

# 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-I-4FT-V-835-WSO-ITL89033.600.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL89033.600  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]03/08/17  
[ISSUEDATE]02/27/18  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-4-I-4ft-V-835-WSO  
[INPUT\_ELECTRICAL]120.0 VOLTS, 36.8 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 37.4 WATTS  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL89033. 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)  
[ABSOLUTE LUMENS]4302

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	36.8
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	0	0	0	0	0
2.5	0	0	0	0	0
5.0	0	0	0	0	0
7.5	0	0	0	0	0
10.0	0	0	0	0	0
12.5	0	0	0	0	0
15.0	0	0	0	0	0
17.5	0	0	0	0	0
20.0	0	0	0	0	0
22.5	0	0	0	0	0
25.0	0	0	0	0	0
27.5	0	0	0	0	0
30.0	0	0	0	0	0
32.5	0	0	0	0	0
35.0	0	0	0	0	0
37.5	0	0	0	0	0
40.0	0	0	0	0	0
42.5	0	0	0	0	0
45.0	0	0	0	0	0
47.5	0	0	0	0	0
50.0	0	0	0	0	0
52.5	0	0	0	0	0
55.0	0	0	0	0	0
57.5	0	0	0	0	0
60.0	0	0	0	0	0
62.5	0	0	0	0	0
65.0	0	0	0	0	0
67.5	0	0	0	0	0
70.0	0	0	0	0	0
72.5	0	0	0	0	0
75.0	0	0	0	0	0
77.5	0	0	0	0	0
80.0	0	0	0	0	0
82.5	0	0	0	0	0
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0
92.5	16	28	30	30	30
95.0	45	80	82	64	64
97.5	79	136	210	131	114
100.0	119	186	333	246	193
102.5	167	227	492	381	310
105.0	211	271	614	589	472
107.5	256	315	670	862	725
110.0	299	356	697	1089	1038
112.5	343	396	729	1183	1245
115.0	385	434	783	1212	1323
117.5	419	469	826	1226	1352
120.0	450	503	854	1281	1373
122.5	477	536	872	1349	1438
125.0	503	565	885	1386	1514
127.5	527	591	895	1387	1554
130.0	547	614	903	1363	1547
132.5	568	636	910	1330	1510

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-I-4FT-V-835-WSO-ITL89033.600.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	588	656	915	1294	1462
<b>137.5</b>	607	674	917	1255	1407
<b>140.0</b>	627	691	918	1216	1349
<b>142.5</b>	647	707	917	1175	1291
<b>145.0</b>	668	723	912	1137	1234
<b>147.5</b>	685	736	905	1099	1179
<b>150.0</b>	703	749	898	1062	1129
<b>152.5</b>	721	760	890	1026	1083
<b>155.0</b>	737	771	882	992	1037
<b>157.5</b>	752	780	872	961	996
<b>160.0</b>	766	789	864	933	959
<b>162.5</b>	778	796	854	907	927
<b>165.0</b>	790	802	845	884	899
<b>167.5</b>	799	807	837	864	875
<b>170.0</b>	806	812	831	848	854
<b>172.5</b>	811	815	826	835	839
<b>175.0</b>	816	817	821	825	828
<b>177.5</b>	818	818	819	820	820
<b>180.0</b>	819	819	819	819	819

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	581.48	N.A.	13.50
90-120	1385.14	N.A.	32.20
90-130	2237.22	N.A.	52.00
90-150	3574.02	N.A.	83.10
90-180	4302.09	N.A.	100.00
110-180	3720.6	N.A.	86.50
0-180	4302.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	96.89
100-110	484.59
110-120	803.65
120-130	852.09
130-140	751.91
140-150	584.88
150-160	409.48
160-170	239.90
170-180	78.69

# IES INDOOR REPORT

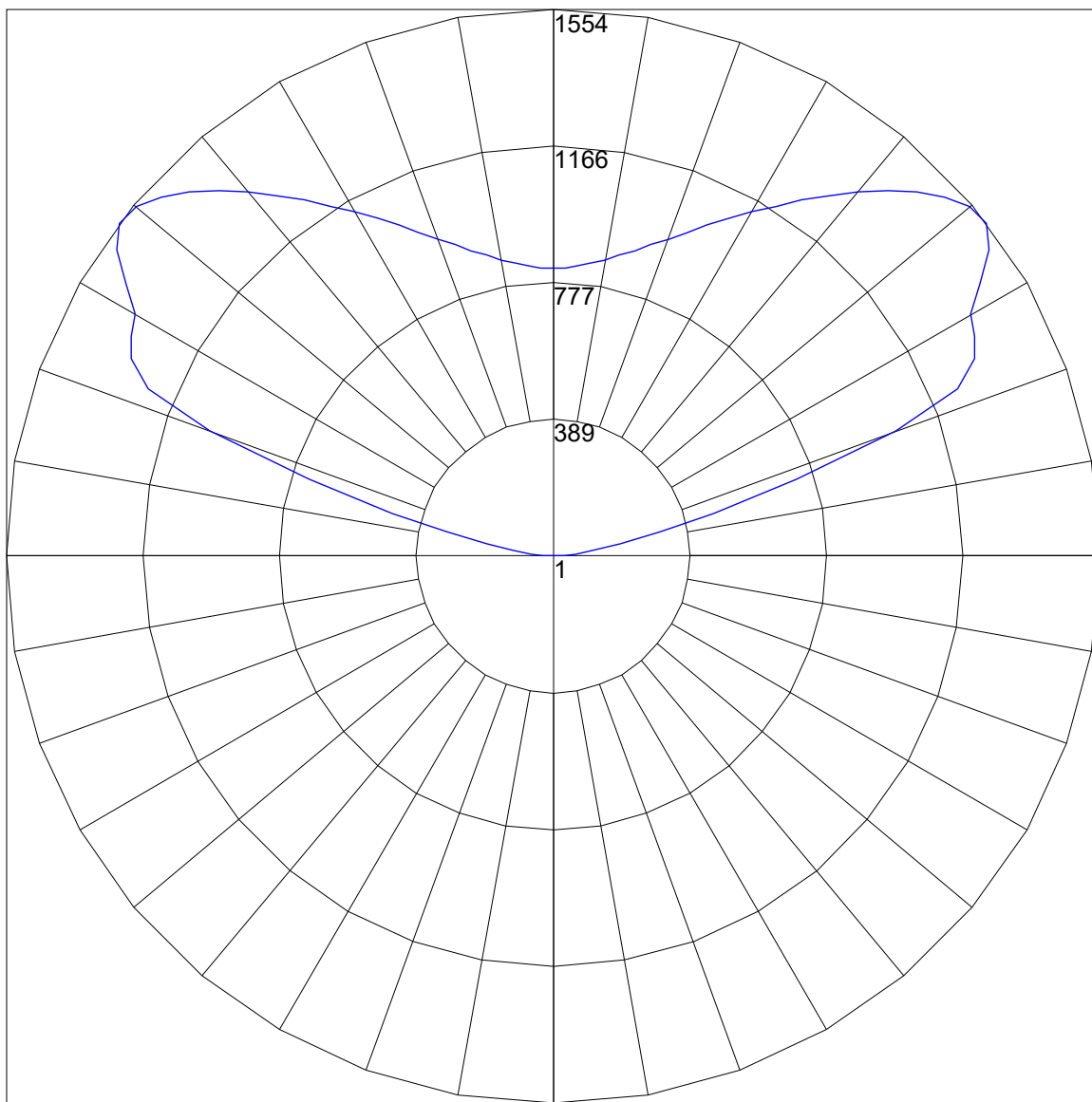
PHOTOMETRIC FILENAME : HP-4-I-4FT-V-835-WSO-ITL89033.600.IES

## 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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1554 Located At Horizontal Angle = 90, Vertical Angle = 127.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)