

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-H-835-ASY-ITL89988-ITL90233.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.203 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-H-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.7 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]6607

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6607
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	55.1
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
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	8252	7785	7730
55	8276	7926	7858
65	8305	8351	9271
75	8307	11084	12686
85	8396	14489	5573

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	969.176	969.176	969.176	969.176	969.176	969.176	969.176	969.176	969.176
2.5	968.399	967.621	964.509	962.176	962.176	962.176	964.509	967.621	968.399
5.0	966.843	962.176	956.731	953.620	951.286	952.842	956.731	962.176	966.843
7.5	962.954	955.175	947.397	941.952	941.174	941.174	947.397	955.175	962.954
10.0	957.509	945.841	935.730	930.285	927.951	929.507	935.730	945.064	957.509
12.5	950.508	933.396	923.284	917.062	913.173	916.284	923.284	932.618	950.508
15.0	941.952	920.951	910.061	903.061	899.172	902.283	910.061	919.395	941.952
17.5	931.840	906.172	894.505	887.504	883.615	887.504	894.505	904.616	931.840
20.0	920.173	891.393	878.948	871.948	868.058	871.170	878.948	889.060	920.173
22.5	905.394	874.281	861.836	855.613	851.724	854.835	861.836	871.948	905.394
25.0	889.060	854.835	843.168	837.723	834.612	836.945	843.168	852.502	889.060
27.5	871.170	835.390	824.500	819.055	815.944	818.277	824.500	833.056	871.170
30.0	851.724	815.166	803.499	799.609	797.276	798.832	803.499	812.055	851.724
32.5	829.945	792.609	782.497	778.608	776.274	777.830	782.497	789.498	829.945
35.0	807.388	769.274	759.940	756.829	755.273	756.829	759.940	766.163	807.388
37.5	784.831	745.161	737.383	735.049	733.494	735.049	737.383	742.050	784.831
40.0	757.607	719.493	712.492	710.937	710.159	710.937	712.492	716.382	757.607
42.5	729.605	692.269	686.824	686.046	682.935	686.046	686.824	689.157	729.605
45.0	700.825	664.267	661.156	659.600	656.489	659.600	661.156	661.156	700.825
47.5	669.712	634.709	633.932	630.820	626.931	630.042	633.932	631.598	669.712
50.0	637.043	605.930	605.930	601.263	595.818	601.263	605.930	602.041	637.043
52.5	604.374	574.816	577.150	570.149	563.927	570.149	577.150	571.705	604.374
55.0	570.149	543.703	546.037	537.481	541.370	536.703	546.037	540.592	570.149
57.5	533.591	511.812	513.368	515.701	521.924	514.924	513.368	508.701	533.591
60.0	497.033	478.366	479.921	495.478	504.812	495.478	479.921	476.032	497.033
62.5	461.253	445.697	447.252	476.032	487.699	477.588	447.252	443.363	461.253
65.0	421.584	411.472	423.917	458.142	470.587	459.698	423.917	409.139	421.584
67.5	382.692	378.025	402.138	440.252	455.031	442.585	402.138	374.914	382.692
70.0	342.245	344.579	382.692	423.917	437.918	426.251	382.692	340.690	342.245
72.5	300.242	308.799	364.024	406.027	418.473	408.361	364.024	304.132	300.242
75.0	258.240	276.908	344.579	384.248	394.360	387.359	344.579	272.241	258.240
77.5	215.459	252.017	322.800	356.246	360.913	358.580	322.800	248.128	215.459
80.0	172.678	227.904	294.798	311.910	308.021	314.243	294.798	226.349	172.678
82.5	129.898	202.236	249.683	235.683	213.125	236.460	249.683	204.569	129.898
85.0	87.895	166.456	151.677	90.228	58.337	87.117	151.677	175.012	87.895
87.5	49.003	85.561	60.671	48.225	37.336	47.448	60.671	91.006	49.003
90.0	24.891	54.448	50.559	40.447	31.113	39.669	50.559	57.559	24.891
92.5	52.115	52.892	45.114	47.448	17.112	45.114	70.783	84.783	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	702.381	761.496	705.492	441.030	223.237	213.903	276.130	321.244	329.022
112.5	878.170	903.839	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	1165.190	938.063	544.481	318.910	279.241	342.245	399.027	409.916
120.0	1309.088	1256.196	972.288	573.261	353.913	303.354	360.135	421.584	435.585
122.5	1396.205	1316.089	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	1347.980	1008.068	658.044	458.920	372.581	406.027	475.254	501.700
130.0	1457.654	1336.312	1012.735	686.824	493.144	395.138	419.250	483.810	513.368
132.5	1433.541	1316.866	1018.180	716.382	528.147	417.695	433.251	490.033	517.257

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-H-835-ASY-ITL89988-ITL90233.203.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	1370.537	1272.530	1033.736	777.052	598.929	472.921	460.475	499.367	518.813
140.0	1338.646	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	1288.865	1225.082	1063.294	869.614	707.048	568.594	500.923	512.590	519.591
147.5	1270.197	1215.748	1075.739	899.172	742.828	601.263	518.035	520.368	523.480
150.0	1255.418	1208.748	1088.962	927.174	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	1113.853	975.399	843.168	713.270	609.041	556.149	549.148
157.5	1222.749	1197.081	1122.409	995.623	873.503	753.717	650.266	584.150	569.372
160.0	1217.304	1195.525	1127.854	1012.735	901.505	792.609	692.269	627.709	606.707
162.5	1207.192	1190.080	1128.632	1025.958	927.174	830.723	735.827	676.712	656.489
165.0	1195.525	1178.413	1124.742	1036.070	948.953	865.725	784.831	725.716	707.825
167.5	1176.079	1162.078	1114.631	1041.515	967.621	897.616	831.500	778.608	760.718
170.0	1151.189	1140.299	1101.407	1043.848	983.955	927.174	875.837	837.723	823.722
172.5	1120.075	1113.075	1082.740	1041.515	995.623	952.842	916.284	889.838	880.504
175.0	1089.740	1082.740	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	995.623	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-H-835-ASY-ITL89988-ITL90233.203.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	348.66	N.A.	5.30
0-30	740.33	N.A.	11.20
0-40	1220.34	N.A.	18.50
0-60	2222.87	N.A.	33.60
0-80	3004.16	N.A.	45.50
0-90	3154.51	N.A.	47.70
10-90	3063.68	N.A.	46.40
20-40	871.68	N.A.	13.20
20-50	1384.98	N.A.	21.00
40-70	1434.17	N.A.	21.70
60-80	781.29	N.A.	11.80
70-80	349.64	N.A.	5.30
80-90	150.34	N.A.	2.30
90-110	455.18	N.A.	6.90
90-120	993.68	N.A.	15.00
90-130	1613.06	N.A.	24.40
90-150	2690.09	N.A.	40.70
90-180	3452.56	N.A.	52.30
110-180	2997.38	N.A.	45.40
0-180	6607.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.83
10-20	257.83
20-30	391.67
30-40	480.01
40-50	513.30
50-60	489.22
60-70	431.65
70-80	349.64
80-90	150.34
90-100	119.36
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

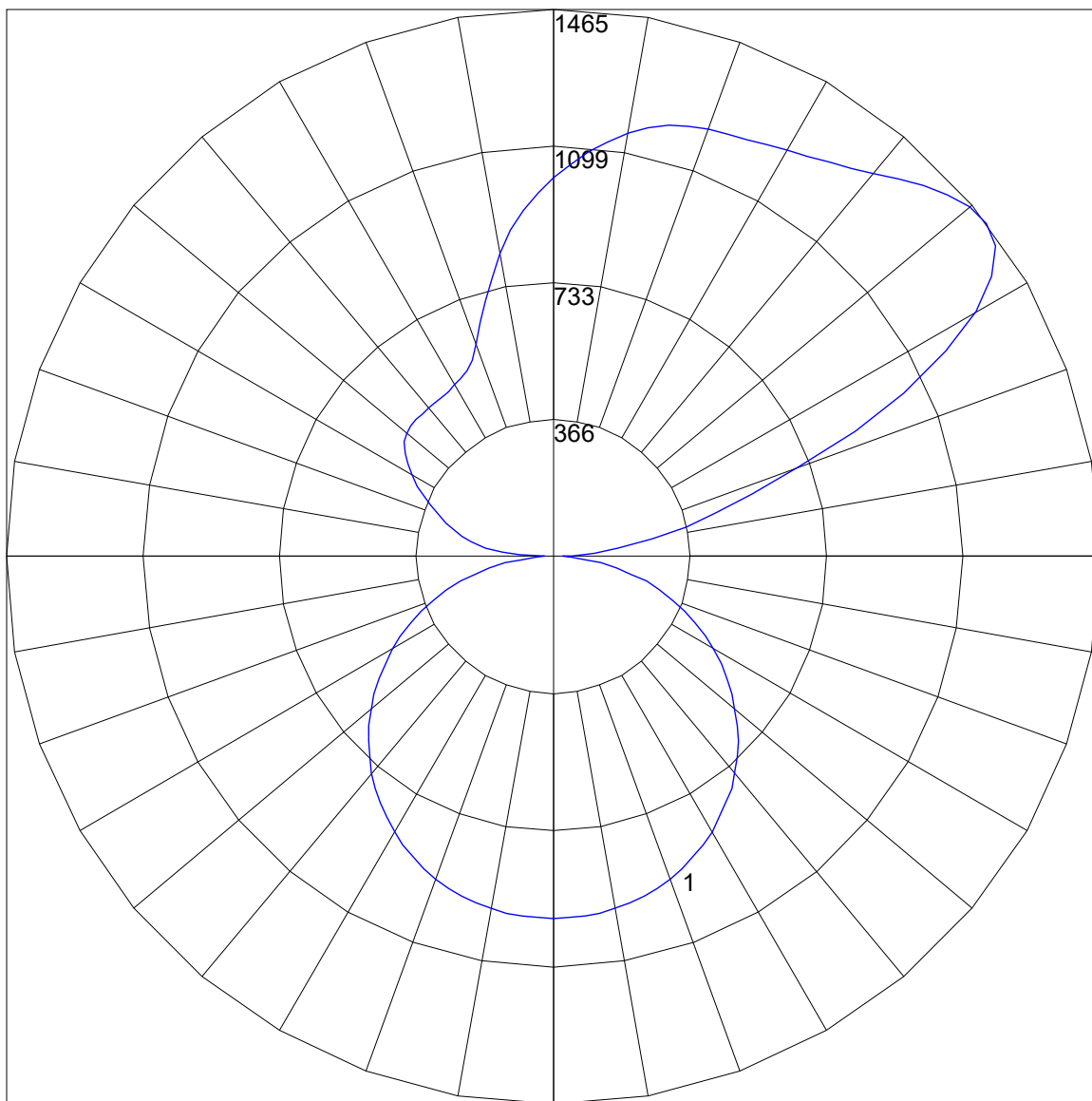
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-H-835-ASY-ITL89988-ITL90233.203.IES

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	96	91	87	83	88	84	80	77	70	68	65	58	56	54	46	45	43	38
2	87	79	72	67	80	73	67	62	61	57	53	50	47	44	40	37	36	31
3	79	69	61	55	72	63	57	51	53	48	44	44	40	37	35	32	30	25
4	72	61	52	46	66	56	49	43	47	41	37	39	34	31	31	28	25	21
5	66	54	45	39	60	50	42	37	42	36	32	34	30	27	28	24	22	18
6	61	48	40	34	55	44	37	32	37	32	27	31	26	23	25	21	19	16
7	56	43	35	29	51	40	33	28	34	28	24	28	24	20	23	19	17	14
8	52	39	31	26	47	36	29	24	31	25	21	26	21	18	21	17	15	12
9	48	36	28	23	44	33	26	22	28	23	19	24	19	16	19	16	13	11
10	45	33	25	21	41	30	24	19	26	21	17	22	17	14	18	14	12	10

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.)