

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-V-835-ASY-ITL89988-ITL90233.209.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.209 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-V-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 63.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 65.1 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]7510

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7510
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	63.4
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	10608	10008	9937
55	10640	10190	10103
65	10677	10736	11918
75	10680	14250	16309
85	10794	18627	7164

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-ASY-ITL89988-ITL90233.209.IES

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	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-V-835-ASY-ITL89988-ITL90233.209.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-V-835-ASY-ITL89988-ITL90233.209.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	448.25	N.A.	6.00
0-30	951.79	N.A.	12.70
0-40	1568.91	N.A.	20.90
0-60	2857.78	N.A.	38.10
0-80	3862.24	N.A.	51.40
0-90	4055.52	N.A.	54.00
10-90	3938.75	N.A.	52.40
20-40	1120.66	N.A.	14.90
20-50	1780.57	N.A.	23.70
40-70	1843.82	N.A.	24.60
60-80	1004.45	N.A.	13.40
70-80	449.51	N.A.	6.00
80-90	193.29	N.A.	2.60
90-110	456.89	N.A.	6.10
90-120	995.39	N.A.	13.30
90-130	1614.77	N.A.	21.50
90-150	2691.8	N.A.	35.80
90-180	3454.27	N.A.	46.00
110-180	2997.38	N.A.	39.90
0-180	7509.79	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	121.07
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

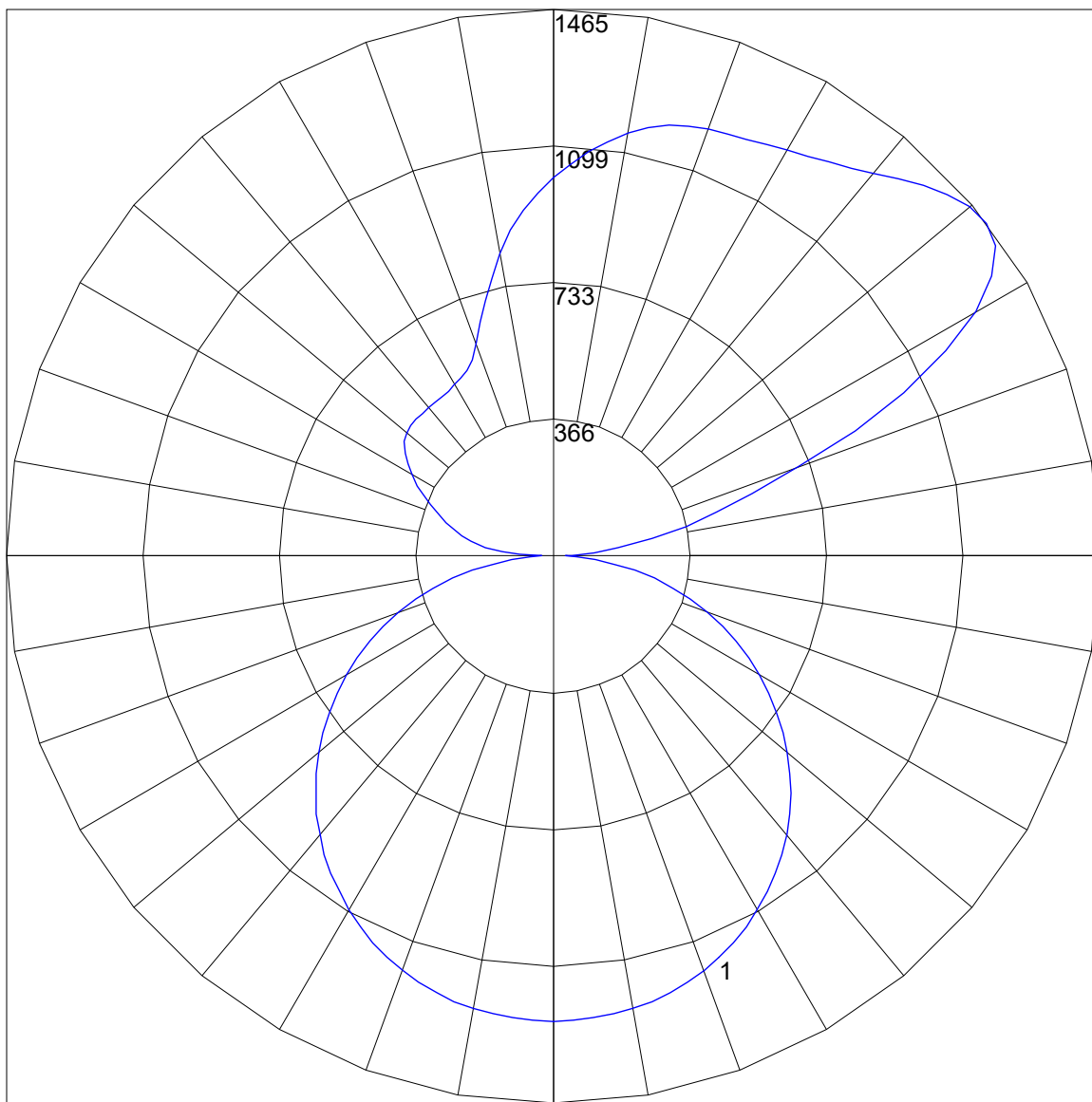
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-ASY-ITL89988-ITL90233.209.IES

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	97	93	88	84	90	86	82	79	73	70	68	62	60	58	51	49	48	43
2	88	80	73	68	81	74	68	63	63	59	55	53	50	47	44	41	39	35
3	80	70	62	55	74	65	58	52	55	50	45	46	42	39	38	35	33	29
4	73	61	53	46	67	57	49	44	49	43	38	41	37	33	34	31	28	24
5	67	54	46	40	61	51	43	37	43	37	33	37	32	28	30	27	24	21
6	61	49	40	34	57	45	38	32	39	33	28	33	28	25	27	24	21	18
7	57	44	36	30	52	41	33	28	35	29	25	30	25	22	25	21	18	16
8	53	40	32	26	49	37	30	25	32	26	22	27	23	19	23	19	16	14
9	49	36	29	23	45	34	27	22	29	24	20	25	20	17	21	17	15	13
10	46	33	26	21	42	31	24	20	27	21	18	23	19	15	20	16	13	11

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.)