

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-H-835-OPN-ITL89351.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89351.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]06/20/17

[ISSUEDATE]08/02/17

[MANUFAC]FINELITE, INC.

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

[OTHER]120.0 VOLTS, 26.9 WATTS

[OTHER]277.0 VOLTS, 27.9 WATTS

[ABSOLUTE]LUMENS]3104

[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	3104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	26.9
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	10456	10078	10196
55	10455	10295	10426
65	10449	10726	12230
75	10212	13734	16222
85	9117	15258	6909

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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	956.633	956.633	956.633	956.633	956.633
2.5	956.633	955.855	954.299	952.744	951.966
5.0	954.299	951.188	946.522	942.633	942.633
7.5	949.633	944.189	937.189	932.522	931.745
10.0	945.744	934.856	927.078	922.412	920.078
12.5	937.967	923.189	915.412	910.745	907.634
15.0	930.189	909.968	902.968	898.301	894.413
17.5	920.078	895.190	888.968	884.302	879.635
20.0	907.634	879.635	873.413	870.302	865.636
22.5	892.857	861.747	856.303	853.970	850.081
25.0	875.747	843.859	838.415	837.637	834.526
27.5	858.636	824.415	820.526	820.526	818.193
30.0	839.192	803.416	801.083	801.860	800.305
32.5	818.193	780.861	780.083	782.417	781.639
35.0	794.861	757.529	758.306	762.195	761.417
37.5	769.973	733.418	735.752	740.418	740.418
40.0	744.307	707.753	712.419	717.863	719.419
42.5	716.308	681.309	688.309	694.531	696.086
45.0	687.531	653.310	662.643	668.865	670.421
47.5	656.421	624.533	636.200	640.866	643.199
50.0	624.533	594.979	608.978	612.867	613.645
52.5	591.868	564.647	579.424	582.535	582.535
55.0	557.647	532.759	549.092	550.647	556.091
57.5	521.870	500.871	516.426	524.981	535.870
60.0	485.316	467.428	482.983	503.204	516.426
62.5	448.762	433.985	447.984	483.761	498.538
65.0	410.652	399.764	421.541	464.317	480.650
67.5	370.987	364.765	398.208	444.873	461.984
70.0	329.766	328.988	376.431	425.429	441.762
72.5	288.545	291.656	353.876	402.875	419.207
75.0	245.769	255.880	330.544	376.431	390.431
77.5	202.993	228.659	303.323	341.432	352.321
80.0	160.217	201.437	268.324	291.656	290.879
82.5	116.663	174.994	217.770	209.993	201.437
85.0	73.886	138.440	123.662	76.220	55.998
87.5	31.888	56.776	19.444	17.888	17.888
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-R-RO-4FT-H-835-OPN-ITL89351.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	345.60	N.A.	11.10
0-30	734.91	N.A.	23.70
0-40	1213.3	N.A.	39.10
0-60	2217.78	N.A.	71.50
0-80	2982.84	N.A.	96.10
0-90	3103.69	N.A.	100.00
10-90	3013.84	N.A.	97.10
20-40	867.70	N.A.	28.00
20-50	1381.48	N.A.	44.50
40-70	1433.75	N.A.	46.20
60-80	765.06	N.A.	24.70
70-80	335.79	N.A.	10.80
80-90	120.85	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	3103.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.85
10-20	255.75
20-30	389.31
30-40	478.39
40-50	513.78
50-60	490.69
60-70	429.27
70-80	335.79
80-90	120.85
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

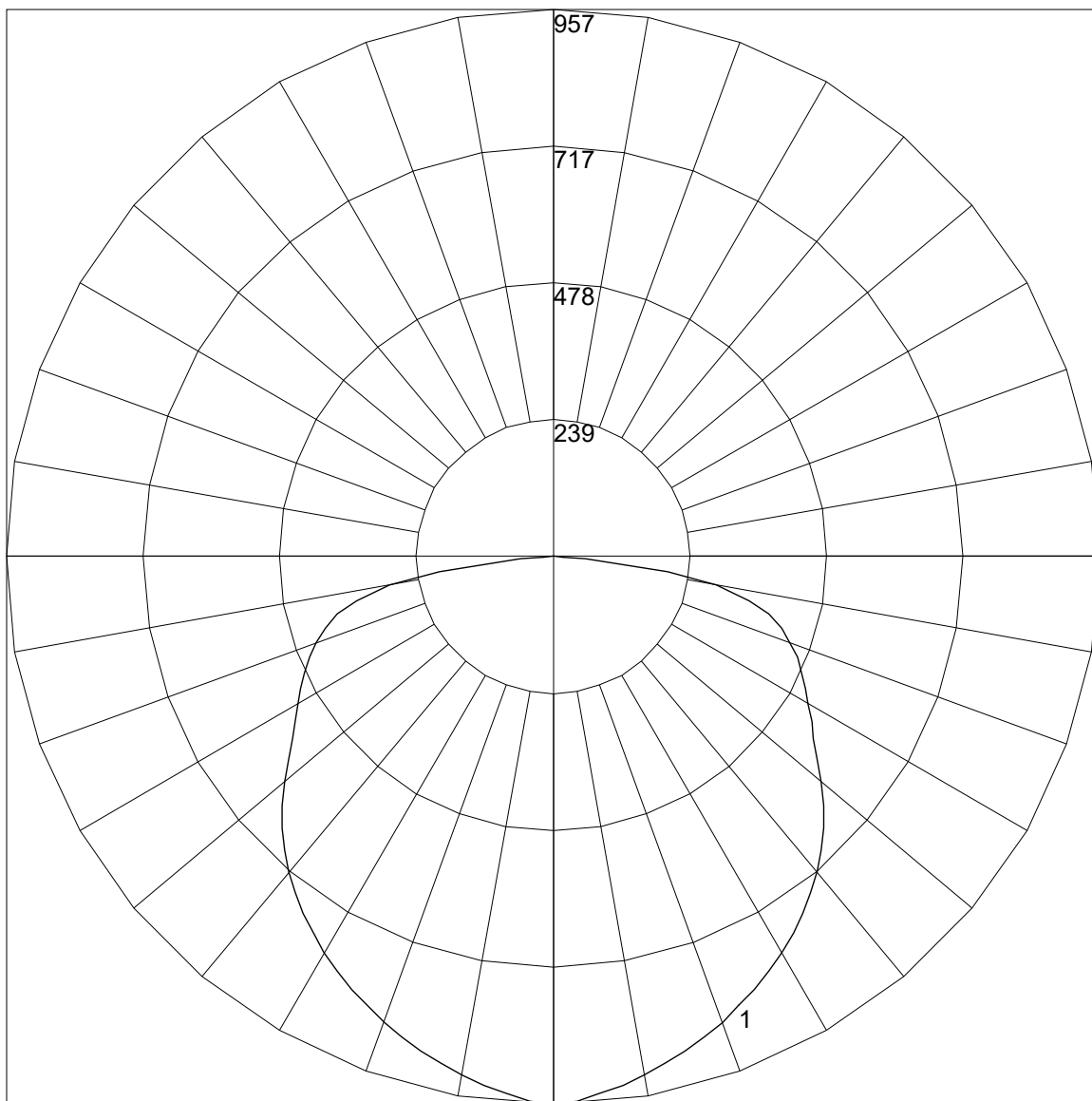
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 956.633 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)