

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-H-835-F-MLW-ITL85132-ITL92590.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.014 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-H-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.2 WATTS

[ABSOLUTE]LUMENS]4035

[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	4039
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	42
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	3157	3040	3107
55	2656	2491	2471
65	2264	2096	2012
75	1962	1780	1643
85	1626	1491	1220

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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	6213.993	6213.993	6213.993	6213.993	6213.993
2.5	6102.751	6107.418	6100.417	6104.307	6098.083
5.0	5810.254	5803.253	5807.921	5800.919	5803.253
7.5	5319.390	5324.057	5383.179	5376.177	5390.180
10.0	4605.263	4675.275	4830.081	4895.425	4890.758
12.5	3809.455	3916.807	4202.302	4372.666	4343.883
15.0	3087.549	3178.565	3544.963	3796.230	3739.442
17.5	2387.424	2532.117	2913.295	3103.107	2975.529
20.0	1702.080	1891.892	2331.414	2424.764	2364.087
22.5	1125.644	1323.235	1750.311	1881.779	1804.765
25.0	754.578	876.711	1261.780	1341.905	1191.767
27.5	525.871	593.550	878.267	868.154	760.024
30.0	376.511	425.520	570.990	552.320	506.423
32.5	270.715	311.166	371.844	379.623	362.509
35.0	214.705	233.375	273.826	284.717	264.491
37.5	191.367	194.479	217.816	219.372	204.592
40.0	175.031	175.031	181.254	179.699	175.809
42.5	161.029	160.251	157.139	158.695	158.695
45.0	147.026	146.248	141.581	143.915	144.692
47.5	133.802	133.024	129.134	129.912	130.690
50.0	122.133	121.355	116.687	117.465	117.465
52.5	110.464	109.686	105.019	105.019	105.019
55.0	100.351	98.795	94.128	93.350	93.350
57.5	90.238	88.682	84.793	83.237	83.237
60.0	80.125	79.347	75.458	73.902	73.902
62.5	71.568	70.790	66.901	65.345	63.789
65.0	63.011	61.455	58.344	56.788	56.010
67.5	54.454	53.676	51.343	49.009	48.231
70.0	47.453	46.675	43.563	42.008	40.452
72.5	40.452	39.674	37.340	35.006	34.228
75.0	33.450	32.672	30.339	28.783	28.005
77.5	26.449	26.449	24.115	22.560	21.782
80.0	19.448	20.226	18.670	17.114	16.336
82.5	14.002	14.002	13.225	12.447	11.669
85.0	9.335	8.557	8.557	7.779	7.001
87.5	3.890	3.890	3.890	3.890	3.112
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-H-835-F-MLW-ITL85132-ITL92590.014.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-H-835-F-MLW-ITL85132-ITL92590.014.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1469.55	N.A.	36.40
0-30	2001.85	N.A.	49.60
0-40	2178.41	N.A.	53.90
0-60	2376.88	N.A.	58.90
0-80	2468.38	N.A.	61.10
0-90	2477.74	N.A.	61.30
10-90	1956.00	N.A.	48.40
20-40	708.86	N.A.	17.60
20-50	821.09	N.A.	20.30
40-70	257.40	N.A.	6.40
60-80	91.50	N.A.	2.30
70-80	32.57	N.A.	0.80
80-90	9.37	N.A.	0.20
90-110	134.76	N.A.	3.30
90-120	311.00	N.A.	7.70
90-130	548.70	N.A.	13.60
90-150	1101.84	N.A.	27.30
90-180	1561.03	N.A.	38.70
110-180	1426.26	N.A.	35.30
0-180	4038.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	521.74
10-20	947.80
20-30	532.30
30-40	176.56
40-50	112.23
50-60	86.24
60-70	58.93
70-80	32.57
80-90	9.37
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

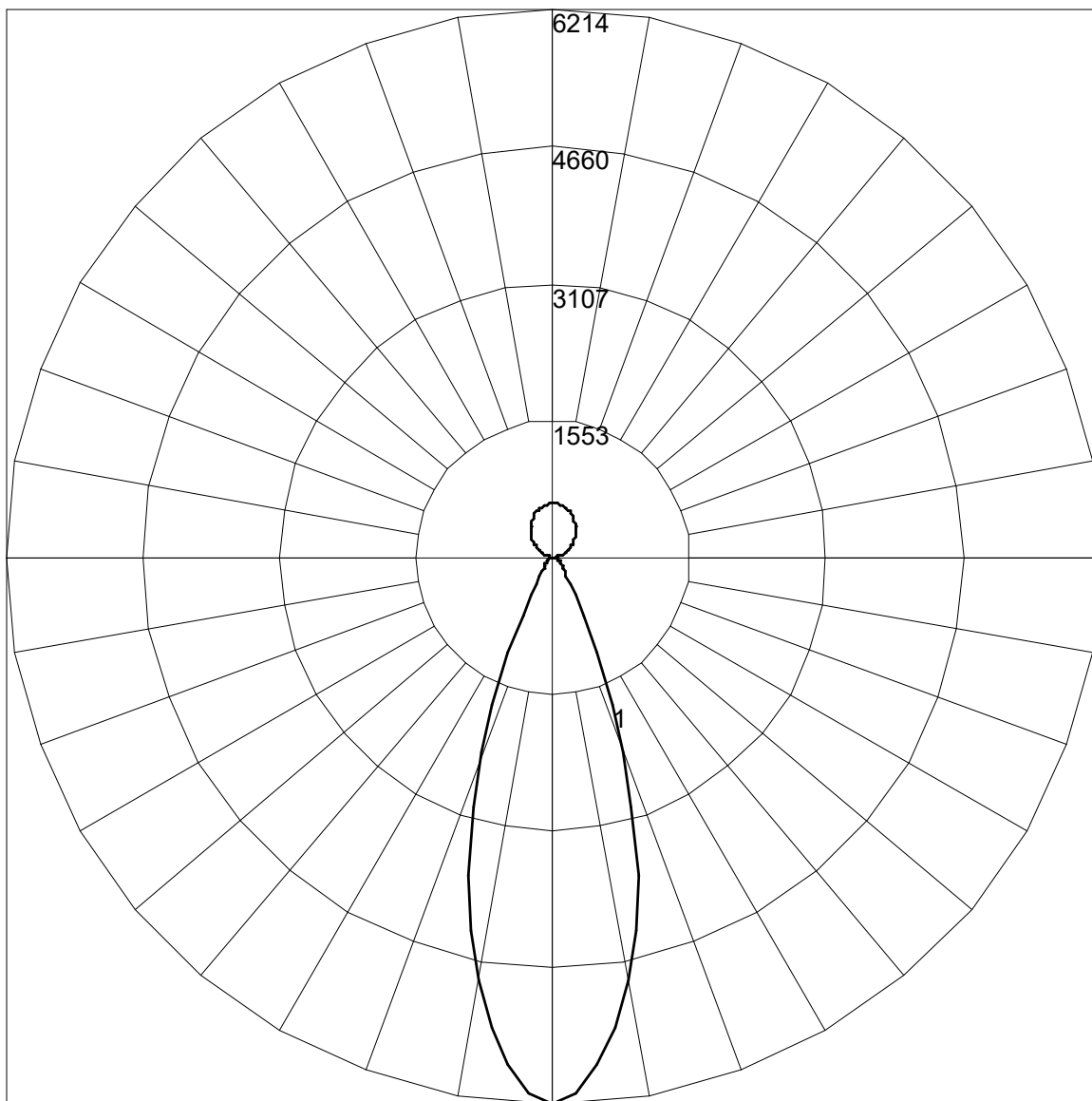
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	103	100	97	94	97	94	91	89	83	81	80	73	71	70	63	62	62	57
2	97	91	87	83	91	86	82	79	77	74	72	68	66	64	60	59	58	54
3	91	84	79	74	86	80	75	71	72	68	65	64	62	59	57	55	54	51
4	86	78	72	67	81	74	69	65	67	63	60	60	58	55	54	52	51	48
5	81	72	66	62	77	69	64	60	63	59	56	57	54	52	52	50	48	45
6	77	68	62	57	73	65	59	55	59	55	52	54	51	49	50	47	45	43
7	73	64	57	53	69	61	56	52	56	52	49	52	49	46	48	45	43	41
8	70	60	54	50	66	58	52	49	53	49	46	50	46	44	46	43	41	39
9	66	57	51	47	63	55	49	46	51	47	44	47	44	42	44	41	40	38
10	63	54	48	44	61	52	47	43	49	45	42	45	42	40	42	40	38	36

POLAR GRAPH



Maximum Candela = 6213.993 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)