

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-WL-D-4FT-B-835-F-ITL90390.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90390.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/13/18
[ISSUEDATE]05/25/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-4-WL-D-4ft-B-835-F
[INPUT_ELECTRICAL]120.0 VOLTS, 18.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 19.5 WATTS
[ABSOLUTE LUMENS]1779
[OTHER]see www.finelite.com for source file ITL90390. 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	1779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.88 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5262	5198	5120
55	5013	4941	4838
65	4651	4565	4478
75	3992	3939	3956
85	2727	2885	2990

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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	646.535	646.535	646.535	646.535	646.535
2.5	645.505	645.505	645.505	645.505	645.505
5.0	643.446	643.446	643.446	642.931	642.931
7.5	639.328	638.813	638.813	638.299	638.299
10.0	634.695	632.636	633.666	633.151	632.121
12.5	628.003	624.400	626.459	625.944	624.400
15.0	619.253	615.135	617.194	617.194	615.135
17.5	609.987	604.325	607.413	606.384	604.325
20.0	598.148	591.970	595.059	594.029	591.970
22.5	584.764	578.072	582.190	580.131	578.072
25.0	569.836	563.659	567.777	565.203	563.144
27.5	555.423	548.731	552.334	549.760	547.701
30.0	538.436	532.259	534.832	532.259	530.200
32.5	520.934	514.242	517.331	513.727	511.668
35.0	502.403	496.226	498.285	494.167	492.622
37.5	482.327	476.665	478.209	474.606	472.032
40.0	462.252	456.589	457.104	454.016	451.442
42.5	441.147	435.999	435.484	432.396	429.822
45.0	419.012	413.865	413.865	410.261	407.687
47.5	396.363	391.730	391.215	387.097	385.038
50.0	373.199	368.566	367.536	363.418	361.359
52.5	347.976	344.887	344.372	339.225	337.681
55.0	323.782	320.179	319.149	315.031	312.457
57.5	299.074	294.956	294.441	290.838	288.264
60.0	273.851	269.733	268.703	265.615	263.556
62.5	248.113	245.024	242.965	240.391	238.332
65.0	221.345	219.286	217.227	214.654	213.109
67.5	195.093	193.549	191.490	188.916	187.886
70.0	168.840	166.266	165.237	163.693	163.178
72.5	142.073	141.043	140.014	138.470	138.470
75.0	116.335	115.820	114.791	114.276	115.306
77.5	91.112	91.112	90.597	91.112	91.627
80.0	67.948	67.948	67.948	68.463	69.492
82.5	45.299	46.328	46.843	47.358	48.387
85.0	26.767	27.797	28.312	28.826	29.341
87.5	12.354	12.354	11.839	11.839	11.839
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	235.00	N.A.	13.20
0-30	495.77	N.A.	27.90
0-40	806.31	N.A.	45.30
0-60	1409.11	N.A.	79.20
0-80	1745.95	N.A.	98.10
0-90	1778.94	N.A.	100.00
10-90	1717.87	N.A.	96.60
20-40	571.31	N.A.	32.10
20-50	889.69	N.A.	50.00
40-70	817.57	N.A.	46.00
60-80	336.84	N.A.	18.90
70-80	122.07	N.A.	6.90
80-90	32.98	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1778.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.07
10-20	173.94
20-30	260.77
30-40	310.54
40-50	318.38
50-60	284.42
60-70	214.77
70-80	122.07
80-90	32.98
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

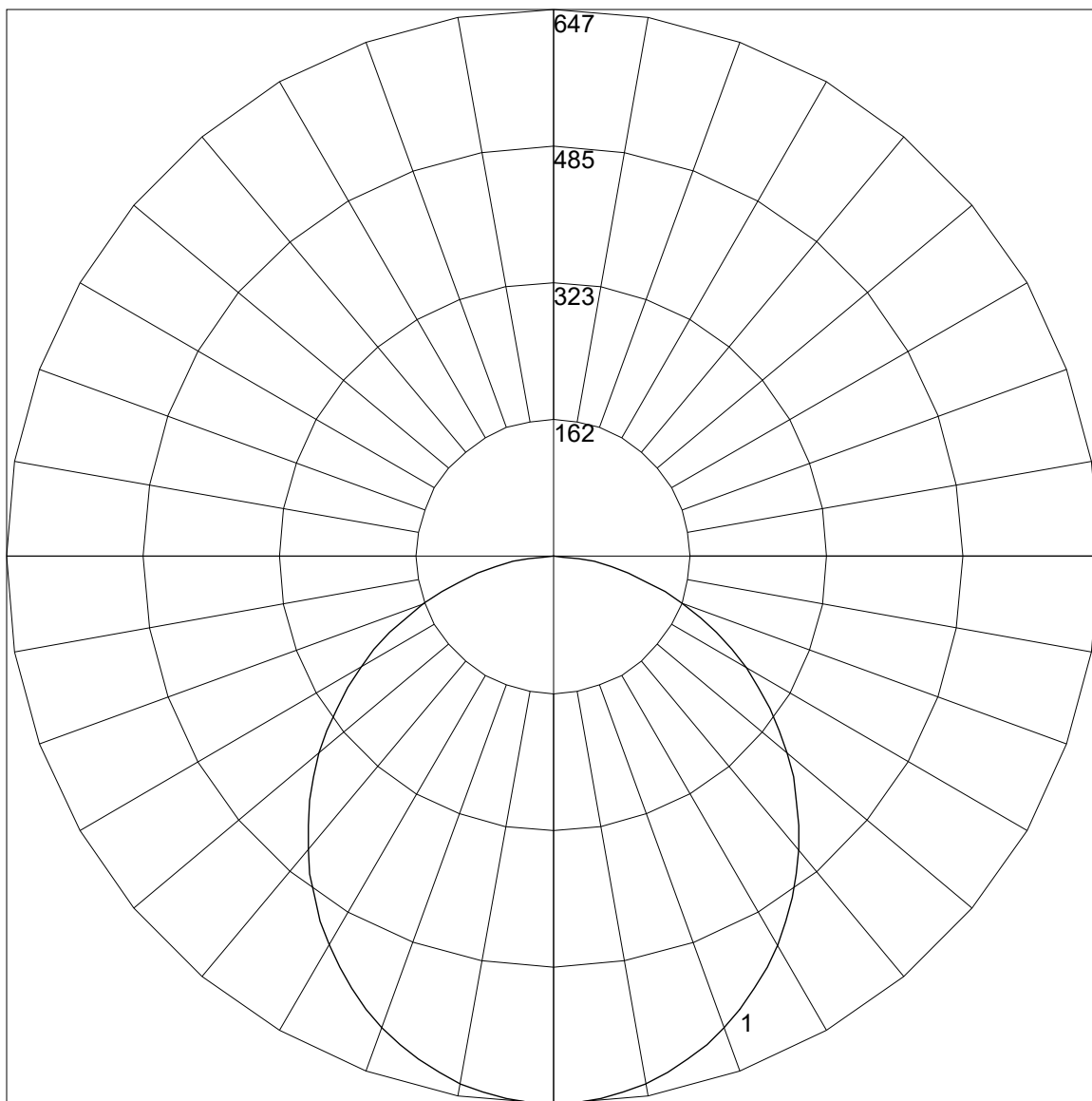
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24

POLAR GRAPH



Maximum Candela = 646.535 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)