

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-H-835-F-MLW-ITL85132-ITL92590.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.001 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-H-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 55.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 55.6 WATTS

[ABSOLUTE]LUMENS]5439

[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	5444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	55.6
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	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	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	330.556
117.5	385.778	381.889	381.889	372.556	371.000
120.0	428.556	422.333	423.889	414.556	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-H-835-F-MLW-ITL85132-ITL92590.001.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-H-835-F-MLW-ITL85132-ITL92590.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1469.55	N.A.	27.00
0-30	2001.85	N.A.	36.80
0-40	2178.41	N.A.	40.00
0-60	2376.88	N.A.	43.70
0-80	2468.38	N.A.	45.30
0-90	2477.74	N.A.	45.50
10-90	1956.00	N.A.	35.90
20-40	708.86	N.A.	13.00
20-50	821.09	N.A.	15.10
40-70	257.40	N.A.	4.70
60-80	91.50	N.A.	1.70
70-80	32.57	N.A.	0.60
80-90	9.37	N.A.	0.20
90-110	256.05	N.A.	4.70
90-120	590.90	N.A.	10.90
90-130	1042.54	N.A.	19.20
90-150	2093.49	N.A.	38.50
90-180	2965.95	N.A.	54.50
110-180	2709.9	N.A.	49.80
0-180	5443.69	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	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

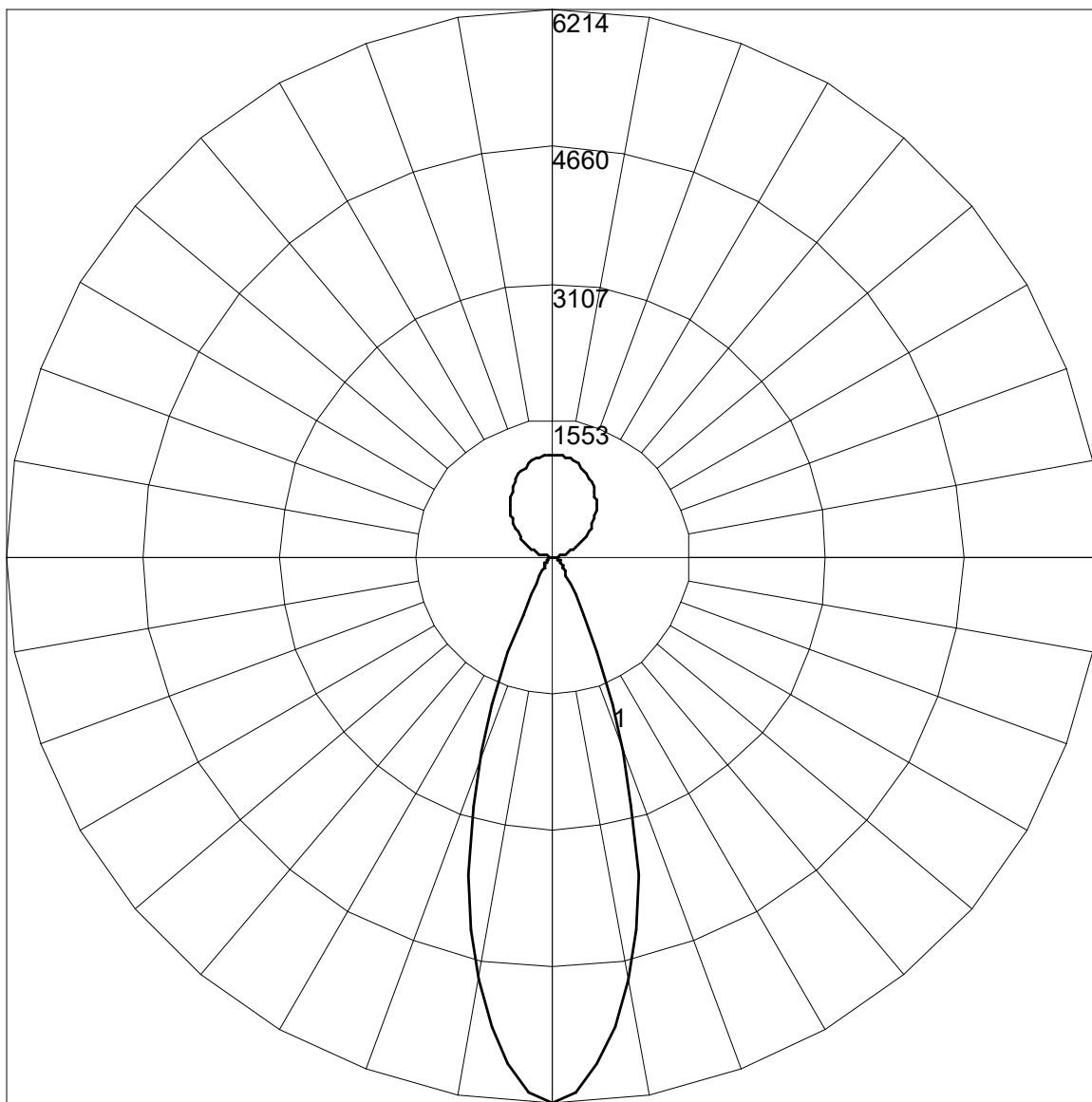
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	99	95	92	90	91	88	85	83	74	72	71	61	60	59	49	49	48	43
2	92	86	82	77	85	80	76	72	68	65	63	57	55	53	47	45	45	40
3	86	79	73	68	79	73	68	64	63	59	56	53	51	49	44	43	41	38
4	81	72	66	61	74	67	62	58	58	54	51	50	47	45	42	40	39	35
5	76	66	60	55	70	62	57	52	54	50	47	47	44	42	40	38	37	34
6	71	62	55	50	66	58	52	48	51	47	44	44	41	39	38	36	35	32
7	67	57	51	46	63	54	48	44	48	44	41	42	39	37	36	34	33	31
8	64	54	47	43	59	51	45	41	45	41	38	40	37	35	35	33	31	29
9	60	50	44	40	56	48	42	39	43	39	36	38	35	33	34	32	30	28
10	57	47	42	38	54	45	40	36	41	37	34	36	33	31	32	30	29	27

POLAR GRAPH



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