

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-H-835-F-ITL90390.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90390.003 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-H-835-F
[INPUT_ELECTRICAL]120.0 VOLTS, 28.3 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 29.0 WATTS
[ABSOLUTE LUMENS]2688
[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	2688
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	28.3
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	7951	7854	7736
55	7575	7466	7310
65	7028	6897	6766
75	6031	5951	5978
85	4121	4359	4517

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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	976.889	976.889	976.889	976.889	976.889
2.5	975.333	975.333	975.333	975.333	975.333
5.0	972.222	972.222	972.222	971.444	971.444
7.5	966.000	965.222	965.222	964.444	964.444
10.0	959.000	955.889	957.444	956.667	955.111
12.5	948.889	943.444	946.556	945.778	943.444
15.0	935.667	929.444	932.556	932.556	929.444
17.5	921.667	913.111	917.778	916.222	913.111
20.0	903.778	894.444	899.111	897.556	894.444
22.5	883.556	873.444	879.667	876.556	873.444
25.0	861.000	851.667	857.889	854.000	850.889
27.5	839.222	829.111	834.556	830.667	827.556
30.0	813.556	804.222	808.111	804.222	801.111
32.5	787.111	777.000	781.667	776.222	773.111
35.0	759.111	749.778	752.889	746.667	744.333
37.5	728.778	720.222	722.556	717.111	713.222
40.0	698.444	689.889	690.667	686.000	682.111
42.5	666.556	658.778	658.000	653.333	649.444
45.0	633.111	625.333	625.333	619.889	616.000
47.5	598.889	591.889	591.111	584.889	581.778
50.0	563.889	556.889	555.333	549.111	546.000
52.5	525.778	521.111	520.333	512.556	510.222
55.0	489.222	483.778	482.222	476.000	472.111
57.5	451.889	445.667	444.889	439.444	435.556
60.0	413.778	407.556	406.000	401.333	398.222
62.5	374.889	370.222	367.111	363.222	360.111
65.0	334.444	331.333	328.222	324.333	322.000
67.5	294.778	292.444	289.333	285.444	283.889
70.0	255.111	251.222	249.667	247.333	246.556
72.5	214.667	213.111	211.556	209.222	209.222
75.0	175.778	175.000	173.444	172.667	174.222
77.5	137.667	137.667	136.889	137.667	138.444
80.0	102.667	102.667	102.667	103.444	105.000
82.5	68.444	70.000	70.778	71.556	73.111
85.0	40.444	42.000	42.778	43.556	44.333
87.5	18.667	18.667	17.889	17.889	17.889
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	355.08	N.A.	13.20
0-30	749.09	N.A.	27.90
0-40	1218.31	N.A.	45.30
0-60	2129.11	N.A.	79.20
0-80	2638.07	N.A.	98.10
0-90	2687.9	N.A.	100.00
10-90	2595.63	N.A.	96.60
20-40	863.23	N.A.	32.10
20-50	1344.28	N.A.	50.00
40-70	1235.32	N.A.	46.00
60-80	508.95	N.A.	18.90
70-80	184.44	N.A.	6.90
80-90	49.84	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	2687.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.27
10-20	262.81
20-30	394.01
30-40	469.22
40-50	481.05
50-60	429.75
60-70	324.51
70-80	184.44
80-90	49.84
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

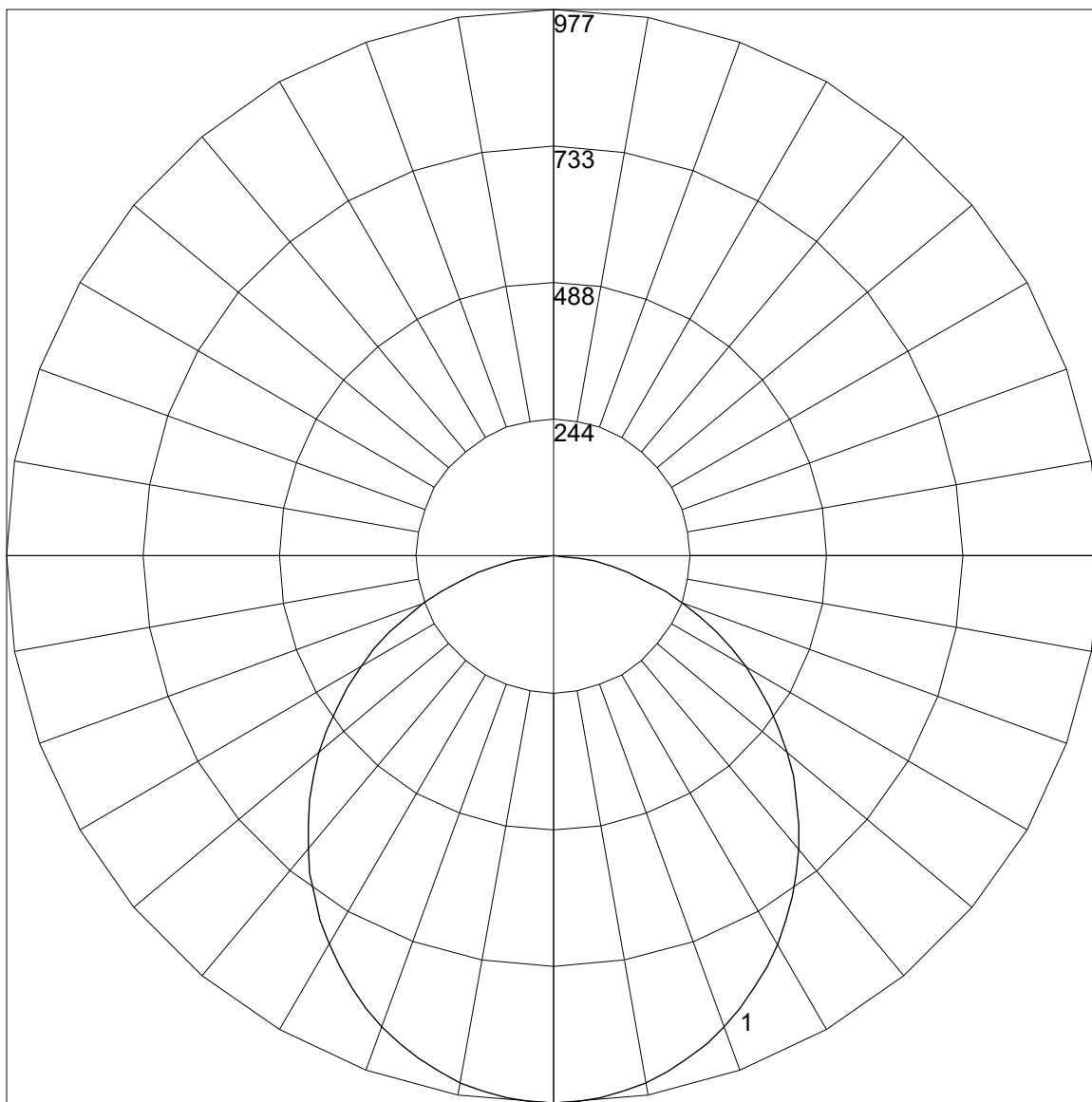
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 976.889 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)