

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-H-835-ASY-ITL89988-ITL90233.214.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.214 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-H-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.9 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]4975

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	41.6
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	8252	7784	7730
55	8276	7926	7858
65	8305	8351	9271
75	8307	11084	12686
85	8396	14489	5573

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	969.176	969.176	969.176	969.176	969.176	969.176	969.176	969.176	969.176
2.5	968.398	967.620	964.509	962.176	962.176	962.176	964.509	967.620	968.398
5.0	966.843	962.176	956.731	953.620	951.286	952.842	956.731	962.176	966.843
7.5	962.954	955.175	947.397	941.952	941.174	941.174	947.397	955.175	962.954
10.0	957.509	945.841	935.730	930.285	927.951	929.507	935.730	945.063	957.509
12.5	950.508	933.396	923.284	917.062	913.172	916.284	923.284	932.618	950.508
15.0	941.952	920.951	910.061	903.061	899.172	902.283	910.061	919.395	941.952
17.5	931.840	906.172	894.505	887.504	883.615	887.504	894.505	904.616	931.840
20.0	920.173	891.393	878.948	871.947	868.058	871.170	878.948	889.060	920.173
22.5	905.394	874.281	861.836	855.613	851.724	854.835	861.836	871.947	905.394
25.0	889.060	854.835	843.168	837.723	834.612	836.945	843.168	852.502	889.060
27.5	871.170	835.389	824.500	819.055	815.944	818.277	824.500	833.056	871.170
30.0	851.724	815.166	803.498	799.609	797.276	798.831	803.498	812.054	851.724
32.5	829.945	792.609	782.497	778.608	776.274	777.830	782.497	789.497	829.945
35.0	807.388	769.274	759.940	756.829	755.273	756.829	759.940	766.163	807.388
37.5	784.830	745.161	737.383	735.049	733.494	735.049	737.383	742.050	784.830
40.0	757.606	719.493	712.492	710.937	710.159	710.937	712.492	716.381	757.606
42.5	729.605	692.269	686.824	686.046	682.935	686.046	686.824	689.157	729.605
45.0	700.825	664.267	661.155	659.600	656.489	659.600	661.155	661.155	700.825
47.5	669.712	634.709	633.932	630.820	626.931	630.042	633.932	631.598	669.712
50.0	637.043	605.930	605.930	601.263	595.818	601.263	605.930	602.040	637.043
52.5	604.374	574.816	577.150	570.149	563.927	570.149	577.150	571.705	604.374
55.0	570.149	543.703	546.037	537.481	541.370	536.703	546.037	540.592	570.149
57.5	533.591	511.812	513.368	515.701	521.924	514.923	513.368	508.701	533.591
60.0	497.033	478.365	479.921	495.478	504.812	495.478	479.921	476.032	497.033
62.5	461.253	445.697	447.252	476.032	487.699	477.588	447.252	443.363	461.253
65.0	421.584	411.472	423.917	458.142	470.587	459.697	423.917	409.139	421.584
67.5	382.692	378.025	402.138	440.252	455.031	442.585	402.138	374.914	382.692
70.0	342.245	344.579	382.692	423.917	437.918	426.251	382.692	340.690	342.245
72.5	300.242	308.798	364.024	406.027	418.473	408.361	364.024	304.132	300.242
75.0	258.240	276.908	344.579	384.248	394.360	387.359	344.579	272.240	258.240
77.5	215.459	252.017	322.799	356.246	360.913	358.580	322.799	248.128	215.459
80.0	172.678	227.904	294.798	311.910	308.021	314.243	294.798	226.349	172.678
82.5	129.898	202.236	249.683	235.683	213.125	236.460	249.683	204.569	129.898
85.0	87.895	166.456	151.677	90.228	58.337	87.117	151.677	175.012	87.895
87.5	49.003	85.561	60.671	48.225	37.336	47.448	60.671	91.006	49.003
90.0	24.891	54.448	50.559	40.447	31.113	39.669	50.559	57.559	24.891
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-H-835-ASY-ITL89988-ITL90233.214.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-H-835-ASY-ITL89988-ITL90233.214.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	348.66	N.A.	7.00
0-30	740.33	N.A.	14.90
0-40	1220.34	N.A.	24.50
0-60	2222.87	N.A.	44.70
0-80	3004.16	N.A.	60.40
0-90	3154.51	N.A.	63.40
10-90	3063.68	N.A.	61.60
20-40	871.68	N.A.	17.50
20-50	1384.98	N.A.	27.80
40-70	1434.17	N.A.	28.80
60-80	781.29	N.A.	15.70
70-80	349.64	N.A.	7.00
80-90	150.34	N.A.	3.00
90-110	242.41	N.A.	4.90
90-120	525.83	N.A.	10.60
90-130	851.83	N.A.	17.10
90-150	1418.69	N.A.	28.50
90-180	1820.00	N.A.	36.60
110-180	1577.59	N.A.	31.70
0-180	4974.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.83
10-20	257.83
20-30	391.67
30-40	480.01
40-50	513.30
50-60	489.22
60-70	431.65
70-80	349.64
80-90	150.34
90-100	65.66
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

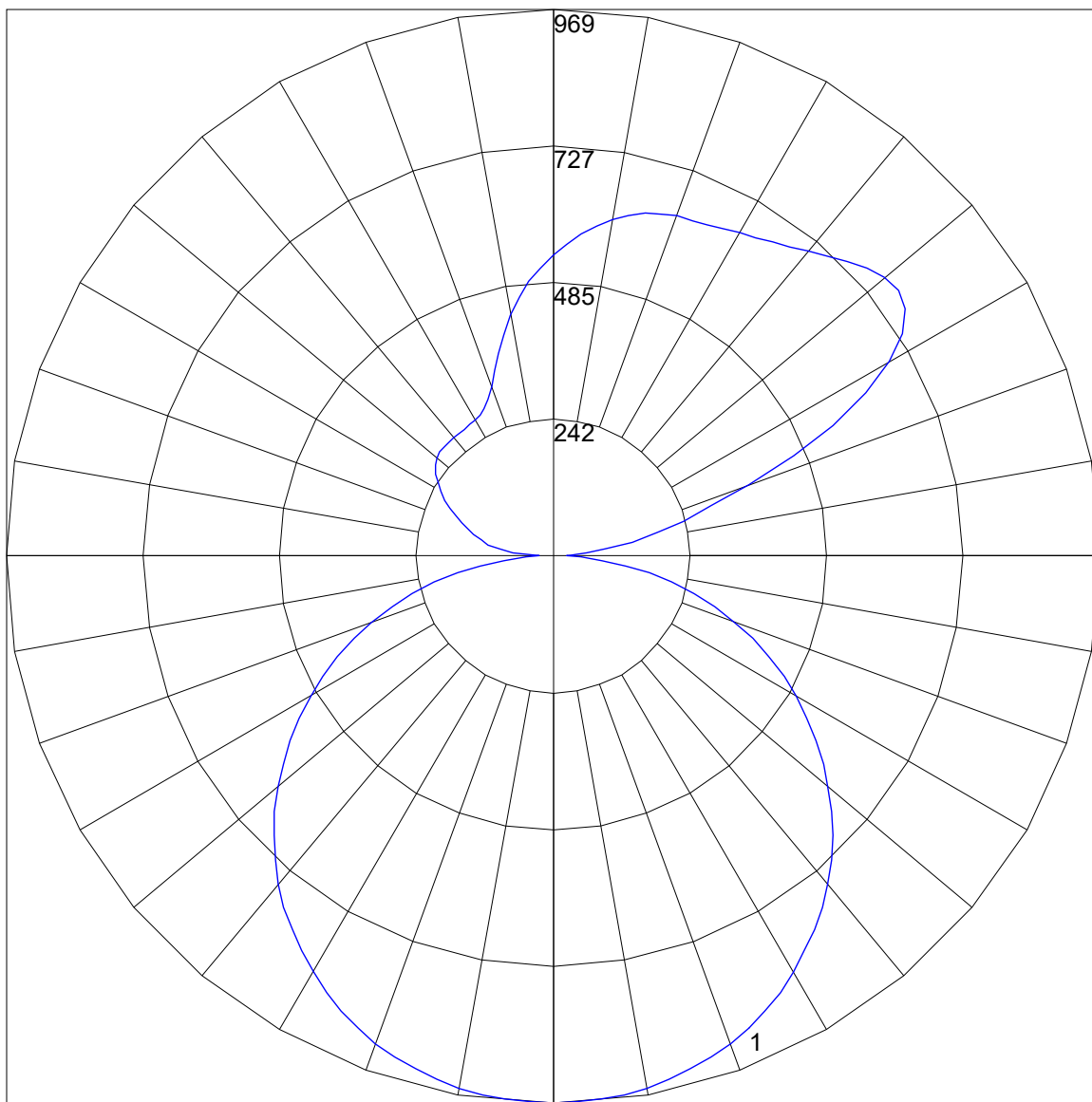
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-H-835-ASY-ITL89988-ITL90233.214.IES

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	79	79	79	68	68	68	63
1	99	94	90	86	93	88	84	81	78	74	72	67	65	63	58	57	55	50
2	90	81	74	69	84	76	70	65	67	62	58	58	54	51	50	47	45	41
3	81	71	63	56	76	67	59	53	58	53	48	51	46	43	44	40	37	34
4	74	62	54	47	69	59	51	45	52	45	40	45	40	36	39	35	32	28
5	68	55	47	40	63	52	44	38	46	39	34	40	35	31	35	31	27	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	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	16
9	50	37	29	24	47	35	28	23	31	25	21	28	22	19	24	20	17	15
10	47	34	26	21	44	32	25	20	29	23	19	25	20	17	22	18	15	13

POLAR GRAPH



Maximum Candela = 969.176 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)