

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-B-S-835-WSOTG-ITL90232.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/01/18

[TESTDATE]03/26/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-ID-RO-4ft-B-S-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.5 WATTS

[_ABSOLUTE]LUMENS]3906

[OTHER]see www.finelite.com for source file ITL90232. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	31.7
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5035	3242	2869
55	4974	2859	2462
65	4855	2470	2310
75	4516	2308	2111
85	3506	1172	467

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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>
0.0	479.573	479.573	479.573	479.573	479.573
2.5	479.573	479.157	478.741	478.325	477.908
5.0	478.325	477.076	475.005	473.340	472.924
7.5	475.837	473.756	470.010	467.523	467.106
10.0	473.340	469.188	464.609	462.122	460.040
12.5	470.010	462.954	458.792	455.472	452.974
15.0	465.858	456.721	451.726	448.822	446.325
17.5	461.289	449.655	444.660	441.756	439.259
20.0	454.639	441.340	436.355	433.025	430.954
22.5	447.573	433.025	428.040	424.721	422.639
25.0	439.675	423.888	418.903	416.406	414.325
27.5	430.538	413.908	408.924	406.842	405.604
30.0	421.391	403.939	399.370	397.705	396.457
32.5	410.589	392.721	388.974	387.736	386.903
35.0	398.954	381.086	378.172	377.340	376.091
37.5	387.736	369.025	366.954	366.122	364.873
40.0	374.436	355.320	354.903	354.071	352.406
42.5	361.137	342.436	342.853	341.604	339.939
45.0	346.172	327.472	329.969	328.304	326.223
47.5	331.208	313.340	316.254	313.756	311.685
50.0	315.837	298.802	301.705	298.802	295.472
52.5	299.624	283.837	287.157	282.589	279.269
55.0	282.589	268.457	271.787	266.802	268.040
57.5	265.137	252.670	255.990	255.167	258.487
60.0	246.853	236.467	239.370	245.604	249.756
62.5	228.152	219.837	223.167	236.467	241.035
65.0	209.452	203.218	211.117	227.320	232.721
67.5	189.919	186.173	200.304	218.589	223.584
70.0	169.553	168.721	189.919	209.035	214.020
72.5	149.188	150.853	179.939	198.640	202.802
75.0	127.167	135.066	169.137	186.173	189.086
77.5	107.218	123.005	157.086	169.553	170.386
80.0	85.604	111.371	141.299	145.452	142.538
82.5	64.416	99.320	116.365	104.721	96.416
85.0	43.218	82.700	68.985	45.716	35.320
87.5	22.437	41.553	30.751	25.766	21.614
90.0	4.985	27.431	24.518	20.365	16.203
92.5	14.102	42.832	36.569	30.822	25.076
95.0	23.513	67.909	79.401	42.832	32.914
97.5	37.086	96.650	165.604	85.157	63.208
100.0	52.761	119.634	293.594	159.330	108.660
102.5	69.482	140.528	387.624	297.777	195.381
105.0	86.193	158.812	420.020	520.842	365.167
107.5	103.442	175.005	423.147	715.177	615.919
110.0	120.152	190.680	421.066	810.781	790.924
112.5	137.391	205.827	422.629	845.259	887.573
115.0	155.675	221.502	425.766	841.604	924.660
117.5	176.051	237.695	430.985	822.792	928.314
120.0	192.772	252.843	436.731	798.243	915.259
122.5	206.873	265.381	440.914	773.685	891.746
125.0	219.929	276.873	443.523	747.563	863.543
127.5	232.467	286.284	444.051	719.878	831.675
130.0	243.969	295.157	445.096	691.665	796.670
132.5	253.370	302.995	445.096	665.543	761.147

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-WSOTG-ITL90232.011.IES****CANDELA TABULATION - (Cont.)**

135.0	262.771	310.315	445.096	640.995	726.152
137.5	272.172	317.106	442.477	616.964	692.710
140.0	281.574	323.370	438.822	592.406	659.797
142.5	292.030	330.162	435.685	568.375	627.939
145.0	301.431	336.426	430.985	544.873	595.543
147.5	309.787	340.609	425.238	522.934	566.294
150.0	319.188	346.355	420.020	502.558	538.081
152.5	327.553	350.538	415.309	483.228	511.959
155.0	335.908	353.675	409.563	464.944	487.929
157.5	343.218	358.375	402.782	447.177	466.507
160.0	349.492	361.502	397.553	431.513	446.660
162.5	356.284	364.122	393.370	418.447	429.939
165.0	361.502	367.249	389.198	406.436	415.309
167.5	366.203	369.868	384.487	397.025	403.299
170.0	369.868	372.477	380.832	389.198	393.370
172.5	372.477	374.568	379.269	383.452	386.061
175.0	374.568	375.614	377.705	379.787	380.315
177.5	375.614	376.132	376.660	377.178	377.178
180.0	376.132	376.132	376.132	376.132	376.132

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-S-835-WSOTG-ITL90232.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	173.05	N.A.	4.40
0-30	367.45	N.A.	9.40
0-40	605.98	N.A.	15.50
0-60	1103.74	N.A.	28.30
0-80	1487.88	N.A.	38.10
0-90	1559.67	N.A.	39.90
10-90	1514.62	N.A.	38.80
20-40	432.93	N.A.	11.10
20-50	687.93	N.A.	17.60
40-70	711.67	N.A.	18.20
60-80	384.14	N.A.	9.80
70-80	170.24	N.A.	4.40
80-90	71.79	N.A.	1.80
90-110	419.80	N.A.	10.70
90-120	917.06	N.A.	23.50
90-130	1366.86	N.A.	35.00
90-150	2010.03	N.A.	51.50
90-180	2346.79	N.A.	60.10
110-180	1926.98	N.A.	49.30
0-180	3906.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.06
10-20	128.00
20-30	194.39
30-40	238.54
40-50	255.00
50-60	242.76
60-70	213.90
70-80	170.24
80-90	71.79
90-100	75.76
100-110	344.04
110-120	497.25
120-130	449.80
130-140	366.23
140-150	276.93
150-160	190.30
160-170	110.31
170-180	36.16

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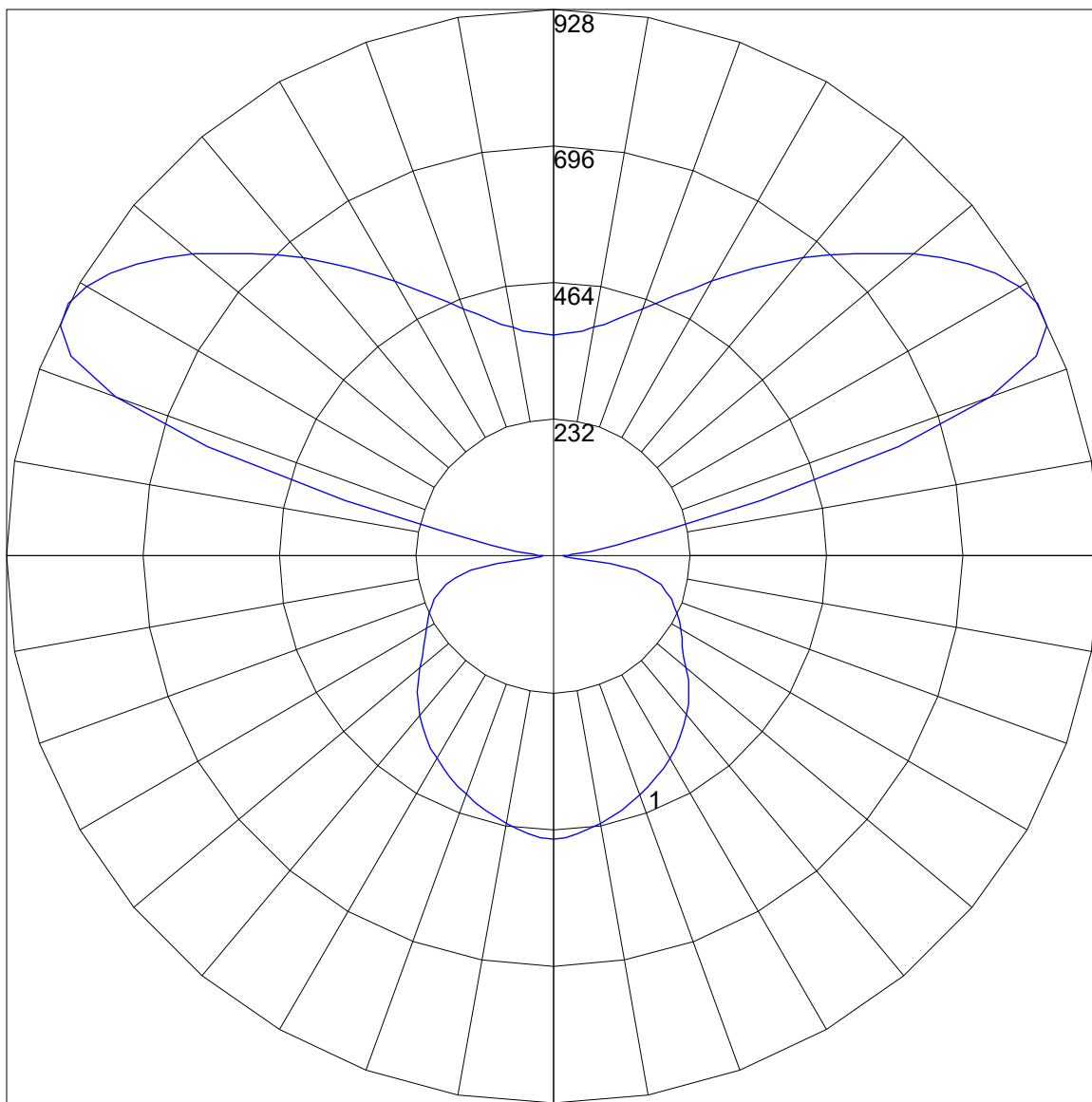
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	39	38	32
2	86	78	72	66	78	71	65	61	58	54	50	46	43	40	35	33	31	26
3	78	68	60	54	70	62	55	50	51	46	42	40	37	34	30	28	26	21
4	71	60	52	46	64	55	48	42	45	39	35	35	32	28	27	24	22	18
5	65	53	45	39	59	49	41	36	40	34	30	32	28	24	24	21	19	15
6	60	48	39	33	54	43	36	31	36	30	26	28	24	21	22	19	16	13
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15	12
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	18	15	13	10
9	47	35	28	23	43	32	26	21	27	21	18	22	18	15	17	14	12	9
10	44	32	25	20	40	30	23	19	25	19	16	20	16	13	15	13	10	8

POLAR GRAPH



Maximum Candela = 928.314 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)