

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-S-835-WSO-DSO-ITL89033-ITL92993.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.001 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-S-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 31.0 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]3301

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3301
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	28.5
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	3407	4481	4886
55	3136	4259	4562
65	2870	3886	4088
75	2580	3383	3462
85	2267	2658	2580

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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	511.560	511.560	511.560	511.560	511.560
2.5	510.332	510.741	511.560	511.969	512.379
5.0	507.877	508.695	511.151	513.606	514.425
7.5	503.375	505.830	510.741	515.653	517.289
10.0	498.055	500.510	509.514	518.927	521.791
12.5	492.735	494.781	508.695	523.428	527.111
15.0	485.777	492.735	508.286	526.702	531.204
17.5	470.635	478.002	507.877	527.930	534.478
20.0	457.949	466.952	507.058	527.930	535.296
22.5	445.262	455.902	497.236	526.293	534.887
25.0	430.938	446.490	489.870	522.610	532.022
27.5	413.750	432.984	482.094	517.289	526.293
30.0	397.380	417.842	472.681	509.514	517.699
32.5	380.191	403.928	463.678	500.510	507.058
35.0	363.003	388.786	448.536	488.233	493.144
37.5	344.587	372.006	433.803	470.226	476.774
40.0	327.398	354.818	417.433	451.401	458.767
42.5	307.755	338.039	399.835	432.575	437.895
45.0	289.338	319.213	380.601	410.067	414.978
47.5	271.331	300.388	360.957	387.967	392.469
50.0	252.506	281.153	339.676	365.049	366.686
52.5	233.681	261.919	316.349	340.085	340.904
55.0	216.083	241.866	293.431	313.075	314.303
57.5	198.485	222.222	269.694	287.292	287.701
60.0	180.478	202.168	245.549	261.100	261.510
62.5	162.471	183.343	220.994	235.318	234.090
65.0	145.692	163.290	197.257	207.898	207.489
67.5	129.322	143.646	173.521	182.525	181.706
70.0	111.725	124.821	150.194	156.742	154.696
72.5	96.173	106.404	127.276	132.187	130.550
75.0	80.213	88.807	105.177	108.451	107.632
77.5	65.480	71.209	83.896	86.351	85.533
80.0	50.747	55.248	63.843	65.480	63.433
82.5	37.242	39.697	45.017	45.836	44.199
85.0	23.736	24.964	27.829	27.010	27.010
87.5	11.050	11.050	11.459	10.640	10.231
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-S-835-WSO-DSO-ITL89033-ITL92993.001.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

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Zone	Lumens	%Lamp	%Fixt
0-20	192.25	N.A.	5.80
0-30	415.71	N.A.	12.60
0-40	689.37	N.A.	20.90
0-60	1220.29	N.A.	37.00
0-80	1510.14	N.A.	45.70
0-90	1540.14	N.A.	46.70
10-90	1491.39	N.A.	45.20
20-40	497.12	N.A.	15.10
20-50	779.07	N.A.	23.60
40-70	715.56	N.A.	21.70
60-80	289.85	N.A.	8.80
70-80	105.20	N.A.	3.20
80-90	30.00	N.A.	0.90
90-110	238.04	N.A.	7.20
90-120	567.04	N.A.	17.20
90-130	915.86	N.A.	27.70
90-150	1463.12	N.A.	44.30
90-180	1761.17	N.A.	53.30
110-180	1523.13	N.A.	46.10
0-180	3301.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.75
10-20	143.50
20-30	223.45
30-40	273.67
40-50	281.95
50-60	248.97
60-70	184.64
70-80	105.20
80-90	30.00
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

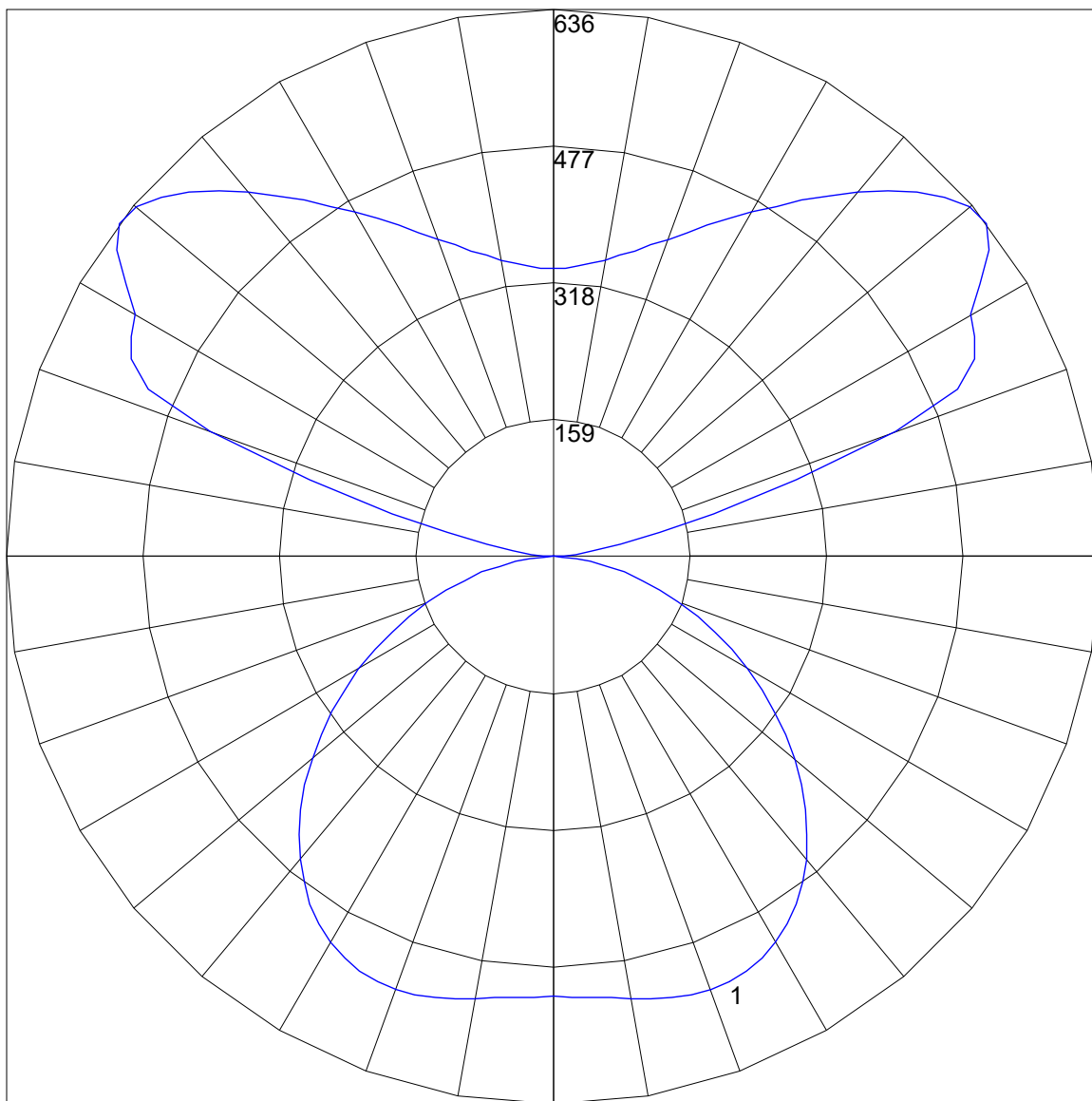
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	46	45	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	57	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	62	55	48	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	26	29	25	22	24	21	18	15
8	53	41	33	27	49	38	31	26	32	27	23	27	22	19	22	19	16	14
9	49	37	29	24	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	31	25	21	27	22	18	23	19	16	19	15	13	11

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POLAR GRAPH



Maximum Candela = 636.17 Located At Horizontal Angle = 90, Vertical Angle = 127.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)