

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-MLW-ITL85132-ITL92590.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.015 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-B-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.4 WATTS

[ABSOLUTE]LUMENS]3198

[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	3201
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	2089	2012	2056
55	1758	1649	1635
65	1498	1387	1331
75	1298	1178	1087
85	1076	986	807

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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	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	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-B-835-F-MLW-ITL85132-ITL92590.015.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-B-835-F-MLW-ITL85132-ITL92590.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	972.45	N.A.	30.40
0-30	1324.69	N.A.	41.40
0-40	1441.53	N.A.	45.00
0-60	1572.86	N.A.	49.10
0-80	1633.41	N.A.	51.00
0-90	1639.61	N.A.	51.20
10-90	1294.35	N.A.	40.40
20-40	469.08	N.A.	14.70
20-50	543.34	N.A.	17.00
40-70	170.33	N.A.	5.30
60-80	60.55	N.A.	1.90
70-80	21.56	N.A.	0.70
80-90	6.20	N.A.	0.20
90-110	134.76	N.A.	4.20
90-120	311.00	N.A.	9.70
90-130	548.70	N.A.	17.10
90-150	1101.84	N.A.	34.40
90-180	1561.03	N.A.	48.80
110-180	1426.26	N.A.	44.60
0-180	3200.64	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	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

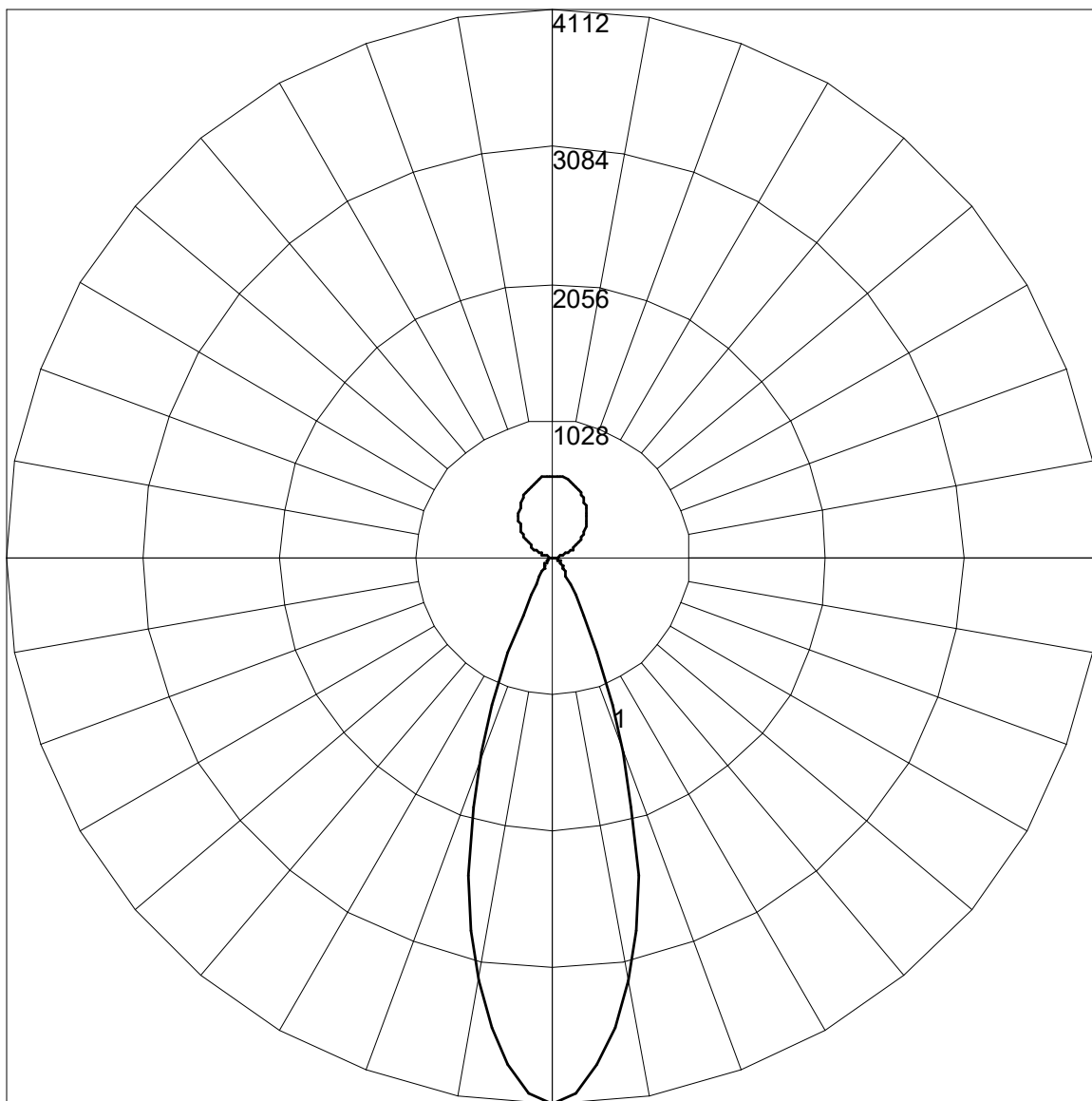
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	100	97	94	91	93	90	88	85	77	75	74	65	64	63	54	54	53	48
2	94	88	83	79	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	75	70	82	76	71	67	66	62	60	57	55	53	49	47	46	42
4	83	74	68	63	77	70	64	60	61	57	54	54	51	49	46	45	43	40
5	78	69	62	58	72	65	59	55	57	53	50	51	48	45	44	42	41	38
6	73	64	57	53	69	60	55	51	54	50	47	48	45	43	42	40	39	36
7	69	60	53	49	65	57	51	47	51	47	44	46	42	40	40	38	37	34
8	66	56	50	45	62	53	48	44	48	44	41	43	40	38	39	37	35	33
9	62	53	47	43	59	50	45	41	46	42	39	41	38	36	37	35	33	32
10	60	50	44	40	56	48	42	39	44	39	37	40	37	34	36	34	32	30

POLAR GRAPH



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