

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-H-835-F-DL-ITL90629 ITL85125.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/01/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 56.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 58.4 WATTS

[_ABSOLUTE]LUMENS]6386

[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	6386
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	56.8
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	6746	6257	6122
55	6239	5735	5635
65	5603	5137	5129
75	4620	4425	4563
85	3001	3768	4120

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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	973.068	973.068	973.068	973.068	973.068
2.5	971.512	971.512	972.290	973.068	973.846
5.0	966.845	967.623	969.957	971.512	972.290
7.5	959.845	962.178	966.067	967.623	969.179
10.0	950.511	952.066	958.289	961.400	962.956
12.5	938.843	938.843	948.955	953.622	953.622
15.0	923.287	924.064	936.510	941.177	941.177
17.5	905.396	906.952	920.953	927.176	927.176
20.0	885.173	886.729	902.285	909.286	909.286
22.5	861.838	864.949	882.839	889.840	889.062
25.0	837.725	841.614	860.282	868.061	868.838
27.5	810.501	816.724	837.725	844.726	845.503
30.0	782.499	789.500	811.279	819.835	821.391
32.5	752.941	761.498	785.610	794.167	794.944
35.0	718.717	731.162	756.831	766.942	767.720
37.5	686.826	702.382	728.051	737.385	741.274
40.0	654.935	670.491	698.493	709.383	711.716
42.5	619.932	637.822	667.380	680.603	682.937
45.0	584.930	605.931	636.267	650.268	654.157
47.5	549.149	573.262	604.375	619.932	624.599
50.0	514.147	539.815	571.707	588.041	593.486
52.5	479.922	505.591	539.815	558.483	563.150
55.0	442.586	469.810	506.369	526.592	531.259
57.5	405.250	436.364	472.922	493.923	500.924
60.0	369.470	402.139	439.475	462.032	470.588
62.5	332.912	366.359	405.250	429.363	437.142
65.0	297.132	330.579	371.026	396.694	404.473
67.5	259.018	297.132	338.357	364.025	373.359
70.0	224.016	261.352	304.132	331.356	342.246
72.5	189.013	227.905	269.908	299.465	309.577
75.0	154.789	193.680	238.794	268.352	278.464
77.5	120.564	161.789	206.903	238.017	248.906
80.0	89.451	131.454	177.346	209.237	220.904
82.5	62.227	104.230	150.899	182.791	195.236
85.0	38.892	80.894	128.342	160.233	170.345
87.5	21.779	62.227	108.119	140.010	149.344
90.0	7.778	47.448	93.340	124.453	134.565
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-H-835-F-DL-ITL90629 ITL85125.001.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-H-835-F-DL-ITL90629 ITL85125.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	355.41	N.A.	5.60
0-30	749.68	N.A.	11.70
0-40	1218.91	N.A.	19.10
0-60	2148.79	N.A.	33.60
0-80	2750.88	N.A.	43.10
0-90	2883.16	N.A.	45.10
10-90	2790.99	N.A.	43.70
20-40	863.51	N.A.	13.50
20-50	1348.19	N.A.	21.10
40-70	1289.01	N.A.	20.20
60-80	602.09	N.A.	9.40
70-80	242.96	N.A.	3.80
80-90	132.28	N.A.	2.10
90-110	443.64	N.A.	6.90
90-120	872.71	N.A.	13.70
90-130	1409.39	N.A.	22.10
90-150	2580.01	N.A.	40.40
90-180	3503.22	N.A.	54.90
110-180	3059.57	N.A.	47.90
0-180	6386.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.18
10-20	263.23
20-30	394.27
30-40	469.24
40-50	484.68
50-60	445.19
60-70	359.13
70-80	242.96
80-90	132.28
90-100	152.89
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

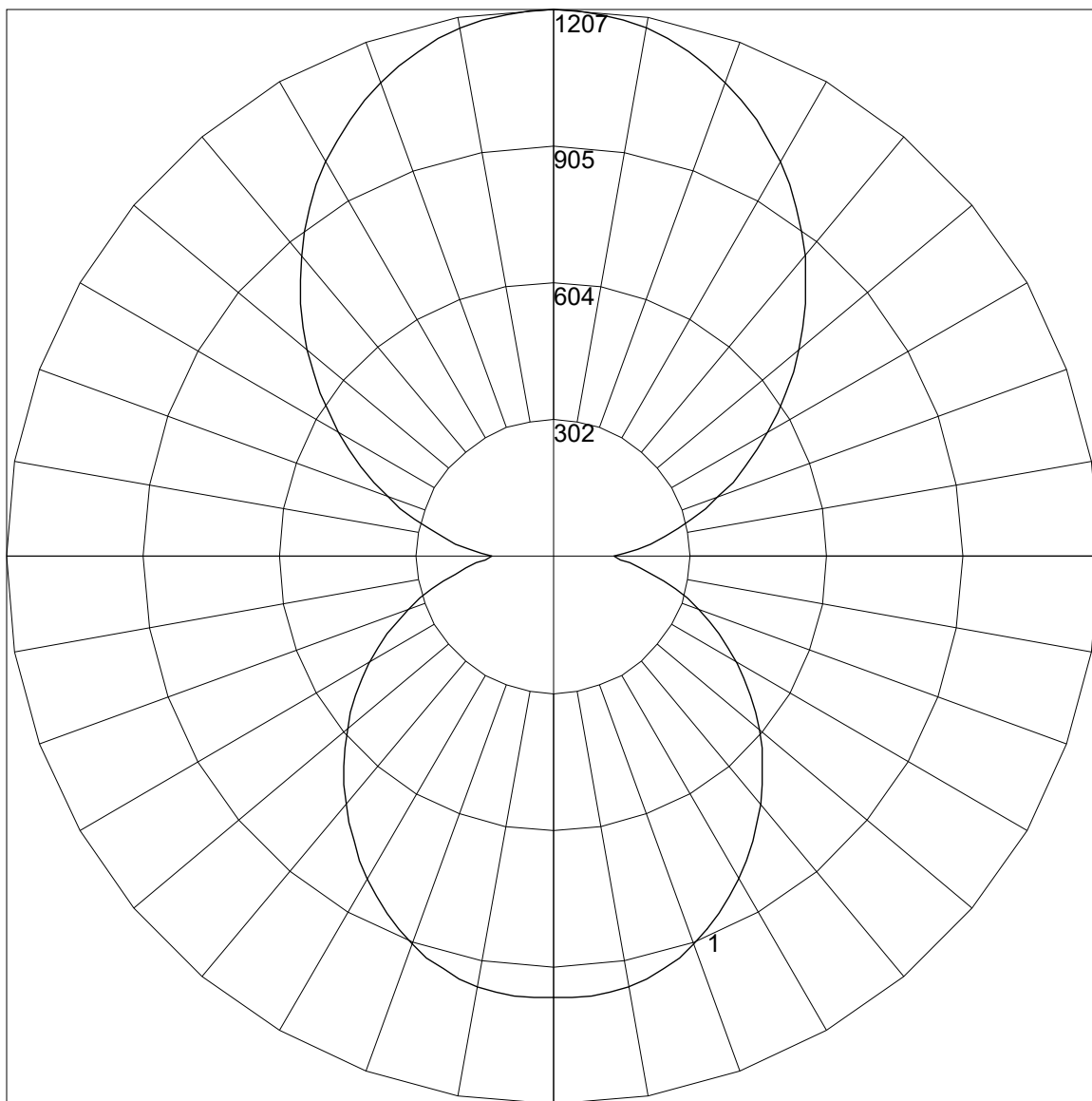
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	45	43	42	37
2	87	79	73	68	79	73	67	63	61	57	53	49	46	44	39	37	35	30
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29	25
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	28	25	21
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	25	22	19	16
7	56	44	36	30	51	41	33	28	34	29	24	28	24	21	23	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	21	17	15	13
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14	11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

POLAR GRAPH



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