

# 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-V-835-F-DL-ITL90629 ITL85125.009.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.009 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-V-835-F-DL

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 65.5 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 67.1 WATTS

[\_ABSOLUTE]LUMENS]7213

[OTHER]see [www.finelite.com](http://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](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	7213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	65.5
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	8673	8045	7871
55	8020	7373	7244
65	7204	6604	6595
75	5940	5689	5866
85	3858	4844	5297

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-835-F-DL-ITL90629 ITL85125.009.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	1251.000	1251.000	1251.000	1251.000	1251.000
2.5	1249.000	1249.000	1250.000	1251.000	1252.000
5.0	1243.000	1244.000	1247.000	1249.000	1250.000
7.5	1234.000	1237.000	1242.000	1244.000	1246.000
10.0	1222.000	1224.000	1232.000	1236.000	1238.000
12.5	1207.000	1207.000	1220.000	1226.000	1226.000
15.0	1187.000	1188.000	1204.000	1210.000	1210.000
17.5	1164.000	1166.000	1184.000	1192.000	1192.000
20.0	1138.000	1140.000	1160.000	1169.000	1169.000
22.5	1108.000	1112.000	1135.000	1144.000	1143.000
25.0	1077.000	1082.000	1106.000	1116.000	1117.000
27.5	1042.000	1050.000	1077.000	1086.000	1087.000
30.0	1006.000	1015.000	1043.000	1054.000	1056.000
32.5	968.000	979.000	1010.000	1021.000	1022.000
35.0	924.000	940.000	973.000	986.000	987.000
37.5	883.000	903.000	936.000	948.000	953.000
40.0	842.000	862.000	898.000	912.000	915.000
42.5	797.000	820.000	858.000	875.000	878.000
45.0	752.000	779.000	818.000	836.000	841.000
47.5	706.000	737.000	777.000	797.000	803.000
50.0	661.000	694.000	735.000	756.000	763.000
52.5	617.000	650.000	694.000	718.000	724.000
55.0	569.000	604.000	651.000	677.000	683.000
57.5	521.000	561.000	608.000	635.000	644.000
60.0	475.000	517.000	565.000	594.000	605.000
62.5	428.000	471.000	521.000	552.000	562.000
65.0	382.000	425.000	477.000	510.000	520.000
67.5	333.000	382.000	435.000	468.000	480.000
70.0	288.000	336.000	391.000	426.000	440.000
72.5	243.000	293.000	347.000	385.000	398.000
75.0	199.000	249.000	307.000	345.000	358.000
77.5	155.000	208.000	266.000	306.000	320.000
80.0	115.000	169.000	228.000	269.000	284.000
82.5	80.000	134.000	194.000	235.000	251.000
85.0	50.000	104.000	165.000	206.000	219.000
87.5	28.000	80.000	139.000	180.000	192.000
90.0	10.000	61.000	120.000	160.000	173.000
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-V-835-F-DL-ITL90629 ITL85125.009.IES****CANDELA TABULATION - (Cont.)**

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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-835-F-DL-ITL90629 ITL85125.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	456.92	N.A.	6.30
0-30	963.80	N.A.	13.40
0-40	1567.07	N.A.	21.70
0-60	2762.54	N.A.	38.30
0-80	3536.61	N.A.	49.00
0-90	3706.67	N.A.	51.40
10-90	3588.16	N.A.	49.70
20-40	1110.15	N.A.	15.40
20-50	1733.27	N.A.	24.00
40-70	1657.18	N.A.	23.00
60-80	774.07	N.A.	10.70
70-80	312.36	N.A.	4.30
80-90	170.06	N.A.	2.40
90-110	446.93	N.A.	6.20
90-120	876.00	N.A.	12.10
90-130	1412.69	N.A.	19.60
90-150	2583.3	N.A.	35.80
90-180	3506.51	N.A.	48.60
110-180	3059.57	N.A.	42.40
0-180	7213.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.51
10-20	338.41
20-30	506.89
30-40	603.26
40-50	623.12
50-60	572.35
60-70	461.71
70-80	312.36
80-90	170.06
90-100	156.18
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-V-835-F-DL-ITL90629 ITL85125.009.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

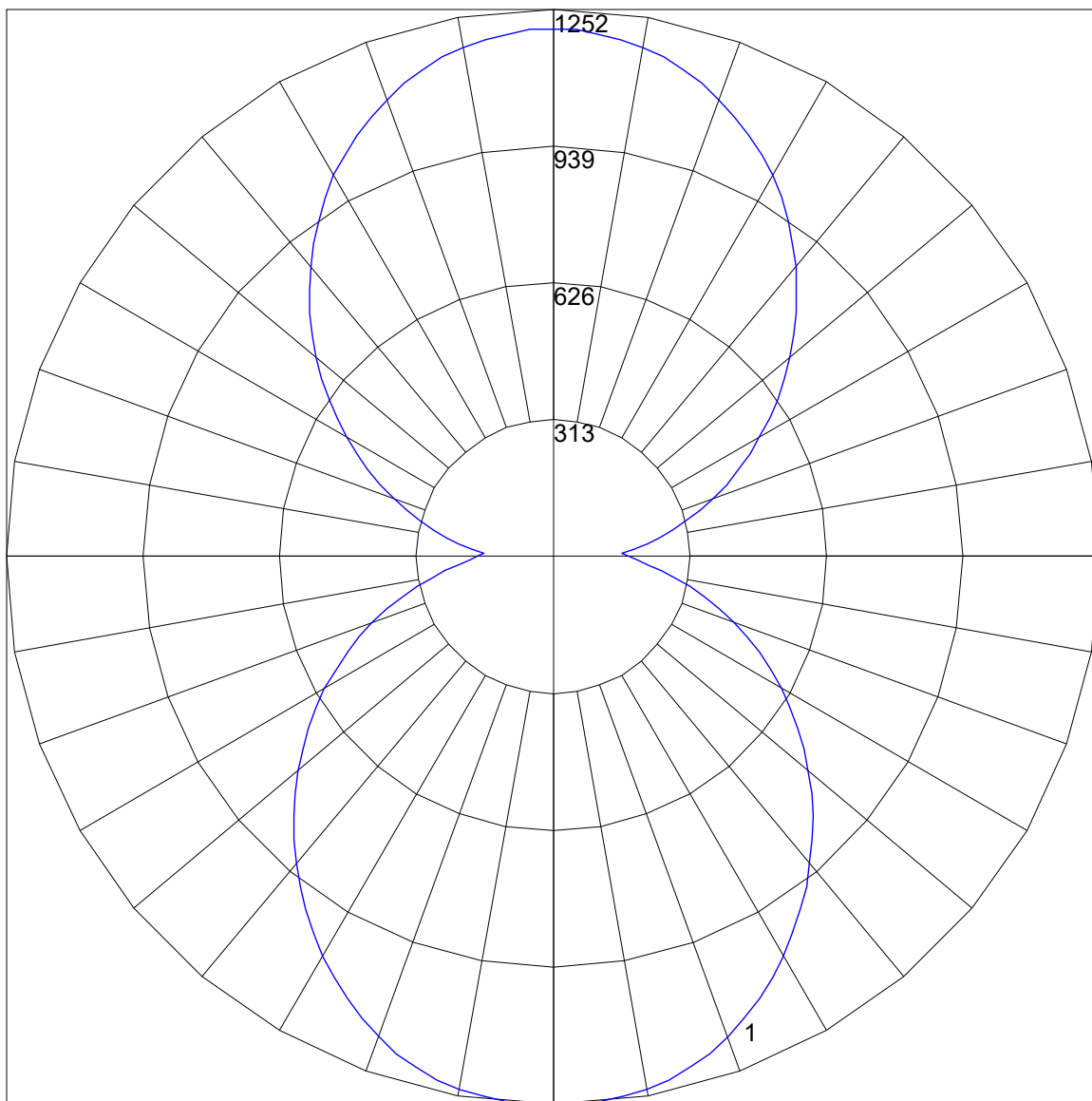
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	97	93	88	85	90	86	82	79	73	70	67	61	59	57	49	48	47	42
2	88	80	74	68	81	74	69	64	63	59	55	53	50	47	43	41	39	34
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	38	35	33	29
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	31	28	24
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24	21
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19	16
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	19	17	14
9	49	37	29	24	46	34	28	23	30	24	20	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14	12

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-835-F-DL-ITL90629 ITL85125.009.IES

POLAR GRAPH



Maximum Candela = 1252 Located At Horizontal Angle = 90, Vertical Angle = 2.5

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