

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-ID-RO-4FT-B-S-835-TG-ITL90233.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/23/18

[TESTDATE]03/06/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-ID-RO-4ft-B-S-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.7 WATTS

[_ABSOLUTE]LUMENS]3918

[OTHER]see www.finelite.com for source file ITL90233. 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	3918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	31.9
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5197	3312	2944
55	5117	2929	2535
65	4983	2529	2381
75	4676	2398	2245
85	3636	1314	393

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-TG-ITL90233.011.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	494.155	494.155	494.155	494.155	494.155
2.5	493.758	493.362	491.775	490.586	490.586
5.0	492.965	490.586	487.809	485.826	485.033
7.5	490.982	487.016	483.050	479.878	479.878
10.0	488.206	481.861	477.101	473.929	473.135
12.5	484.637	475.515	470.756	467.187	465.600
15.0	480.274	468.773	464.014	460.048	458.462
17.5	475.118	461.238	456.082	452.513	450.530
20.0	469.170	453.306	448.150	444.184	442.598
22.5	461.634	444.581	439.425	435.856	434.269
25.0	453.306	434.666	429.907	426.734	425.544
27.5	444.184	424.751	420.389	417.216	416.026
30.0	434.269	414.043	409.681	407.301	406.508
32.5	423.165	402.542	398.973	396.593	395.800
35.0	411.664	390.644	387.471	385.885	385.092
37.5	400.162	378.350	375.970	374.780	373.987
40.0	386.282	365.262	363.279	362.486	362.089
42.5	372.004	351.381	350.192	349.795	348.209
45.0	357.330	337.104	337.104	336.311	334.725
47.5	341.467	322.034	323.223	321.240	319.654
50.0	324.810	306.963	308.946	306.566	303.790
52.5	308.153	291.496	294.272	290.703	287.530
55.0	290.703	275.632	278.408	273.649	276.029
57.5	272.063	259.372	261.751	262.545	266.114
60.0	253.423	242.715	244.698	252.630	257.389
62.5	235.180	226.058	228.041	243.508	248.664
65.0	214.953	208.608	216.143	234.386	239.939
67.5	195.124	191.158	205.039	225.661	232.007
70.0	174.501	173.708	195.124	217.333	223.282
72.5	153.085	155.068	185.606	208.211	213.367
75.0	131.669	138.808	175.691	197.503	201.073
77.5	109.856	126.513	164.586	182.829	184.019
80.0	88.044	115.409	150.309	160.224	157.051
82.5	66.231	104.304	127.306	120.564	108.666
85.0	44.815	89.233	77.336	44.418	29.744
87.5	24.985	46.401	30.934	24.192	19.036
90.0	12.691	29.348	25.779	20.226	15.864
92.5	27.926	52.361	48.372	42.886	37.401
95.0	47.873	71.311	68.817	63.332	58.345
97.5	67.321	90.759	89.762	84.775	79.788
100.0	87.268	113.199	112.202	107.714	102.727
102.5	110.706	137.136	136.139	132.149	126.664
105.0	136.139	163.067	161.072	157.582	151.598
107.5	163.067	188.500	187.502	183.014	177.529
110.0	190.993	214.431	215.428	210.441	204.457
112.5	220.914	239.365	245.349	238.866	232.383
115.0	250.834	268.288	275.269	267.789	261.306
117.5	281.752	299.704	306.187	298.208	291.227
120.0	313.667	330.124	337.105	328.628	321.147
122.5	346.580	360.543	368.023	360.044	350.569
125.0	379.493	392.458	398.442	391.959	381.487
127.5	412.904	423.875	426.867	423.875	413.403
130.0	446.315	455.790	459.281	455.790	445.318
132.5	480.724	488.204	493.191	487.705	477.732

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-TG-ITL90233.011.IES****CANDELA TABULATION - (Cont.)**

135.0	514.135	519.621	525.605	519.621	510.146
137.5	547.546	552.035	555.525	550.539	542.061
140.0	580.459	582.454	586.443	580.459	572.979
142.5	612.873	612.873	616.364	610.380	603.897
145.0	643.791	642.295	645.287	640.300	634.316
147.5	672.714	669.223	672.714	669.223	662.741
150.0	700.640	697.648	701.139	697.149	691.664
152.5	727.070	722.083	727.070	722.582	716.598
155.0	751.505	745.521	751.006	746.518	743.028
157.5	773.447	767.961	771.951	767.961	765.468
160.0	793.892	787.908	793.394	788.906	786.911
162.5	811.845	806.359	811.346	806.858	804.863
165.0	827.304	823.314	825.808	823.314	820.821
167.5	840.269	837.776	838.773	837.776	836.280
170.0	851.240	849.744	850.243	849.744	848.747
172.5	859.219	859.718	858.720	858.720	858.720
175.0	865.702	865.702	865.702	865.702	865.203
177.5	869.691	869.691	869.691	869.193	869.193
180.0	870.689	870.689	870.689	870.689	870.689

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-TG-ITL90233.011.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	177.73	N.A.	4.50
0-30	377.34	N.A.	9.60
0-40	621.95	N.A.	15.90
0-60	1132.74	N.A.	28.90
0-80	1530.93	N.A.	39.10
0-90	1607.84	N.A.	41.00
10-90	1561.54	N.A.	39.90
20-40	444.21	N.A.	11.30
20-50	705.76	N.A.	18.00
40-70	730.81	N.A.	18.70
60-80	398.19	N.A.	10.20
70-80	178.18	N.A.	4.50
80-90	76.91	N.A.	2.00
90-110	235.87	N.A.	6.00
90-120	500.88	N.A.	12.80
90-130	850.44	N.A.	21.70
90-150	1651.95	N.A.	42.20
90-180	2310.5	N.A.	59.00
110-180	2074.64	N.A.	52.90
0-180	3918.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

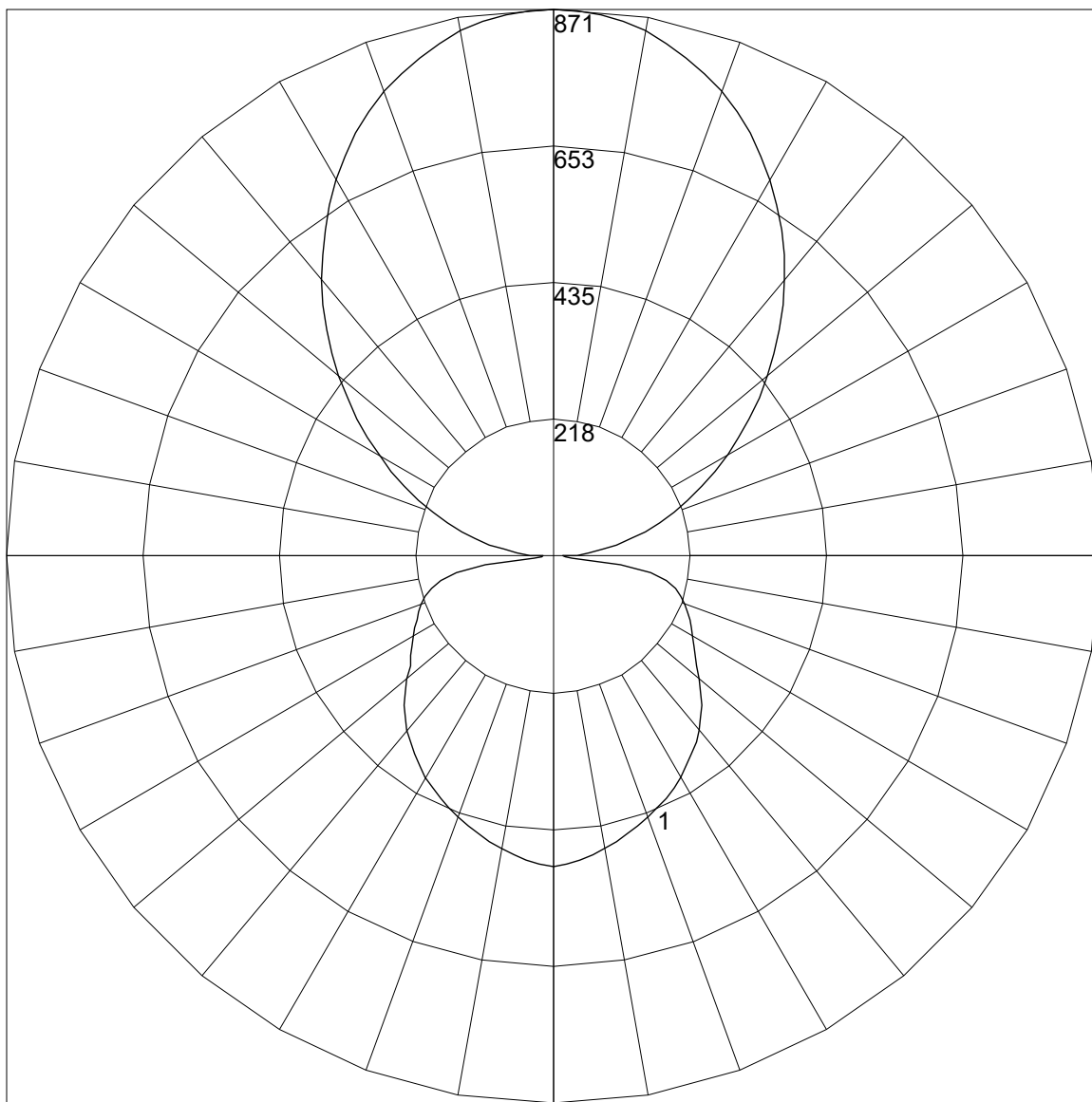
Zone	Lumens
0-10	46.31
10-20	131.43
20-30	199.61
30-40	244.61
40-50	261.55
50-60	249.24
60-70	220.02
70-80	178.18
80-90	76.91
90-100	70.17
100-110	165.70
110-120	265.01
120-130	349.56
130-140	400.38
140-150	401.13
150-160	344.10
160-170	232.33
170-180	82.13

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	95	90	86	82	86	82	79	75	67	65	62	53	52	50	41	40	39	33
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	32	26
3	78	68	61	54	71	62	56	50	51	46	42	40	37	34	31	28	26	22
4	71	60	52	46	64	55	48	42	45	40	35	36	32	29	27	25	22	18
5	65	53	45	39	59	49	41	36	40	34	30	32	28	25	24	22	19	16
6	60	48	39	33	54	44	36	31	36	30	26	29	25	21	22	19	17	14
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15	12
8	51	39	31	26	46	36	29	24	29	24	20	24	20	17	18	15	13	11
9	48	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

POLAR GRAPH



Maximum Candela = 870.689 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)