

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-B-8TW-ITL85124.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85124.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/05/15
[ISSUE DATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-D-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, 21.7 WATTS
[ABSOLUTE LUMENS]1907
[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	1907
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	5205	5138	5035
55	4833	4758	4654
65	4400	4369	4298
75	3907	3923	3907
85	3294	3392	3392

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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	738.994	738.994	738.994	738.994	738.994
2.5	737.965	737.965	737.965	737.450	737.965
5.0	734.877	734.877	734.363	734.363	734.363
7.5	729.216	728.702	728.702	728.702	728.187
10.0	722.526	720.468	720.982	720.982	718.924
12.5	712.749	709.661	711.205	711.205	708.117
15.0	701.427	696.281	698.854	698.339	694.737
17.5	688.047	681.871	684.959	683.415	680.327
20.0	672.608	665.404	669.006	666.433	662.830
22.5	654.596	647.392	650.480	646.877	643.789
25.0	636.070	628.351	630.924	627.322	623.719
27.5	614.971	607.766	609.825	605.193	602.105
30.0	593.357	586.152	586.667	582.550	578.947
32.5	569.684	562.480	562.994	558.363	554.760
35.0	545.497	538.807	539.322	533.661	530.058
37.5	520.281	514.105	513.591	507.930	505.871
40.0	494.550	488.889	488.374	482.713	480.140
42.5	468.304	463.158	462.643	456.982	453.895
45.0	442.058	436.912	436.398	430.222	427.649
47.5	415.298	410.667	409.637	403.977	401.918
50.0	388.023	383.906	382.363	377.216	375.158
52.5	360.749	356.632	355.602	350.456	347.368
55.0	332.959	328.842	327.813	323.181	320.608
57.5	305.684	302.082	301.053	296.936	294.877
60.0	277.895	274.807	273.778	270.175	268.632
62.5	250.620	249.591	247.018	244.444	242.386
65.0	223.345	222.316	221.801	218.713	218.199
67.5	197.099	196.585	195.556	193.497	193.497
70.0	171.368	170.854	170.339	168.281	168.795
72.5	145.637	145.637	145.637	144.608	145.123
75.0	121.450	121.450	121.965	120.936	121.450
77.5	97.778	97.778	98.807	98.292	99.322
80.0	75.649	75.649	76.678	76.678	77.193
82.5	54.550	55.579	55.579	56.094	56.094
85.0	34.480	34.994	35.509	36.023	35.509
87.5	15.439	15.953	16.468	16.468	16.468
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	266.34	N.A.	14.00
0-30	555.88	N.A.	29.20
0-40	891.89	N.A.	46.80
0-60	1519.7	N.A.	79.70
0-80	1867.3	N.A.	97.90
0-90	1906.86	N.A.	100.00
10-90	1837.19	N.A.	96.30
20-40	625.55	N.A.	32.80
20-50	960.90	N.A.	50.40
40-70	846.64	N.A.	44.40
60-80	347.60	N.A.	18.20
70-80	128.77	N.A.	6.80
80-90	39.56	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	1906.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.67
10-20	196.66
20-30	289.54
30-40	336.01
40-50	335.35
50-60	292.46
60-70	218.83
70-80	128.77
80-90	39.56
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

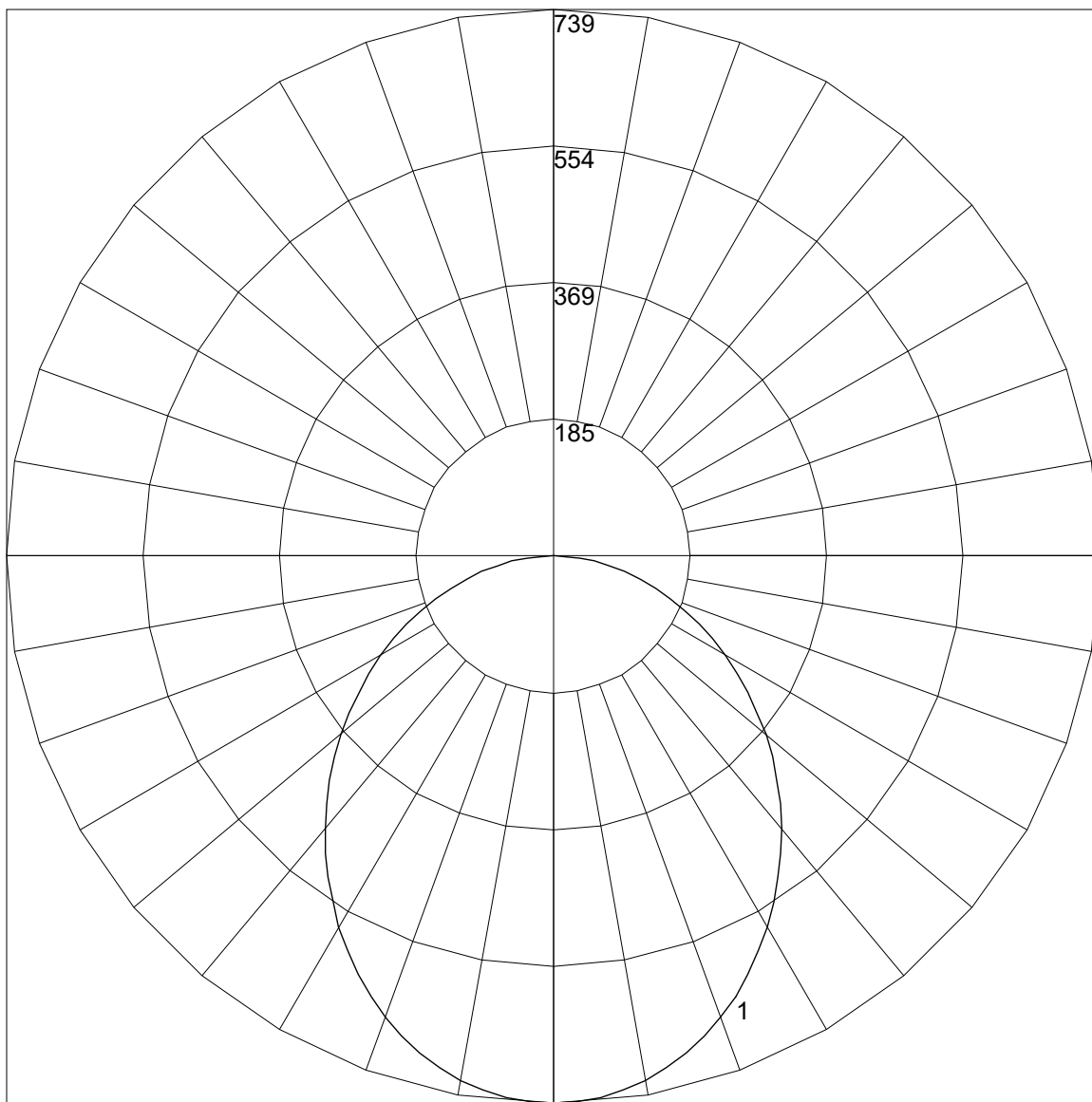
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	57	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 = 738.994 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)