

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-B-835-ASY-ITL89988-ITL90233.213.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.213 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-B-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]3905

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3905
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	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	27.429	27.838	23.745	24.973	9.007	23.745	37.255	44.623	47.489
95.0	58.133	59.361	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	63.455	91.294	110.535	117.085
102.5	192.004	201.420	212.883	152.702	69.187	76.965	107.670	124.864	131.414
105.0	238.265	256.688	264.875	182.179	84.744	89.656	120.361	140.830	145.333
107.5	293.533	325.056	319.324	209.198	101.119	101.119	132.642	154.749	158.843
110.0	369.679	400.793	371.317	232.124	117.495	112.582	145.333	169.078	173.172
112.5	462.201	475.711	422.490	252.184	134.280	123.636	158.024	182.997	187.910
115.0	546.536	548.992	464.248	270.607	151.065	135.099	169.488	196.507	201.829
117.5	625.548	613.266	493.724	286.573	167.850	146.971	180.132	210.017	215.749
120.0	689.003	661.165	511.738	301.720	186.272	159.662	189.548	221.889	229.258
122.5	734.855	692.688	521.972	317.277	205.104	171.944	198.554	233.762	242.359
125.0	761.875	707.426	527.294	332.015	223.118	183.816	206.333	242.768	253.822
127.5	771.291	709.473	530.569	346.344	241.540	196.098	213.702	250.137	264.057
130.0	767.197	703.332	533.026	361.491	259.553	207.970	220.661	254.641	270.197
132.5	754.506	693.097	535.891	377.048	277.976	219.842	228.030	257.916	272.244

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-B-835-ASY-ITL89988-ITL90233.213.IES****CANDELA TABULATION - (Cont.)**

135.0	738.130	681.225	539.576	392.605	296.398	233.762	234.990	260.372	273.063
137.5	721.345	669.762	544.079	408.981	315.230	248.909	242.359	262.828	273.063
140.0	704.560	659.118	548.992	425.356	334.472	265.285	249.319	264.875	273.063
142.5	689.822	651.340	554.314	441.732	353.304	282.479	256.278	266.922	273.063
145.0	678.359	644.789	559.636	457.698	372.135	299.264	263.647	269.788	273.473
147.5	668.534	639.877	566.186	473.255	390.967	316.459	272.654	273.882	275.519
150.0	660.755	636.192	573.146	487.993	409.799	334.881	284.117	278.385	278.795
152.5	653.796	632.917	580.106	501.503	426.994	354.532	300.492	284.117	282.479
155.0	647.246	630.870	586.246	513.375	443.779	375.411	320.552	292.714	289.029
157.5	643.561	630.051	590.750	524.019	459.745	396.699	342.250	307.452	299.673
160.0	640.695	629.232	593.615	533.026	474.483	417.168	364.357	330.378	319.324
162.5	635.373	626.367	594.025	539.985	487.993	437.228	387.283	356.169	345.525
165.0	629.232	620.226	591.978	545.308	499.456	455.651	413.075	381.961	372.545
167.5	618.998	611.629	586.656	548.173	509.281	472.436	437.638	409.799	400.383
170.0	605.897	600.166	579.696	549.401	517.878	487.993	460.973	440.913	433.544
172.5	589.522	585.837	569.871	548.173	524.019	501.503	482.261	468.342	463.430
175.0	573.555	569.871	559.227	545.308	529.341	513.784	501.503	492.906	489.630
177.5	553.086	551.448	546.126	539.576	531.798	524.019	517.878	513.375	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-B-835-ASY-ITL89988-ITL90233.213.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	230.67	N.A.	5.90
0-30	489.79	N.A.	12.50
0-40	807.35	N.A.	20.70
0-60	1470.59	N.A.	37.70
0-80	1987.48	N.A.	50.90
0-90	2086.94	N.A.	53.40
10-90	2026.85	N.A.	51.90
20-40	576.68	N.A.	14.80
20-50	916.27	N.A.	23.50
40-70	948.81	N.A.	24.30
60-80	516.88	N.A.	13.20
70-80	231.32	N.A.	5.90
80-90	99.46	N.A.	2.50
90-110	240.38	N.A.	6.20
90-120	523.81	N.A.	13.40
90-130	849.80	N.A.	21.80
90-150	1416.67	N.A.	36.30
90-180	1817.97	N.A.	46.60
110-180	1577.59	N.A.	40.40
0-180	3904.91	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	63.63
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

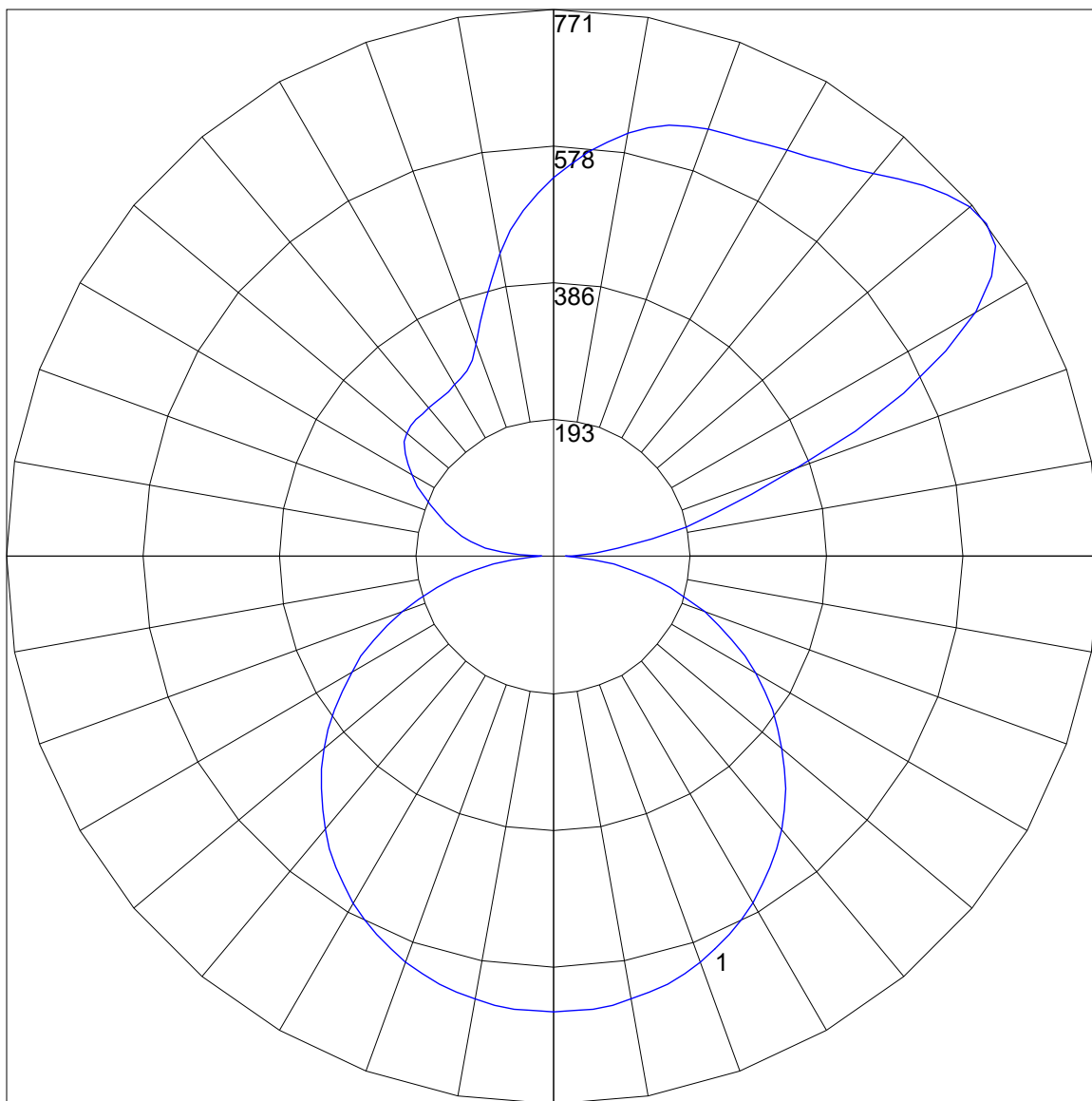
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-B-835-ASY-ITL89988-ITL90233.213.IES

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	85	85	85	72	72	72	59	59	59	53
1	97	92	88	84	90	86	82	78	73	70	68	61	59	57	50	49	48	42
2	88	80	73	67	81	74	68	63	63	59	55	53	50	47	43	41	39	34
3	80	70	62	55	73	65	58	52	55	50	45	46	42	39	38	35	32	28
4	73	61	53	46	67	57	49	44	49	43	38	41	36	33	34	30	28	24
5	67	54	46	40	61	51	43	37	43	37	33	36	32	28	30	27	24	20
6	61	49	40	34	56	45	38	32	39	33	28	33	28	24	27	24	21	18
7	57	44	36	30	52	41	33	28	35	29	25	30	25	21	25	21	18	16
8	53	40	32	26	48	37	30	25	32	26	22	27	22	19	23	19	16	14
9	49	36	28	23	45	34	27	22	29	24	19	25	20	17	21	17	15	12
10	46	33	26	21	42	31	24	20	27	21	18	23	19	15	19	16	13	11

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.)