

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-S-835-F-DL-ITL90629 ITL85125.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.007 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-S-835-F-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 42.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 45.2 WATTS

[_ABSOLUTE]LUMENS]5015

[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	5015
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	42.9
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	3551	3294	3223
55	3284	3019	2966
65	2949	2704	2700
75	2432	2329	2402
85	1579	1983	2169

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-S-835-F-DL-ITL90629 ITL85125.007.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	512.217	512.217	512.217	512.217	512.217
2.5	511.398	511.398	511.807	512.217	512.626
5.0	508.941	509.350	510.579	511.398	511.807
7.5	505.256	506.484	508.531	509.350	510.169
10.0	500.343	501.161	504.437	506.075	506.894
12.5	494.201	494.201	499.524	501.980	501.980
15.0	486.012	486.421	492.973	495.429	495.429
17.5	476.595	477.414	484.784	488.059	488.059
20.0	465.949	466.768	474.957	478.642	478.642
22.5	453.666	455.304	464.721	468.406	467.996
25.0	440.973	443.020	452.847	456.941	457.351
27.5	426.642	429.918	440.973	444.658	445.067
30.0	411.902	415.587	427.052	431.556	432.375
32.5	396.343	400.847	413.540	418.044	418.454
35.0	378.328	384.879	398.391	403.713	404.123
37.5	361.541	369.729	383.241	388.154	390.202
40.0	344.753	352.942	367.682	373.414	374.643
42.5	326.328	335.745	351.304	358.265	359.493
45.0	307.903	318.958	334.927	342.297	344.344
47.5	289.069	301.762	318.139	326.328	328.785
50.0	270.644	284.155	300.943	309.541	312.407
52.5	252.628	266.140	284.155	293.982	296.439
55.0	232.975	247.305	266.549	277.195	279.651
57.5	213.321	229.699	248.943	259.998	263.683
60.0	194.487	211.683	231.337	243.211	247.715
62.5	175.243	192.849	213.321	226.014	230.108
65.0	156.408	174.014	195.306	208.817	212.912
67.5	136.345	156.408	178.109	191.621	196.534
70.0	117.920	137.574	160.093	174.424	180.156
72.5	99.495	119.968	142.078	157.637	162.959
75.0	81.480	101.952	125.700	141.259	146.582
77.5	63.464	85.165	108.913	125.290	131.023
80.0	47.086	69.196	93.354	110.141	116.283
82.5	32.756	54.866	79.433	96.220	102.771
85.0	20.472	42.582	67.558	84.346	89.669
87.5	11.464	32.756	56.913	73.700	78.614
90.0	4.095	24.976	49.133	65.511	70.834
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-S-835-F-DL-ITL90629 ITL85125.007.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-S-835-F-DL-ITL90629 ITL85125.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	187.08	N.A.	3.70
0-30	394.63	N.A.	7.90
0-40	641.63	N.A.	12.80
0-60	1131.11	N.A.	22.60
0-80	1448.05	N.A.	28.90
0-90	1517.68	N.A.	30.30
10-90	1469.16	N.A.	29.30
20-40	454.55	N.A.	9.10
20-50	709.68	N.A.	14.10
40-70	678.52	N.A.	13.50
60-80	316.94	N.A.	6.30
70-80	127.89	N.A.	2.50
80-90	69.63	N.A.	1.40
90-110	438.18	N.A.	8.70
90-120	867.25	N.A.	17.30
90-130	1403.94	N.A.	28.00
90-150	2574.55	N.A.	51.30
90-180	3497.76	N.A.	69.70
110-180	3059.57	N.A.	61.00
0-180	5015.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.52
10-20	138.56
20-30	207.54
30-40	247.00
40-50	255.13
50-60	234.35
60-70	189.04
70-80	127.89
80-90	69.63
90-100	147.43
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

PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-S-835-F-DL-ITL90629 ITL85125.007.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

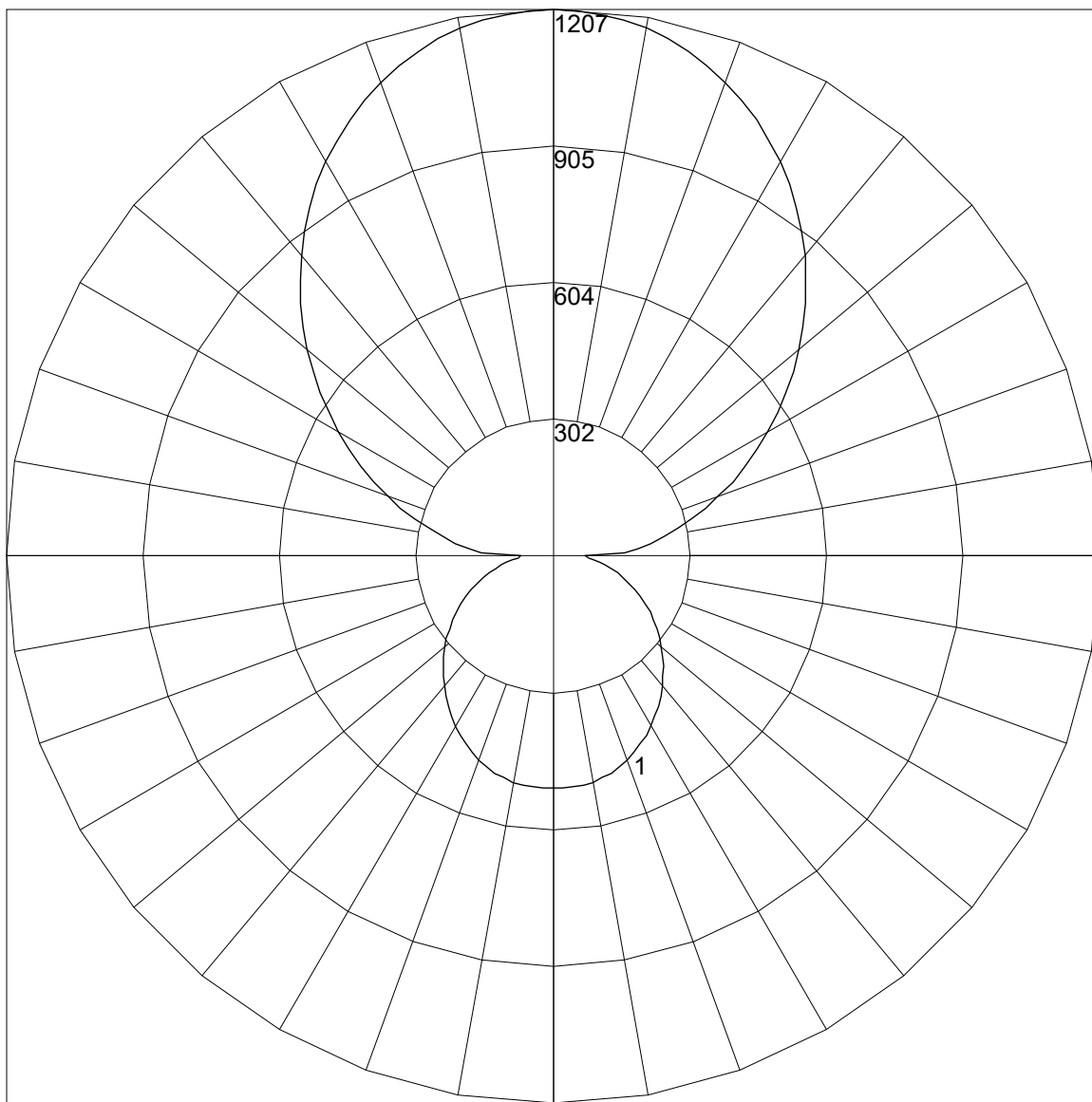
Effective Floor Cavity Reflectance 0.20

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	93	88	85	81	83	79	76	73	63	60	58	47	46	44	33	32	31	25
2	84	77	71	66	75	69	64	60	55	51	48	41	39	37	29	27	26	20
3	77	67	60	54	69	61	54	49	48	44	40	36	33	31	25	23	22	17
4	70	59	52	46	63	54	47	42	42	38	34	32	29	26	22	20	19	14
5	64	53	45	39	57	48	41	36	38	33	29	29	25	22	20	18	16	12
6	59	47	39	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	54	42	35	29	49	38	32	27	31	26	22	23	20	17	17	14	12	10
8	50	38	31	26	45	35	28	23	28	23	19	21	18	15	15	13	11	9
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	12	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9	7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-S-835-F-DL-ITL90629 ITL85125.007.IES

POLAR GRAPH



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