

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-V-835-TG-ITL90233.016.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.016 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-V-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 50.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 52.3 WATTS

[_ABSOLUTE]LUMENS]5771

[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	5771
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	50
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	12699	8093	7193
55	12503	7155	6194
65	12174	6179	5819
75	11424	5858	5485
85	8883	3211	961

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-V-835-TG-ITL90233.016.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	1207.364	1207.364	1207.364	1207.364	1207.364
2.5	1206.395	1205.426	1201.550	1198.643	1198.643
5.0	1204.457	1198.643	1191.860	1187.015	1185.077
7.5	1199.612	1189.922	1180.232	1172.481	1172.481
10.0	1192.829	1177.325	1165.698	1157.946	1156.008
12.5	1184.108	1161.822	1150.194	1141.473	1137.597
15.0	1173.450	1145.349	1133.721	1124.031	1120.155
17.5	1160.853	1126.938	1114.341	1105.620	1100.775
20.0	1146.318	1107.558	1094.961	1085.271	1081.395
22.5	1127.907	1086.240	1073.643	1064.922	1061.046
25.0	1107.558	1062.015	1050.388	1042.636	1039.729
27.5	1085.271	1037.791	1027.132	1019.380	1016.473
30.0	1061.046	1011.628	1000.969	995.155	993.217
32.5	1033.915	983.527	974.806	968.992	967.054
35.0	1005.814	954.457	946.705	942.829	940.891
37.5	977.713	924.419	918.605	915.698	913.760
40.0	943.798	892.442	887.597	885.659	884.690
42.5	908.915	858.527	855.620	854.651	850.775
45.0	873.062	823.643	823.643	821.705	817.829
47.5	834.302	786.822	789.729	784.884	781.008
50.0	793.605	750.000	754.845	749.031	742.248
52.5	752.907	712.209	718.992	710.271	702.519
55.0	710.271	673.450	680.233	668.605	674.419
57.5	664.729	633.721	639.535	641.473	650.194
60.0	619.186	593.023	597.868	617.248	628.876
62.5	574.612	552.326	557.170	594.961	607.558
65.0	525.194	509.690	528.101	572.674	586.240
67.5	476.744	467.054	500.969	551.357	566.860
70.0	426.357	424.419	476.744	531.008	545.543
72.5	374.031	378.876	453.488	508.721	521.318
75.0	321.705	339.147	429.264	482.558	491.279
77.5	268.411	309.109	402.132	446.705	449.612
80.0	215.116	281.977	367.248	391.473	383.721
82.5	161.822	254.845	311.046	294.574	265.504
85.0	109.496	218.023	188.953	108.527	72.674
87.5	61.047	113.372	75.581	59.109	46.512
90.0	31.008	71.705	62.984	49.419	38.760
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-V-835-TG-ITL90233.016.IES****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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-V-835-TG-ITL90233.016.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	434.25	N.A.	7.50
0-30	921.95	N.A.	16.00
0-40	1519.6	N.A.	26.30
0-60	2767.61	N.A.	48.00
0-80	3740.51	N.A.	64.80
0-90	3928.43	N.A.	68.10
10-90	3815.29	N.A.	66.10
20-40	1085.34	N.A.	18.80
20-50	1724.39	N.A.	29.90
40-70	1785.58	N.A.	30.90
60-80	972.90	N.A.	16.90
70-80	435.34	N.A.	7.50
80-90	187.92	N.A.	3.30
90-110	192.66	N.A.	3.30
90-120	403.43	N.A.	7.00
90-130	681.45	N.A.	11.80
90-150	1318.93	N.A.	22.90
90-180	1842.71	N.A.	31.90
110-180	1650.05	N.A.	28.60
0-180	5771.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

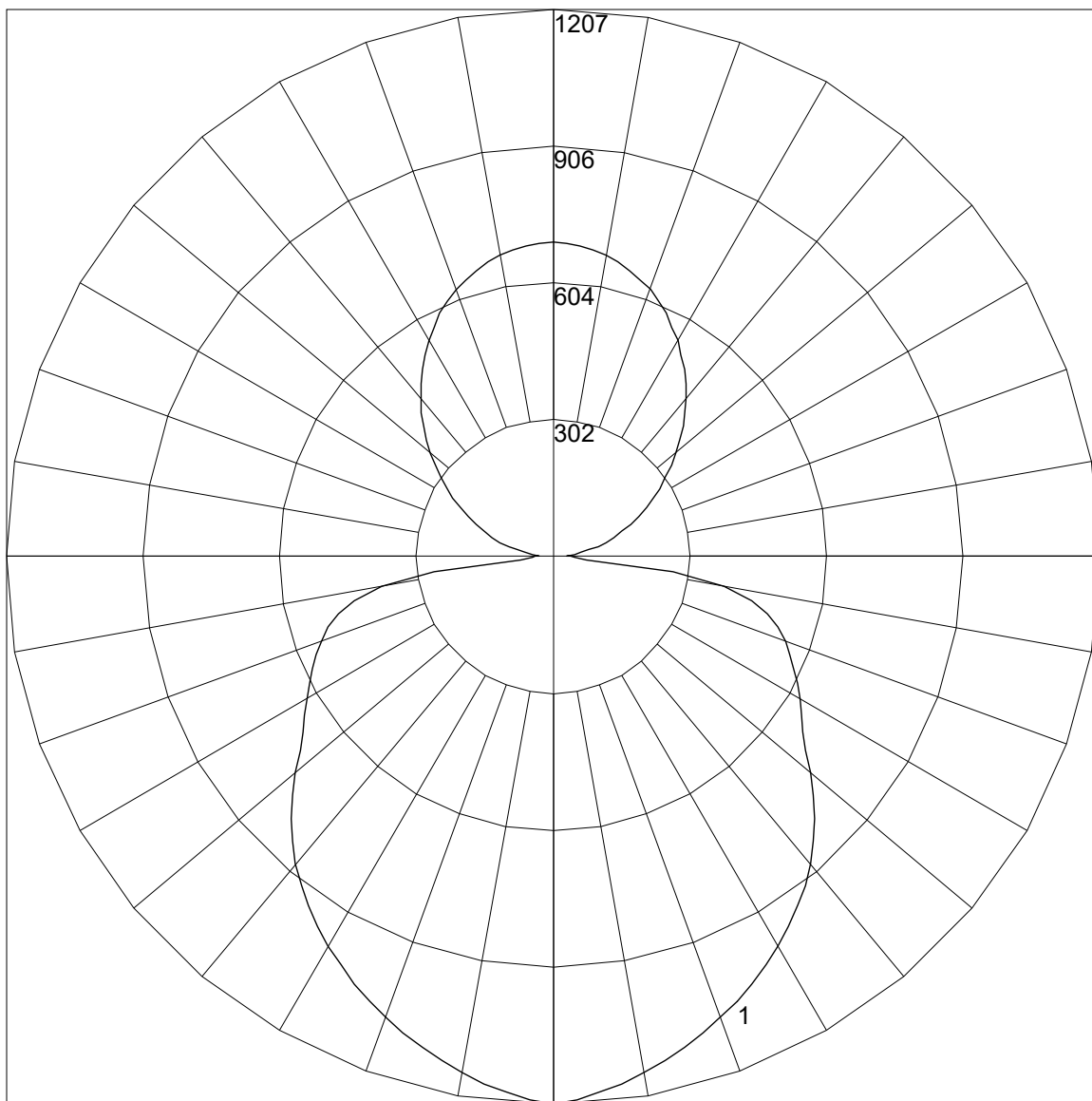
Zone	Lumens
0-10	113.14
10-20	321.11
20-30	487.70
30-40	597.65
40-50	639.04
50-60	608.97
60-70	537.56
70-80	435.34
80-90	187.92
90-100	60.87
100-110	131.79
110-120	210.78
120-130	278.02
130-140	318.44
140-150	319.04
150-160	273.68
160-170	184.78
170-180	65.32

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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	100	95	91	86	94	90	86	82	80	77	74	70	68	66	62	60	58	54
2	91	82	75	69	85	77	71	66	69	64	59	61	57	53	53	50	48	44
3	82	71	63	57	77	67	60	54	60	54	49	53	48	44	47	43	40	36
4	75	63	54	47	70	59	51	45	53	46	41	47	42	37	41	37	34	30
5	69	56	47	40	64	53	45	39	47	40	35	42	36	32	37	33	29	26
6	63	50	41	35	59	47	39	33	42	36	31	38	32	28	33	29	25	23
7	58	45	37	31	55	43	35	29	38	32	27	34	29	25	30	26	22	20
8	54	41	33	27	51	39	31	26	35	29	24	31	26	22	28	23	20	18
9	50	37	29	24	47	36	28	23	32	26	21	29	23	20	26	21	18	16
10	47	34	27	22	44	33	26	21	30	23	19	27	21	18	24	19	16	14

POLAR GRAPH



Maximum Candela = 1207.364 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)