

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-H-835-TG-ITL90233.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.015 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-H-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.9 WATTS

[_ABSOLUTE]LUMENS]4896

[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	4896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	41.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.40
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	9877	6294	5594
55	9724	5565	4818
65	9469	4806	4526
75	8885	4556	4266
85	6909	2497	747

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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	939.046	939.046	939.046	939.046	939.046
2.5	938.292	937.538	934.524	932.263	932.263
5.0	936.785	932.263	926.987	923.219	921.712
7.5	933.016	925.480	917.943	911.914	911.914
10.0	927.741	915.683	906.639	900.610	899.102
12.5	920.958	903.624	894.580	887.798	884.783
15.0	912.668	890.812	881.768	874.232	871.217
17.5	902.871	876.493	866.695	859.913	856.144
20.0	891.566	861.420	851.622	844.086	841.071
22.5	877.247	844.840	835.042	828.259	825.245
25.0	861.420	825.998	816.955	810.925	808.665
27.5	844.086	807.157	798.867	792.838	790.577
30.0	825.245	786.809	778.519	773.997	772.489
32.5	804.143	764.953	758.170	753.648	752.141
35.0	782.287	742.343	736.314	733.300	731.792
37.5	760.431	718.980	714.458	712.198	710.690
40.0	734.053	694.110	690.342	688.834	688.081
42.5	706.922	667.732	665.471	664.718	661.703
45.0	679.037	640.601	640.601	639.094	636.079
47.5	648.891	611.962	614.223	610.455	607.440
50.0	617.238	583.324	587.092	582.570	577.295
52.5	585.585	553.931	559.207	552.424	546.395
55.0	552.424	523.786	529.061	520.017	524.539
57.5	517.003	492.886	497.408	498.915	505.698
60.0	481.581	461.233	465.001	480.074	489.118
62.5	446.913	429.579	433.348	462.740	472.537
65.0	408.477	396.419	410.738	445.406	455.957
67.5	370.795	363.258	389.636	428.826	440.884
70.0	331.605	330.098	370.795	412.999	424.304
72.5	290.908	294.676	352.707	395.665	405.463
75.0	250.211	263.777	333.866	375.317	382.100
77.5	208.761	240.414	312.764	347.432	349.693
80.0	167.310	219.312	285.633	304.474	298.445
82.5	125.859	198.209	241.921	229.109	206.500
85.0	85.162	169.571	146.961	84.409	56.524
87.5	47.480	88.177	58.785	45.973	36.175
90.0	24.117	55.770	48.987	38.436	30.146
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

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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	337.75	N.A.	6.90
0-30	717.06	N.A.	14.60
0-40	1181.89	N.A.	24.10
0-60	2152.55	N.A.	44.00
0-80	2909.24	N.A.	59.40
0-90	3055.39	N.A.	62.40
10-90	2967.4	N.A.	60.60
20-40	844.14	N.A.	17.20
20-50	1341.17	N.A.	27.40
40-70	1388.76	N.A.	28.40
60-80	756.69	N.A.	15.50
70-80	338.59	N.A.	6.90
80-90	146.16	N.A.	3.00
90-110	190.99	N.A.	3.90
90-120	401.77	N.A.	8.20
90-130	679.79	N.A.	13.90
90-150	1317.27	N.A.	26.90
90-180	1841.04	N.A.	37.60
110-180	1650.05	N.A.	33.70
0-180	4896.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.00
10-20	249.75
20-30	379.31
30-40	464.83
40-50	497.02
50-60	473.64
60-70	418.10
70-80	338.59
80-90	146.16
90-100	59.20
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

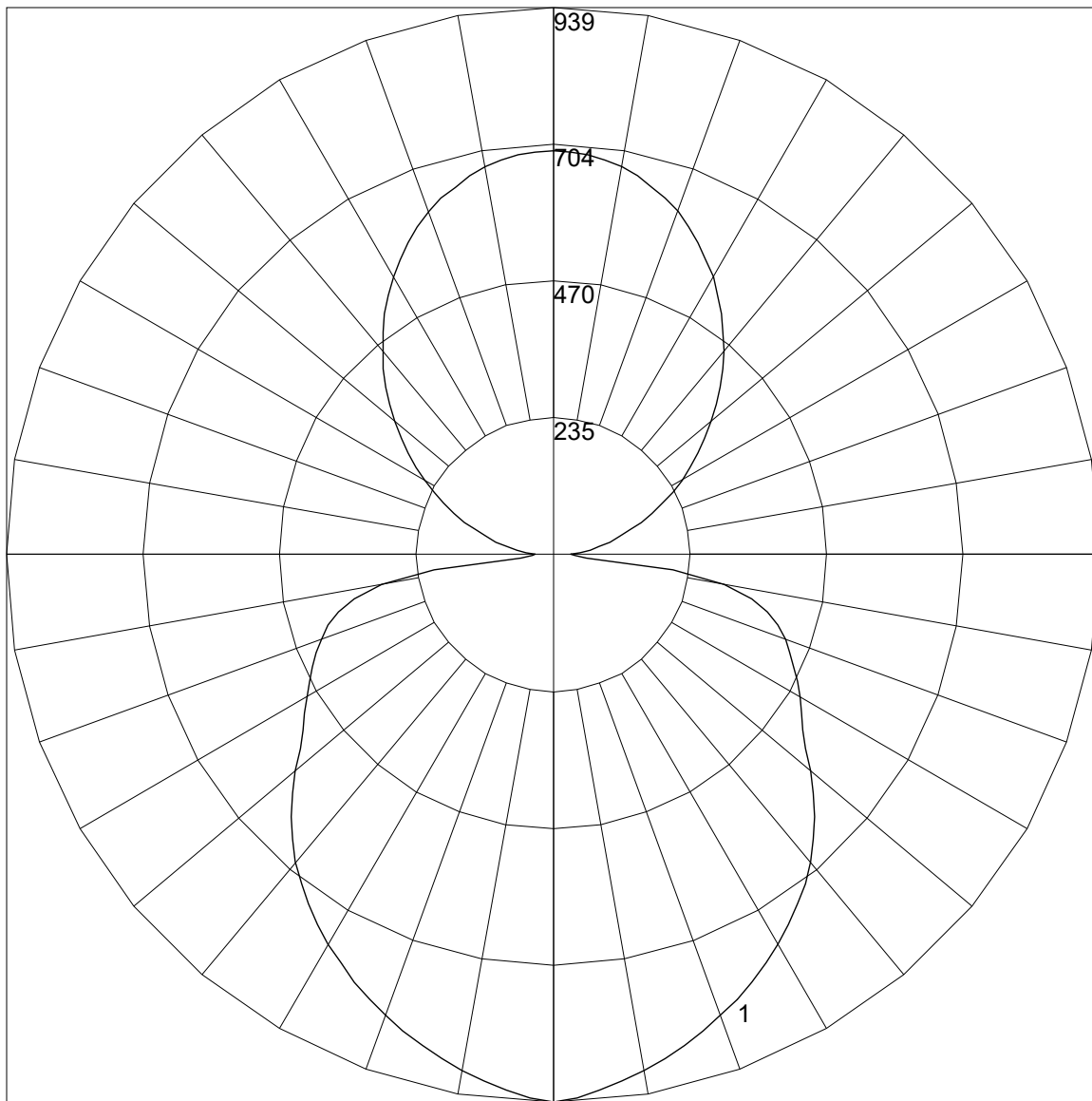
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62
1	99	94	90	86	93	88	84	81	77	74	71	67	65	62	57	56	54	50
2	90	81	74	68	83	76	70	65	66	62	58	58	54	51	49	47	44	40
3	81	71	63	56	76	66	59	53	58	52	48	50	46	42	43	40	37	33
4	74	62	54	47	69	58	51	45	51	45	40	45	40	36	38	34	31	28
5	68	55	47	40	63	52	44	38	46	39	34	40	35	31	34	30	27	24
6	62	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	18
8	54	40	32	27	50	38	31	25	34	28	23	30	25	21	26	22	19	16
9	50	37	29	24	47	35	28	23	31	25	21	27	22	19	24	20	17	15
10	47	34	26	21	44	32	25	20	29	23	19	25	20	17	22	18	15	13

POLAR GRAPH



Maximum Candela = 939.046 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)