

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-B-835-WSO-DSO-ITL89033-ITL92993.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.013 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-S-B-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.6 WATTS

[OTHER]see www.finelite.com for source files ITL89033 and ITL92293. 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]3698

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3698
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	32.4
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	4285	5636	6146
55	3945	5357	5738
65	3610	4888	5141
75	3245	4255	4355
85	2852	3344	3245

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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	643.436	643.436	643.436	643.436	643.436
2.5	641.892	642.407	643.436	643.951	644.466
5.0	638.803	639.833	642.922	646.010	647.039
7.5	633.141	636.230	642.407	648.584	650.643
10.0	626.449	629.538	640.862	652.702	656.305
12.5	619.758	622.332	639.833	658.364	662.997
15.0	611.007	619.758	639.318	662.482	668.144
17.5	591.961	601.227	638.803	664.026	672.262
20.0	576.004	587.329	637.774	664.026	673.292
22.5	560.047	573.430	625.420	661.967	672.777
25.0	542.031	561.591	616.154	657.335	669.174
27.5	520.411	544.604	606.374	650.643	661.967
30.0	499.821	525.559	594.535	640.862	651.158
32.5	478.202	508.057	583.211	629.538	637.774
35.0	456.582	489.012	564.165	614.096	620.273
37.5	433.419	467.907	545.634	591.447	599.683
40.0	411.799	446.287	525.044	567.768	577.034
42.5	387.091	425.183	502.910	544.090	550.781
45.0	363.928	401.504	478.717	515.779	521.956
47.5	341.279	377.826	454.009	487.982	493.644
50.0	317.600	353.633	427.242	459.156	461.215
52.5	293.922	329.439	397.901	427.756	428.786
55.0	271.788	304.217	369.075	393.783	395.327
57.5	249.653	279.509	339.220	361.354	361.869
60.0	227.004	254.286	308.849	328.410	328.925
62.5	204.355	230.608	277.964	295.981	294.436
65.0	183.251	205.385	248.109	261.493	260.978
67.5	162.661	180.677	218.254	229.578	228.549
70.0	140.526	156.998	188.913	197.149	194.575
72.5	120.966	133.835	160.087	166.264	164.205
75.0	100.891	111.701	132.291	136.409	135.379
77.5	82.360	89.566	105.523	108.612	107.582
80.0	63.829	69.491	80.301	82.360	79.786
82.5	46.842	49.931	56.622	57.652	55.593
85.0	29.855	31.400	35.003	33.973	33.973
87.5	13.898	13.898	14.413	13.383	12.869
90.0	0.000	0.000	0.000	0.000	0.000
92.5	6.550	11.463	12.281	12.281	12.281
95.0	18.422	32.750	33.569	26.200	26.200
97.5	32.341	55.675	85.969	53.628	46.669
100.0	48.716	76.144	136.322	100.707	79.010
102.5	68.366	92.928	201.413	155.972	126.907
105.0	86.378	110.941	251.357	241.123	193.226
107.5	104.800	128.953	274.282	352.882	296.798
110.0	122.403	145.738	285.335	445.810	424.932
112.5	140.416	162.113	298.435	484.292	509.673
115.0	157.610	177.669	320.541	496.164	541.604
117.5	171.529	191.997	338.145	501.895	553.476
120.0	184.219	205.916	349.607	524.411	562.073
122.5	195.272	219.425	356.976	552.248	588.683
125.0	205.916	231.297	362.298	567.395	619.795
127.5	215.741	241.941	366.392	567.804	636.170
130.0	223.929	251.357	369.666	557.980	633.305
132.5	232.526	260.363	372.532	544.470	618.158

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-B-835-WSO-DSO-ITL89033-ITL92993.013.IES****CANDELA TABULATION - (Cont.)**

135.0	240.713	268.551	374.579	529.732	598.508
137.5	248.491	275.919	375.398	513.767	575.992
140.0	256.679	282.879	375.807	497.801	552.248
142.5	264.866	289.429	375.398	481.017	528.504
145.0	273.463	295.979	373.351	465.461	505.170
147.5	280.423	301.301	370.485	449.904	482.654
150.0	287.791	306.623	367.620	434.757	462.185
152.5	295.160	311.126	364.345	420.020	443.354
155.0	301.710	315.629	361.070	406.101	424.523
157.5	307.851	319.313	356.976	393.410	407.738
160.0	313.582	322.998	353.701	381.948	392.592
162.5	318.495	325.863	349.607	371.304	379.491
165.0	323.407	328.320	345.923	361.888	368.029
167.5	327.091	330.366	342.648	353.701	358.204
170.0	329.957	332.413	340.192	347.151	349.607
172.5	332.004	333.641	338.145	341.829	343.466
175.0	334.051	334.460	336.098	337.735	338.963
177.5	334.870	334.870	335.279	335.688	335.688
180.0	335.279	335.279	335.279	335.279	335.279

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-B-835-WSO-DSO-ITL89033-ITL92993.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	241.81	N.A.	6.50
0-30	522.87	N.A.	14.10
0-40	867.09	N.A.	23.40
0-60	1534.88	N.A.	41.50
0-80	1899.44	N.A.	51.40
0-90	1937.17	N.A.	52.40
10-90	1875.86	N.A.	50.70
20-40	625.28	N.A.	16.90
20-50	979.91	N.A.	26.50
40-70	900.03	N.A.	24.30
60-80	364.57	N.A.	9.90
70-80	132.33	N.A.	3.60
80-90	37.73	N.A.	1.00
90-110	238.04	N.A.	6.40
90-120	567.04	N.A.	15.30
90-130	915.86	N.A.	24.80
90-150	1463.12	N.A.	39.60
90-180	1761.17	N.A.	47.60
110-180	1523.13	N.A.	41.20
0-180	3698.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.32
10-20	180.50
20-30	281.06
30-40	344.22
40-50	354.63
50-60	313.15
60-70	232.24
70-80	132.33
80-90	37.73
90-100	39.67
100-110	198.38
110-120	329.00
120-130	348.82
130-140	307.81
140-150	239.44
150-160	167.63
160-170	98.21
170-180	32.21

IES INDOOR REPORT

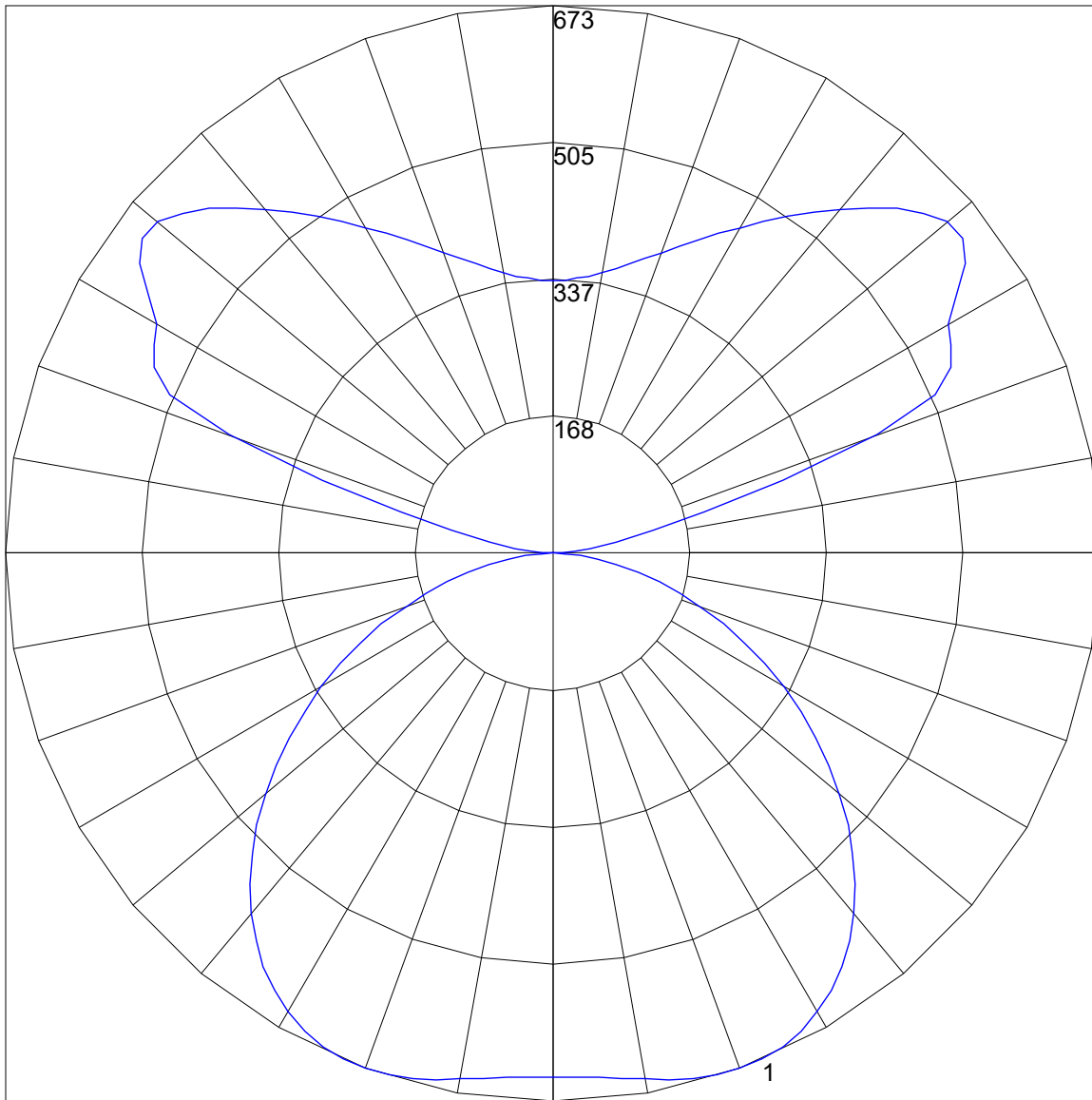
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	72	69	62	60	59	51	50	49	44
2	89	82	75	70	82	76	70	66	65	61	57	54	51	49	45	43	41	36
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	74	63	55	49	68	59	52	46	50	45	41	43	38	35	35	32	30	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	28	26	23
6	63	50	42	36	58	47	40	34	41	35	30	34	30	26	29	25	23	20
7	58	45	37	32	53	42	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	33	28	50	39	31	27	33	28	24	29	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	15	13

POLAR GRAPH



Maximum Candela = 673.292 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)