

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-D-4FT-S-835-ITL85124.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85124.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/05/15
[ISSUEDATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-D-4ft-S-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 16.0 WATTS
[ABSOLUTE]LUMENS]1517
[OTHER]see www.finelite.com for source file ITL85124. 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	1517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	14.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4140	4087	4005
55	3844	3785	3702
65	3500	3476	3419
75	3108	3121	3108
85	2620	2698	2698

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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	587.836	587.836	587.836	587.836	587.836
2.5	587.018	587.018	587.018	586.608	587.018
5.0	584.561	584.561	584.152	584.152	584.152
7.5	580.058	579.649	579.649	579.649	579.240
10.0	574.737	573.099	573.509	573.509	571.871
12.5	566.959	564.503	565.731	565.731	563.275
15.0	557.953	553.860	555.906	555.497	552.632
17.5	547.310	542.398	544.854	543.626	541.170
20.0	535.029	529.298	532.164	530.117	527.251
22.5	520.702	514.971	517.427	514.561	512.105
25.0	505.965	499.825	501.871	499.006	496.140
27.5	489.181	483.450	485.088	481.403	478.947
30.0	471.988	466.257	466.667	463.392	460.526
32.5	453.158	447.427	447.836	444.152	441.287
35.0	433.918	428.596	429.006	424.503	421.637
37.5	413.860	408.947	408.538	404.035	402.398
40.0	393.392	388.889	388.480	383.977	381.930
42.5	372.515	368.421	368.012	363.509	361.053
45.0	351.637	347.544	347.134	342.222	340.175
47.5	330.351	326.667	325.848	321.345	319.708
50.0	308.655	305.380	304.152	300.058	298.421
52.5	286.959	283.684	282.865	278.772	276.316
55.0	264.854	261.579	260.760	257.076	255.029
57.5	243.158	240.292	239.474	236.199	234.561
60.0	221.053	218.596	217.778	214.912	213.684
62.5	199.357	198.538	196.491	194.444	192.807
65.0	177.661	176.842	176.433	173.977	173.567
67.5	156.784	156.374	155.556	153.918	153.918
70.0	136.316	135.906	135.497	133.860	134.269
72.5	115.848	115.848	115.848	115.029	115.439
75.0	96.608	96.608	97.018	96.199	96.608
77.5	77.778	77.778	78.596	78.187	79.006
80.0	60.175	60.175	60.994	60.994	61.404
82.5	43.392	44.211	44.211	44.620	44.620
85.0	27.427	27.836	28.246	28.655	28.246
87.5	12.281	12.690	13.099	13.099	13.099
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	211.86	N.A.	14.00
0-30	442.18	N.A.	29.20
0-40	709.46	N.A.	46.80
0-60	1208.85	N.A.	79.70
0-80	1485.35	N.A.	97.90
0-90	1516.82	N.A.	100.00
10-90	1461.4	N.A.	96.30
20-40	497.60	N.A.	32.80
20-50	764.35	N.A.	50.40
40-70	673.47	N.A.	44.40
60-80	276.50	N.A.	18.20
70-80	102.43	N.A.	6.80
80-90	31.47	N.A.	2.10
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	1516.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.42
10-20	156.44
20-30	230.32
30-40	267.28
40-50	266.76
50-60	232.64
60-70	174.07
70-80	102.43
80-90	31.47
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

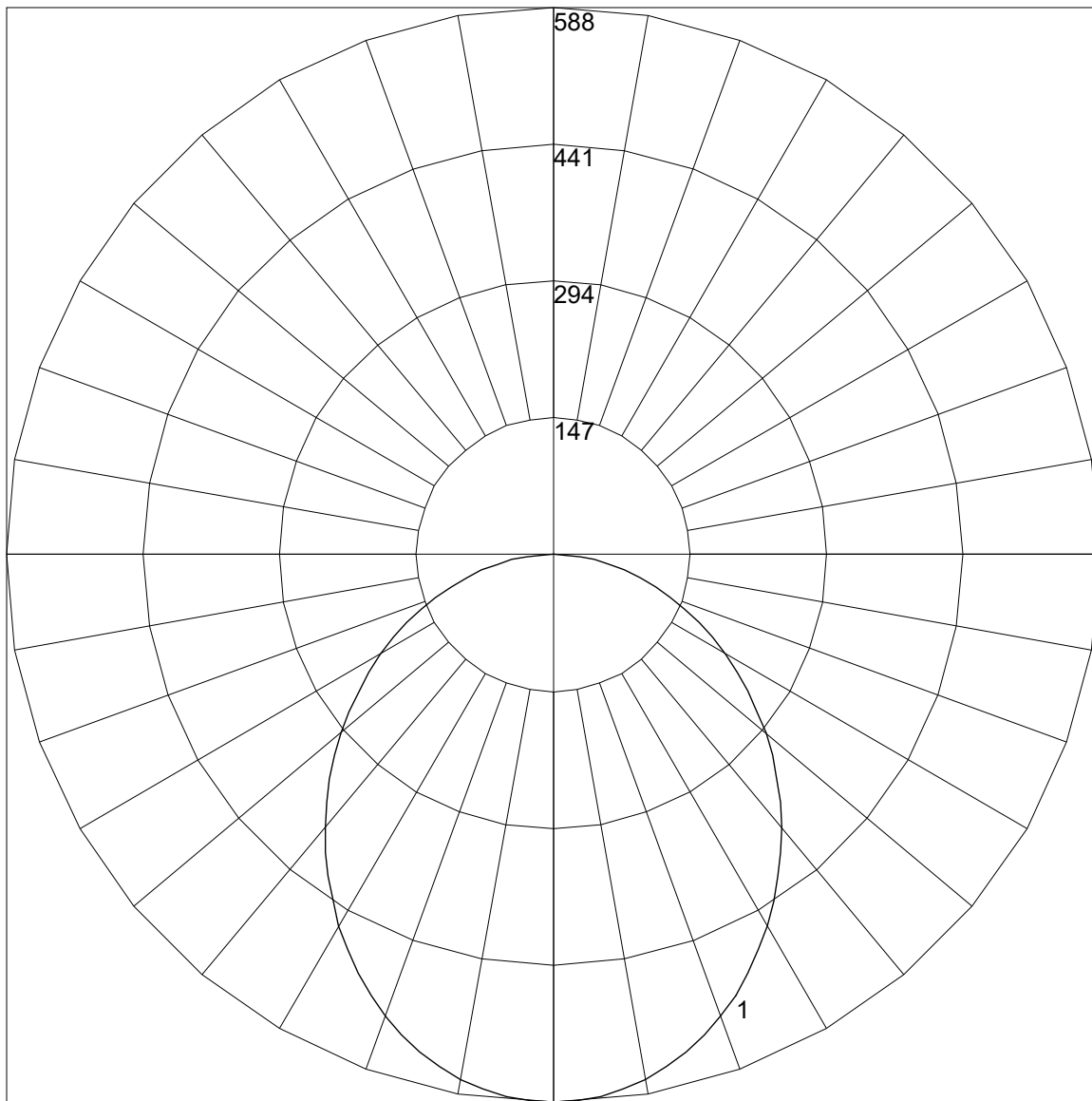
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 587.836 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)