

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-B-835-OPN-ITL89351.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89351.002 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]06/20/17

[ISSUEDATE]08/02/17

[MANUFAC]FINELITE, INC.

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

[OTHER]120.0 VOLTS, 17.5 WATTS

[OTHER]277.0 VOLTS, 18.8 WATTS

[_ABSOLUTE]LUMENS]2054

[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	2054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	17.5
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	6919	6669	6747
55	6918	6812	6899
65	6915	7098	8093
75	6757	9088	10735
85	6033	10097	4572

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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	633.029	633.029	633.029	633.029	633.029
2.5	633.029	632.515	631.485	630.456	629.941
5.0	631.485	629.427	626.339	623.765	623.765
7.5	628.397	624.795	620.163	617.075	616.560
10.0	625.824	618.619	613.472	610.384	608.840
12.5	620.678	610.899	605.752	602.664	600.606
15.0	615.531	602.150	597.518	594.430	591.857
17.5	608.840	592.371	588.254	585.166	582.078
20.0	600.606	582.078	577.961	575.902	572.814
22.5	590.827	570.241	566.638	565.094	562.521
25.0	579.505	558.404	554.801	554.287	552.228
27.5	568.182	545.537	542.964	542.964	541.420
30.0	555.316	531.642	530.098	530.612	529.583
32.5	541.420	516.717	516.202	517.746	517.231
35.0	525.980	501.277	501.792	504.365	503.850
37.5	509.511	485.322	486.866	489.954	489.954
40.0	492.528	468.339	471.427	475.029	476.059
42.5	474.000	450.840	455.472	459.590	460.619
45.0	454.958	432.313	438.489	442.606	443.635
47.5	434.371	413.270	420.990	424.078	425.622
50.0	413.270	393.713	402.977	405.550	406.065
52.5	391.655	373.642	383.420	385.479	385.479
55.0	369.010	352.541	363.349	364.378	367.980
57.5	345.336	331.440	341.733	347.394	354.599
60.0	321.147	309.309	319.603	332.984	341.733
62.5	296.958	287.179	296.443	320.117	329.896
65.0	271.739	264.534	278.945	307.251	318.059
67.5	245.492	241.375	263.505	294.384	305.707
70.0	218.215	217.700	249.094	281.518	292.326
72.5	190.938	192.997	234.169	266.593	277.401
75.0	162.632	169.322	218.730	249.094	258.358
77.5	134.326	151.309	200.717	225.935	233.140
80.0	106.020	133.296	177.557	192.997	192.482
82.5	77.199	115.798	144.104	138.958	133.296
85.0	48.893	91.609	81.831	50.436	37.055
87.5	21.101	37.570	12.866	11.837	11.837
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	228.69	N.A.	11.10
0-30	486.31	N.A.	23.70
0-40	802.87	N.A.	39.10
0-60	1467.56	N.A.	71.50
0-80	1973.82	N.A.	96.10
0-90	2053.79	N.A.	100.00
10-90	1994.34	N.A.	97.10
20-40	574.18	N.A.	28.00
20-50	914.17	N.A.	44.50
40-70	948.75	N.A.	46.20
60-80	506.26	N.A.	24.70
70-80	222.20	N.A.	10.80
80-90	79.97	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	2053.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.46
10-20	169.23
20-30	257.62
30-40	316.56
40-50	339.98
50-60	324.71
60-70	284.06
70-80	222.20
80-90	79.97
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

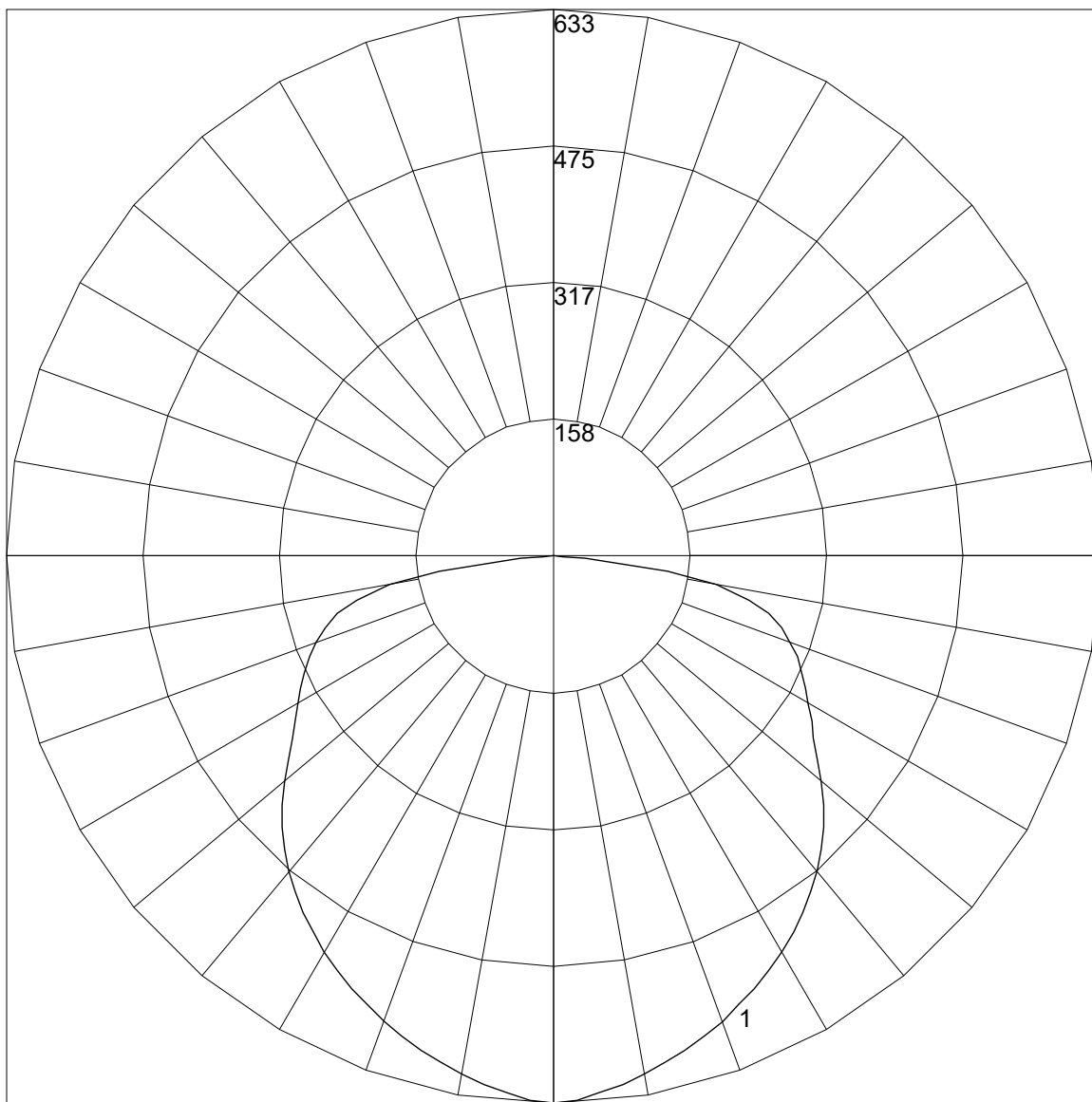
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 633.029 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)