

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-B-S-835-ASY-ITL89988-ITL90233.210.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.210 Family Correlation file

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/16/17

[ISSUEDATE]03/26/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.7 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]3944

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3944
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	31.9
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	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	497.409	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	34.478	34.992	29.846	31.390	11.321	29.846	46.828	56.090	59.693
95.0	73.072	74.616	75.130	76.674	29.332	47.343	72.558	85.937	90.054
97.5	115.269	122.987	139.969	116.298	47.857	62.780	95.714	115.269	120.929
100.0	178.563	188.855	204.808	154.378	66.897	79.762	114.754	138.940	147.173
102.5	241.344	253.179	267.588	191.943	86.966	96.743	135.338	156.951	165.184
105.0	299.493	322.649	332.941	228.993	106.520	112.696	151.290	177.020	182.680
107.5	368.962	408.586	401.382	262.957	127.104	127.104	166.728	194.516	199.662
110.0	464.677	503.786	466.735	291.774	147.688	141.513	182.680	212.526	217.672
112.5	580.974	597.956	531.059	316.989	168.786	155.407	198.632	230.023	236.198
115.0	686.980	690.068	583.547	340.145	189.884	169.815	213.041	247.004	253.694
117.5	786.297	770.859	620.598	360.214	210.983	184.738	226.421	263.986	271.190
120.0	866.058	831.066	643.240	379.254	234.139	200.691	238.256	278.909	288.171
122.5	923.693	870.690	656.105	398.809	257.811	216.129	249.577	293.832	304.639
125.0	957.656	889.215	662.794	417.334	280.453	231.052	259.354	305.153	319.047
127.5	969.491	891.788	666.911	435.345	303.609	246.490	268.617	314.416	331.912
130.0	964.345	884.069	669.999	454.385	326.251	261.413	277.365	320.076	339.631
132.5	948.393	871.204	673.601	473.939	349.408	276.336	286.628	324.193	342.204

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-ASY-ITL89988-ITL90233.210.IES****CANDELA TABULATION - (Cont.)**

135.0	927.809	856.281	678.232	493.494	372.565	293.832	295.376	327.281	343.233
137.5	906.711	841.872	683.893	514.077	396.236	312.872	304.639	330.368	343.233
140.0	885.613	828.493	690.068	534.661	420.422	333.456	313.387	332.941	343.233
142.5	867.087	818.716	696.758	555.245	444.093	355.068	322.135	335.514	343.233
145.0	852.679	810.482	703.447	575.314	467.764	376.167	331.397	339.116	343.748
147.5	840.329	804.307	711.681	594.868	491.435	397.780	342.718	344.262	346.320
150.0	830.552	799.676	720.429	613.394	515.107	420.936	357.127	349.923	350.437
152.5	821.803	795.559	729.177	630.375	536.720	445.637	377.711	357.127	355.068
155.0	813.570	792.986	736.896	645.298	557.818	471.881	402.925	367.933	363.302
157.5	808.939	791.957	742.556	658.678	577.887	498.640	430.199	386.459	376.681
160.0	805.337	790.928	746.158	669.999	596.412	524.369	457.987	415.276	401.382
162.5	798.647	787.326	746.673	678.747	613.394	549.584	486.804	447.695	434.316
165.0	790.928	779.607	744.100	685.437	627.802	572.741	519.223	480.114	468.279
167.5	778.063	768.801	737.410	689.039	640.153	593.839	550.099	515.107	503.271
170.0	761.596	754.392	728.662	690.582	650.959	613.394	579.431	554.216	544.953
172.5	741.013	736.381	716.312	689.039	658.678	630.375	606.189	588.693	582.518
175.0	720.943	716.312	702.933	685.437	665.367	645.813	630.375	619.569	615.452
177.5	695.214	693.155	686.466	678.232	668.455	658.678	650.959	645.298	643.240
180.0	669.999	669.999	669.999	669.999	669.999	669.999	669.999	669.999	669.999

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-ASY-ITL89988-ITL90233.210.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	183.51	N.A.	4.70
0-30	389.66	N.A.	9.90
0-40	642.29	N.A.	16.30
0-60	1169.95	N.A.	29.70
0-80	1581.16	N.A.	40.10
0-90	1660.29	N.A.	42.10
10-90	1612.48	N.A.	40.90
20-40	458.79	N.A.	11.60
20-50	728.95	N.A.	18.50
40-70	754.84	N.A.	19.10
60-80	411.21	N.A.	10.40
70-80	184.03	N.A.	4.70
80-90	79.13	N.A.	2.00
90-110	300.33	N.A.	7.60
90-120	656.59	N.A.	16.60
90-130	1066.35	N.A.	27.00
90-150	1778.88	N.A.	45.10
90-180	2283.32	N.A.	57.90
110-180	1982.99	N.A.	50.30
0-180	3943.61	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	78.16
100-110	222.17
110-120	356.26
120-130	409.76
130-140	382.55
140-150	329.99
150-160	263.81
160-170	177.43
170-180	63.19

IES INDOOR REPORT

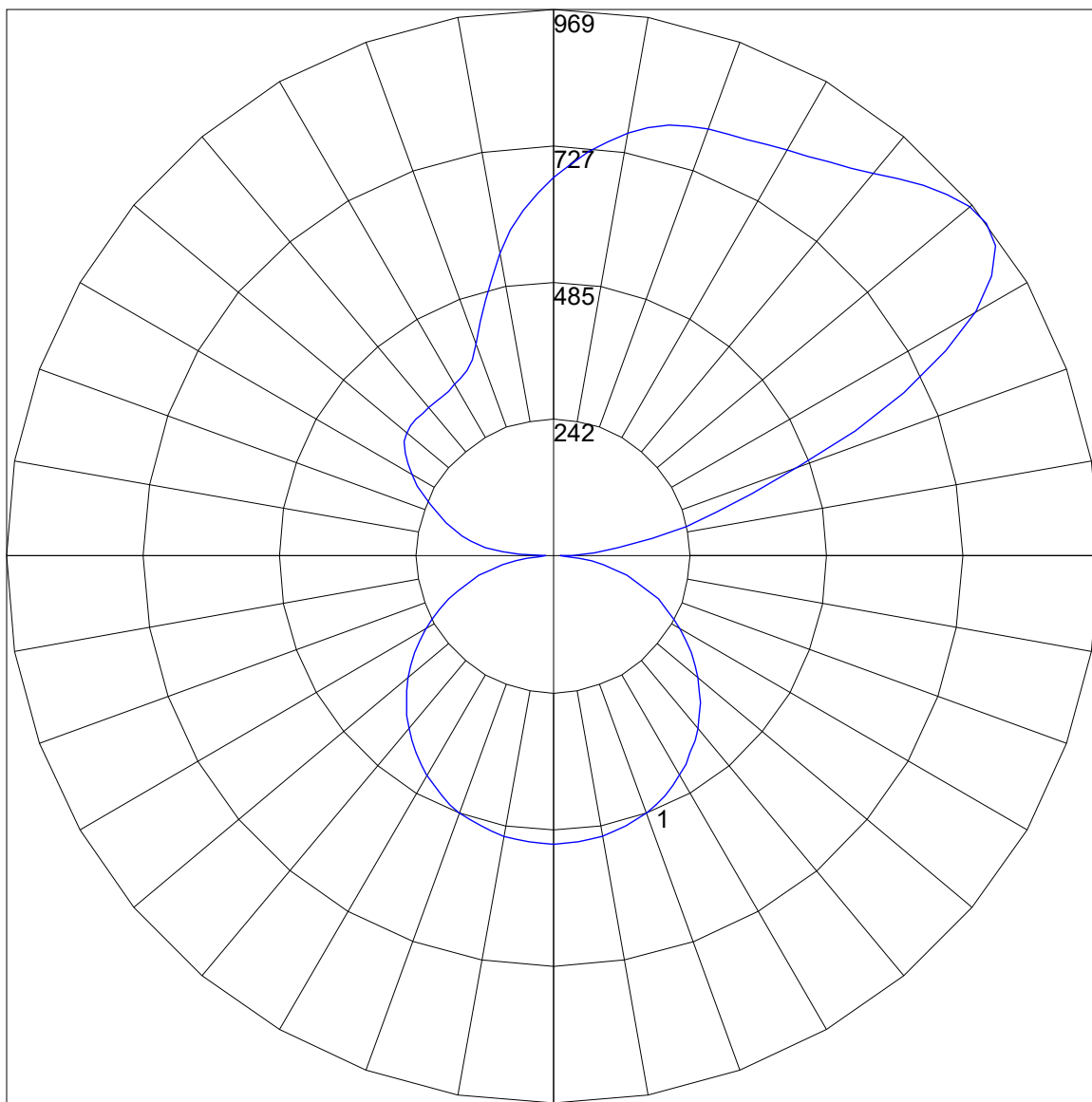
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-ASY-ITL89988-ITL90233.210.IES

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	95	90	86	82	86	82	79	76	68	65	63	54	52	51	42	40	39	33
2	86	78	72	66	78	71	66	61	59	55	51	47	44	41	36	34	32	27
3	78	68	61	55	71	62	56	50	51	46	42	41	37	34	31	29	27	22
4	71	60	52	46	65	55	48	42	45	40	36	36	32	29	28	25	23	19
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20	16
6	60	48	39	33	54	44	36	31	36	31	26	29	25	22	22	19	17	14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13	11
9	48	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 969.491 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)