

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-V-835-F-DL-ITL90629 ITL85125.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90629 ITL85125.015 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-V-835-F-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 51.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.8 WATTS

[_ABSOLUTE]LUMENS]5559

[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	5559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	51.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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

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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	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	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-V-835-F-DL-ITL90629 ITL85125.015.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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-V-835-F-DL-ITL90629 ITL85125.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	456.92	N.A.	8.20
0-30	963.80	N.A.	17.30
0-40	1567.07	N.A.	28.20
0-60	2762.54	N.A.	49.70
0-80	3536.61	N.A.	63.60
0-90	3706.67	N.A.	66.70
10-90	3588.16	N.A.	64.50
20-40	1110.15	N.A.	20.00
20-50	1733.27	N.A.	31.20
40-70	1657.18	N.A.	29.80
60-80	774.07	N.A.	13.90
70-80	312.36	N.A.	5.60
80-90	170.06	N.A.	3.10
90-110	242.22	N.A.	4.40
90-120	468.01	N.A.	8.40
90-130	750.45	N.A.	13.50
90-150	1366.48	N.A.	24.60
90-180	1852.32	N.A.	33.30
110-180	1610.1	N.A.	29.00
0-180	5558.99	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	89.21
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

IES INDOOR REPORT

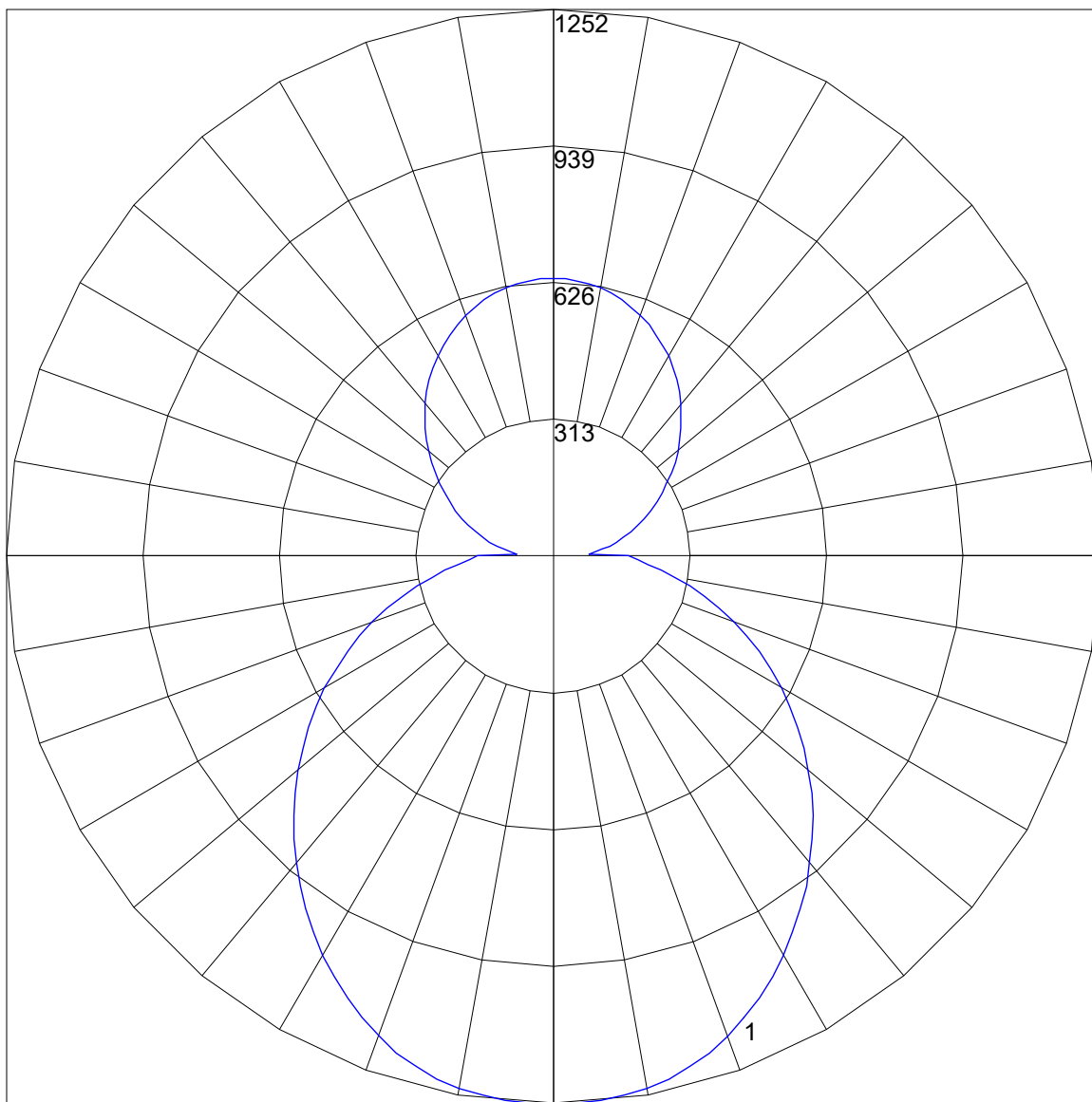
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	100	96	91	87	94	90	86	83	80	77	74	70	68	66	62	60	58	54
2	91	83	76	70	85	78	72	67	69	65	61	61	57	54	54	51	48	44
3	83	73	65	58	78	69	61	56	61	55	50	54	49	45	47	44	41	37
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35	32
5	69	57	48	42	65	54	46	40	48	42	37	43	38	33	38	34	30	27
6	64	51	43	36	60	49	41	35	43	37	32	39	33	29	34	30	26	24
7	59	46	38	32	56	44	36	31	39	33	28	35	30	26	31	27	23	21
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	29	24	21	19
9	51	38	31	25	48	37	29	24	33	27	23	30	24	21	26	22	19	17
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

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.)