

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-S-S-835-ASY-ITL89988-ITL90233.201.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.201 Family Correlation file

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/16/17

[ISSUEDATE]03/26/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 31.0 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]3477

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	28.1
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	4343	4097	4068
55	4356	4172	4136
65	4371	4395	4879
75	4372	5834	6677
85	4419	7626	2933

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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	510.100	510.100	510.100	510.100	510.100	510.100	510.100	510.100	510.100
2.5	509.691	509.282	507.644	506.416	506.416	506.416	507.644	509.282	509.691
5.0	508.872	506.416	503.550	501.913	500.684	501.503	503.550	506.416	508.872
7.5	506.825	502.731	498.637	495.772	495.362	495.362	498.637	502.731	506.825
10.0	503.960	497.819	492.497	489.631	488.403	489.222	492.497	497.819	503.960
12.5	500.275	491.268	485.946	482.671	480.624	482.262	485.946	490.859	500.275
15.0	495.772	484.718	478.987	475.302	473.255	474.893	478.987	483.899	495.772
17.5	490.450	476.940	470.799	467.114	465.067	467.114	470.799	476.121	490.450
20.0	484.309	469.161	462.611	458.927	456.880	458.517	462.611	467.933	484.309
22.5	476.530	460.155	453.605	450.329	448.282	449.920	453.605	458.927	476.530
25.0	467.933	449.920	443.779	440.913	439.276	440.504	443.779	448.692	467.933
27.5	458.517	439.685	433.954	431.088	429.451	430.679	433.954	438.457	458.517
30.0	448.282	429.041	422.900	420.853	419.625	420.444	422.900	427.404	448.282
32.5	436.820	417.169	411.847	409.800	408.572	409.390	411.847	415.531	436.820
35.0	424.947	404.887	399.974	398.337	397.518	398.337	399.974	403.250	424.947
37.5	413.075	392.196	388.102	386.874	386.055	386.874	388.102	390.558	413.075
40.0	398.746	378.686	375.002	374.183	373.773	374.183	375.002	377.049	398.746
42.5	384.008	364.357	361.492	361.082	359.445	361.082	361.492	362.720	384.008
45.0	368.861	349.619	347.982	347.163	345.525	347.163	347.982	347.982	368.861
47.5	352.485	334.063	333.653	332.016	329.969	331.606	333.653	332.425	352.485
50.0	335.291	318.915	318.915	316.459	313.593	316.459	318.915	316.868	335.291
52.5	318.096	302.539	303.768	300.083	296.808	300.083	303.768	300.902	318.096
55.0	300.083	286.164	287.392	282.889	284.936	282.479	287.392	284.526	300.083
57.5	280.842	269.379	270.198	271.426	274.701	271.016	270.198	267.741	280.842
60.0	261.600	251.775	252.594	260.782	265.694	260.782	252.594	250.547	261.600
62.5	242.769	234.581	235.399	250.547	256.688	251.366	235.399	233.353	242.769
65.0	221.890	216.568	223.118	241.131	247.681	241.950	223.118	215.339	221.890
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	158.025	162.528	191.595	213.702	220.252	214.930	191.595	160.072	158.025
75.0	135.918	145.743	181.360	202.239	207.561	203.876	181.360	143.287	135.918
77.5	113.401	132.642	169.897	187.501	189.957	188.729	169.897	130.596	113.401
80.0	90.885	119.951	155.159	164.166	162.119	165.394	155.159	119.133	90.885
82.5	68.368	106.442	131.414	124.045	112.173	124.455	131.414	107.670	68.368
85.0	46.261	87.610	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	13.100	28.657	26.610	21.288	16.376	20.879	26.610	30.295	13.100
92.5	27.429	27.839	23.745	24.973	9.007	23.745	37.255	44.624	47.489
95.0	58.133	59.362	59.771	60.999	23.335	37.664	57.724	68.368	71.643
97.5	91.703	97.844	111.354	92.522	38.073	49.946	76.147	91.703	96.207
100.0	142.058	150.246	162.937	122.817	53.221	63.456	91.294	110.535	117.086
102.5	192.004	201.420	212.883	152.703	69.187	76.965	107.670	124.864	131.414
105.0	238.265	256.688	264.876	182.179	84.744	89.656	120.361	140.830	145.334
107.5	293.533	325.056	319.325	209.198	101.119	101.119	132.642	154.750	158.843
110.0	369.680	400.793	371.317	232.124	117.495	112.582	145.334	169.078	173.172
112.5	462.202	475.712	422.491	252.184	134.280	123.636	158.025	182.998	187.910
115.0	546.536	548.993	464.249	270.607	151.065	135.099	169.488	196.507	201.829
117.5	625.549	613.267	493.725	286.573	167.850	146.971	180.132	210.017	215.749
120.0	689.004	661.165	511.738	301.721	186.273	159.662	189.548	221.890	229.259
122.5	734.856	692.689	521.973	317.278	205.105	171.944	198.554	233.762	242.359
125.0	761.876	707.427	527.295	332.016	223.118	183.816	206.333	242.769	253.822
127.5	771.291	709.474	530.570	346.344	241.540	196.098	213.702	250.138	264.057
130.0	767.198	703.333	533.026	361.492	259.554	207.970	220.661	254.641	270.198
132.5	754.506	693.098	535.892	377.049	277.976	219.843	228.030	257.916	272.245

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-S-835-ASY-ITL89988-ITL90233.201.IES****CANDELA TABULATION - (Cont.)**

135.0	738.131	681.226	539.577	392.605	296.399	233.762	234.990	260.372	273.063
137.5	721.346	669.763	544.080	408.981	315.231	248.909	242.359	262.829	273.063
140.0	704.561	659.119	548.993	425.357	334.472	265.285	249.319	264.876	273.063
142.5	689.823	651.340	554.315	441.732	353.304	282.479	256.278	266.923	273.063
145.0	678.360	644.790	559.637	457.698	372.136	299.264	263.647	269.788	273.473
147.5	668.535	639.877	566.187	473.255	390.968	316.459	272.654	273.882	275.520
150.0	660.756	636.193	573.147	487.993	409.800	334.881	284.117	278.385	278.795
152.5	653.796	632.918	580.106	501.503	426.994	354.532	300.493	284.117	282.479
155.0	647.246	630.871	586.247	513.376	443.779	375.411	320.553	292.714	289.030
157.5	643.562	630.052	590.750	524.020	459.745	396.699	342.250	307.452	299.674
160.0	640.696	629.233	593.616	533.026	474.483	417.169	364.357	330.378	319.325
162.5	635.374	626.367	594.025	539.986	487.993	437.229	387.283	356.170	345.525
165.0	629.233	620.226	591.979	545.308	499.456	455.652	413.075	381.961	372.545
167.5	618.998	611.629	586.656	548.174	509.282	472.437	437.638	409.800	400.384
170.0	605.898	600.166	579.697	549.402	517.879	487.993	460.974	440.913	433.544
172.5	589.522	585.838	569.871	548.174	524.020	501.503	482.262	468.343	463.430
175.0	573.556	569.871	559.227	545.308	529.342	513.785	501.503	492.906	489.631
177.5	553.086	551.449	546.127	539.577	531.798	524.020	517.879	513.376	511.738
180.0	533.026	533.026	533.026	533.026	533.026	533.026	533.026	533.026	533.026

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-S-835-ASY-ITL89988-ITL90233.201.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	183.51	N.A.	5.30
0-30	389.66	N.A.	11.20
0-40	642.30	N.A.	18.50
0-60	1169.95	N.A.	33.60
0-80	1581.16	N.A.	45.50
0-90	1660.29	N.A.	47.70
10-90	1612.49	N.A.	46.40
20-40	458.79	N.A.	13.20
20-50	728.95	N.A.	21.00
40-70	754.84	N.A.	21.70
60-80	411.21	N.A.	11.80
70-80	184.03	N.A.	5.30
80-90	79.13	N.A.	2.30
90-110	239.57	N.A.	6.90
90-120	523.00	N.A.	15.00
90-130	848.99	N.A.	24.40
90-150	1415.86	N.A.	40.70
90-180	1817.17	N.A.	52.30
110-180	1577.59	N.A.	45.40
0-180	3477.46	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	62.82
100-110	176.75
110-120	283.43
120-130	325.99
130-140	304.34
140-150	262.52
150-160	209.88
160-170	141.16
170-180	50.27

IES INDOOR REPORT

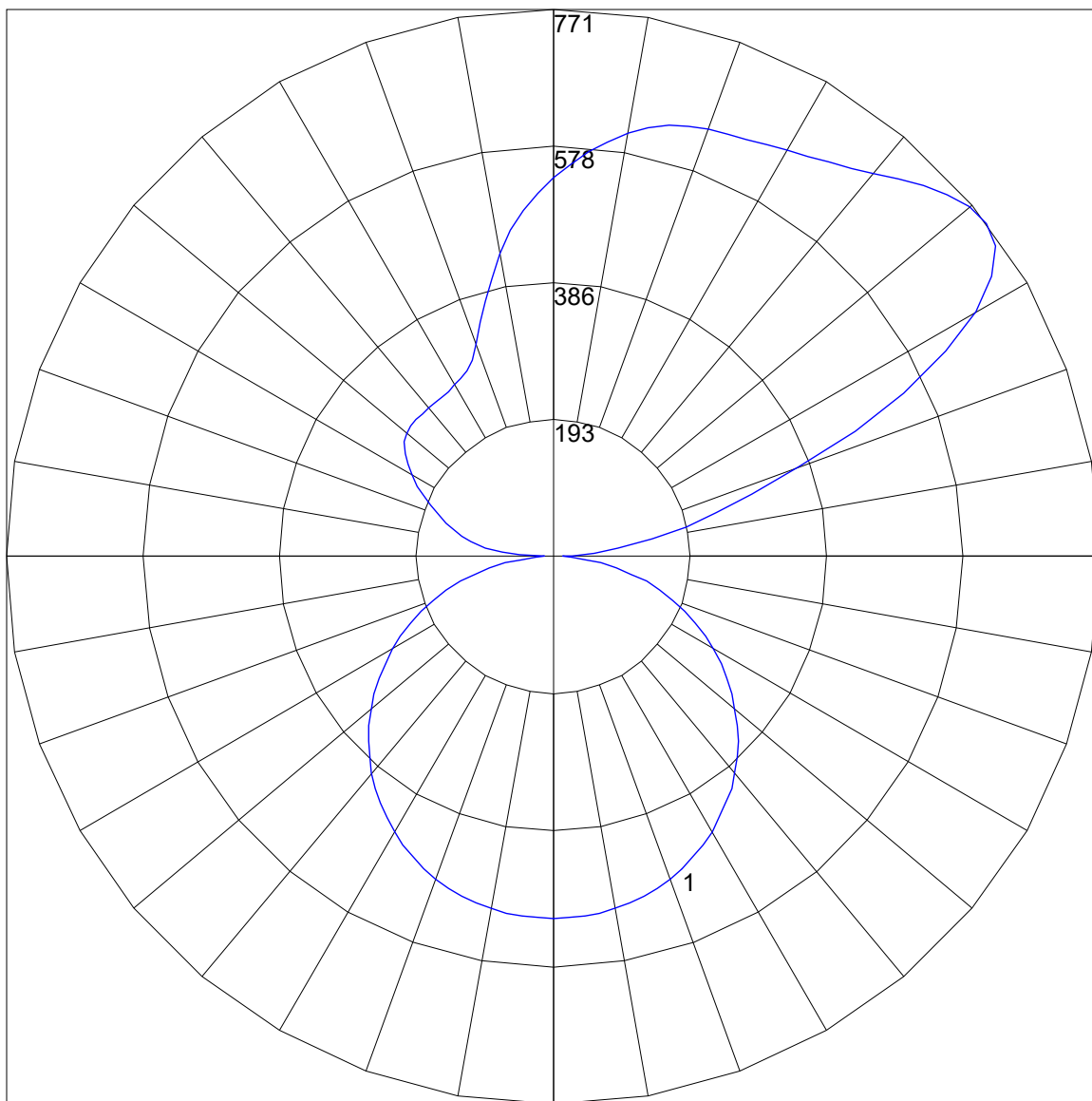
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-S-835-ASY-ITL89988-ITL90233.201.IES

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	48	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 = 771.291 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)