

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-V-H-835-WSO-DSO-ITL89033-ITL92993.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.006 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]08/04/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-V-H-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 64.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 65.3 WATTS

[OTHER]see www.finelite.com for source files ITL89033 and ITL92993. 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

[_ABSOLUTE]LUMENS]7229

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7229
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	64.5
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
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	6475	8517	9287
55	5961	8095	8671
65	5455	7386	7769
75	4904	6430	6581
85	4310	5053	4904

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-H-835-WSO-DSO-ITL89033-ITL92993.006.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	972.296	972.296	972.296	972.296	972.296
2.5	969.963	970.741	972.296	973.074	973.852
5.0	965.296	966.851	971.518	976.185	977.741
7.5	956.740	961.407	970.741	980.075	983.186
10.0	946.628	951.295	968.407	986.297	991.742
12.5	936.516	940.405	966.851	994.854	1001.854
15.0	923.293	936.516	966.073	1001.076	1009.632
17.5	894.513	908.514	965.296	1003.410	1015.855
20.0	870.400	887.512	963.740	1003.410	1017.411
22.5	846.287	866.510	945.072	1000.298	1016.633
25.0	819.062	848.620	931.071	993.298	1011.188
27.5	786.393	822.952	916.292	983.186	1000.298
30.0	755.280	794.172	898.402	968.407	983.964
32.5	722.611	767.725	881.289	951.295	963.740
35.0	689.941	738.945	852.509	927.960	937.294
37.5	654.939	707.054	824.507	893.735	906.180
40.0	622.270	674.385	793.394	857.954	871.955
42.5	584.933	642.493	759.947	822.174	832.286
45.0	549.931	606.713	723.388	779.393	788.727
47.5	515.706	570.932	686.052	737.389	745.946
50.0	479.925	534.374	645.605	693.831	696.942
52.5	444.145	497.816	601.268	646.383	647.938
55.0	410.698	459.702	557.709	595.045	597.379
57.5	377.251	422.365	512.595	546.042	546.819
60.0	343.026	384.252	466.702	496.260	497.038
62.5	308.801	348.471	420.032	447.256	444.923
65.0	276.910	310.357	374.917	395.141	394.363
67.5	245.797	273.021	329.803	346.915	345.360
70.0	212.350	237.240	285.466	297.912	294.022
72.5	182.792	202.238	241.907	251.241	248.130
75.0	152.456	168.791	199.904	206.127	204.571
77.5	124.454	135.344	159.457	164.124	162.568
80.0	96.452	105.008	121.343	124.454	120.565
82.5	70.783	75.450	85.562	87.118	84.006
85.0	45.114	47.448	52.893	51.337	51.337
87.5	21.002	21.002	21.779	20.224	19.446
90.0	0.000	0.000	0.000	0.000	0.000
92.5	16.000	28.000	30.000	30.000	30.000
95.0	45.000	80.000	82.000	64.000	64.000
97.5	79.000	136.000	210.000	131.000	114.000
100.0	119.000	186.000	333.000	246.000	193.000
102.5	167.000	227.000	492.000	381.000	310.000
105.0	211.000	271.000	614.000	589.000	472.000
107.5	256.000	315.000	670.000	862.000	725.000
110.0	299.000	356.000	697.000	1089.000	1038.000
112.5	343.000	396.000	729.000	1183.000	1245.000
115.0	385.000	434.000	783.000	1212.000	1323.000
117.5	419.000	469.000	826.000	1226.000	1352.000
120.0	450.000	503.000	854.000	1281.000	1373.000
122.5	477.000	536.000	872.000	1349.000	1438.000
125.0	503.000	565.000	885.000	1386.000	1514.000
127.5	527.000	591.000	895.000	1387.000	1554.000
130.0	547.000	614.000	903.000	1363.000	1547.000
132.5	568.000	636.000	910.000	1330.000	1510.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-H-835-WSO-DSO-ITL89033-ITL92993.006.IES****CANDELA TABULATION - (Cont.)**

135.0	588.000	656.000	915.000	1294.000	1462.000
137.5	607.000	674.000	917.000	1255.000	1407.000
140.0	627.000	691.000	918.000	1216.000	1349.000
142.5	647.000	707.000	917.000	1175.000	1291.000
145.0	668.000	723.000	912.000	1137.000	1234.000
147.5	685.000	736.000	905.000	1099.000	1179.000
150.0	703.000	749.000	898.000	1062.000	1129.000
152.5	721.000	760.000	890.000	1026.000	1083.000
155.0	737.000	771.000	882.000	992.000	1037.000
157.5	752.000	780.000	872.000	961.000	996.000
160.0	766.000	789.000	864.000	933.000	959.000
162.5	778.000	796.000	854.000	907.000	927.000
165.0	790.000	802.000	845.000	884.000	899.000
167.5	799.000	807.000	837.000	864.000	875.000
170.0	806.000	812.000	831.000	848.000	854.000
172.5	811.000	815.000	826.000	835.000	839.000
175.0	816.000	817.000	821.000	825.000	828.000
177.5	818.000	818.000	819.000	820.000	820.000
180.0	819.000	819.000	819.000	819.000	819.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-H-835-WSO-DSO-ITL89033-ITL92993.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	365.40	N.A.	5.10
0-30	790.11	N.A.	10.90
0-40	1310.26	N.A.	18.10
0-60	2319.35	N.A.	32.10
0-80	2870.25	N.A.	39.70
0-90	2927.26	N.A.	40.50
10-90	2834.61	N.A.	39.20
20-40	944.85	N.A.	13.10
20-50	1480.74	N.A.	20.50
40-70	1360.04	N.A.	18.80
60-80	550.90	N.A.	7.60
70-80	199.96	N.A.	2.80
80-90	57.01	N.A.	0.80
90-110	581.48	N.A.	8.00
90-120	1385.14	N.A.	19.20
90-130	2237.22	N.A.	30.90
90-150	3574.02	N.A.	49.40
90-180	4302.09	N.A.	59.50
110-180	3720.6	N.A.	51.50
0-180	7229.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.65
10-20	272.75
20-30	424.71
30-40	520.14
40-50	535.89
50-60	473.21
60-70	350.94
70-80	199.96
80-90	57.01
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

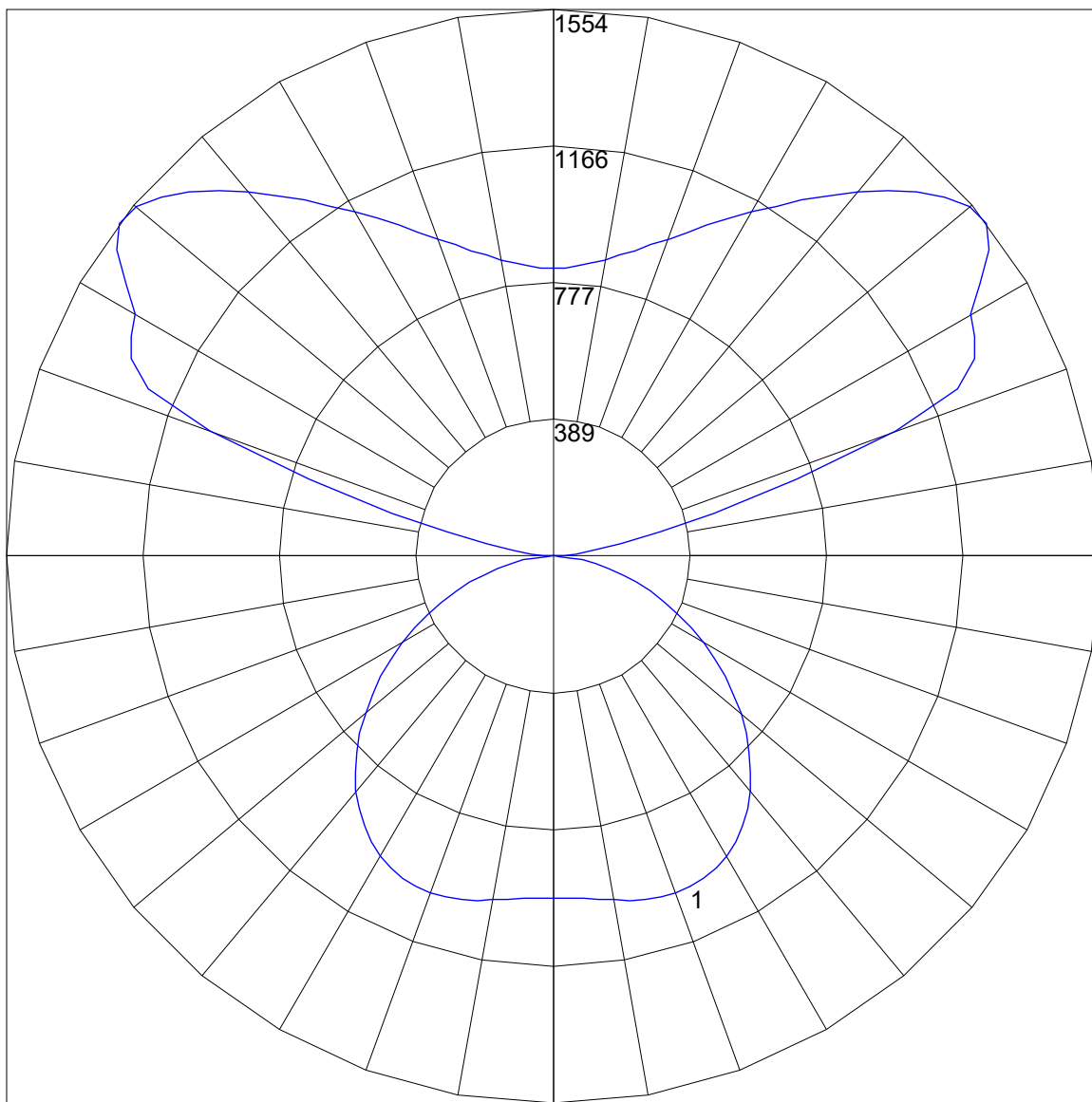
PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-H-835-WSO-DSO-ITL89033-ITL92993.006.IES

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	80	73	68	79	73	67	63	60	56	53	48	45	43	37	35	33	28
3	79	70	62	57	72	64	57	52	52	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	56	49	44	46	41	37	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	26	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	21	18	15
7	56	44	36	31	51	40	33	29	34	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	17	14	12	10

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.)