

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-WSOTG-ITL90232.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.009 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-H-B-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 45.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 47.2 WATTS

[_ABSOLUTE]LUMENS]5507

[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	5507
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	45.1
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	6330	4076	3607
55	6253	3594	3095
65	6103	3105	2904
75	5677	2902	2654
85	4408	1474	587

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	602.863	602.863	602.863	602.863	602.863
2.5	602.863	602.335	601.817	601.289	600.771
5.0	601.289	599.726	597.117	595.025	594.497
7.5	598.152	595.543	590.842	587.705	587.188
10.0	595.025	589.797	584.051	580.913	578.304
12.5	590.842	581.959	576.741	572.558	569.421
15.0	585.624	574.122	567.858	564.203	561.066
17.5	579.868	565.249	558.974	555.320	552.183
20.0	571.512	554.802	548.528	544.345	541.736
22.5	562.629	544.345	538.081	533.898	531.289
25.0	552.710	532.853	526.589	523.452	520.842
27.5	541.218	520.315	514.051	511.441	509.868
30.0	529.726	507.776	502.030	499.949	498.375
32.5	516.142	493.675	488.974	487.411	486.365
35.0	501.512	479.045	475.391	474.345	472.782
37.5	487.411	463.898	461.289	460.243	458.670
40.0	470.690	446.660	446.132	445.096	443.005
42.5	453.969	430.467	430.985	429.421	427.330
45.0	435.167	411.655	414.792	412.700	410.091
47.5	416.355	393.898	397.553	394.416	391.807
50.0	397.025	375.614	379.269	375.614	371.431
52.5	376.660	356.802	360.985	355.238	351.056
55.0	355.238	337.472	341.655	335.391	336.954
57.5	333.299	317.624	321.807	320.761	324.934
60.0	310.315	297.249	300.903	308.741	313.969
62.5	286.802	276.355	280.538	297.249	302.995
65.0	263.289	255.462	265.381	285.756	292.548
67.5	238.741	234.041	251.797	274.782	281.056
70.0	213.147	212.101	238.741	262.771	269.035
72.5	187.543	189.634	226.203	249.716	254.934
75.0	159.858	169.787	212.619	234.041	237.695
77.5	134.782	154.629	197.472	213.147	214.183
80.0	107.614	140.010	177.614	182.843	179.188
82.5	80.975	124.853	146.274	131.645	121.198
85.0	54.335	103.959	86.721	57.462	44.406
87.5	28.213	52.244	38.660	32.386	27.168
90.0	6.264	34.477	30.822	25.594	20.376
92.5	21.320	64.751	55.279	46.589	37.909
95.0	35.533	102.660	120.030	64.751	49.746
97.5	56.071	146.091	250.325	128.721	95.553
100.0	79.756	180.832	443.797	240.853	164.254
102.5	105.025	212.426	585.939	450.112	295.340
105.0	130.294	240.061	634.903	787.309	551.979
107.5	156.355	264.538	639.634	1081.066	931.025
110.0	181.624	288.233	636.477	1225.573	1195.573
112.5	207.685	311.137	638.853	1277.695	1341.654
115.0	235.320	334.822	643.584	1272.172	1397.725
117.5	266.122	359.299	651.482	1243.736	1403.258
120.0	291.391	382.203	660.172	1206.629	1383.512
122.5	312.711	401.157	666.487	1169.512	1347.979
125.0	332.457	418.528	670.436	1130.030	1305.329
127.5	351.401	432.741	671.228	1088.172	1257.167
130.0	368.782	446.162	672.802	1045.533	1204.253
132.5	382.995	458.010	672.802	1006.050	1150.558

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-B-835-WSOTG-ITL90232.009.IES****CANDELA TABULATION - (Cont.)**

135.0	397.208	469.066	672.802	968.934	1097.654
137.5	411.421	479.330	668.853	932.609	1047.106
140.0	425.634	488.812	663.330	895.492	997.360
142.5	441.431	499.076	658.589	859.167	949.187
145.0	455.644	508.548	651.482	823.634	900.233
147.5	468.274	514.873	642.792	790.467	856.010
150.0	482.487	523.553	634.903	759.665	813.370
152.5	495.127	529.868	627.797	730.446	773.878
155.0	507.766	534.609	619.106	702.812	737.553
157.5	518.812	541.716	608.842	675.959	705.177
160.0	528.294	546.457	600.944	652.274	675.177
162.5	538.558	550.406	594.629	632.528	649.898
165.0	546.457	555.147	588.304	614.365	627.797
167.5	553.563	559.086	581.198	600.152	609.634
170.0	559.086	563.035	575.675	588.304	594.629
172.5	563.035	566.193	573.309	579.624	583.573
175.0	566.193	567.776	570.934	574.091	574.883
177.5	567.776	568.568	569.360	570.142	570.142
180.0	568.568	568.568	568.568	568.568	568.568

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	217.54	N.A.	4.00
0-30	461.91	N.A.	8.40
0-40	761.76	N.A.	13.80
0-60	1387.49	N.A.	25.20
0-80	1870.38	N.A.	34.00
0-90	1960.63	N.A.	35.60
10-90	1903.99	N.A.	34.60
20-40	544.22	N.A.	9.90
20-50	864.78	N.A.	15.70
40-70	894.62	N.A.	16.20
60-80	482.90	N.A.	8.80
70-80	214.00	N.A.	3.90
80-90	90.25	N.A.	1.60
90-110	633.86	N.A.	11.50
90-120	1385.51	N.A.	25.20
90-130	2065.43	N.A.	37.50
90-150	3037.65	N.A.	55.20
90-180	3546.7	N.A.	64.40
110-180	2912.84	N.A.	52.90
0-180	5507.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.64
10-20	160.90
20-30	244.37
30-40	299.86
40-50	320.55
50-60	305.17
60-70	268.89
70-80	214.00
80-90	90.25
90-100	113.80
100-110	520.06
110-120	751.65
120-130	679.93
130-140	553.60
140-150	418.62
150-160	287.66
160-170	166.74
170-180	54.65

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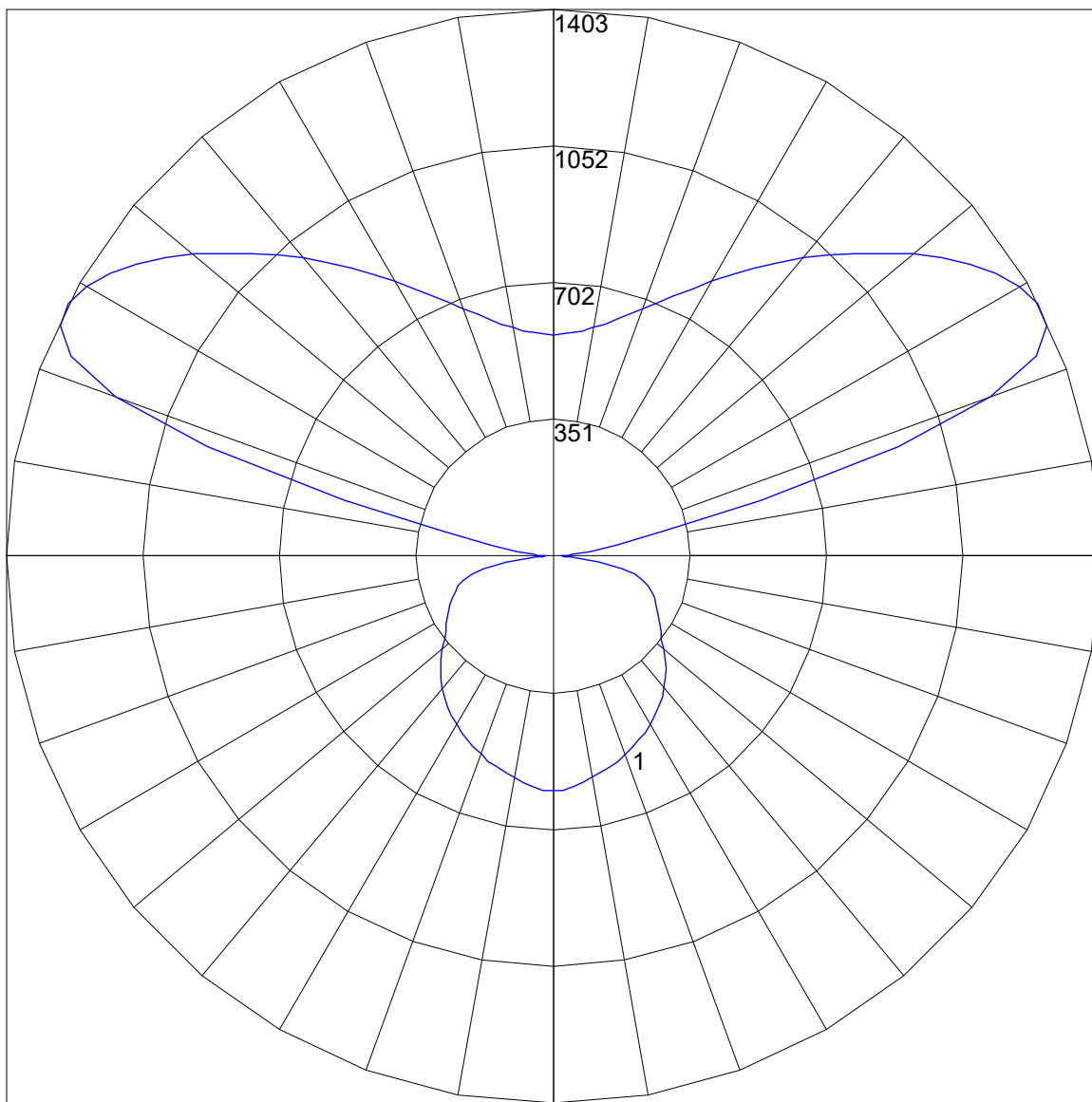
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	94	89	85	81	85	81	77	74	65	62	60	50	48	47	37	36	35	28
2	85	77	71	66	76	70	65	60	56	52	49	43	41	38	32	30	28	23
3	77	68	60	54	69	61	55	50	49	44	41	38	35	32	28	26	24	19
4	70	59	51	45	63	54	47	42	43	38	34	34	30	27	25	22	20	16
5	64	53	45	39	58	48	41	35	39	33	29	30	26	23	22	19	17	14
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	12
7	55	42	34	29	49	39	32	27	31	26	22	24	21	18	18	15	13	10
8	51	38	31	25	46	35	28	23	28	23	19	22	18	16	16	14	12	9
9	47	35	27	22	42	32	25	21	26	21	17	20	17	14	15	13	11	8
10	44	32	25	20	40	29	23	18	24	19	15	19	15	12	14	11	10	8

POLAR GRAPH



Maximum Candela = 1403.258 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)