

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-H-S-835-TG-ITL90233.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.008 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-H-S-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.9 WATTS

[_ABSOLUTE]LUMENS]5098

[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	5098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	41.6
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	5198	3312	2944
55	5118	2929	2535
65	4983	2529	2382
75	4676	2398	2245
85	3636	1314	393

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	494.189	494.189	494.189	494.189	494.189
2.5	493.792	493.395	491.809	490.619	490.619
5.0	492.999	490.619	487.843	485.860	485.066
7.5	491.016	487.050	483.083	479.910	479.910
10.0	488.239	481.893	477.134	473.961	473.168
12.5	484.670	475.548	470.788	467.218	465.632
15.0	480.307	468.805	464.046	460.079	458.493
17.5	475.151	461.269	456.113	452.544	450.560
20.0	469.202	453.337	448.181	444.215	442.628
22.5	461.666	444.611	439.455	435.886	434.299
25.0	453.337	434.696	429.936	426.763	425.573
27.5	444.215	424.780	420.417	417.244	416.055
30.0	434.299	414.071	409.709	407.329	406.536
32.5	423.194	402.569	399.000	396.620	395.827
35.0	411.692	390.671	387.498	385.911	385.118
37.5	400.190	378.376	375.996	374.806	374.013
40.0	386.308	365.287	363.304	362.511	362.114
42.5	372.030	351.405	350.216	349.819	348.232
45.0	357.355	337.127	337.127	336.334	334.747
47.5	341.490	322.056	323.245	321.262	319.676
50.0	324.832	306.984	308.967	306.587	303.811
52.5	308.174	291.516	294.292	290.723	287.550
55.0	290.723	275.651	278.427	273.668	276.048
57.5	272.081	259.390	261.769	262.563	266.132
60.0	253.440	242.732	244.715	252.647	257.406
62.5	235.196	226.073	228.057	243.525	248.681
65.0	214.968	208.622	216.158	234.402	239.955
67.5	195.137	191.171	205.053	225.677	232.023
70.0	174.513	173.720	195.137	217.348	223.297
72.5	153.095	155.078	185.618	208.226	213.382
75.0	131.678	138.817	175.703	197.517	201.086
77.5	109.864	126.522	164.597	182.842	184.032
80.0	88.050	115.416	150.319	160.235	157.062
82.5	66.236	104.311	127.315	120.573	108.674
85.0	44.818	89.240	77.341	44.421	29.747
87.5	24.987	46.405	30.936	24.194	19.038
90.0	12.692	29.350	25.780	20.228	15.865
92.5	42.204	79.133	73.104	64.814	56.524
95.0	72.350	107.772	104.003	95.713	88.177
97.5	101.743	137.164	135.657	128.120	120.584
100.0	131.888	171.078	169.571	162.788	155.252
102.5	167.310	207.253	205.746	199.717	191.427
105.0	205.746	246.443	243.428	238.153	229.109
107.5	246.443	284.879	283.372	276.589	268.299
110.0	288.647	324.069	325.576	318.040	308.996
112.5	333.866	361.751	370.795	360.997	351.200
115.0	379.085	405.463	416.014	404.709	394.912
117.5	425.811	452.943	462.740	450.682	440.131
120.0	474.045	498.915	509.466	496.654	485.349
122.5	523.786	544.888	556.192	544.134	529.815
125.0	573.526	593.121	602.165	592.367	576.541
127.5	624.021	640.601	645.123	640.601	624.774
130.0	674.515	688.834	694.110	688.834	673.008
132.5	726.517	737.822	745.358	737.068	721.995

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-S-835-TG-ITL90233.008.IES****CANDELA TABULATION - (Cont.)**

135.0	777.011	785.301	794.345	785.301	770.982
137.5	827.506	834.289	839.564	832.028	819.216
140.0	877.247	880.261	886.290	877.247	865.942
142.5	926.234	926.234	931.509	922.465	912.668
145.0	972.960	970.699	975.221	967.684	958.641
147.5	1016.671	1011.396	1016.671	1011.396	1001.598
150.0	1058.876	1054.354	1059.629	1053.600	1045.310
152.5	1098.819	1091.283	1098.819	1092.036	1082.992
155.0	1135.748	1126.704	1134.994	1128.211	1122.936
157.5	1168.908	1160.618	1166.647	1160.618	1156.850
160.0	1199.808	1190.764	1199.054	1192.271	1189.257
162.5	1226.939	1218.649	1226.186	1219.403	1216.388
165.0	1250.302	1244.273	1248.041	1244.273	1240.505
167.5	1269.897	1266.129	1267.636	1266.129	1263.868
170.0	1286.478	1284.216	1284.970	1284.216	1282.709
172.5	1298.536	1299.289	1297.782	1297.782	1297.782
175.0	1308.333	1308.333	1308.333	1308.333	1307.580
177.5	1314.362	1314.362	1314.362	1313.609	1313.609
180.0	1315.870	1315.870	1315.870	1315.870	1315.870

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	177.74	N.A.	3.50
0-30	377.36	N.A.	7.40
0-40	621.99	N.A.	12.20
0-60	1132.81	N.A.	22.20
0-80	1531.03	N.A.	30.00
0-90	1607.95	N.A.	31.50
10-90	1561.64	N.A.	30.60
20-40	444.24	N.A.	8.70
20-50	705.81	N.A.	13.80
40-70	730.86	N.A.	14.30
60-80	398.22	N.A.	7.80
70-80	178.19	N.A.	3.50
80-90	76.92	N.A.	1.50
90-110	354.90	N.A.	7.00
90-120	755.41	N.A.	14.80
90-130	1283.7	N.A.	25.20
90-150	2495.02	N.A.	48.90
90-180	3490.29	N.A.	68.50
110-180	3135.39	N.A.	61.50
0-180	5098.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

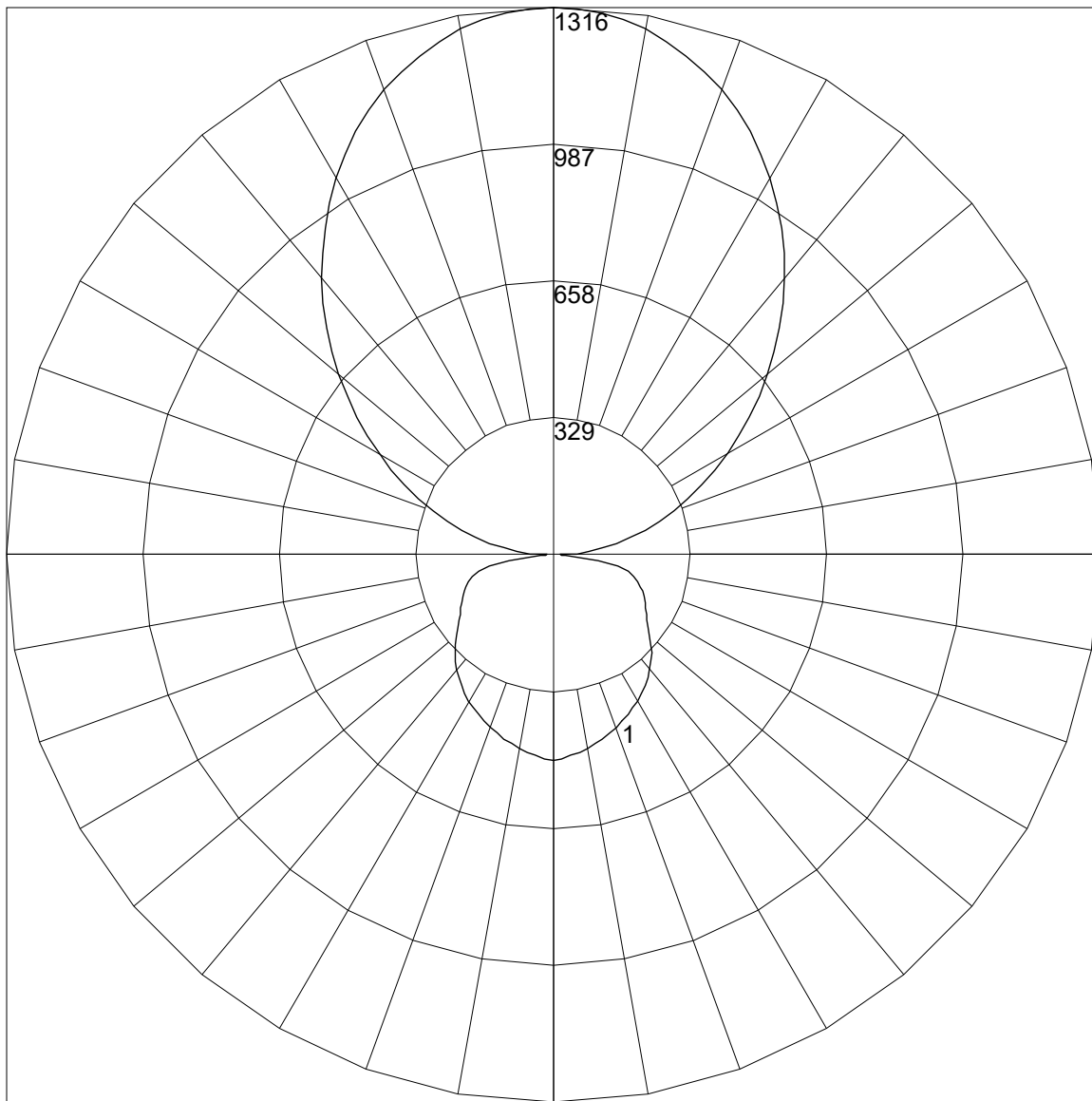
Zone	Lumens
0-10	46.31
10-20	131.43
20-30	199.62
30-40	244.62
40-50	261.57
50-60	249.26
60-70	220.03
70-80	178.19
80-90	76.92
90-100	104.47
100-110	250.42
110-120	400.51
120-130	528.29
130-140	605.09
140-150	606.23
150-160	520.03
160-170	351.12
170-180	124.12

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	32
1	93	88	84	81	83	80	76	73	63	60	58	48	46	45	33	32	32	25
2	84	77	70	65	75	69	64	59	55	51	48	41	39	36	29	27	26	20
3	77	67	60	54	68	60	54	49	48	43	39	36	33	30	25	23	22	17
4	70	59	51	45	62	53	46	41	42	37	33	32	28	26	22	20	18	14
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	18	16	12
6	59	47	39	33	52	42	35	30	34	28	25	26	22	19	18	16	14	10
7	54	42	34	29	48	38	31	26	30	25	21	23	19	17	16	14	12	9
8	50	38	30	25	45	34	28	23	27	22	19	21	17	15	15	13	11	8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	10	7
10	43	31	24	20	39	29	22	18	23	18	15	18	14	12	13	10	9	7

POLAR GRAPH



Maximum Candela = 1315.87 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)