1.90
70-80	41.87	N.A.	0.70
80-90	12.04	N.A.	0.20
90-110	256.05	N.A.	4.20
90-120	590.90	N.A.	9.60
90-130	1042.54	N.A.	16.90
90-150	2093.49	N.A.	34.00
90-180	2965.95	N.A.	48.20
110-180	2709.9	N.A.	44.10
0-180	6151.05	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	59.94
100-110	196.12
110-120	334.85
120-130	451.64
130-140	523.10
140-150	527.85
150-160	454.83
160-170	308.34
170-180	109.29

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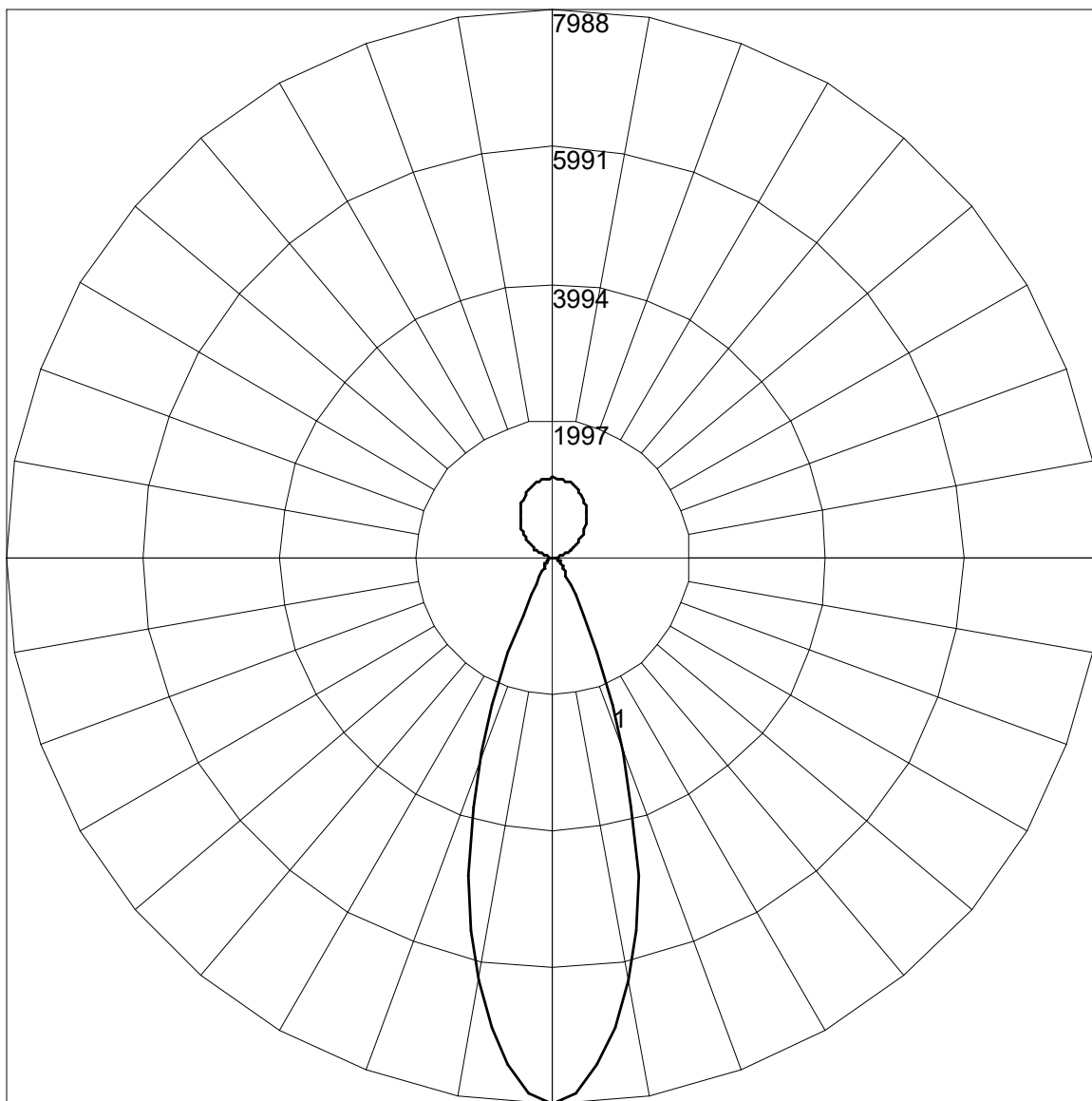
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	101	97	94	91	93	90	88	86	77	76	74	66	65	63	55	54	53	48
2	94	88	84	80	87	82	78	75	71	69	66	61	59	58	52	51	50	45
3	88	81	75	71	82	76	71	67	66	63	60	57	55	53	49	48	46	43
4	83	74	68	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	62	58	73	65	59	55	58	54	50	51	48	46	45	43	41	38
6	73	64	58	53	69	61	55	51	54	50	47	48	45	43	43	41	39	36
7	70	60	54	49	65	57	51	47	51	47	44	46	43	40	41	39	37	35
8	66	56	50	46	62	53	48	44	48	44	41	44	41	38	39	37	35	33
9	63	53	47	43	59	51	45	42	46	42	39	42	39	36	38	35	34	32
10	60	50	44	40	56	48	43	39	44	40	37	40	37	35	36	34	32	31

POLAR GRAPH



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