

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-X-ID-4FT-V-S-835-WSO-F-ITL92314.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.006 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUEDATE]12/13/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-V-S-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 48.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 49.2 WATTS
[ABSOLUTE LUMENS]5862
[OTHER]see www.finelite.com for source file ITL92314. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5861
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Semi-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)	0.20 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7219	7250	7196
55	6983	7003	6955
65	6618	6657	6644
75	6157	6241	6284
85	5359	5737	5863

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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	561.039	561.039	561.039	561.039	561.039
2.5	560.634	560.634	560.634	560.634	560.634
5.0	559.016	559.016	559.016	559.016	559.016
7.5	555.376	555.780	555.780	556.185	555.780
10.0	551.735	550.522	552.140	552.140	550.926
12.5	546.477	544.454	546.881	546.881	544.859
15.0	540.409	537.578	540.409	540.814	537.982
17.5	532.724	528.679	532.724	533.533	529.892
20.0	523.016	519.375	523.420	523.825	521.398
22.5	512.903	508.454	513.308	513.712	511.286
25.0	501.982	497.937	502.387	502.791	500.364
27.5	489.038	485.398	489.847	490.252	487.825
30.0	475.690	472.454	476.499	476.499	474.072
32.5	461.532	457.487	462.341	461.937	459.510
35.0	446.566	442.116	446.566	446.566	444.948
37.5	429.172	426.745	431.195	430.386	428.363
40.0	412.588	410.161	413.801	412.993	410.565
42.5	394.790	391.959	395.599	394.790	392.767
45.0	375.779	374.161	377.397	375.779	374.565
47.5	356.767	355.149	357.981	355.958	354.745
50.0	336.542	334.924	338.160	335.733	334.520
52.5	315.509	315.104	317.531	315.913	314.295
55.0	294.879	294.879	295.688	294.474	293.666
57.5	273.441	273.036	273.845	272.632	271.823
60.0	251.193	250.789	252.407	251.193	250.789
62.5	229.350	228.946	230.159	229.350	228.946
65.0	205.889	206.698	207.103	206.698	206.698
67.5	184.047	184.451	185.260	185.260	185.260
70.0	161.395	161.395	163.013	162.608	163.013
72.5	139.552	139.552	140.765	140.361	140.765
75.0	117.304	117.709	118.922	119.327	119.731
77.5	95.462	96.270	97.484	98.698	98.698
80.0	75.237	75.237	76.855	77.664	77.664
82.5	54.607	55.416	56.630	57.034	57.843
85.0	34.382	35.596	36.809	37.618	37.618
87.5	15.371	16.584	17.798	19.011	19.011
90.0	0.809	2.427	3.640	5.258	6.067
92.5	15.801	40.490	81.967	42.465	38.515
95.0	37.527	85.918	210.350	100.731	79.005
97.5	63.204	126.407	390.085	189.611	137.270
100.0	89.868	163.935	590.559	324.906	226.151
102.5	118.507	191.586	743.630	546.119	367.371
105.0	145.171	221.213	817.697	895.714	628.086
107.5	172.822	248.864	824.610	1297.650	1028.047
110.0	202.449	277.503	804.859	1569.228	1464.547
112.5	232.076	306.143	786.095	1659.096	1720.324
115.0	260.715	336.757	777.207	1663.046	1817.105
117.5	289.354	366.384	778.195	1623.544	1842.781
120.0	314.043	393.048	779.183	1563.303	1816.117
122.5	337.745	415.762	781.158	1499.112	1762.789
125.0	357.496	435.513	784.120	1437.883	1695.635
127.5	377.247	454.276	784.120	1375.667	1624.531
130.0	396.998	471.065	785.108	1316.414	1550.465
132.5	413.786	484.890	782.145	1259.135	1475.410

CANDELA TABULATION - (Cont.)

135.0	431.562	497.729	776.220	1202.844	1395.418
137.5	449.338	511.555	769.307	1149.516	1324.314
140.0	466.127	524.393	757.456	1093.226	1250.247
142.5	482.915	536.244	745.606	1035.947	1172.230
145.0	499.704	548.094	731.780	981.632	1095.201
147.5	515.505	557.970	718.942	927.316	1025.084
150.0	530.318	567.845	707.091	877.938	956.943
152.5	544.144	576.733	696.228	835.473	898.677
155.0	558.957	585.621	684.377	796.958	845.349
157.5	569.820	592.534	674.501	762.394	799.921
160.0	581.671	599.447	664.626	731.780	759.431
162.5	591.547	605.372	655.738	706.103	726.842
165.0	601.422	611.298	647.837	684.377	698.203
167.5	608.335	615.248	640.924	665.613	675.489
170.0	614.260	619.198	634.999	650.800	656.725
172.5	620.186	623.148	632.037	640.924	643.887
175.0	623.148	624.136	628.086	632.037	634.012
177.5	625.124	625.124	626.111	627.099	628.086
180.0	626.111	626.111	626.111	626.111	626.111

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	205.34	N.A.	3.50
0-30	436.14	N.A.	7.40
0-40	714.72	N.A.	12.20
0-60	1267.69	N.A.	21.60
0-80	1598.02	N.A.	27.30
0-90	1639.00	N.A.	28.00
10-90	1585.89	N.A.	27.10
20-40	509.38	N.A.	8.70
20-50	798.99	N.A.	13.60
40-70	757.84	N.A.	12.90
60-80	330.33	N.A.	5.60
70-80	125.46	N.A.	2.10
80-90	40.98	N.A.	0.70
90-110	759.23	N.A.	13.00
90-120	1690.66	N.A.	28.80
90-130	2516.53	N.A.	42.90
90-150	3655.84	N.A.	62.40
90-180	4222.27	N.A.	72.00
110-180	3463.04	N.A.	59.10
0-180	5861.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

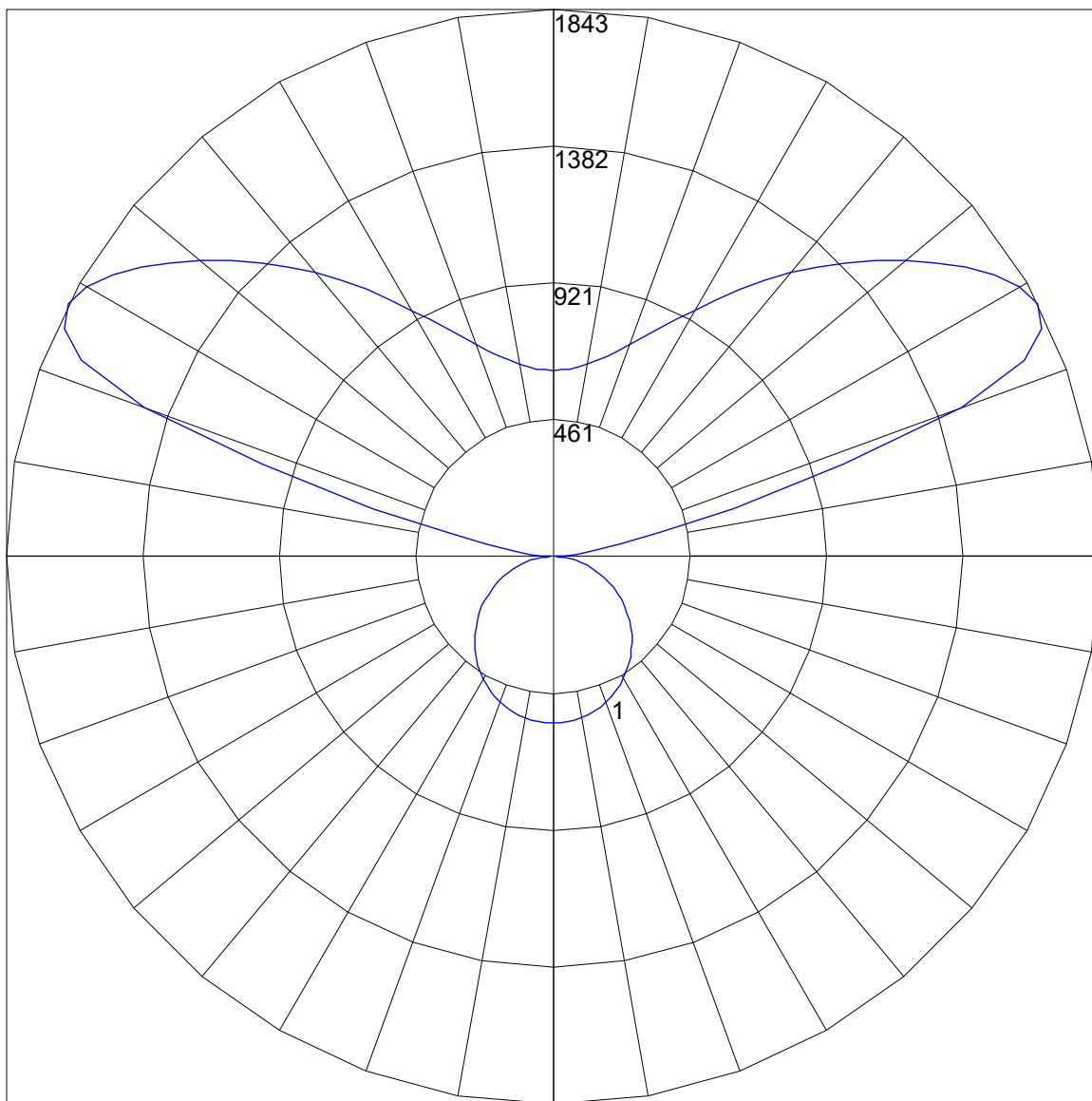
Zone	Lumens
0-10	53.12
10-20	152.22
20-30	230.81
30-40	278.58
40-50	289.61
50-60	263.36
60-70	204.87
70-80	125.46
80-90	40.98
90-100	141.41
100-110	617.82
110-120	931.43
120-130	825.87
130-140	657.55
140-150	481.76
150-160	321.74
160-170	184.47
170-180	60.22

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	88	85	81	83	79	76	73	62	60	58	46	45	43	31	31	30	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	67	60	55	68	61	54	50	47	43	40	35	33	30	24	22	21	16
4	70	60	52	46	62	53	47	42	42	37	34	31	28	26	21	20	18	14
5	64	53	45	39	57	48	41	36	37	33	29	28	25	22	19	17	16	12
6	59	47	39	34	52	42	36	31	34	29	25	25	22	19	17	15	14	10
7	54	42	35	29	48	38	32	27	30	25	22	23	19	17	16	14	12	9
8	50	38	31	26	45	35	28	23	27	23	19	21	17	15	15	12	11	8
9	47	35	28	23	42	31	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	20	39	29	23	19	23	18	15	18	14	12	12	10	9	7

POLAR GRAPH



Maximum Candela = 1842.781 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)