

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-R-4FT-B-8TW-ITL85128.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85128.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/07/15
[ISSUEDATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-R-4ft-B-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 20.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 21.6 WATTS
[ABSOLUTE]LUMENS]1917
[OTHER]see www.finelite.com for source file ITL85128. 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	1918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	20.2
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	5235	5156	5053
55	4855	4781	4676
65	4471	4390	4309
75	3940	3940	3907
85	3441	3441	3490

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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	742.082	742.082	742.082	742.082	742.082
2.5	741.053	741.053	741.053	741.053	741.053
5.0	737.965	737.965	737.450	737.450	737.965
7.5	732.819	732.304	732.304	731.789	732.304
10.0	725.614	724.070	724.585	724.585	723.556
12.5	716.351	712.749	714.807	714.292	712.749
15.0	704.515	699.883	702.456	701.942	699.368
17.5	691.649	685.474	689.076	687.532	684.444
20.0	675.181	669.006	672.608	670.035	666.433
22.5	658.713	650.480	654.082	650.994	647.906
25.0	638.643	630.924	634.012	630.409	627.322
27.5	618.058	610.854	612.912	608.281	605.708
30.0	595.930	588.725	590.269	585.123	582.550
32.5	571.743	566.082	566.082	561.450	558.363
35.0	547.556	541.895	542.924	536.749	533.661
37.5	523.368	517.193	517.193	512.047	508.444
40.0	497.123	491.462	491.462	485.801	482.199
42.5	470.877	465.731	464.702	459.556	455.953
45.0	444.632	438.971	437.942	432.281	429.193
47.5	417.357	412.211	411.181	406.035	402.433
50.0	389.053	384.936	383.906	379.275	375.673
52.5	362.292	358.690	356.632	352.000	348.912
55.0	334.503	331.415	329.357	324.725	322.152
57.5	307.228	304.140	302.082	297.965	295.392
60.0	279.439	276.865	275.322	272.234	269.146
62.5	253.708	250.620	248.561	245.988	243.415
65.0	226.947	224.374	222.830	220.257	218.713
67.5	200.187	197.614	196.585	194.526	193.497
70.0	172.912	171.883	171.368	169.310	168.795
72.5	147.181	146.667	146.667	145.123	145.123
75.0	122.480	121.965	122.480	121.965	121.450
77.5	99.836	98.807	99.322	99.836	99.322
80.0	77.193	76.164	77.193	78.222	77.708
82.5	56.094	55.579	56.608	57.123	56.608
85.0	36.023	35.509	36.023	37.053	36.538
87.5	16.982	16.468	16.982	17.497	16.982
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	267.70	N.A.	14.00
0-30	558.75	N.A.	29.10
0-40	896.73	N.A.	46.80
0-60	1527.45	N.A.	79.70
0-80	1877.37	N.A.	97.90
0-90	1917.7	N.A.	100.00
10-90	1847.7	N.A.	96.30
20-40	629.03	N.A.	32.80
20-50	965.90	N.A.	50.40
40-70	850.96	N.A.	44.40
60-80	349.92	N.A.	18.20
70-80	129.68	N.A.	6.80
80-90	40.33	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	1917.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.00
10-20	197.71
20-30	291.04
30-40	337.98
40-50	336.88
50-60	293.84
60-70	220.24
70-80	129.68
80-90	40.33
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

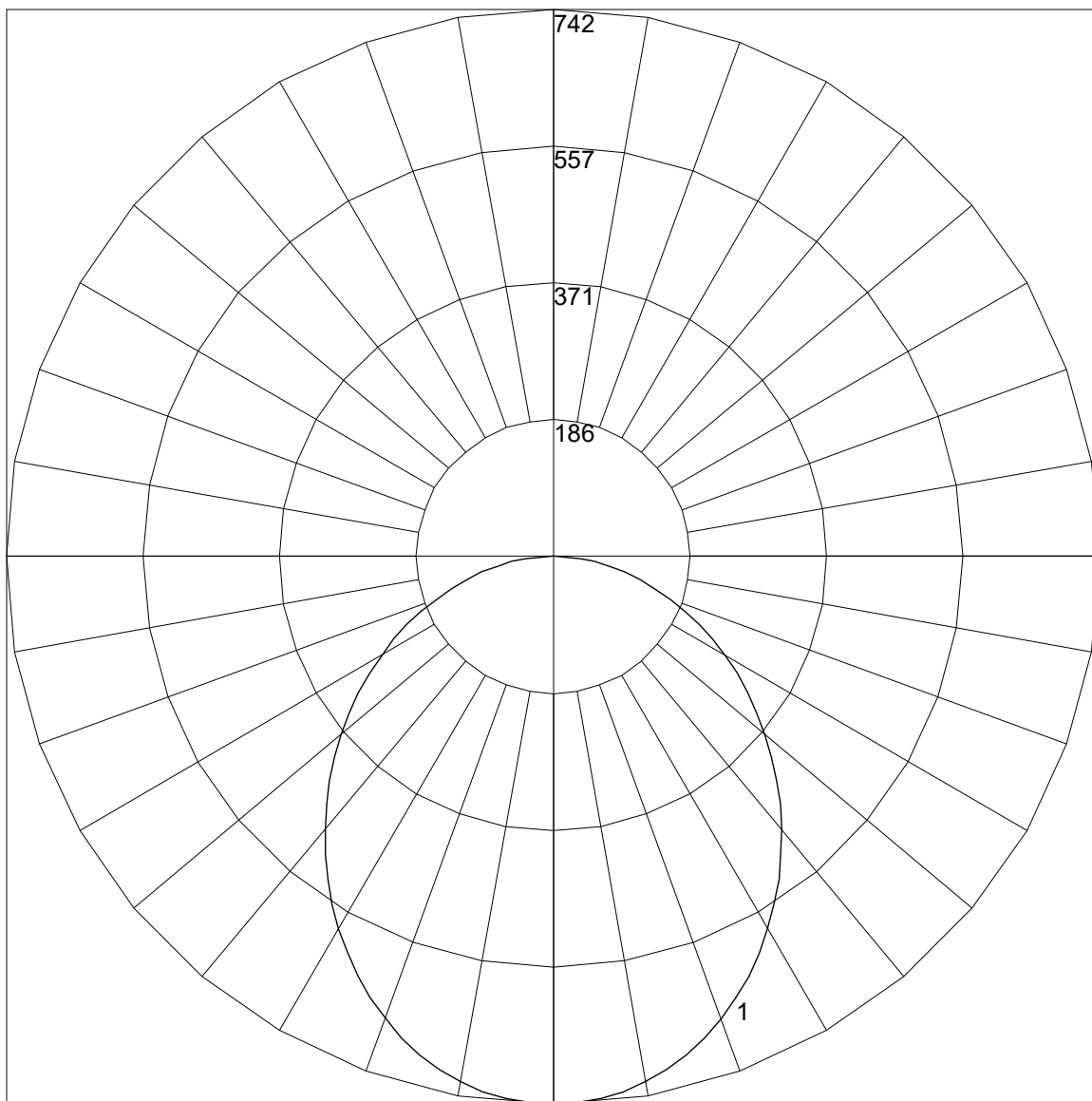
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	77	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	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	43	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	34	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 = 742.082 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)