

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-S-B-835-TG-ITL90233.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.014 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-S-B-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.7 WATTS

[_ABSOLUTE]LUMENS]3861

[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	3861
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	6536	4165	3702
55	6435	3683	3188
65	6266	3180	2995
75	5879	3015	2823
85	4572	1652	494

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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	621.393	621.393	621.393	621.393	621.393
2.5	620.894	620.396	618.401	616.905	616.905
5.0	619.897	616.905	613.414	610.920	609.923
7.5	617.403	612.416	607.429	603.439	603.439
10.0	613.912	605.933	599.948	595.959	594.961
12.5	609.424	597.954	591.969	587.481	585.486
15.0	603.938	589.475	583.491	578.504	576.509
17.5	597.455	580.000	573.517	569.028	566.535
20.0	589.974	570.026	563.543	558.555	556.561
22.5	580.499	559.054	552.571	548.083	546.088
25.0	570.026	546.586	540.602	536.612	535.116
27.5	558.555	534.119	528.633	524.643	523.147
30.0	546.088	520.653	515.168	512.175	511.178
32.5	532.124	506.191	501.702	498.710	497.713
35.0	517.661	491.230	487.240	485.245	484.248
37.5	503.199	475.770	472.777	471.281	470.284
40.0	485.744	459.312	456.819	455.821	455.322
42.5	467.790	441.857	440.361	439.862	437.868
45.0	449.338	423.904	423.904	422.906	420.911
47.5	429.390	404.953	406.449	403.955	401.960
50.0	408.444	386.002	388.495	385.503	382.012
52.5	387.498	366.552	370.043	365.555	361.565
55.0	365.555	346.604	350.095	344.110	347.102
57.5	342.115	326.157	329.149	330.146	334.635
60.0	318.676	305.211	307.704	317.678	323.663
62.5	295.735	284.265	286.758	306.208	312.691
65.0	270.301	262.322	271.797	294.738	301.720
67.5	245.365	240.378	257.833	283.766	291.745
70.0	219.433	218.435	245.365	273.293	280.774
72.5	192.502	194.996	233.396	261.823	268.306
75.0	165.572	174.549	220.929	248.358	252.846
77.5	138.143	159.089	206.965	229.905	231.402
80.0	110.714	145.125	189.011	201.479	197.489
82.5	83.285	131.161	160.086	151.608	136.647
85.0	56.354	112.210	97.248	55.856	37.403
87.5	31.419	58.349	38.899	30.421	23.938
90.0	15.959	36.905	32.416	25.434	19.948
92.5	22.211	41.645	38.472	34.109	29.747
95.0	38.076	56.717	54.734	50.371	46.405
97.5	53.544	72.185	71.392	67.425	63.459
100.0	69.409	90.033	89.240	85.670	81.704
102.5	88.050	109.071	108.277	105.104	100.742
105.0	108.277	129.695	128.108	125.332	120.573
107.5	129.695	149.922	149.129	145.560	141.197
110.0	151.906	170.547	171.340	167.374	162.614
112.5	175.703	190.378	195.137	189.981	184.825
115.0	199.500	213.382	218.934	212.985	207.829
117.5	224.090	238.369	243.525	237.179	231.626
120.0	249.474	262.563	268.115	261.373	255.423
122.5	275.651	286.756	292.706	286.360	278.824
125.0	301.828	312.140	316.899	311.743	303.414
127.5	328.401	337.127	339.507	337.127	328.798
130.0	354.975	362.511	365.287	362.511	354.182
132.5	382.342	388.291	392.257	387.894	379.962

CANDELA TABULATION - (Cont.)

135.0	408.915	413.278	418.038	413.278	405.742
137.5	435.489	439.058	441.835	437.869	431.126
140.0	461.666	463.252	466.425	461.666	455.717
142.5	487.446	487.446	490.222	485.463	480.307
145.0	512.037	510.847	513.226	509.260	504.501
147.5	535.041	532.264	535.041	532.264	527.108
150.0	557.251	554.872	557.648	554.475	550.112
152.5	578.272	574.306	578.272	574.703	569.943
155.0	597.707	592.947	597.310	593.740	590.964
157.5	615.158	610.795	613.968	610.795	608.812
160.0	631.419	626.660	631.023	627.453	625.867
162.5	645.698	641.335	645.301	641.731	640.145
165.0	657.993	654.820	656.803	654.820	652.837
167.5	668.305	666.322	667.115	666.322	665.132
170.0	677.031	675.841	676.237	675.841	675.047
172.5	683.376	683.773	682.980	682.980	682.980
175.0	688.533	688.533	688.533	688.533	688.136
177.5	691.706	691.706	691.706	691.309	691.309
180.0	692.499	692.499	692.499	692.499	692.499

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.50	N.A.	5.80
0-30	474.50	N.A.	12.30
0-40	782.09	N.A.	20.30
0-60	1424.4	N.A.	36.90
0-80	1925.12	N.A.	49.90
0-90	2021.84	N.A.	52.40
10-90	1963.61	N.A.	50.90
20-40	558.59	N.A.	14.50
20-50	887.49	N.A.	23.00
40-70	918.98	N.A.	23.80
60-80	500.72	N.A.	13.00
70-80	224.05	N.A.	5.80
80-90	96.72	N.A.	2.50
90-110	189.02	N.A.	4.90
90-120	399.79	N.A.	10.40
90-130	677.81	N.A.	17.60
90-150	1315.29	N.A.	34.10
90-180	1839.07	N.A.	47.60
110-180	1650.05	N.A.	42.70
0-180	3860.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

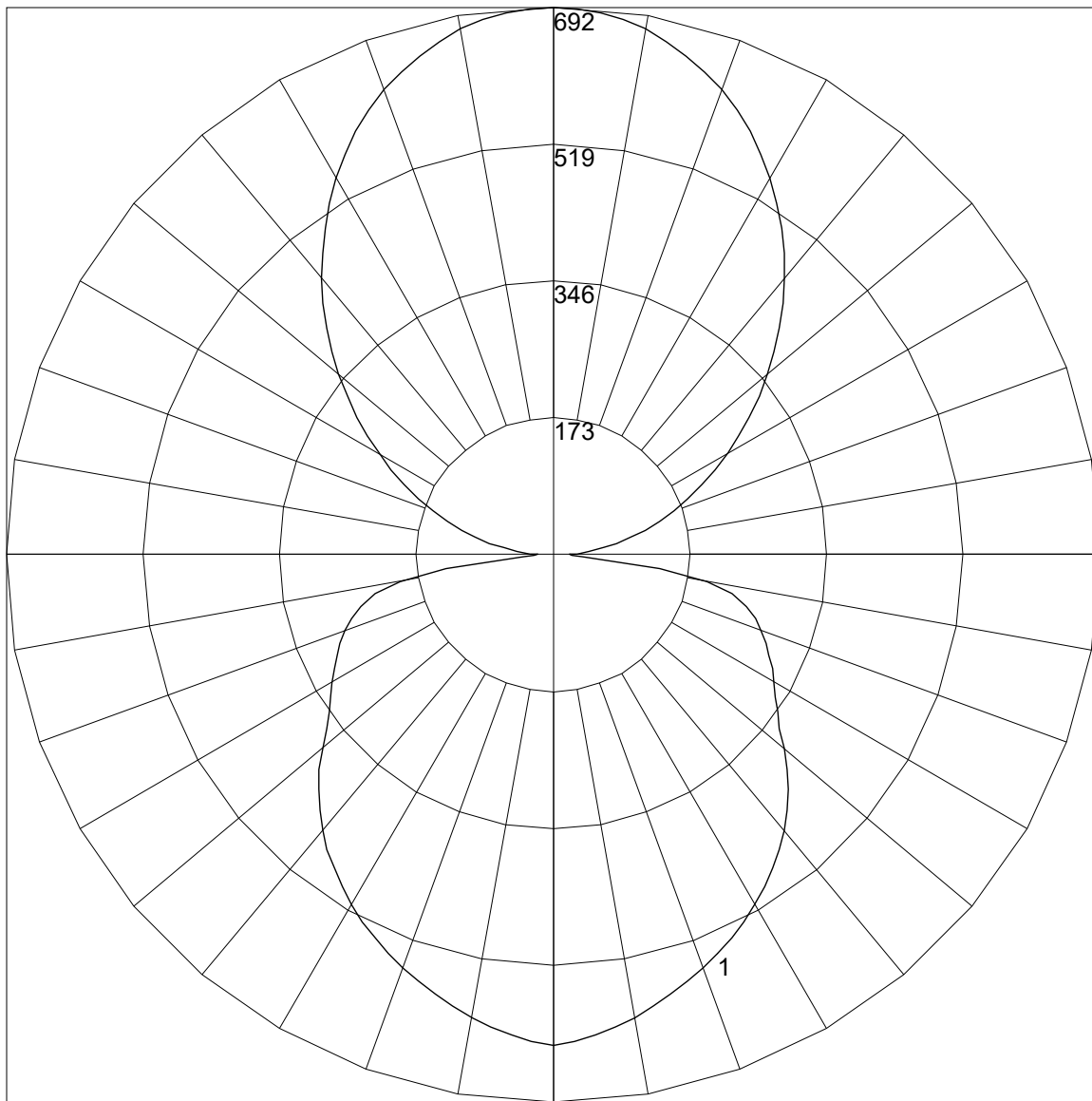
Zone	Lumens
0-10	58.23
10-20	165.27
20-30	251.00
30-40	307.59
40-50	328.90
50-60	313.42
60-70	276.67
70-80	224.05
80-90	96.72
90-100	57.23
100-110	131.79
110-120	210.78
120-130	278.02
130-140	318.44
140-150	319.04
150-160	273.68
160-170	184.78
170-180	65.32

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	97	92	88	84	90	85	82	78	72	70	67	61	59	57	50	48	47	42
2	88	80	73	67	81	74	68	63	63	58	54	52	49	46	43	40	38	34
3	80	70	62	55	73	64	57	52	55	49	45	46	42	38	37	34	32	28
4	73	61	53	46	67	57	49	43	48	42	38	40	36	32	33	30	27	23
5	67	54	46	39	61	50	43	37	43	37	32	36	31	28	30	26	23	20
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	27	23	20	17
7	57	44	35	30	52	41	33	28	35	29	25	29	25	21	24	21	18	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	19	16	14
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	14	12
10	46	33	26	21	42	31	24	20	27	21	17	23	18	15	19	16	13	11

POLAR GRAPH



Maximum Candela = 692.499 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)