

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-B-835-F-MLW-ITL85132-ITL92590.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.008 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-B-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 46.8 WATTS

[ABSOLUTE]LUMENS]4602

[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	4606
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	46
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	2089	2012	2056
55	1758	1649	1635
65	1498	1387	1331
75	1298	1178	1087
85	1076	986	807

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-MLW-ITL85132-ITL92590.008.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	4112.015	4112.015	4112.015	4112.015	4112.015
2.5	4038.402	4041.491	4036.858	4039.432	4035.314
5.0	3844.847	3840.214	3843.303	3838.670	3840.214
7.5	3520.025	3523.113	3562.236	3557.603	3566.869
10.0	3047.462	3093.792	3196.232	3239.473	3236.384
12.5	2520.848	2591.887	2780.809	2893.545	2874.498
15.0	2043.138	2103.367	2345.825	2512.097	2474.519
17.5	1579.841	1675.589	1927.829	2053.434	1969.011
20.0	1126.326	1251.930	1542.778	1604.551	1564.398
22.5	744.878	875.631	1158.242	1245.238	1194.276
25.0	499.331	580.150	834.963	887.985	788.634
27.5	347.987	392.773	581.180	574.488	502.934
30.0	249.151	281.581	377.844	365.490	335.118
32.5	179.141	205.910	246.062	251.210	239.885
35.0	142.078	154.432	181.201	188.407	175.023
37.5	126.634	128.694	144.137	145.166	135.386
40.0	115.824	115.824	119.942	118.913	116.339
42.5	106.558	106.043	103.984	105.014	105.014
45.0	97.292	96.778	93.689	95.233	95.748
47.5	88.541	88.026	85.453	85.967	86.482
50.0	80.820	80.305	77.216	77.731	77.731
52.5	73.098	72.583	69.495	69.495	69.495
55.0	66.406	65.376	62.288	61.773	61.773
57.5	59.714	58.684	56.110	55.081	55.081
60.0	53.022	52.507	49.933	48.904	48.904
62.5	47.359	46.844	44.271	43.241	42.212
65.0	41.697	40.667	38.608	37.578	37.064
67.5	36.034	35.519	33.975	32.431	31.916
70.0	31.401	30.886	28.827	27.798	26.768
72.5	26.768	26.253	24.709	23.165	22.650
75.0	22.135	21.620	20.076	19.047	18.532
77.5	17.502	17.502	15.958	14.928	14.414
80.0	12.869	13.384	12.355	11.325	10.810
82.5	9.266	9.266	8.751	8.236	7.722
85.0	6.177	5.662	5.662	5.148	4.633
87.5	2.574	2.574	2.574	2.574	2.059
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-B-835-F-MLW-ITL85132-ITL92590.008.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-MLW-ITL85132-ITL92590.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	972.45	N.A.	21.10
0-30	1324.69	N.A.	28.80
0-40	1441.53	N.A.	31.30
0-60	1572.86	N.A.	34.20
0-80	1633.41	N.A.	35.50
0-90	1639.61	N.A.	35.60
10-90	1294.35	N.A.	28.10
20-40	469.08	N.A.	10.20
20-50	543.34	N.A.	11.80
40-70	170.33	N.A.	3.70
60-80	60.55	N.A.	1.30
70-80	21.56	N.A.	0.50
80-90	6.20	N.A.	0.10
90-110	256.05	N.A.	5.60
90-120	590.90	N.A.	12.80
90-130	1042.54	N.A.	22.60
90-150	2093.49	N.A.	45.50
90-180	2965.95	N.A.	64.40
110-180	2709.9	N.A.	58.80
0-180	4605.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	345.26
10-20	627.19
20-30	352.24
30-40	116.84
40-50	74.26
50-60	57.07
60-70	38.99
70-80	21.56
80-90	6.20
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

IES INDOOR REPORT

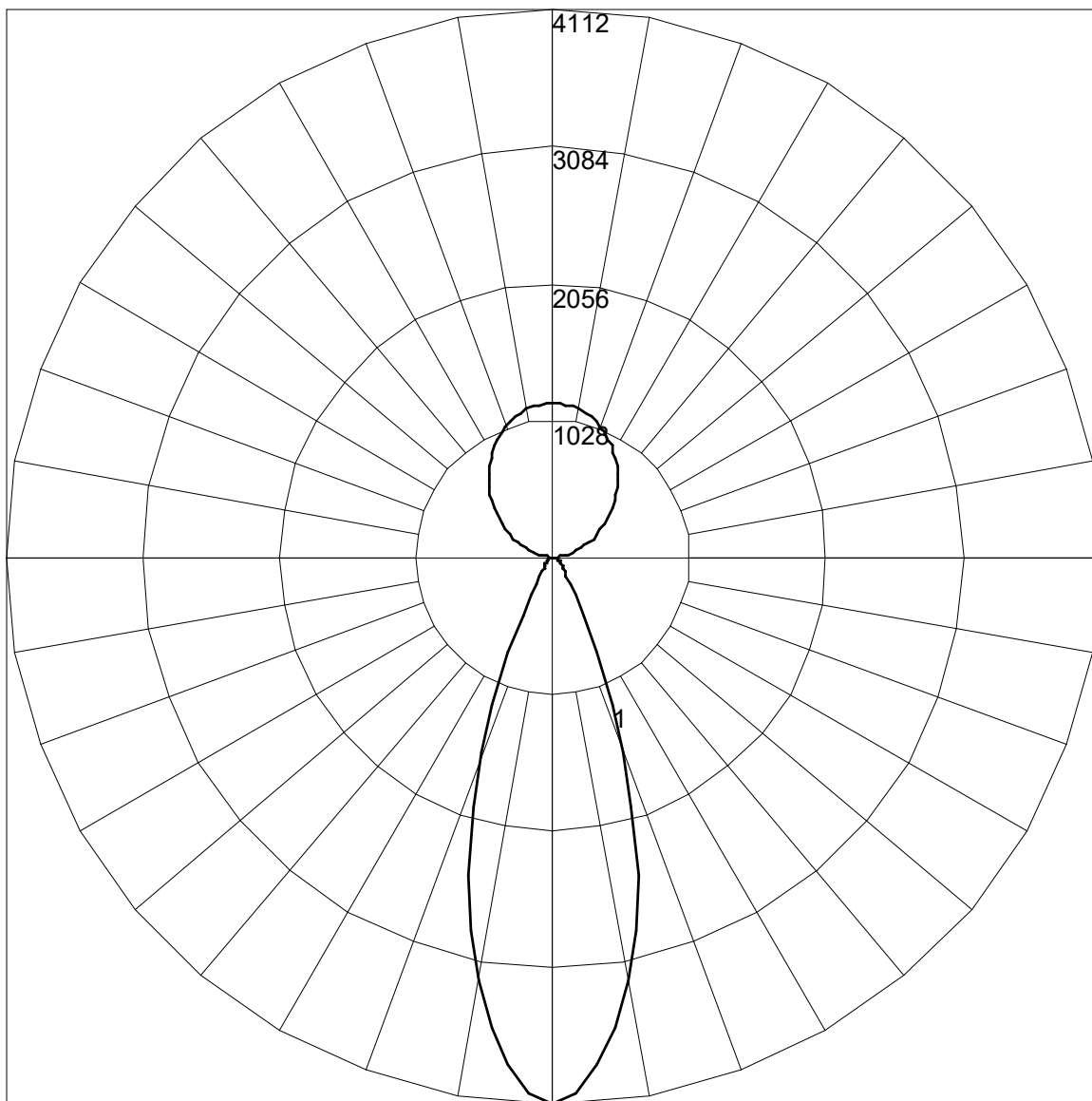
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	96	93	89	87	87	84	82	79	68	67	65	54	53	52	40	40	39	33
2	89	83	78	74	81	76	72	68	62	60	57	50	48	47	38	37	36	31
3	83	75	69	65	75	69	64	60	57	54	51	46	44	42	36	35	34	29
4	77	68	62	57	70	63	58	53	53	49	46	43	41	39	34	33	32	28
5	72	63	56	51	66	58	52	48	49	45	42	40	38	36	32	31	30	26
6	68	58	51	46	62	53	48	44	45	41	38	38	35	33	31	29	28	25
7	64	53	47	42	58	50	44	40	42	38	35	36	33	31	29	28	26	24
8	60	50	43	39	55	46	41	37	40	36	33	34	31	29	28	26	25	23
9	57	46	40	36	52	43	38	34	38	34	31	32	29	27	27	25	24	22
10	54	43	37	33	49	41	35	32	36	32	29	31	28	26	26	24	23	21

POLAR GRAPH



Maximum Candela = 4112.015 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)