

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 : HPO-ID-4FT-H-S-835-WSO-F-ITL92549.309.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92549.309 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]11/20/19
[ISSUEDATE]09/09/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HPO-ID-4ft-H-S-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 40.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 41.3 WATTS
[ABSOLUTE LUMENS]4924
[OTHER]see www.finelite.com for source files ITL92549. 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	4924
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	40
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	7250	7250	7195
55	7009	7009	6941
65	6671	6671	6644
75	6144	6230	6252
85	5423	5742	5806

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPO-ID-4FT-H-S-835-WSO-F-ITL92549.309.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	562.842	562.842	562.842	562.842	562.842
2.5	561.614	562.024	562.024	562.024	562.433
5.0	559.568	559.977	559.977	559.977	560.386
7.5	556.702	557.112	557.521	557.521	557.521
10.0	552.609	552.199	553.018	553.018	552.199
12.5	548.106	546.059	548.106	548.515	547.287
15.0	541.147	538.691	541.147	541.557	540.329
17.5	533.779	530.095	533.370	533.779	531.732
20.0	525.183	520.271	523.955	524.364	522.727
22.5	515.768	509.628	513.721	514.131	512.494
25.0	503.488	498.576	502.260	502.669	501.441
27.5	490.798	486.705	489.980	490.798	489.161
30.0	477.700	472.788	477.290	476.472	475.653
32.5	462.963	458.461	462.554	462.145	460.917
35.0	447.818	443.724	446.999	446.590	444.952
37.5	431.035	427.351	431.035	430.216	428.988
40.0	413.433	410.159	414.252	413.024	412.205
42.5	395.832	392.966	396.241	395.013	392.966
45.0	377.411	374.546	377.411	375.774	374.546
47.5	357.354	355.307	357.763	356.126	355.716
50.0	337.705	334.840	338.115	336.068	335.249
52.5	316.829	314.782	316.829	315.601	314.373
55.0	295.953	293.906	295.953	294.315	293.087
57.5	274.258	272.620	273.848	273.030	272.211
60.0	252.153	250.516	252.153	250.925	250.925
62.5	229.230	228.002	229.640	228.412	229.230
65.0	207.535	206.307	207.535	206.717	206.717
67.5	184.203	183.384	185.022	184.203	185.431
70.0	162.099	161.689	162.508	162.508	162.508
72.5	138.766	139.176	140.404	140.813	141.222
75.0	117.071	117.071	118.709	119.118	119.118
77.5	95.376	96.195	97.013	98.242	98.242
80.0	74.909	75.318	76.547	76.956	77.775
82.5	54.852	55.261	56.489	57.308	57.308
85.0	34.794	35.203	36.841	37.659	37.250
87.5	15.964	16.374	17.602	18.420	18.830
90.0	0.000	0.000	0.000	0.000	0.000
92.5	10.890	30.335	65.338	33.447	28.780
95.0	28.780	64.560	166.456	77.005	60.671
97.5	49.003	96.451	308.021	148.566	108.896
100.0	69.227	125.231	462.032	258.240	177.346
102.5	90.229	147.010	578.707	441.809	292.465
105.0	112.786	169.567	630.822	717.939	506.368
107.5	134.565	191.347	630.044	1039.183	843.170
110.0	155.566	213.126	612.154	1232.086	1169.081
112.5	178.124	236.461	598.930	1291.201	1347.983
115.0	201.458	259.796	593.486	1284.978	1415.654
117.5	225.571	284.686	595.819	1249.976	1424.210
120.0	245.795	305.688	598.153	1202.528	1400.875
122.5	266.018	324.356	601.264	1155.080	1358.872
125.0	283.131	340.690	604.375	1106.855	1307.535
127.5	298.687	355.469	605.931	1059.407	1250.754
130.0	312.688	367.914	606.709	1015.848	1194.750
132.5	325.911	379.582	605.931	972.290	1138.746

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPO-ID-4FT-H-S-835-WSO-F-ITL92549.309.IES

CANDELA TABULATION - (Cont.)

135.0	339.135	390.472	602.820	931.065	1081.186
137.5	352.358	399.806	597.375	890.617	1025.960
140.0	365.581	410.695	590.374	847.837	968.401
142.5	378.026	420.029	581.040	804.278	909.285
145.0	391.249	429.363	571.706	763.053	853.281
147.5	403.695	437.142	562.372	724.161	800.389
150.0	414.584	444.920	553.038	686.826	749.052
152.5	426.252	451.920	544.482	653.379	702.382
155.0	436.364	458.143	535.926	623.043	661.935
157.5	446.475	463.588	528.148	595.819	626.155
160.0	455.809	469.810	521.147	573.262	595.819
162.5	464.366	475.255	514.147	553.816	570.151
165.0	470.588	479.144	507.924	536.704	546.816
167.5	476.811	483.034	502.479	521.925	528.926
170.0	481.478	486.145	497.812	511.035	514.925
172.5	485.367	488.478	494.701	501.702	504.813
175.0	487.701	489.256	492.367	494.701	496.257
177.5	490.034	490.812	491.590	492.367	491.590
180.0	490.034	490.034	490.034	490.034	490.034

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HPO-ID-4FT-H-S-835-WSO-F-ITL92549.309.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	205.78	N.A.	4.20
0-30	436.94	N.A.	8.90
0-40	715.88	N.A.	14.50
0-60	1269.13	N.A.	25.80
0-80	1598.97	N.A.	32.50
0-90	1639.32	N.A.	33.30
10-90	1586.08	N.A.	32.20
20-40	510.10	N.A.	10.40
20-50	800.00	N.A.	16.20
40-70	757.88	N.A.	15.40
60-80	329.84	N.A.	6.70
70-80	125.21	N.A.	2.50
80-90	40.35	N.A.	0.80
90-110	596.23	N.A.	12.10
90-120	1316.62	N.A.	26.70
90-130	1954.74	N.A.	39.70
90-150	2840.91	N.A.	57.70
90-180	3284.53	N.A.	66.70
110-180	2688.31	N.A.	54.60
0-180	4923.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

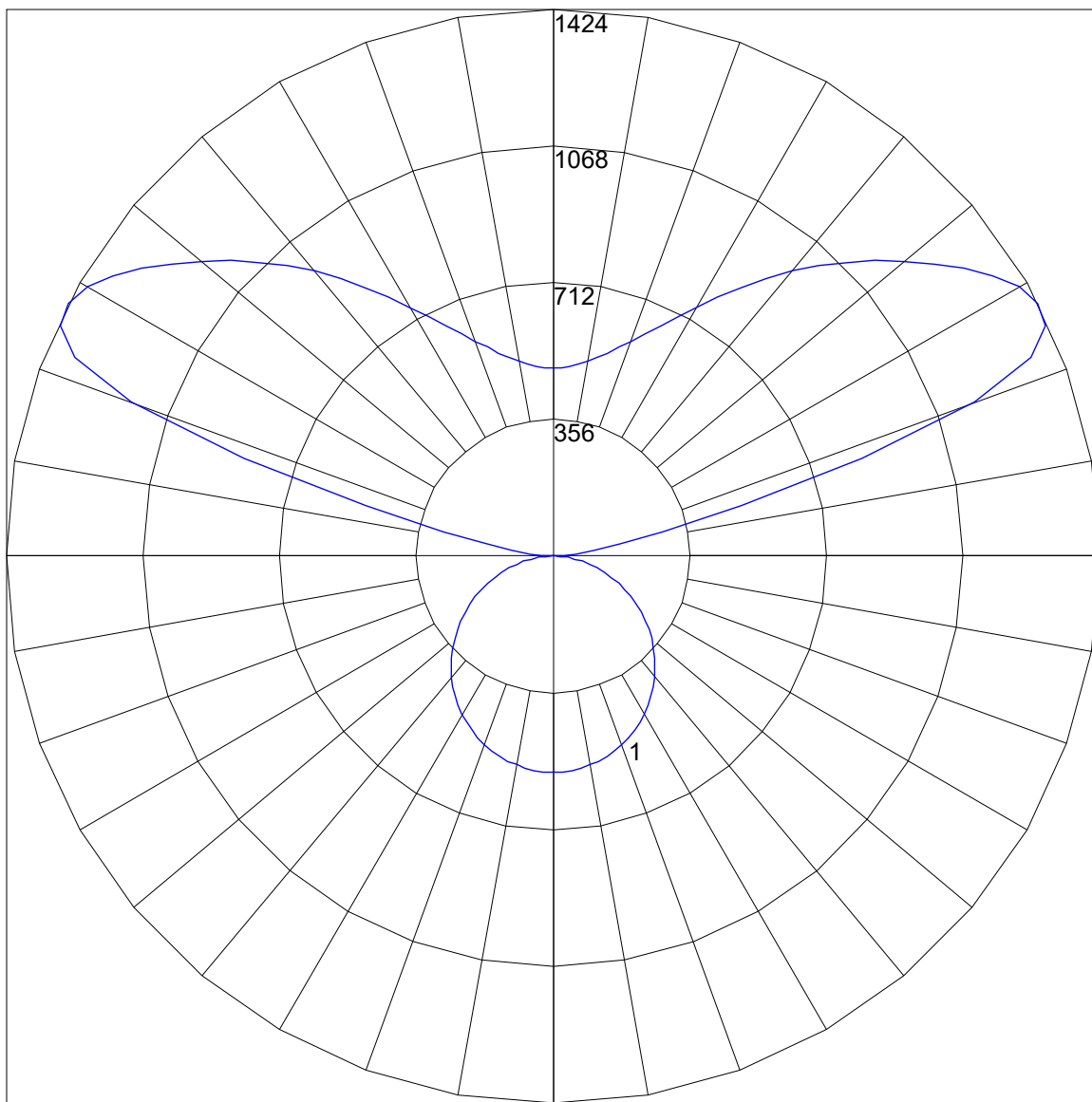
Zone	Lumens
0-10	53.24
10-20	152.54
20-30	231.17
30-40	278.94
40-50	289.90
50-60	263.35
60-70	204.63
70-80	125.21
80-90	40.35
90-100	110.02
100-110	486.21
110-120	720.40
120-130	638.11
130-140	510.36
140-150	375.81
150-160	251.78
160-170	144.65
170-180	47.19

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	82	84	81	78	75	64	62	60	49	48	47	36	35	34	28
2	85	78	72	67	77	70	65	61	56	53	50	43	41	39	31	30	28	23
3	78	68	61	55	70	62	56	51	49	45	41	38	35	32	27	26	24	19
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	17	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 1424.21 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)