

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-V-835-ASY-ITL89988-ITL90233.212.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.212 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-V-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 55.9 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

[_ABSOLUTELUMENS]6343

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	53.8
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
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	10608	10008	9937
55	10640	10190	10103
65	10677	10736	11918
75	10680	14250	16309
85	10794	18627	7164

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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	1246.000	1246.000	1246.000	1246.000	1246.000	1246.000	1246.000	1246.000	1246.000
2.5	1245.000	1244.000	1240.000	1237.000	1237.000	1237.000	1240.000	1244.000	1245.000
5.0	1243.000	1237.000	1230.000	1226.000	1223.000	1225.000	1230.000	1237.000	1243.000
7.5	1238.000	1228.000	1218.000	1211.000	1210.000	1210.000	1218.000	1228.000	1238.000
10.0	1231.000	1216.000	1203.000	1196.000	1193.000	1195.000	1203.000	1215.000	1231.000
12.5	1222.000	1200.000	1187.000	1179.000	1174.000	1178.000	1187.000	1199.000	1222.000
15.0	1211.000	1184.000	1170.000	1161.000	1156.000	1160.000	1170.000	1182.000	1211.000
17.5	1198.000	1165.000	1150.000	1141.000	1136.000	1141.000	1150.000	1163.000	1198.000
20.0	1183.000	1146.000	1130.000	1121.000	1116.000	1120.000	1130.000	1143.000	1183.000
22.5	1164.000	1124.000	1108.000	1100.000	1095.000	1099.000	1108.000	1121.000	1164.000
25.0	1143.000	1099.000	1084.000	1077.000	1073.000	1076.000	1084.000	1096.000	1143.000
27.5	1120.000	1074.000	1060.000	1053.000	1049.000	1052.000	1060.000	1071.000	1120.000
30.0	1095.000	1048.000	1033.000	1028.000	1025.000	1027.000	1033.000	1044.000	1095.000
32.5	1067.000	1019.000	1006.000	1001.000	998.000	1000.000	1006.000	1015.000	1067.000
35.0	1038.000	989.000	977.000	973.000	971.000	973.000	977.000	985.000	1038.000
37.5	1009.000	958.000	948.000	945.000	943.000	945.000	948.000	954.000	1009.000
40.0	974.000	925.000	916.000	914.000	913.000	914.000	916.000	921.000	974.000
42.5	938.000	890.000	883.000	882.000	878.000	882.000	883.000	886.000	938.000
45.0	901.000	854.000	850.000	848.000	844.000	848.000	850.000	850.000	901.000
47.5	861.000	816.000	815.000	811.000	806.000	810.000	815.000	812.000	861.000
50.0	819.000	779.000	779.000	773.000	766.000	773.000	779.000	774.000	819.000
52.5	777.000	739.000	742.000	733.000	725.000	733.000	742.000	735.000	777.000
55.0	733.000	699.000	702.000	691.000	696.000	690.000	702.000	695.000	733.000
57.5	686.000	658.000	660.000	663.000	671.000	662.000	660.000	654.000	686.000
60.0	639.000	615.000	617.000	637.000	649.000	637.000	617.000	612.000	639.000
62.5	593.000	573.000	575.000	612.000	627.000	614.000	575.000	570.000	593.000
65.0	542.000	529.000	545.000	589.000	605.000	591.000	545.000	526.000	542.000
67.5	492.000	486.000	517.000	566.000	585.000	569.000	517.000	482.000	492.000
70.0	440.000	443.000	492.000	545.000	563.000	548.000	492.000	438.000	440.000
72.5	386.000	397.000	468.000	522.000	538.000	525.000	468.000	391.000	386.000
75.0	332.000	356.000	443.000	494.000	507.000	498.000	443.000	350.000	332.000
77.5	277.000	324.000	415.000	458.000	464.000	461.000	415.000	319.000	277.000
80.0	222.000	293.000	379.000	401.000	396.000	404.000	379.000	291.000	222.000
82.5	167.000	260.000	321.000	303.000	274.000	304.000	321.000	263.000	167.000
85.0	113.000	214.000	195.000	116.000	75.000	112.000	195.000	225.000	113.000
87.5	63.000	110.000	78.000	62.000	48.000	61.000	78.000	117.000	63.000
90.0	32.000	70.000	65.000	52.000	40.000	51.000	65.000	74.000	32.000
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-V-835-ASY-ITL89988-ITL90233.212.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-V-835-ASY-ITL89988-ITL90233.212.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	448.25	N.A.	7.10
0-30	951.79	N.A.	15.00
0-40	1568.91	N.A.	24.70
0-60	2857.78	N.A.	45.10
0-80	3862.24	N.A.	60.90
0-90	4055.52	N.A.	63.90
10-90	3938.75	N.A.	62.10
20-40	1120.66	N.A.	17.70
20-50	1780.57	N.A.	28.10
40-70	1843.82	N.A.	29.10
60-80	1004.45	N.A.	15.80
70-80	449.51	N.A.	7.10
80-90	193.29	N.A.	3.00
90-110	304.87	N.A.	4.80
90-120	661.13	N.A.	10.40
90-130	1070.89	N.A.	16.90
90-150	1783.43	N.A.	28.10
90-180	2287.86	N.A.	36.10
110-180	1982.99	N.A.	31.30
0-180	6343.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.77
10-20	331.48
20-30	503.54
30-40	617.11
40-50	659.92
50-60	628.96
60-70	554.94
70-80	449.51
80-90	193.29
90-100	82.70
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

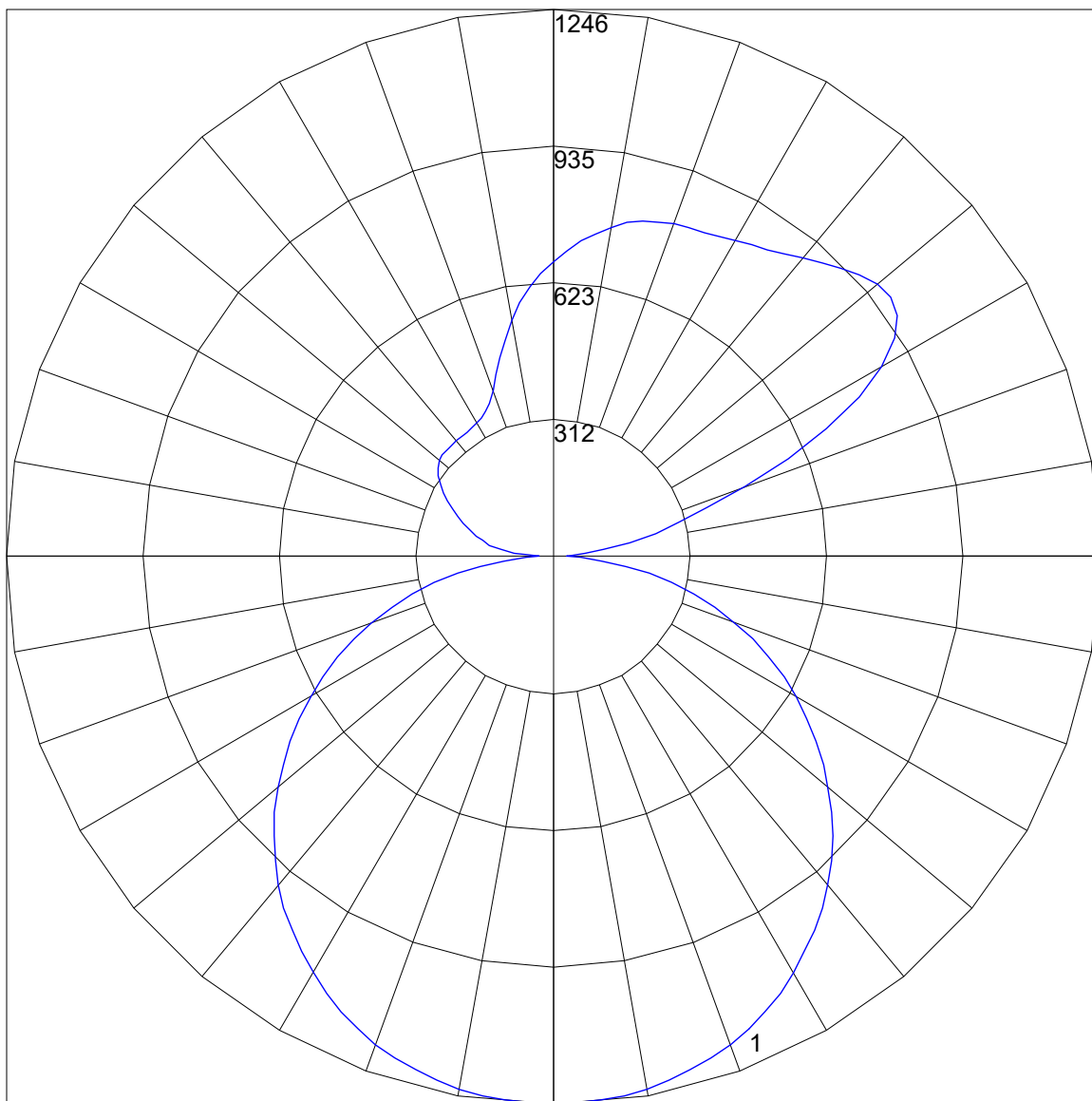
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-V-835-ASY-ITL89988-ITL90233.212.IES

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	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	99	94	90	86	93	89	85	81	78	75	72	68	65	63	59	57	55	51
2	90	81	74	69	84	76	70	65	67	62	58	58	55	51	50	48	45	41
3	81	71	63	56	76	67	59	53	59	53	48	51	47	43	44	41	38	34
4	74	62	54	47	69	59	51	45	52	45	40	45	40	36	39	35	32	29
5	68	55	47	40	63	52	44	38	46	40	35	40	35	31	35	31	27	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	32	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	28	24	29	24	21	19
8	54	41	32	27	50	38	31	26	34	28	23	30	25	21	26	22	19	17
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	24	20	17	15
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	18	15	13

POLAR GRAPH



Maximum Candela = 1246 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)