

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-ASY-ITL89988-ITL90233.207.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.207 Family Correlation file

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/16/17

[ISSUEDATE]03/26/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HO4-ID-RO-4ft-H-S-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.9 WATTS

[OTHER]see www.finelite.com for source files ITL89988 AND 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

[_ABSOLUTE LUMENS]5110

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5110
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
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4343	4097	4068
55	4356	4172	4136
65	4371	4395	4879
75	4372	5834	6677
85	4419	7626	2933

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	510.100	510.100	510.100	510.100	510.100	510.100	510.100	510.100	510.100
2.5	509.691	509.281	507.644	506.415	506.415	506.415	507.644	509.281	509.691
5.0	508.872	506.415	503.550	501.912	500.684	501.503	503.550	506.415	508.872
7.5	506.825	502.731	498.637	495.771	495.362	495.362	498.637	502.731	506.825
10.0	503.959	497.818	492.496	489.630	488.402	489.221	492.496	497.818	503.959
12.5	500.275	491.268	485.946	482.671	480.624	482.261	485.946	490.859	500.275
15.0	495.771	484.718	478.986	475.302	473.255	474.892	478.986	483.899	495.771
17.5	490.449	476.939	470.798	467.114	465.067	467.114	470.798	476.121	490.449
20.0	484.308	469.161	462.611	458.926	456.879	458.517	462.611	467.933	484.308
22.5	476.530	460.154	453.604	450.329	448.282	449.920	453.604	458.926	476.530
25.0	467.933	449.920	443.779	440.913	439.276	440.504	443.779	448.691	467.933
27.5	458.517	439.685	433.953	431.088	429.450	430.678	433.953	438.457	458.517
30.0	448.282	429.041	422.900	420.853	419.625	420.443	422.900	427.403	448.282
32.5	436.819	417.168	411.846	409.799	408.571	409.390	411.846	415.531	436.819
35.0	424.947	404.887	399.974	398.337	397.518	398.337	399.974	403.249	424.947
37.5	413.075	392.196	388.102	386.873	386.055	386.873	388.102	390.558	413.075
40.0	398.746	378.686	375.001	374.183	373.773	374.183	375.001	377.048	398.746
42.5	384.008	364.357	361.491	361.082	359.444	361.082	361.491	362.719	384.008
45.0	368.860	349.619	347.981	347.163	345.525	347.163	347.981	347.981	368.860
47.5	352.485	334.062	333.653	332.015	329.968	331.606	333.653	332.425	352.485
50.0	335.290	318.915	318.915	316.459	313.593	316.459	318.915	316.868	335.290
52.5	318.096	302.539	303.767	300.083	296.808	300.083	303.767	300.902	318.096
55.0	300.083	286.164	287.392	282.889	284.935	282.479	287.392	284.526	300.083
57.5	280.842	269.379	270.197	271.426	274.701	271.016	270.197	267.741	280.842
60.0	261.600	251.775	252.594	260.781	265.694	260.781	252.594	250.547	261.600
62.5	242.768	234.581	235.399	250.547	256.688	251.365	235.399	233.352	242.768
65.0	221.889	216.567	223.118	241.131	247.681	241.950	223.118	215.339	221.889
67.5	201.420	198.964	211.655	231.715	239.493	232.943	211.655	197.326	201.420
70.0	180.132	181.360	201.420	223.118	230.487	224.346	201.420	179.313	180.132
72.5	158.024	162.528	191.595	213.702	220.252	214.930	191.595	160.071	158.024
75.0	135.917	145.743	181.360	202.239	207.561	203.876	181.360	143.286	135.917
77.5	113.401	132.642	169.897	187.501	189.957	188.729	169.897	130.595	113.401
80.0	90.885	119.951	155.159	164.165	162.118	165.394	155.159	119.132	90.885
82.5	68.368	106.441	131.414	124.045	112.173	124.455	131.414	107.670	68.368
85.0	46.261	87.609	79.831	47.489	30.704	45.852	79.831	92.113	46.261
87.5	25.792	45.033	31.932	25.382	19.651	24.973	31.932	47.899	25.792
90.0	13.101	28.657	26.610	21.288	16.376	20.879	26.610	30.295	13.101
92.5	52.115	52.892	45.114	47.448	17.112	45.114	70.782	84.784	90.228
95.0	110.452	112.785	113.563	115.897	44.336	71.560	109.674	129.898	136.120
97.5	174.234	185.901	211.570	175.790	72.338	94.895	144.676	174.234	182.790
100.0	269.907	285.464	309.576	233.349	101.118	120.564	173.456	210.014	222.459
102.5	364.802	382.692	404.472	290.131	131.453	146.232	204.569	237.238	249.683
105.0	452.697	487.699	503.256	346.134	161.011	170.345	228.682	267.574	276.130
107.5	557.704	617.597	606.707	397.471	192.124	192.124	252.017	294.020	301.798
110.0	702.380	761.495	705.492	441.030	223.237	213.903	276.130	321.244	329.022
112.5	878.170	903.838	802.721	479.143	255.128	234.905	300.242	347.690	357.024
115.0	1038.403	1043.070	882.059	514.146	287.019	256.684	322.022	373.358	383.470
117.5	1188.524	1165.189	938.063	544.481	318.910	279.241	342.245	399.027	409.916
120.0	1309.088	1256.195	972.288	573.261	353.913	303.354	360.135	421.584	435.585
122.5	1396.205	1316.088	991.733	602.818	389.693	326.689	377.248	444.141	460.475
125.0	1447.542	1344.090	1001.845	630.820	423.917	349.246	392.026	461.253	482.255
127.5	1465.432	1347.979	1008.068	658.044	458.920	372.581	406.027	475.254	501.700
130.0	1457.653	1336.312	1012.735	686.824	493.144	395.138	419.250	483.810	513.368
132.5	1433.541	1316.866	1018.179	716.381	528.146	417.695	433.251	490.033	517.257

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-S-835-ASY-ITL89988-ITL90233.207.IES****CANDELA TABULATION - (Cont.)**

135.0	1402.428	1294.309	1025.180	745.939	563.149	444.141	446.474	494.700	518.813
137.5	1370.536	1272.530	1033.736	777.052	598.929	472.921	460.475	499.367	518.813
140.0	1338.645	1252.306	1043.070	808.165	635.487	504.034	473.699	503.256	518.813
142.5	1310.644	1237.528	1053.182	839.279	671.267	536.703	486.922	507.145	518.813
145.0	1288.864	1225.082	1063.294	869.614	707.048	568.594	500.923	512.590	519.591
147.5	1270.196	1215.748	1075.739	899.172	742.828	601.263	518.035	520.368	523.480
150.0	1255.418	1208.748	1088.962	927.173	778.608	636.265	539.814	528.924	529.702
152.5	1242.195	1202.525	1102.185	952.842	811.277	673.601	570.927	539.814	536.703
155.0	1229.749	1198.636	1113.852	975.399	843.168	713.270	609.041	556.148	549.148
157.5	1222.749	1197.080	1122.409	995.622	873.503	753.717	650.266	584.150	569.372
160.0	1217.304	1195.525	1127.853	1012.735	901.505	792.609	692.269	627.709	606.707
162.5	1207.192	1190.080	1128.631	1025.958	927.173	830.722	735.827	676.712	656.489
165.0	1195.525	1178.412	1124.742	1036.070	948.953	865.725	784.830	725.715	707.825
167.5	1176.079	1162.078	1114.630	1041.514	967.620	897.616	831.500	778.608	760.718
170.0	1151.188	1140.299	1101.407	1043.848	983.955	927.173	875.837	837.723	823.722
172.5	1120.075	1113.075	1082.739	1041.514	995.622	952.842	916.284	889.837	880.504
175.0	1089.740	1082.739	1062.516	1036.070	1005.734	976.177	952.842	936.507	930.285
177.5	1050.848	1047.737	1037.625	1025.180	1010.401	995.622	983.955	975.399	972.288
180.0	1012.735	1012.735	1012.735	1012.735	1012.735	1012.735	1012.735	1012.735	1012.735

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-S-835-ASY-ITL89988-ITL90233.207.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	183.51	N.A.	3.60
0-30	389.66	N.A.	7.60
0-40	642.29	N.A.	12.60
0-60	1169.95	N.A.	22.90
0-80	1581.16	N.A.	30.90
0-90	1660.29	N.A.	32.50
10-90	1612.48	N.A.	31.60
20-40	458.79	N.A.	9.00
20-50	728.95	N.A.	14.30
40-70	754.84	N.A.	14.80
60-80	411.21	N.A.	8.00
70-80	184.03	N.A.	3.60
80-90	79.13	N.A.	1.50
90-110	452.35	N.A.	8.90
90-120	990.85	N.A.	19.40
90-130	1610.23	N.A.	31.50
90-150	2687.26	N.A.	52.60
90-180	3449.73	N.A.	67.50
110-180	2997.38	N.A.	58.70
0-180	5110.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.81
10-20	135.70
20-30	206.15
30-40	252.64
40-50	270.16
50-60	257.49
60-70	227.19
70-80	184.03
80-90	79.13
90-100	116.53
100-110	335.82
110-120	538.50
120-130	619.38
130-140	578.24
140-150	498.79
150-160	398.77
160-170	268.20
170-180	95.51

IES INDOOR REPORT

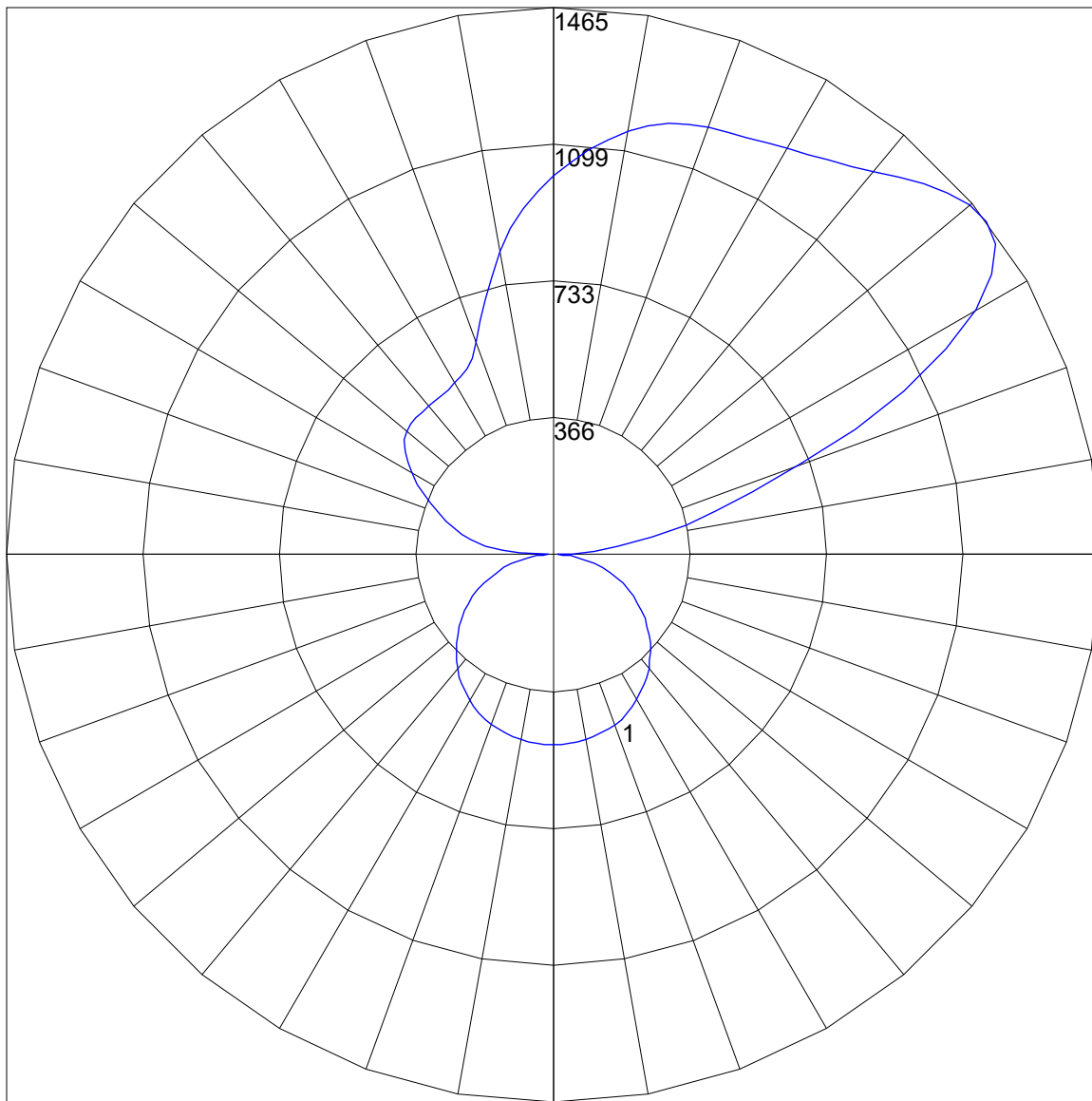
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-S-835-ASY-ITL89988-ITL90233.207.IES

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	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	93	89	85	81	84	80	76	73	63	61	59	48	47	45	34	33	32	26
2	84	77	71	65	76	69	64	59	55	51	48	42	39	37	30	28	26	21
3	77	67	60	54	69	60	54	49	48	43	40	37	33	31	26	24	22	17
4	70	59	51	45	63	53	46	41	42	37	33	32	29	26	23	21	19	15
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	20	18	16	12
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	18	16	14	11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	9
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	8
9	47	35	27	22	42	31	25	20	25	20	17	20	16	13	14	12	10	8
10	43	32	24	20	39	29	22	18	23	18	15	18	14	12	13	11	9	7

POLAR GRAPH



Maximum Candela = 1465.432 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)