

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-WSOTG-ITL90232.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.0014 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-S-B-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.5 WATTS

[_ABSOLUTE]LUMENS]3829

[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	3829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	31.7
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 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

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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	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	597.116	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	11.218	34.081	29.086	24.518	19.949
95.0	18.701	54.020	63.167	34.081	26.183
97.5	29.503	76.883	131.736	67.736	50.284
100.0	41.970	95.167	233.553	126.751	86.437
102.5	55.269	111.787	308.355	236.873	155.421
105.0	68.569	126.335	334.122	414.325	290.487
107.5	82.284	139.218	336.619	568.924	489.959
110.0	95.584	151.685	334.954	644.974	629.177
112.5	109.299	163.736	336.203	672.396	706.061
115.0	123.838	176.203	338.690	669.492	735.563
117.5	140.051	189.086	342.853	654.528	738.477
120.0	153.350	201.137	347.421	634.995	728.091
122.5	164.568	211.117	350.741	615.462	709.391
125.0	174.954	220.254	352.822	594.690	686.944
127.5	184.934	227.736	353.238	572.660	661.594
130.0	194.071	234.802	354.071	550.223	633.756
132.5	201.553	241.035	354.071	529.441	605.492

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-B-835-WSOTG-ITL90232.014.IES****CANDELA TABULATION - (Cont.)**

135.0	209.035	246.853	354.071	509.908	577.644
137.5	216.518	252.254	351.990	490.792	551.056
140.0	223.990	257.238	349.086	471.259	524.873
142.5	232.304	262.640	346.589	452.142	499.523
145.0	239.787	267.634	342.853	433.441	473.756
147.5	246.436	270.954	338.274	415.990	450.487
150.0	253.919	275.523	334.122	399.787	428.040
152.5	260.568	278.853	330.386	384.406	407.259
155.0	267.218	281.340	325.807	369.858	388.142
157.5	273.035	285.086	320.406	355.736	371.106
160.0	278.020	287.574	316.254	343.269	355.320
162.5	283.421	289.655	312.924	332.873	342.020
165.0	287.574	292.152	309.604	323.320	330.386
167.5	291.320	294.223	305.858	315.837	320.822
170.0	294.223	296.304	302.954	309.604	312.924
172.5	296.304	297.969	301.705	305.035	307.106
175.0	297.969	298.802	300.457	302.122	302.538
177.5	298.802	299.218	299.624	300.041	300.041
180.0	299.218	299.218	299.218	299.218	299.218

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-B-835-WSOTG-ITL90232.014.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	217.54	N.A.	5.70
0-30	461.91	N.A.	12.10
0-40	761.76	N.A.	19.90
0-60	1387.49	N.A.	36.20
0-80	1870.38	N.A.	48.90
0-90	1960.63	N.A.	51.20
10-90	1903.99	N.A.	49.70
20-40	544.22	N.A.	14.20
20-50	864.78	N.A.	22.60
40-70	894.62	N.A.	23.40
60-80	482.90	N.A.	12.60
70-80	214.00	N.A.	5.60
80-90	90.25	N.A.	2.40
90-110	335.26	N.A.	8.80
90-120	730.83	N.A.	19.10
90-130	1088.65	N.A.	28.40
90-150	1600.28	N.A.	41.80
90-180	1868.17	N.A.	48.80
110-180	1532.91	N.A.	40.00
0-180	3828.8	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	61.58
100-110	273.68
110-120	395.56
120-130	357.82
130-140	291.34
140-150	220.30
150-160	151.38
160-170	87.75
170-180	28.76

IES INDOOR REPORT

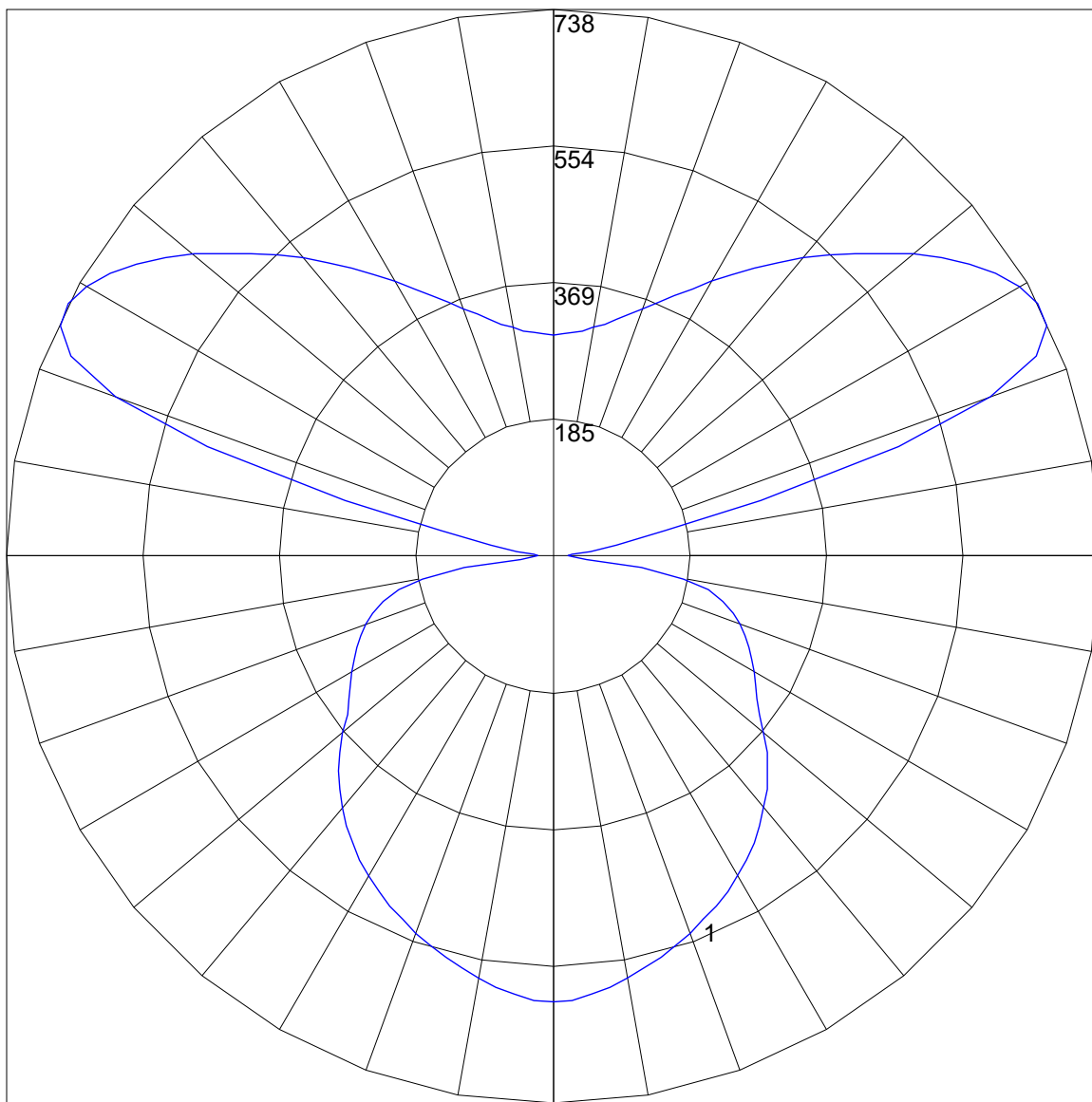
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	97	92	88	84	89	85	81	78	72	69	67	60	58	56	49	47	46	41
2	88	80	73	67	81	74	68	63	62	58	54	52	49	46	42	40	38	33
3	80	69	62	55	73	64	57	52	54	49	45	45	41	38	37	34	31	27
4	73	61	53	46	67	57	49	43	48	42	38	40	36	32	33	29	27	23
5	66	54	46	39	61	50	43	37	43	37	32	36	31	28	29	26	23	20
6	61	49	40	34	56	45	37	32	38	32	28	32	28	24	26	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24	29	25	21	24	20	18	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	18	16	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12
10	45	33	26	21	42	31	24	20	27	21	17	23	18	15	19	15	13	11

POLAR GRAPH



Maximum Candela = 738.477 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)