

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-S-835-WSOTG-ITL90232.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.008 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-S-835-WSOTG
[INPUT_ELECTRICAL]120.0 VOLTS, 41.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 43.7 WATTS
[ABSOLUTE LUMENS]5106
[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	5106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	41.4
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

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	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	450.111	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	643.583	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-S-835-WSOTG-ITL90232.008.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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-S-835-WSOTG-ITL90232.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	173.05	N.A.	3.40
0-30	367.45	N.A.	7.20
0-40	605.98	N.A.	11.90
0-60	1103.74	N.A.	21.60
0-80	1487.88	N.A.	29.10
0-90	1559.67	N.A.	30.50
10-90	1514.62	N.A.	29.70
20-40	432.93	N.A.	8.50
20-50	687.93	N.A.	13.50
40-70	711.67	N.A.	13.90
60-80	384.14	N.A.	7.50
70-80	170.24	N.A.	3.30
80-90	71.79	N.A.	1.40
90-110	633.13	N.A.	12.40
90-120	1384.78	N.A.	27.10
90-130	2064.7	N.A.	40.40
90-150	3036.92	N.A.	59.50
90-180	3545.97	N.A.	69.50
110-180	2912.84	N.A.	57.10
0-180	5105.64	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	113.07
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

IES INDOOR REPORT

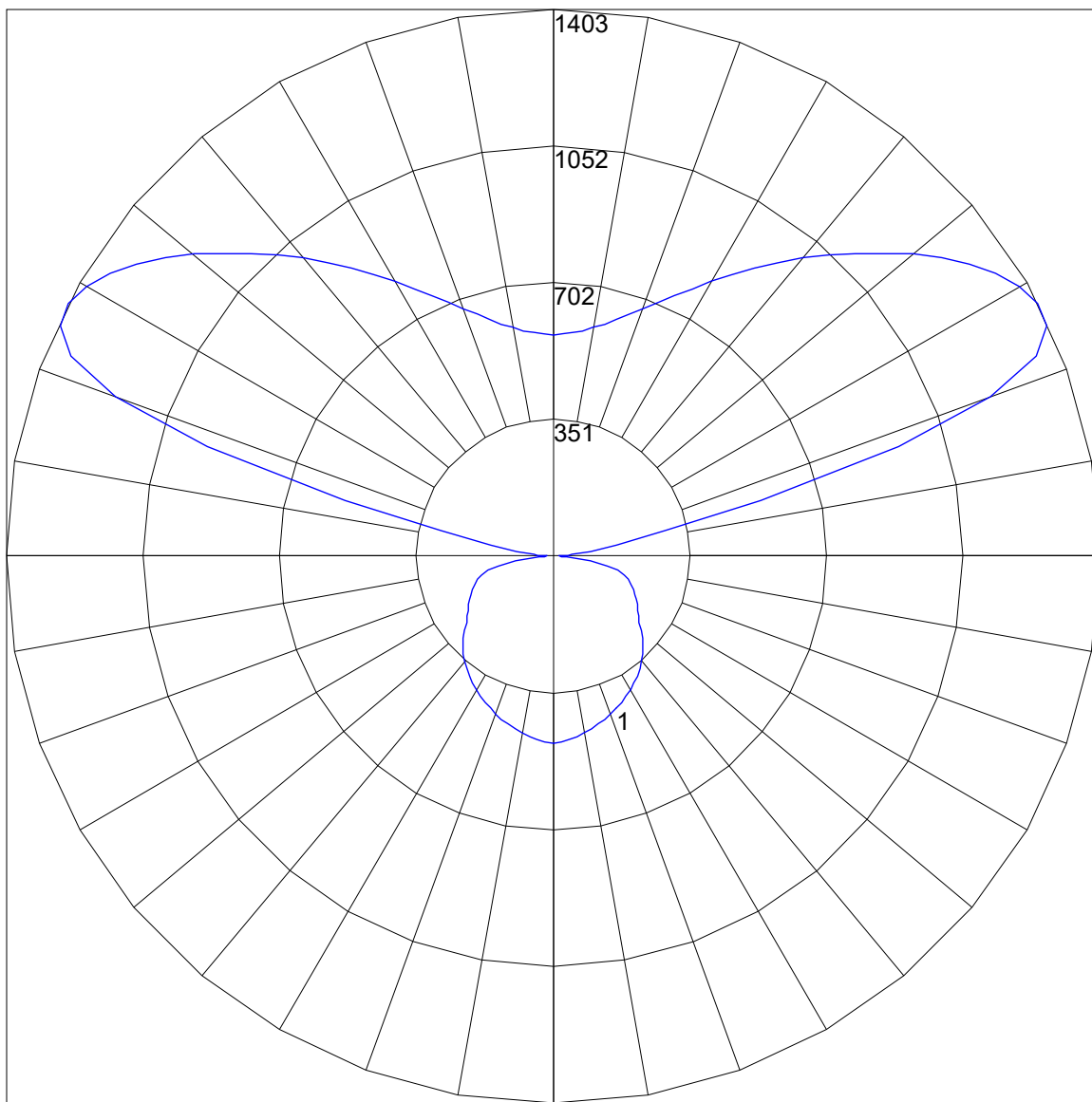
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	33	32	31	24
2	84	77	70	65	75	69	63	59	54	50	47	41	38	36	28	27	25	20
3	76	67	60	54	68	60	54	49	47	43	39	36	33	30	25	23	21	16
4	70	59	51	45	62	53	46	41	42	37	33	32	28	25	22	20	18	14
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	17	15	12
6	59	47	39	33	52	42	35	30	33	28	24	25	22	19	18	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	23	19	17	16	14	12	9
8	50	38	30	25	45	34	28	23	27	22	19	21	17	15	15	12	11	8
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	9	7
10	43	31	24	20	39	28	22	18	23	18	15	18	14	12	13	10	9	6

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.)