

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-4-ID-4FT-S-B-835-F-DL-ITL90629 ITL85125.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.013 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/10/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-S-B-835-F-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.7 WATTS

[_ABSOLUTE]LUMENS]3753

[OTHER]see www.finelite.com for source file ITL90629 and ITL85125. 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	3753
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	32.9
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4464	4141	4051
55	4128	3795	3729
65	3708	3399	3394
75	3057	2928	3019
85	1986	2493	2726

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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	643.902	643.902	643.902	643.902	643.902
2.5	642.873	642.873	643.388	643.902	644.417
5.0	639.784	640.299	641.843	642.873	643.388
7.5	635.152	636.696	639.270	640.299	641.329
10.0	628.976	630.005	634.123	636.182	637.211
12.5	621.255	621.255	627.946	631.034	631.034
15.0	610.961	611.476	619.711	622.799	622.799
17.5	599.122	600.152	609.417	613.534	613.534
20.0	585.740	586.769	597.063	601.696	601.696
22.5	570.299	572.357	584.196	588.828	588.313
25.0	554.343	556.916	569.269	574.416	574.931
27.5	536.328	540.446	554.343	558.975	559.490
30.0	517.798	522.431	536.842	542.504	543.534
32.5	498.239	503.901	519.857	525.519	526.034
35.0	475.592	483.827	500.813	507.504	508.019
37.5	454.489	464.783	481.769	487.945	490.519
40.0	433.386	443.680	462.210	469.416	470.960
42.5	410.224	422.062	441.621	450.371	451.915
45.0	387.062	400.959	421.033	430.298	432.871
47.5	363.385	379.341	399.930	410.224	413.312
50.0	340.223	357.209	378.312	389.121	392.724
52.5	317.576	334.562	357.209	369.562	372.650
55.0	292.870	310.885	335.076	348.459	351.547
57.5	268.164	288.752	312.944	326.841	331.473
60.0	244.487	266.105	290.811	305.738	311.399
62.5	220.296	242.428	268.164	284.120	289.267
65.0	196.619	218.752	245.517	262.502	267.649
67.5	171.398	196.619	223.899	240.884	247.061
70.0	148.237	172.943	201.252	219.266	226.472
72.5	125.075	150.810	178.604	198.163	204.855
75.0	102.427	128.163	158.016	177.575	184.266
77.5	79.780	107.060	136.913	157.501	164.707
80.0	59.192	86.986	117.354	138.457	146.178
82.5	41.177	68.971	99.854	120.957	129.192
85.0	25.735	53.530	84.927	106.030	112.722
87.5	14.412	41.177	71.545	92.648	98.824
90.0	5.147	31.397	61.765	82.354	89.045
92.5	18.011	38.887	61.809	77.364	82.686
95.0	34.384	54.851	77.773	92.919	97.831
97.5	52.395	71.633	94.147	109.292	114.204
100.0	70.405	89.235	111.748	126.484	131.396
102.5	90.053	107.246	129.759	144.086	148.588
105.0	110.520	127.303	148.588	162.506	166.599
107.5	132.215	147.360	169.055	182.154	185.838
110.0	155.138	168.236	188.703	201.802	205.486
112.5	178.060	190.750	209.988	223.087	225.952
115.0	201.392	212.854	230.864	244.782	246.419
117.5	224.724	234.958	252.559	265.248	267.295
120.0	247.238	257.471	274.663	284.078	287.762
122.5	269.751	279.984	296.767	305.363	309.047
125.0	293.902	304.954	319.281	326.239	330.332
127.5	317.643	328.286	342.613	347.934	351.618
130.0	340.975	351.618	364.717	369.219	372.903
132.5	363.898	373.722	386.411	390.914	393.370

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-B-835-F-DL-ITL90629 ITL85125.013.IES****CANDELA TABULATION - (Cont.)**

135.0	387.230	396.235	408.106	413.018	414.655
137.5	409.334	416.293	428.982	433.894	434.713
140.0	432.666	437.169	449.858	454.770	455.179
142.5	454.361	457.635	469.915	474.009	474.827
145.0	476.055	476.055	490.382	493.247	493.657
147.5	496.113	495.704	509.212	511.258	512.077
150.0	514.942	514.533	525.176	528.860	529.269
152.5	533.362	531.316	541.139	545.233	544.005
155.0	550.145	547.279	555.875	559.969	558.741
157.5	565.700	562.425	570.202	573.068	572.658
160.0	579.617	575.933	582.892	584.529	584.938
162.5	592.716	589.032	595.581	596.400	596.809
165.0	604.177	600.902	605.405	606.633	607.042
167.5	613.592	610.726	613.592	615.229	615.638
170.0	621.369	619.732	620.960	622.188	622.597
172.5	627.100	626.690	627.100	627.509	627.918
175.0	631.193	631.193	631.602	631.602	631.193
177.5	634.468	634.058	634.058	634.058	634.468
180.0	635.286	635.286	635.286	635.286	635.286

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Zone	Lumens	%Lamp	%Fixt
0-20	235.18	N.A.	6.30
0-30	496.08	N.A.	13.20
0-40	806.58	N.A.	21.50
0-60	1421.91	N.A.	37.90
0-80	1820.33	N.A.	48.50
0-90	1907.86	N.A.	50.80
10-90	1846.86	N.A.	49.20
20-40	571.40	N.A.	15.20
20-50	892.13	N.A.	23.80
40-70	852.97	N.A.	22.70
60-80	398.42	N.A.	10.60
70-80	160.78	N.A.	4.30
80-90	87.53	N.A.	2.30
90-110	235.03	N.A.	6.30
90-120	460.82	N.A.	12.30
90-130	743.26	N.A.	19.80
90-150	1359.29	N.A.	36.20
90-180	1845.13	N.A.	49.20
110-180	1610.1	N.A.	42.90
0-180	3752.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.00
10-20	174.18
20-30	260.90
30-40	310.50
40-50	320.73
50-60	294.59
60-70	237.64
70-80	160.78
80-90	87.53
90-100	82.02
100-110	153.01
110-120	225.80
120-130	282.43
130-140	311.94
140-150	304.10
150-160	255.43
160-170	170.46
170-180	59.95

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

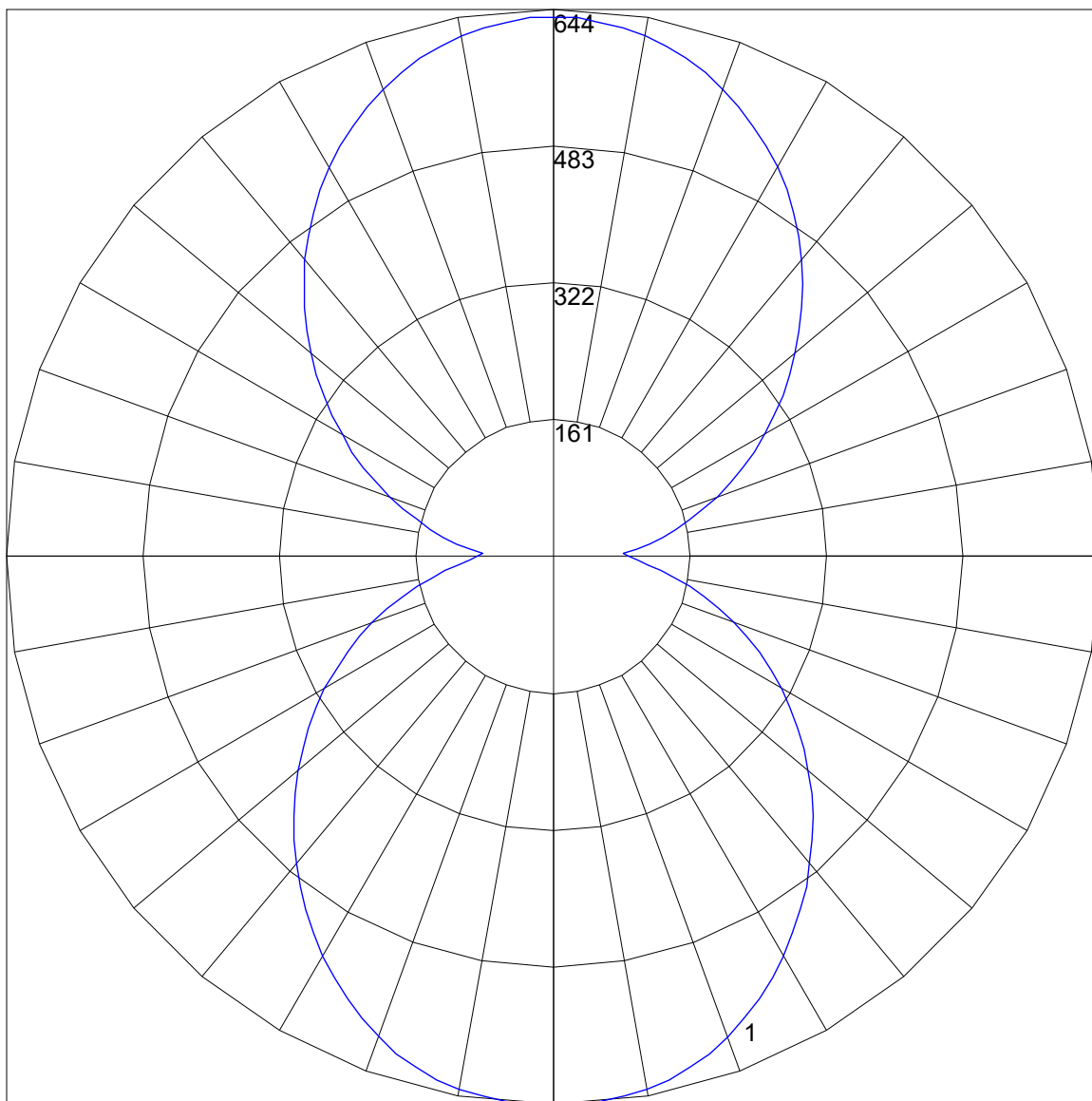
Effective Floor Cavity Reflectance 0.20

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	97	92	88	85	89	85	82	79	72	70	67	60	58	56	49	48	46	41
2	88	80	74	68	81	74	69	64	63	59	55	52	49	47	43	40	39	34
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	38	35	32	28
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	33	30	28	24
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24	21
6	62	49	41	35	57	46	39	33	39	33	29	33	28	25	27	24	21	18
7	57	45	36	31	53	41	34	29	36	30	25	30	25	22	25	21	19	16
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	18	15	13
10	46	34	26	22	43	32	25	20	27	22	18	23	19	16	19	16	14	12

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POLAR GRAPH



Maximum Candela = 644.417 Located At Horizontal Angle = 90, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)