

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-2-R-4FT-H-835-ITL85135.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85135.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/13/15
[ISSUE DATE]02/10/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-2-R-4ft-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.3 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.1 WATTS
[ABSOLUTE LUMENS]2557
[OTHER]see www.finelite.com for source file ITL85135. 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	2557
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12909	12391	11873
55	11837	11302	10746
65	10785	10282	9779
75	9763	9262	8942
85	8806	8264	8129

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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	1038.333	1038.333	1038.333	1038.333	1038.333
2.5	1036.778	1036.778	1036.778	1036.778	1036.778
5.0	1032.111	1031.333	1030.556	1030.556	1029.778
7.5	1024.333	1023.556	1022.000	1021.222	1020.444
10.0	1014.222	1010.333	1009.556	1008.778	1007.222
12.5	1000.222	994.778	995.556	991.667	987.778
15.0	983.111	975.333	976.111	970.667	966.000
17.5	963.667	953.556	952.778	946.556	939.556
20.0	939.556	928.667	926.333	918.556	910.778
22.5	913.111	902.222	899.111	888.222	881.222
25.0	885.111	872.667	868.000	855.556	847.778
27.5	854.778	840.778	835.333	821.333	812.778
30.0	822.111	809.667	800.333	786.333	777.000
32.5	787.889	775.444	766.111	749.778	742.000
35.0	752.111	739.667	728.778	711.667	703.111
37.5	716.333	703.889	692.222	673.556	666.556
40.0	679.000	667.333	654.111	635.444	628.444
42.5	641.667	630.000	616.000	597.333	591.111
45.0	601.222	591.111	577.111	559.222	553.000
47.5	562.333	553.778	539.778	522.667	514.111
50.0	525.000	514.889	501.667	485.333	477.556
52.5	486.111	476.778	464.333	448.000	441.778
55.0	447.222	439.444	427.000	411.444	406.000
57.5	409.889	402.111	390.444	376.444	371.778
60.0	372.556	365.556	354.667	342.222	337.556
62.5	336.000	330.556	320.444	309.556	304.111
65.0	300.222	294.778	286.222	275.333	272.222
67.5	265.222	260.556	252.778	245.000	241.111
70.0	231.778	227.111	219.333	213.889	210.778
72.5	199.111	194.444	188.222	183.556	181.222
75.0	166.444	162.556	157.889	153.222	152.444
77.5	136.111	133.000	129.111	125.222	124.444
80.0	105.778	104.222	101.111	98.000	98.778
82.5	78.556	77.000	74.667	73.111	73.111
85.0	50.556	49.000	47.444	46.667	46.667
87.5	23.333	22.556	21.778	21.778	21.778
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	371.94	N.A.	14.50
0-30	770.26	N.A.	30.10
0-40	1225.02	N.A.	47.90
0-60	2051.55	N.A.	80.20
0-80	2503.29	N.A.	97.90
0-90	2556.61	N.A.	100.00
10-90	2458.86	N.A.	96.20
20-40	853.08	N.A.	33.40
20-50	1298.01	N.A.	50.80
40-70	1110.08	N.A.	43.40
60-80	451.74	N.A.	17.70
70-80	168.19	N.A.	6.60
80-90	53.31	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	2556.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.75
10-20	274.20
20-30	398.32
30-40	454.76
40-50	444.94
50-60	381.59
60-70	283.55
70-80	168.19
80-90	53.31
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

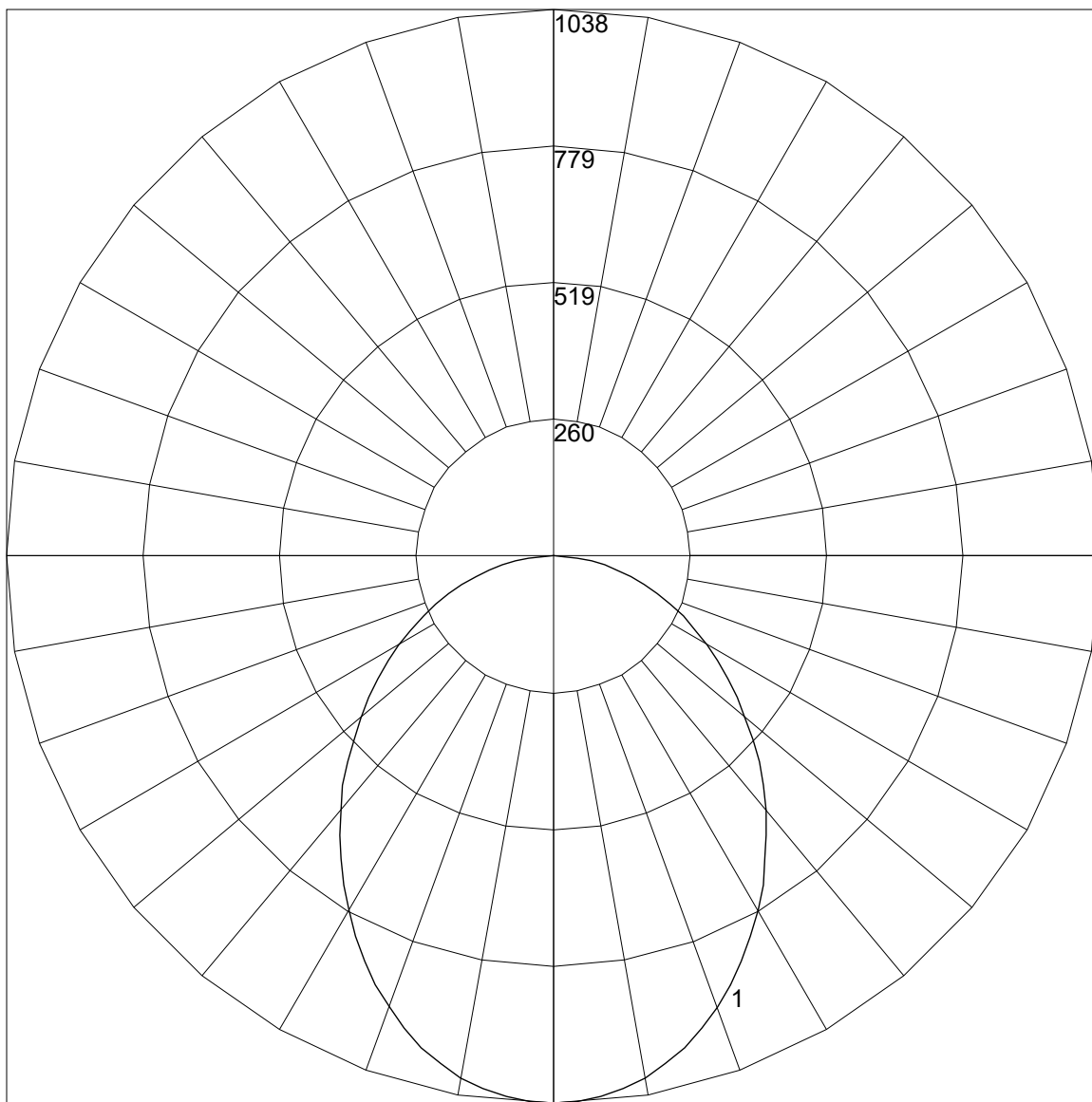
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1038.333 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)