

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 : HO4-R-RO-4FT-S-835-OPN-ITL89351.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89351.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]06/20/17

[ISSUEDATE]08/02/17

[MANUFAC]FINELITE, INC.

[LUMCAT]HO4-R-RO-4ft-S-835-OPN

[OTHER]120.0 VOLTS, 13.7 WATTS

[OTHER]277.0 VOLTS, 15.2 WATTS

[ABSOLUTE]LUMENS]1634

[OTHER]see www.finelite.com for source file ITL89351. 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	1634
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	13.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5504	5305	5367
55	5504	5419	5488
65	5501	5647	6438
75	5376	7230	8540
85	4799	8032	3637

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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	503.588	503.588	503.588	503.588	503.588
2.5	503.588	503.179	502.360	501.541	501.132
5.0	502.360	500.722	498.266	496.219	496.219
7.5	499.903	497.037	493.353	490.896	490.487
10.0	497.856	492.124	488.030	485.574	484.345
12.5	493.762	485.983	481.889	479.432	477.795
15.0	489.668	479.023	475.338	472.881	470.834
17.5	484.345	471.244	467.968	465.512	463.055
20.0	477.795	463.055	459.780	458.142	455.686
22.5	470.016	453.639	450.773	449.544	447.497
25.0	461.008	444.222	441.356	440.947	439.309
27.5	452.001	433.986	431.939	431.939	430.711
30.0	441.765	422.932	421.704	422.113	421.294
32.5	430.711	411.059	410.649	411.878	411.468
35.0	418.428	398.776	399.186	401.233	400.823
37.5	405.327	386.084	387.312	389.769	389.769
40.0	391.816	372.573	375.030	377.896	378.715
42.5	377.077	358.653	362.338	365.613	366.432
45.0	361.928	343.914	348.827	352.102	352.921
47.5	345.551	328.765	334.907	337.363	338.591
50.0	328.765	313.207	320.577	322.624	323.033
52.5	311.570	297.240	305.019	306.656	306.656
55.0	293.555	280.454	289.051	289.870	292.736
57.5	274.722	263.667	271.856	276.359	282.091
60.0	255.479	246.062	254.251	264.896	271.856
62.5	236.236	228.457	235.827	254.660	262.439
65.0	216.174	210.442	221.906	244.424	253.022
67.5	195.294	192.019	209.624	234.189	243.196
70.0	173.595	173.185	198.160	223.953	232.551
72.5	151.895	153.533	186.287	212.080	220.678
75.0	129.377	134.700	174.004	198.160	205.529
77.5	106.859	120.370	159.674	179.736	185.468
80.0	84.341	106.040	141.250	153.533	153.124
82.5	61.413	92.120	114.638	110.544	106.040
85.0	38.895	72.877	65.098	40.123	29.478
87.5	16.786	29.888	10.236	9.417	9.417
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-R-RO-4FT-S-835-OPN-ITL89351.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	181.93	N.A.	11.10
0-30	386.87	N.A.	23.70
0-40	638.70	N.A.	39.10
0-60	1167.48	N.A.	71.50
0-80	1570.22	N.A.	96.10
0-90	1633.84	N.A.	100.00
10-90	1586.54	N.A.	97.10
20-40	456.77	N.A.	28.00
20-50	727.24	N.A.	44.50
40-70	754.75	N.A.	46.20
60-80	402.74	N.A.	24.60
70-80	176.77	N.A.	10.80
80-90	63.62	N.A.	3.90
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	1633.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.30
10-20	134.63
20-30	204.94
30-40	251.83
40-50	270.46
50-60	258.31
60-70	225.98
70-80	176.77
80-90	63.62
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

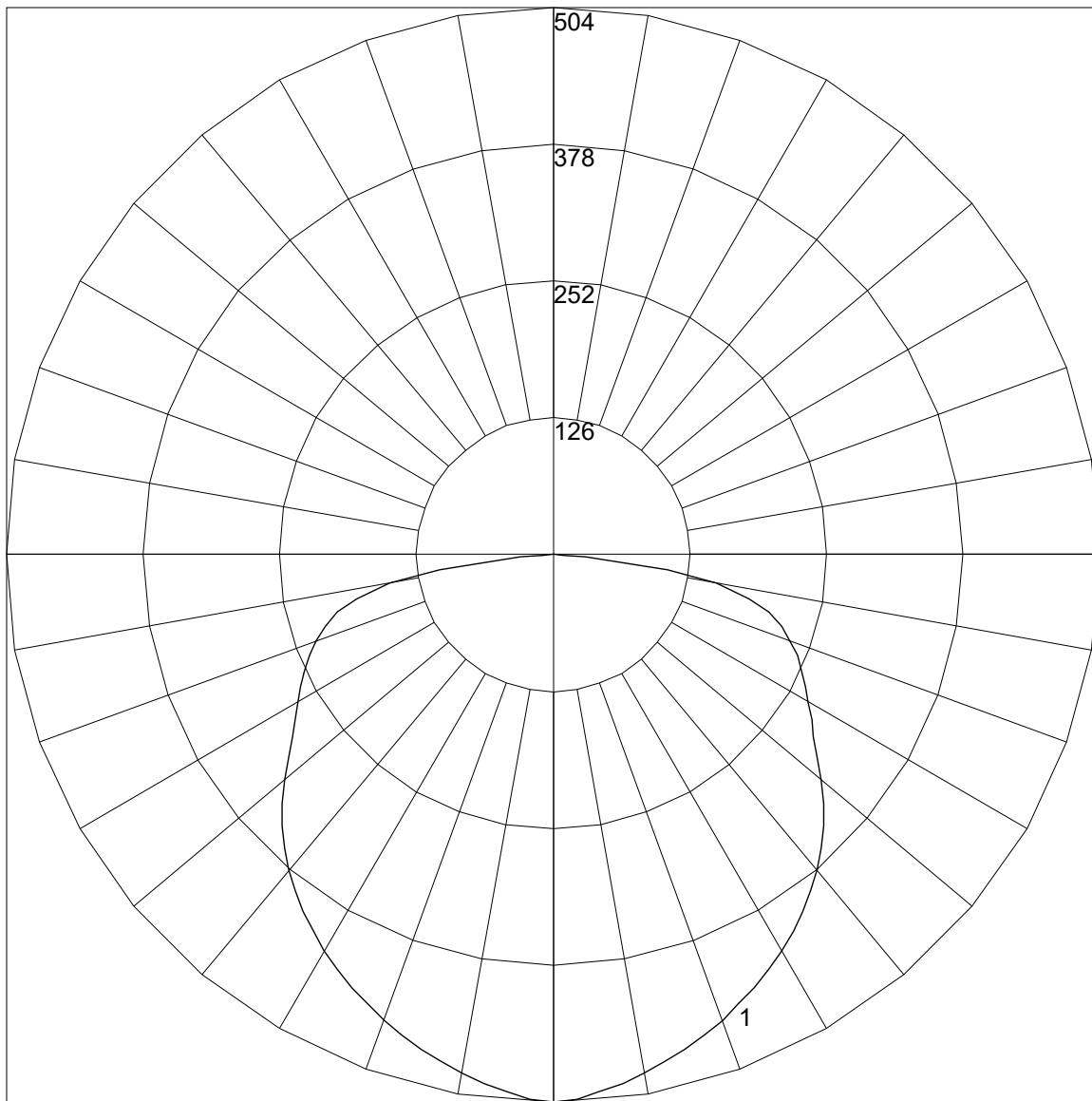
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	80	73	94	85	78	72	82	76	71	78	73	69	75	71	67	65
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	60	56	54
4	80	67	57	50	77	65	57	50	63	55	49	60	54	48	58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	49	42	36	47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	36	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28	26
9	54	40	32	26	53	40	31	26	38	31	26	37	30	26	36	30	25	23
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	27	23	21

POLAR GRAPH



Maximum Candela = 503.588 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)