

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-S-835-F-ITL90390.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90390.001 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-S-835-F
[INPUT_ELECTRICAL]120.0 VOLTS, 14.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 15.8 WATTS
[ABSOLUTE LUMENS]1415
[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	1415
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	14.4
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	4186	4134	4073
55	3987	3930	3848
65	3700	3631	3562
75	3175	3133	3147
85	2169	2295	2378

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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	514.248	514.248	514.248	514.248	514.248
2.5	513.429	513.429	513.429	513.429	513.429
5.0	511.791	511.791	511.791	511.382	511.382
7.5	508.516	508.106	508.106	507.697	507.697
10.0	504.831	503.193	504.012	503.602	502.784
12.5	499.508	496.642	498.280	497.870	496.642
15.0	492.548	489.272	490.910	490.910	489.272
17.5	485.178	480.674	483.131	482.312	480.674
20.0	475.761	470.848	473.304	472.486	470.848
22.5	465.116	459.793	463.069	461.431	459.793
25.0	453.242	448.329	451.604	449.557	447.920
27.5	441.778	436.455	439.321	437.274	435.637
30.0	428.267	423.354	425.401	423.354	421.716
32.5	414.346	409.023	411.480	408.614	406.976
35.0	399.606	394.693	396.331	393.056	391.827
37.5	383.639	379.135	380.363	377.497	375.450
40.0	367.671	363.167	363.576	361.120	359.073
42.5	350.884	346.790	346.380	343.924	341.876
45.0	333.278	329.184	329.184	326.318	324.271
47.5	315.263	311.578	311.169	307.894	306.256
50.0	296.839	293.154	292.335	289.060	287.422
52.5	276.777	274.320	273.911	269.816	268.588
55.0	257.533	254.667	253.848	250.573	248.526
57.5	237.881	234.605	234.196	231.330	229.282
60.0	217.818	214.543	213.724	211.267	209.630
62.5	197.347	194.890	193.252	191.205	189.567
65.0	176.056	174.418	172.781	170.734	169.505
67.5	155.175	153.947	152.309	150.262	149.443
70.0	134.294	132.247	131.428	130.200	129.790
72.5	113.003	112.185	111.366	110.137	110.137
75.0	92.532	92.122	91.304	90.894	91.713
77.5	72.470	72.470	72.060	72.470	72.879
80.0	54.045	54.045	54.045	54.455	55.273
82.5	36.030	36.849	37.258	37.668	38.487
85.0	21.291	22.109	22.519	22.928	23.338
87.5	9.826	9.826	9.417	9.417	9.417
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	186.92	N.A.	13.20
0-30	394.33	N.A.	27.90
0-40	641.33	N.A.	45.30
0-60	1120.8	N.A.	79.20
0-80	1388.71	N.A.	98.10
0-90	1414.95	N.A.	100.00
10-90	1366.38	N.A.	96.60
20-40	454.42	N.A.	32.10
20-50	707.65	N.A.	50.00
40-70	650.29	N.A.	46.00
60-80	267.92	N.A.	18.90
70-80	97.09	N.A.	6.90
80-90	26.23	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	1414.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.57
10-20	138.35
20-30	207.41
30-40	247.00
40-50	253.23
50-60	226.23
60-70	170.83
70-80	97.09
80-90	26.23
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

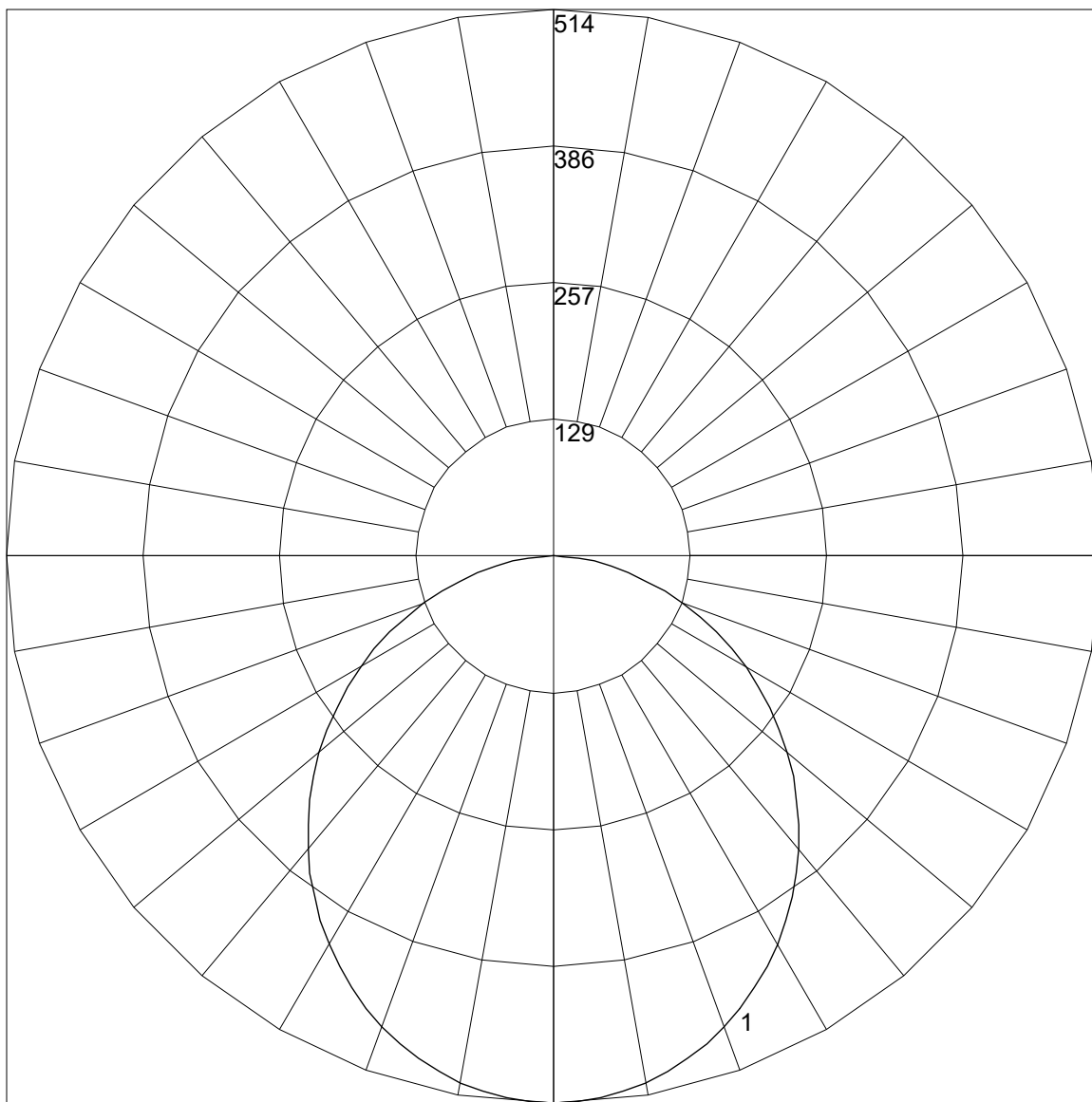
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 514.248 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)