

# 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-6-EO-D-4FT-H-835-ITL89078.001.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL89078.001 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]03/21/17  
[ISSUE DATE]12/04/17  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-6-EO-D-4ft-H-835  
[INPUT\_ELECTRICAL]120.0 VOLTS, 56.2 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 57.5 WATTS  
[ABSOLUTE LUMENS]6242  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL89078. 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	6242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	56.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.43 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12541	12533	12480
55	11927	11917	11871
65	11227	11202	11202
75	10441	10359	10400
85	9643	9277	9277



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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	2267.504	2267.504	2267.504	2267.504	2267.504
2.5	2264.938	2264.083	2264.938	2264.938	2264.938
5.0	2257.240	2255.529	2255.529	2256.385	2255.529
7.5	2244.410	2242.699	2241.844	2240.988	2240.988
10.0	2223.882	2218.750	2222.171	2222.171	2219.605
12.5	2195.655	2187.957	2196.511	2195.655	2190.523
15.0	2163.153	2151.178	2164.863	2164.863	2157.165
17.5	2124.662	2111.832	2126.373	2128.084	2118.675
20.0	2081.040	2065.644	2080.185	2084.461	2074.197
22.5	2030.575	2016.034	2031.430	2033.141	2025.443
25.0	1976.689	1965.569	1978.399	1978.399	1971.557
27.5	1918.526	1904.840	1921.092	1921.947	1914.249
30.0	1856.086	1843.256	1857.797	1857.797	1852.665
32.5	1794.501	1779.105	1793.646	1791.080	1786.803
35.0	1725.219	1708.968	1724.364	1720.942	1717.521
37.5	1653.370	1638.830	1653.370	1649.094	1647.383
40.0	1578.956	1565.271	1579.811	1574.679	1572.969
42.5	1503.686	1491.711	1503.686	1501.120	1496.843
45.0	1425.850	1414.731	1424.995	1422.429	1419.008
47.5	1346.304	1336.040	1346.304	1343.738	1343.738
50.0	1265.902	1256.493	1265.047	1262.481	1263.336
52.5	1182.934	1174.381	1182.079	1179.513	1181.223
55.0	1099.966	1092.268	1099.111	1096.545	1094.834
57.5	1015.288	1008.445	1014.432	1015.288	1012.722
60.0	930.609	924.622	929.754	930.609	928.043
62.5	846.786	840.798	845.075	846.786	844.220
65.0	762.962	757.830	761.252	760.396	761.252
67.5	679.995	674.863	677.429	677.429	678.284
70.0	597.027	591.895	593.605	593.605	595.316
72.5	515.769	510.637	512.348	513.203	517.480
75.0	434.512	431.946	431.091	430.236	432.802
77.5	356.676	354.110	354.966	354.110	354.966
80.0	283.973	277.985	277.985	279.696	278.841
82.5	208.703	202.715	202.715	205.281	203.571
85.0	135.144	130.012	130.012	132.578	130.012
87.5	63.295	58.163	59.018	62.440	59.874
90.0	0.000	0.000	0.000	0.000	0.000



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	823.39	N.A.	13.20
0-30	1732.5	N.A.	27.80
0-40	2807.86	N.A.	45.00
0-60	4884.99	N.A.	78.30
0-80	6096.07	N.A.	97.70
0-90	6241.75	N.A.	100.00
10-90	6027.49	N.A.	96.60
20-40	1984.47	N.A.	31.80
20-50	3081.11	N.A.	49.40
40-70	2830.24	N.A.	45.30
60-80	1211.08	N.A.	19.40
70-80	457.97	N.A.	7.30
80-90	145.68	N.A.	2.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6241.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	214.26
10-20	609.13
20-30	909.11
30-40	1075.36
40-50	1096.64
50-60	980.49
60-70	753.11
70-80	457.97
80-90	145.68
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



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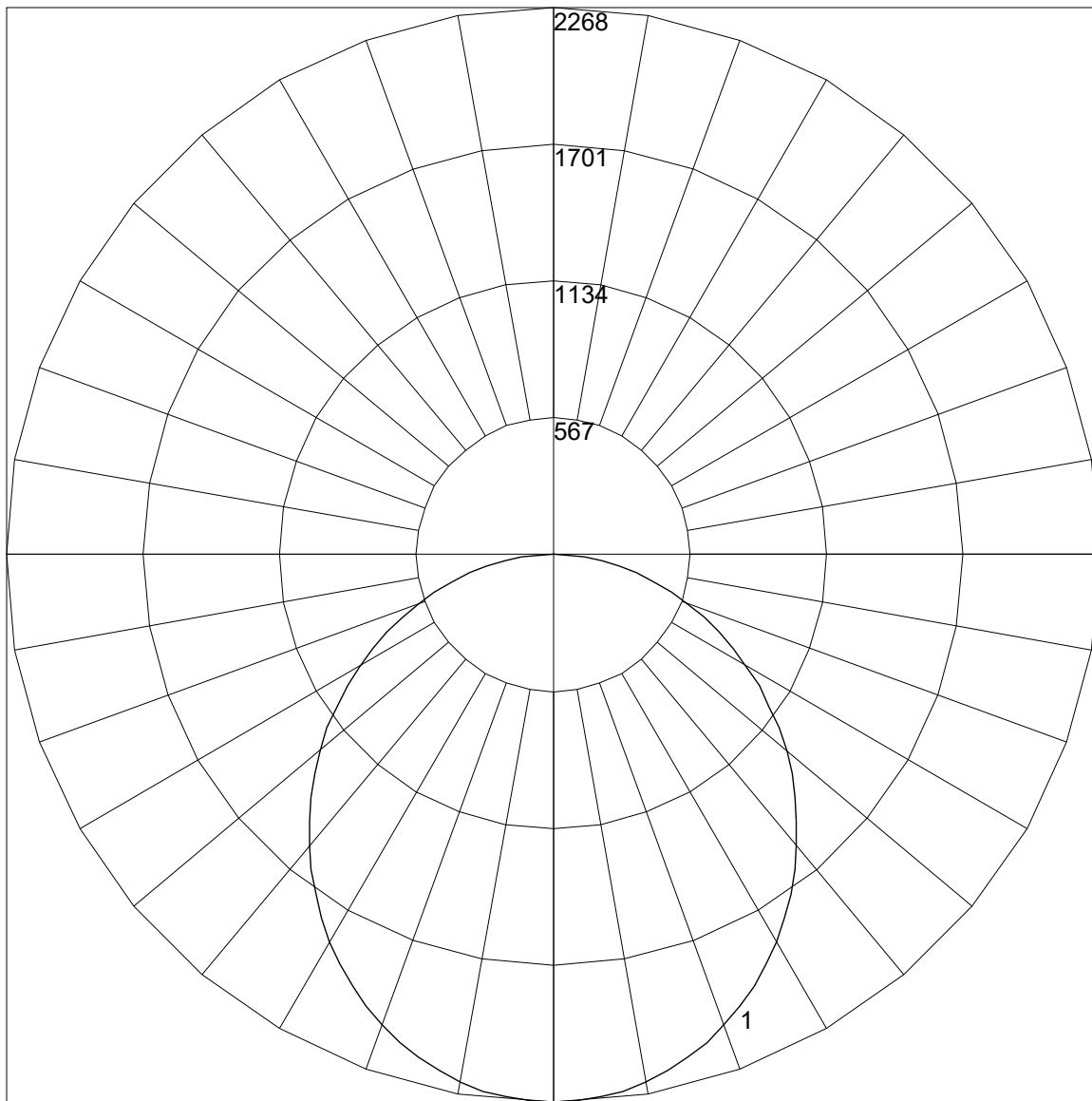
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24



POLAR GRAPH



Maximum Candela = 2267.504 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)