

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-S-835-WSOTG-ITL90232.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.002 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-S-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 30.9 WATTS

[_ABSOLUTE]LUMENS]3427

[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	3427
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	28
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	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	478.326	477.910
5.0	478.326	477.079	475.001	473.339	472.923
7.5	475.832	473.754	470.014	467.521	467.105
10.0	473.339	469.183	464.612	462.118	460.041
12.5	470.014	462.950	458.794	455.469	452.976
15.0	465.859	456.716	451.729	448.820	446.327
17.5	461.287	449.651	444.664	441.755	439.262
20.0	454.638	441.340	436.353	433.028	430.950
22.5	447.573	433.028	428.041	424.717	422.639
25.0	439.677	423.886	418.899	416.405	414.327
27.5	430.535	413.912	408.925	406.847	405.600
30.0	421.392	403.938	399.367	397.704	396.458
32.5	410.587	392.718	388.977	387.731	386.899
35.0	398.951	381.081	378.172	377.341	376.095
37.5	387.731	369.030	366.952	366.121	364.874
40.0	374.432	355.316	354.900	354.069	352.407
42.5	361.134	342.433	342.849	341.602	339.940
45.0	346.173	327.472	329.966	328.304	326.226
47.5	331.213	313.343	316.252	313.758	311.681
50.0	315.836	298.798	301.707	298.798	295.473
52.5	299.629	283.837	287.162	282.590	279.266
55.0	282.590	268.461	271.785	266.799	268.045
57.5	265.136	252.669	255.994	255.162	258.487
60.0	246.851	236.462	239.371	245.604	249.760
62.5	228.150	219.839	223.163	236.462	241.033
65.0	209.449	203.216	211.112	227.319	232.721
67.5	189.917	186.177	200.307	218.592	223.579
70.0	169.554	168.723	189.917	209.034	214.021
72.5	149.191	150.853	179.944	198.644	202.800
75.0	127.166	135.062	169.139	186.177	189.086
77.5	107.218	123.010	157.087	169.554	170.385
80.0	85.608	111.374	141.295	145.451	142.542
82.5	64.414	99.322	116.361	104.725	96.413
85.0	43.220	82.699	68.985	45.713	35.324
87.5	22.441	41.557	30.752	25.766	21.610
90.0	4.987	27.428	24.519	20.363	16.207
92.5	11.221	34.077	29.090	24.519	19.948
95.0	18.701	54.025	63.167	34.077	26.181
97.5	29.506	76.881	131.737	67.739	50.284
100.0	41.973	95.166	233.553	126.750	86.439
102.5	55.271	111.789	308.356	236.877	155.425
105.0	68.570	126.335	334.122	414.327	290.486
107.5	82.284	139.217	336.615	568.921	489.962
110.0	95.582	151.685	334.953	644.971	629.179
112.5	109.296	163.736	336.199	672.399	706.060
115.0	123.841	176.203	338.693	669.490	735.566
117.5	140.048	189.086	342.849	654.529	738.475
120.0	153.347	201.138	347.420	634.997	728.086
122.5	164.567	211.112	350.745	615.465	709.385
125.0	174.957	220.254	352.822	594.687	686.944
127.5	184.930	227.735	353.238	572.661	661.594
130.0	194.073	234.799	354.069	550.220	633.751
132.5	201.553	241.033	354.069	529.441	605.491

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-S-835-WSOTG-ITL90232.002.IES****CANDELA TABULATION - (Cont.)**

135.0	209.034	246.851	354.069	509.909	577.648
137.5	216.514	252.253	351.991	490.793	551.051
140.0	223.994	257.240	349.082	471.261	524.870
142.5	232.306	262.643	346.589	452.145	499.520
145.0	239.786	267.630	342.849	433.444	473.754
147.5	246.435	270.954	338.277	415.990	450.482
150.0	253.916	275.526	334.122	399.782	428.041
152.5	260.565	278.850	330.381	384.406	407.263
155.0	267.214	281.344	325.810	369.861	388.146
157.5	273.032	285.084	320.408	355.731	371.108
160.0	278.019	287.577	316.252	343.264	355.316
162.5	283.422	289.655	312.927	332.875	342.017
165.0	287.577	292.149	309.603	323.317	330.381
167.5	291.317	294.226	305.863	315.836	320.823
170.0	294.226	296.304	302.954	309.603	312.927
172.5	296.304	297.967	301.707	305.031	307.109
175.0	297.967	298.798	300.460	302.122	302.538
177.5	298.798	299.213	299.629	300.045	300.045
180.0	299.213	299.213	299.213	299.213	299.213

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-S-835-WSOTG-ITL90232.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	173.05	N.A.	5.00
0-30	367.45	N.A.	10.70
0-40	605.98	N.A.	17.70
0-60	1103.74	N.A.	32.20
0-80	1487.88	N.A.	43.40
0-90	1559.67	N.A.	45.50
10-90	1514.62	N.A.	44.20
20-40	432.93	N.A.	12.60
20-50	687.93	N.A.	20.10
40-70	711.66	N.A.	20.80
60-80	384.14	N.A.	11.20
70-80	170.24	N.A.	5.00
80-90	71.79	N.A.	2.10
90-110	334.53	N.A.	9.80
90-120	730.10	N.A.	21.30
90-130	1087.92	N.A.	31.70
90-150	1599.55	N.A.	46.70
90-180	1867.44	N.A.	54.50
110-180	1532.91	N.A.	44.70
0-180	3427.12	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	238.53
40-50	255.00
50-60	242.76
60-70	213.90
70-80	170.24
80-90	71.79
90-100	60.85
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

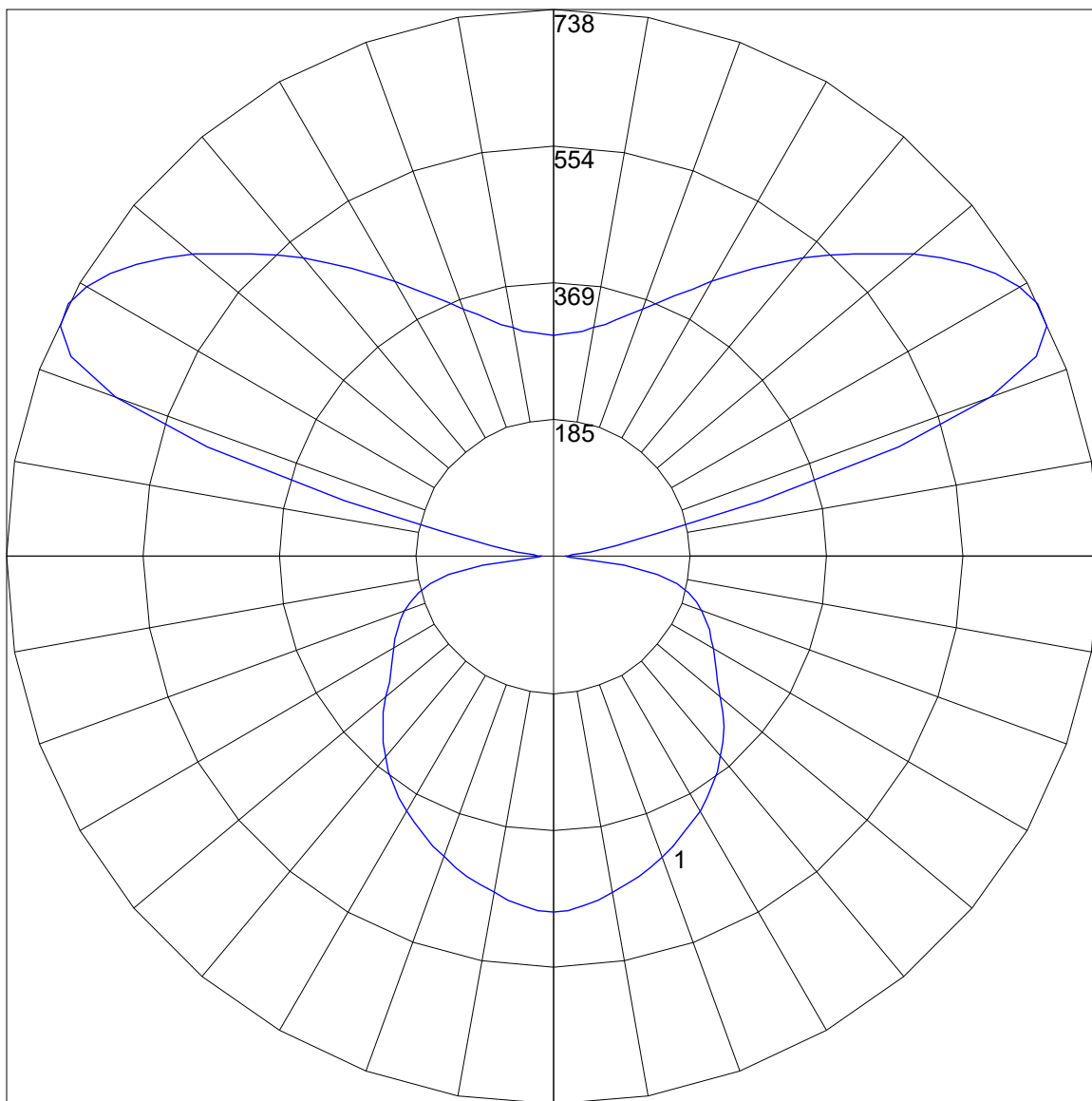
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	96	91	87	83	88	83	80	77	69	67	64	56	54	53	44	43	42	36
2	87	79	72	67	79	72	67	62	60	56	52	49	46	43	38	36	34	29
3	79	69	61	55	72	63	56	51	52	47	43	43	39	36	33	31	29	24
4	72	61	52	46	65	56	48	43	46	41	36	38	34	30	30	27	24	20
5	66	54	45	39	60	49	42	36	41	36	31	34	29	26	27	23	21	17
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18	15
7	56	43	35	29	51	40	33	27	33	28	24	27	23	20	22	19	16	13
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14	12
9	48	36	28	23	44	33	26	21	28	22	19	23	19	16	18	15	13	11
10	45	33	25	20	41	30	24	19	26	20	17	21	17	14	17	14	12	10

POLAR GRAPH



Maximum Candela = 738.475 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)