

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-V-S-835-WSO-F-ITL92549.306.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92549.306 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/20/19

[ISSUEDATE]09/09/20

[MANUFAC]FINELITE, INC.

[LUMCAT]HPO-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 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	5862
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	7250	7250	7195
55	7009	7009	6941
65	6671	6671	6644
75	6144	6230	6252
85	5423	5742	5806

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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	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	14.000	39.000	84.000	43.000	37.000
95.0	37.000	83.000	214.000	99.000	78.000
97.5	63.000	124.000	396.000	191.000	140.000
100.0	89.000	161.000	594.000	332.000	228.000
102.5	116.000	189.000	744.000	568.000	376.000
105.0	145.000	218.000	811.000	923.000	651.000
107.5	173.000	246.000	810.000	1336.000	1084.000
110.0	200.000	274.000	787.000	1584.000	1503.000
112.5	229.000	304.000	770.000	1660.000	1733.000
115.0	259.000	334.000	763.000	1652.000	1820.000
117.5	290.000	366.000	766.000	1607.000	1831.000
120.0	316.000	393.000	769.000	1546.000	1801.000
122.5	342.000	417.000	773.000	1485.000	1747.000
125.0	364.000	438.000	777.000	1423.000	1681.000
127.5	384.000	457.000	779.000	1362.000	1608.000
130.0	402.000	473.000	780.000	1306.000	1536.000
132.5	419.000	488.000	779.000	1250.000	1464.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPO-ID-4FT-V-S-835-WSO-F-ITL92549.306.IES****CANDELA TABULATION - (Cont.)**

135.0	436.000	502.000	775.000	1197.000	1390.000
137.5	453.000	514.000	768.000	1145.000	1319.000
140.0	470.000	528.000	759.000	1090.000	1245.000
142.5	486.000	540.000	747.000	1034.000	1169.000
145.0	503.000	552.000	735.000	981.000	1097.000
147.5	519.000	562.000	723.000	931.000	1029.000
150.0	533.000	572.000	711.000	883.000	963.000
152.5	548.000	581.000	700.000	840.000	903.000
155.0	561.000	589.000	689.000	801.000	851.000
157.5	574.000	596.000	679.000	766.000	805.000
160.0	586.000	604.000	670.000	737.000	766.000
162.5	597.000	611.000	661.000	712.000	733.000
165.0	605.000	616.000	653.000	690.000	703.000
167.5	613.000	621.000	646.000	671.000	680.000
170.0	619.000	625.000	640.000	657.000	662.000
172.5	624.000	628.000	636.000	645.000	649.000
175.0	627.000	629.000	633.000	636.000	638.000
177.5	630.000	631.000	632.000	633.000	632.000
180.0	630.000	630.000	630.000	630.000	630.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	205.78	N.A.	3.50
0-30	436.94	N.A.	7.50
0-40	715.88	N.A.	12.20
0-60	1269.13	N.A.	21.70
0-80	1598.97	N.A.	27.30
0-90	1639.32	N.A.	28.00
10-90	1586.08	N.A.	27.10
20-40	510.10	N.A.	8.70
20-50	800.00	N.A.	13.60
40-70	757.88	N.A.	12.90
60-80	329.84	N.A.	5.60
70-80	125.21	N.A.	2.10
80-90	40.35	N.A.	0.70
90-110	766.52	N.A.	13.10
90-120	1692.68	N.A.	28.90
90-130	2513.06	N.A.	42.90
90-150	3652.34	N.A.	62.30
90-180	4222.68	N.A.	72.00
110-180	3456.16	N.A.	59.00
0-180	5862.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

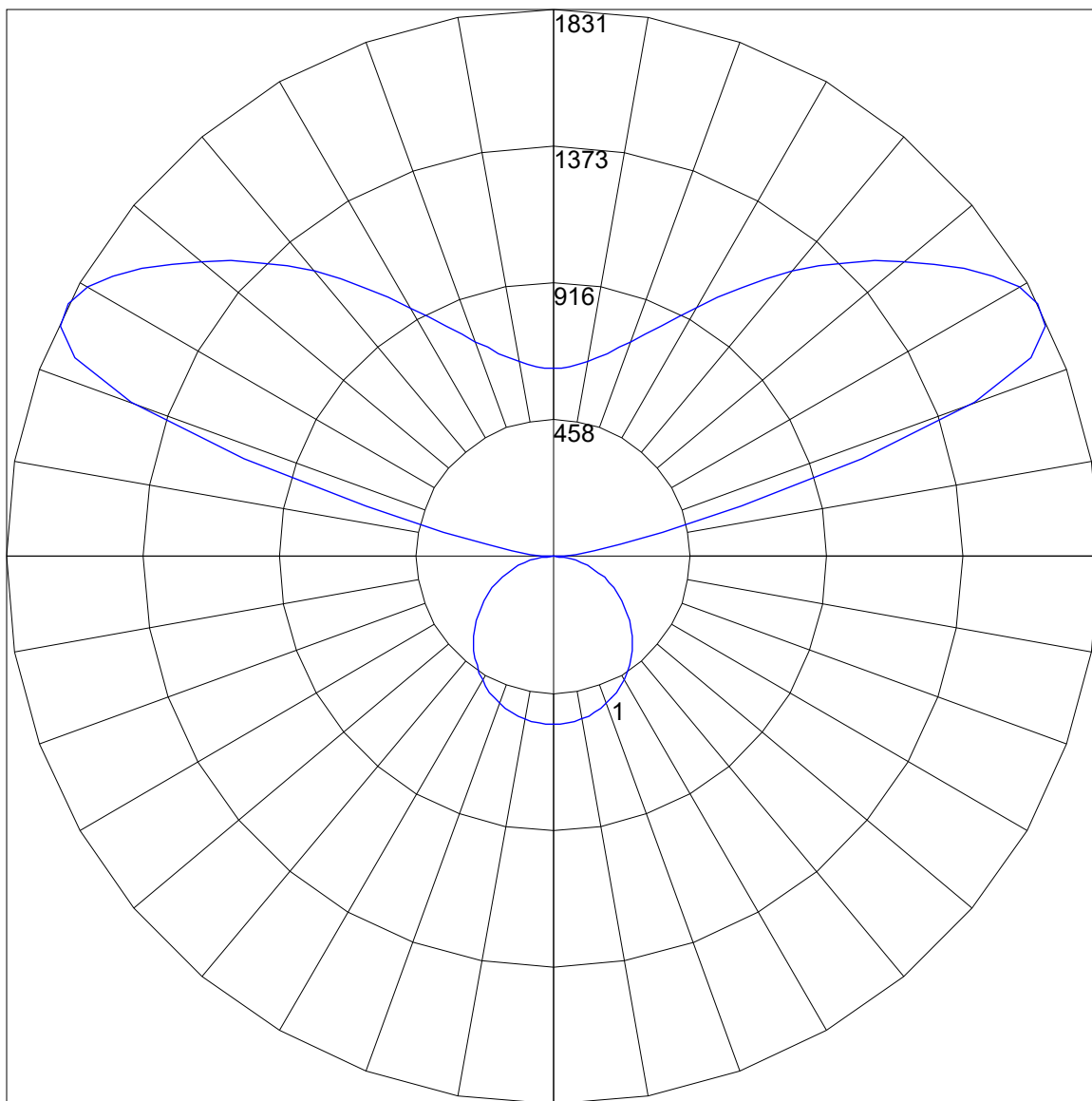
Zone	Lumens
0-10	53.24
10-20	152.54
20-30	231.17
30-40	278.94
40-50	289.90
50-60	263.35
60-70	204.63
70-80	125.21
80-90	40.35
90-100	141.44
100-110	625.08
110-120	926.16
120-130	820.37
130-140	656.14
140-150	483.15
150-160	323.70
160-170	185.97
170-180	60.67

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	22	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	43	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	24	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 = 1831 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)