

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-B-835-ASY-ITL89988-ITL90233.208.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.208 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-B-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 45.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 47.5 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]5537

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	45.4
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	5459	5150	5114
55	5475	5244	5199
65	5494	5525	6133
75	5496	7333	8392
85	5555	9585	3687

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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	641.182	641.182	641.182	641.182	641.182	641.182	641.182	641.182	641.182
2.5	640.667	640.153	638.094	636.550	636.550	636.550	638.094	640.153	640.667
5.0	639.638	636.550	632.948	630.890	629.346	630.375	632.948	636.550	639.638
7.5	637.065	631.919	626.773	623.171	622.656	622.656	626.773	631.919	637.065
10.0	633.463	625.744	619.054	615.452	613.908	614.937	619.054	625.229	633.463
12.5	628.831	617.510	610.821	606.704	604.131	606.189	610.821	616.996	628.831
15.0	623.171	609.277	602.073	597.441	594.868	596.927	602.073	608.248	623.171
17.5	616.481	599.500	591.781	587.149	584.577	587.149	591.781	598.471	616.481
20.0	608.762	589.722	581.489	576.858	574.285	576.343	581.489	588.179	608.762
22.5	598.985	578.401	570.168	566.051	563.478	565.537	570.168	576.858	598.985
25.0	588.179	565.537	557.818	554.216	552.157	553.701	557.818	563.993	588.179
27.5	576.343	552.672	545.467	541.865	539.807	541.351	545.467	551.128	576.343
30.0	563.478	539.292	531.573	529.000	527.457	528.486	531.573	537.234	563.478
32.5	549.070	524.369	517.680	515.107	513.563	514.592	517.680	522.311	549.070
35.0	534.146	508.932	502.756	500.698	499.669	500.698	502.756	506.873	534.146
37.5	519.223	492.979	487.833	486.289	485.260	486.289	487.833	490.921	519.223
40.0	501.213	475.998	471.366	470.337	469.822	470.337	471.366	473.939	501.213
42.5	482.687	457.987	454.385	453.870	451.812	453.870	454.385	455.928	482.687
45.0	463.647	439.462	437.403	436.374	434.316	436.374	437.403	437.403	463.647
47.5	443.064	419.907	419.392	417.334	414.761	416.820	419.392	417.849	443.064
50.0	421.451	400.867	400.867	397.780	394.178	397.780	400.867	398.294	421.451
52.5	399.838	380.284	381.827	377.196	373.079	377.196	381.827	378.225	399.838
55.0	377.196	359.700	361.244	355.583	358.156	355.068	361.244	357.641	377.196
57.5	353.010	338.601	339.631	341.175	345.291	340.660	339.631	336.543	353.010
60.0	328.824	316.474	317.503	327.795	333.970	327.795	317.503	314.930	328.824
62.5	305.153	294.861	295.890	314.930	322.649	315.959	295.890	293.317	305.153
65.0	278.909	272.219	280.453	303.095	311.328	304.124	280.453	270.675	278.909
67.5	253.179	250.092	266.044	291.259	301.036	292.803	266.044	248.033	253.179
70.0	226.421	227.964	253.179	280.453	289.715	281.996	253.179	225.391	226.421
72.5	198.632	204.293	240.829	268.617	276.851	270.161	240.829	201.206	198.632
75.0	170.845	183.195	227.964	254.208	260.898	256.267	227.964	180.107	170.845
77.5	142.542	166.728	213.556	235.683	238.771	237.227	213.556	164.155	142.542
80.0	114.239	150.775	195.030	206.351	203.778	207.895	195.030	149.746	114.239
82.5	85.937	133.794	165.184	155.921	140.998	156.436	165.184	135.338	85.937
85.0	58.149	110.123	100.345	59.693	38.594	57.634	100.345	115.783	58.149
87.5	32.419	56.605	40.138	31.905	24.700	31.390	40.138	60.207	32.419
90.0	16.467	36.021	33.449	26.759	20.584	26.244	33.449	38.080	16.467
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-B-835-ASY-ITL89988-ITL90233.208.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-B-835-ASY-ITL89988-ITL90233.208.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	230.67	N.A.	4.20
0-30	489.79	N.A.	8.80
0-40	807.35	N.A.	14.60
0-60	1470.59	N.A.	26.60
0-80	1987.48	N.A.	35.90
0-90	2086.94	N.A.	37.70
10-90	2026.85	N.A.	36.60
20-40	576.68	N.A.	10.40
20-50	916.27	N.A.	16.50
40-70	948.81	N.A.	17.10
60-80	516.88	N.A.	9.30
70-80	231.32	N.A.	4.20
80-90	99.46	N.A.	1.80
90-110	453.16	N.A.	8.20
90-120	991.66	N.A.	17.90
90-130	1611.04	N.A.	29.10
90-150	2688.06	N.A.	48.50
90-180	3450.54	N.A.	62.30
110-180	2997.38	N.A.	54.10
0-180	5537.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.09
10-20	170.58
20-30	259.12
30-40	317.56
40-50	339.59
50-60	323.66
60-70	285.57
70-80	231.32
80-90	99.46
90-100	117.34
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

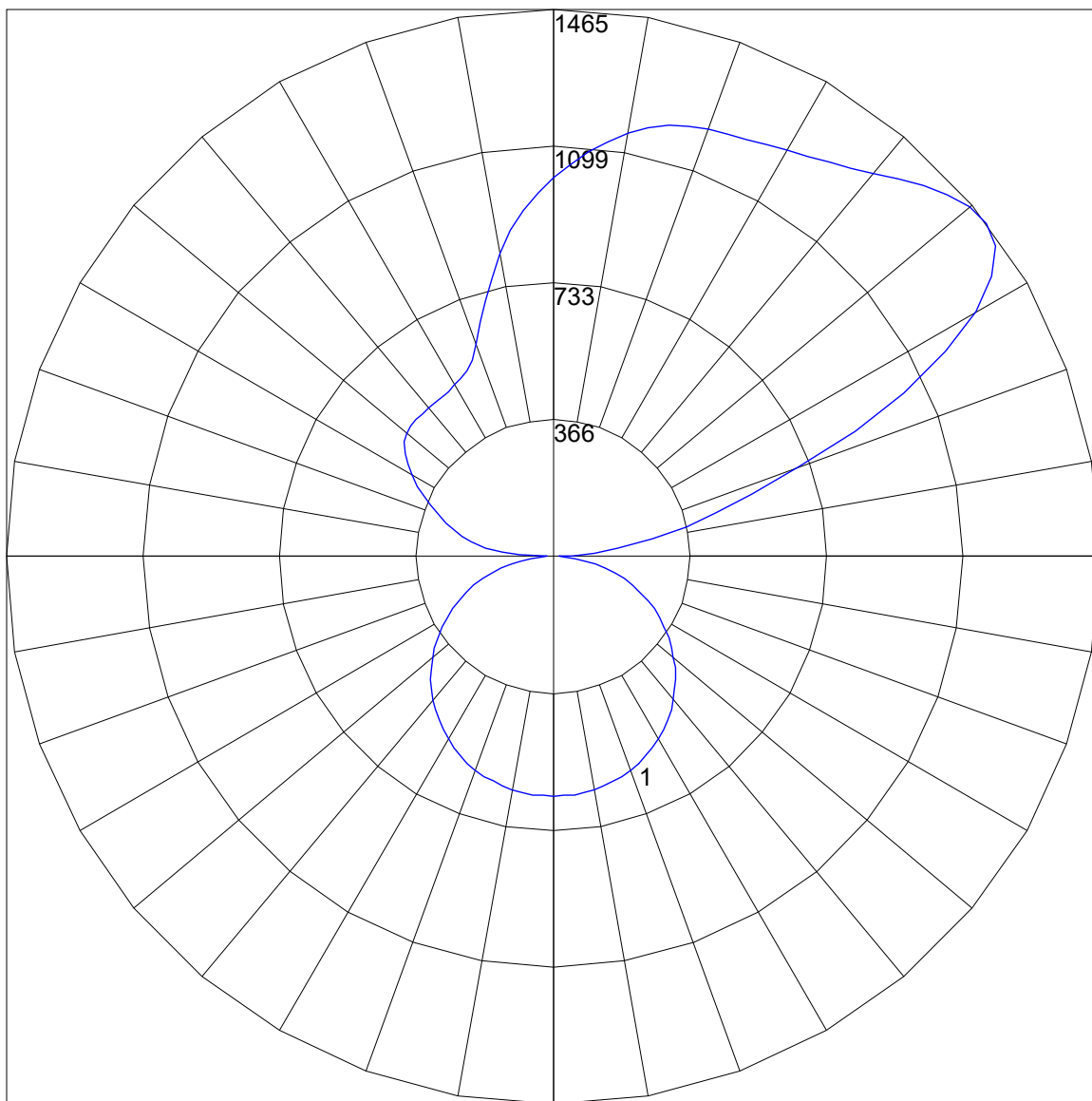
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-B-835-ASY-ITL89988-ITL90233.208.IES

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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	94	90	85	82	85	81	78	75	66	63	61	51	50	48	38	37	36	30
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	30	24
3	77	68	60	54	70	62	55	50	50	45	41	39	36	33	29	27	25	20
4	71	60	52	45	64	54	47	42	44	39	35	34	31	28	26	23	21	17
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	14
6	59	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12	10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	15	12	10	8

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.)