

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-H-B-835-F-DL-ITL90629 ITL85125.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.008 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-H-B-835-F-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.9 WATTS

[_ABSOLUTE]LUMENS]5407

[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	5407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	46.9
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 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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-B-835-F-DL-ITL90629 ITL85125.008.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	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	34.225	73.894	117.453	147.010	157.122
95.0	65.338	104.230	147.788	176.568	185.902
97.5	99.563	136.121	178.901	207.681	217.015
100.0	133.787	169.567	212.348	240.350	249.684
102.5	171.123	203.792	246.573	273.797	282.353
105.0	210.015	241.906	282.353	308.799	316.577
107.5	251.240	280.019	321.245	346.135	353.136
110.0	294.798	319.689	358.580	383.471	390.472
112.5	338.357	362.470	399.028	423.918	429.363
115.0	382.693	404.473	438.697	465.143	468.255
117.5	427.030	446.476	479.922	504.035	507.924
120.0	469.810	489.256	521.925	539.815	546.816
122.5	512.591	532.037	563.928	580.263	587.263
125.0	558.483	579.485	606.709	619.932	627.710
127.5	603.597	623.821	651.045	661.157	668.158
130.0	647.934	668.158	693.048	701.604	708.605
132.5	691.492	710.160	734.273	742.829	747.496

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-B-835-F-DL-ITL90629 ITL85125.008.IES****CANDELA TABULATION - (Cont.)**

135.0	735.829	752.941	775.498	784.832	787.944
137.5	777.832	791.055	815.168	824.502	826.057
140.0	822.168	830.724	854.837	864.171	864.949
142.5	863.393	869.616	892.951	900.729	902.285
145.0	904.618	904.618	931.842	937.287	938.065
147.5	942.732	941.954	967.623	971.512	973.068
150.0	978.512	977.735	997.958	1004.959	1005.736
152.5	1013.515	1009.626	1028.294	1036.072	1033.738
155.0	1045.406	1039.961	1056.295	1064.074	1061.740
157.5	1074.964	1068.741	1083.520	1088.965	1088.187
160.0	1101.410	1094.409	1107.632	1110.744	1111.522
162.5	1126.300	1119.300	1131.745	1133.301	1134.079
165.0	1148.080	1141.857	1150.413	1152.747	1153.524
167.5	1165.970	1160.525	1165.970	1169.081	1169.859
170.0	1180.749	1177.637	1179.971	1182.304	1183.082
172.5	1191.638	1190.861	1191.638	1192.416	1193.194
175.0	1199.417	1199.417	1200.195	1200.195	1199.417
177.5	1205.639	1204.861	1204.861	1204.861	1205.639
180.0	1207.195	1207.195	1207.195	1207.195	1207.195

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-B-835-F-DL-ITL90629 ITL85125.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	235.18	N.A.	4.30
0-30	496.08	N.A.	9.20
0-40	806.58	N.A.	14.90
0-60	1421.91	N.A.	26.30
0-80	1820.33	N.A.	33.70
0-90	1907.86	N.A.	35.30
10-90	1846.86	N.A.	34.20
20-40	571.40	N.A.	10.60
20-50	892.13	N.A.	16.50
40-70	852.97	N.A.	15.80
60-80	398.42	N.A.	7.40
70-80	160.78	N.A.	3.00
80-90	87.53	N.A.	1.60
90-110	439.74	N.A.	8.10
90-120	868.81	N.A.	16.10
90-130	1405.5	N.A.	26.00
90-150	2576.11	N.A.	47.60
90-180	3499.32	N.A.	64.70
110-180	3059.57	N.A.	56.60
0-180	5407.18	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	148.99
100-110	290.75
110-120	429.07
120-130	536.69
130-140	592.75
140-150	577.86
150-160	485.37
160-170	323.92
170-180	113.92

IES INDOOR REPORT

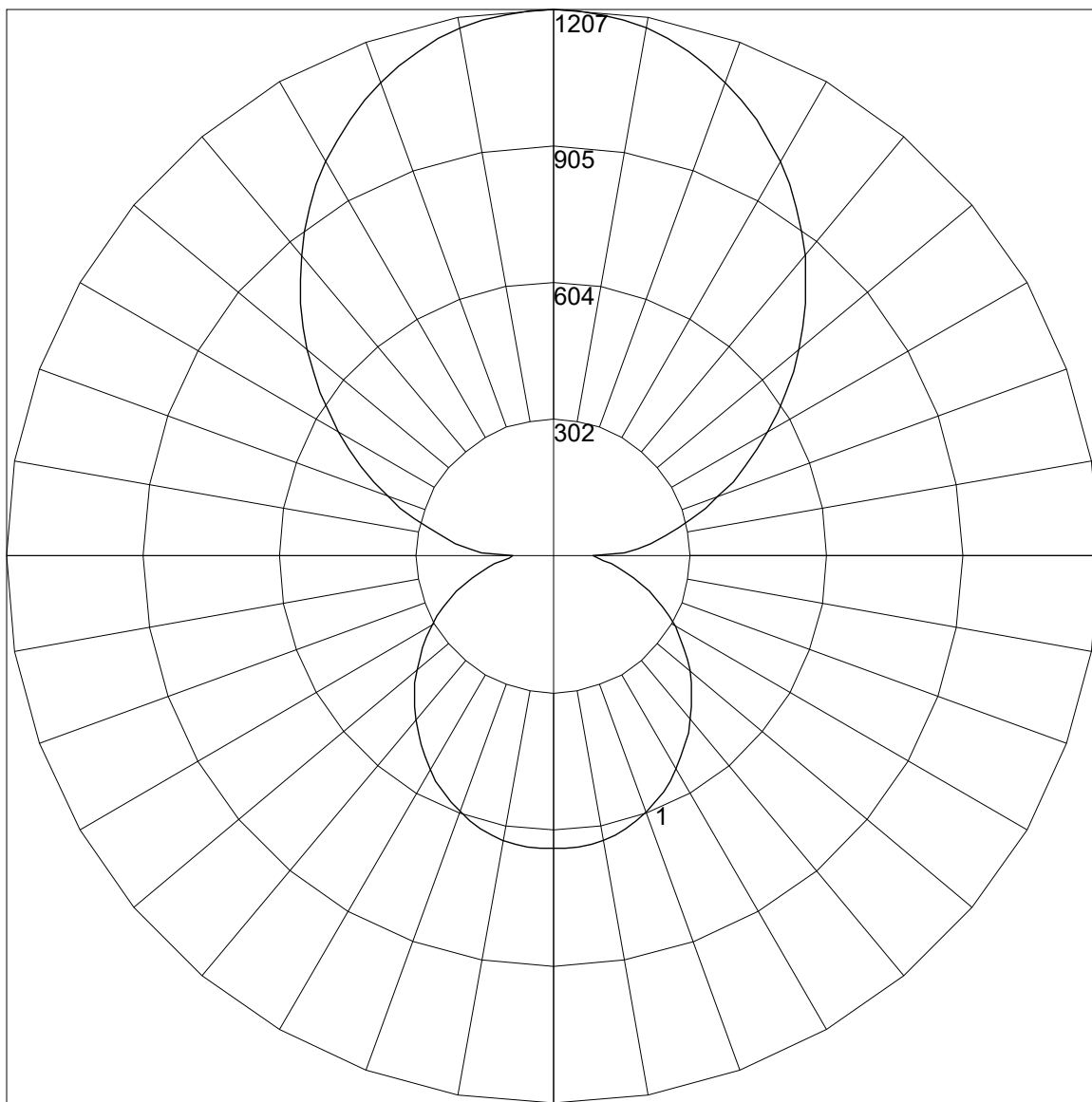
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	35
1	94	89	85	82	85	81	78	74	65	63	60	50	49	47	37	36	35	29
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29	24
3	78	68	61	55	70	62	55	50	50	45	41	39	35	33	28	26	24	20
4	71	60	52	46	64	55	48	42	44	39	35	34	31	28	25	23	21	17
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	14
6	60	48	40	34	54	43	36	31	35	30	26	28	24	21	20	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	21	40	30	23	19	24	19	16	19	16	13	15	12	10	8

POLAR GRAPH



Maximum Candela = 1207.195 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)