

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-D-RO-4FT-H-835-OPN-ITL89348.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89348.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]06/19/17

[ISSUEDATE]08/02/17

[MANUFAC]FINELITE, INC.

[LUMCAT]HO4-D-RO-4ft-H-835-OPN

[OTHER]120.0 VOLTS, 26.9 WATTS

[OTHER]277.0 VOLTS, 27.7 WATTS

[ABSOLUTE]LUMENS]3158

[OTHER]see www.finelite.com for source file ITL89348. 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	3158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	26.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.42
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	9908	6372	5656
55	9801	5644	4878
65	9644	4886	4562
75	9140	4574	4142
85	7318	2444	874

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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	933.169	933.169	933.169	933.169	933.169
2.5	933.169	931.614	929.281	927.726	927.726
5.0	930.836	926.948	922.282	919.172	917.616
7.5	927.726	919.949	913.728	909.062	907.507
10.0	923.060	911.395	903.619	898.953	895.842
12.5	917.616	901.286	892.732	887.288	884.178
15.0	909.062	888.844	880.290	874.068	870.958
17.5	899.731	874.846	867.070	860.849	856.960
20.0	887.288	860.071	851.517	846.073	842.185
22.5	874.846	842.963	836.742	830.521	827.410
25.0	859.293	825.855	818.856	814.190	810.302
27.5	842.963	807.969	800.970	797.082	793.971
30.0	824.299	787.750	781.529	778.419	776.086
32.5	804.081	767.532	762.088	759.755	757.422
35.0	783.084	744.980	741.870	739.537	737.204
37.5	759.755	722.428	720.096	718.540	716.207
40.0	734.093	698.322	696.766	695.211	693.656
42.5	707.653	672.659	672.659	671.882	670.327
45.0	681.214	646.220	648.553	646.997	643.109
47.5	651.663	619.002	622.113	619.780	615.114
50.0	622.113	590.230	595.673	591.785	587.897
52.5	590.230	559.902	566.900	561.457	556.013
55.0	556.791	530.351	536.572	528.796	531.129
57.5	523.352	500.023	506.244	505.467	511.688
60.0	487.581	468.140	473.583	486.026	493.802
62.5	452.587	436.257	440.922	467.362	476.694
65.0	416.038	404.373	417.593	449.476	459.586
67.5	377.156	370.935	396.597	431.591	441.700
70.0	338.274	336.719	376.378	412.150	422.259
72.5	297.837	302.502	356.160	390.376	399.707
75.0	257.399	270.619	335.163	364.714	370.935
77.5	216.184	246.512	311.056	333.608	332.830
80.0	174.969	223.961	279.951	286.172	276.063
82.5	132.199	201.409	232.515	208.408	187.411
85.0	90.206	170.303	143.864	83.208	66.099
87.5	48.991	97.983	49.769	29.550	16.330
90.0	0.000	49.769	32.661	13.220	0.000
92.5	0.000	47.436	31.883	12.442	0.000
95.0	0.000	45.103	31.106	12.442	0.000
97.5	0.000	41.993	30.328	11.665	0.000
100.0	0.000	39.660	28.773	11.665	0.000
102.5	0.000	40.437	27.995	11.665	0.000
105.0	0.000	42.770	27.217	10.887	0.000
107.5	0.000	41.215	26.440	10.887	0.000
110.0	0.000	38.882	27.995	10.887	0.000
112.5	0.000	36.549	29.550	10.887	0.000
115.0	0.000	34.216	31.106	10.887	0.000
117.5	0.000	31.883	29.550	11.665	0.000
120.0	0.000	30.328	27.217	12.442	0.000
122.5	0.000	27.995	25.662	12.442	0.000
125.0	0.000	25.662	24.107	12.442	0.000
127.5	0.000	23.329	21.774	10.887	0.000
130.0	0.000	22.552	20.219	9.332	0.000
132.5	0.000	20.219	17.886	9.332	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	17.886	17.108	9.332	0.000
137.5	0.000	16.330	16.330	7.776	0.000
140.0	0.000	14.775	13.220	6.221	0.000
142.5	0.000	12.442	12.442	5.443	0.000
145.0	0.000	9.332	11.665	4.666	0.000
147.5	0.000	4.666	9.332	4.666	0.000
150.0	0.000	3.888	8.554	4.666	0.000
152.5	0.000	2.333	8.554	3.888	0.000
155.0	0.000	0.000	6.999	1.555	0.000
157.5	0.000	0.000	3.888	0.000	0.000
160.0	0.000	0.000	3.111	0.000	0.000
162.5	0.000	0.000	1.555	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-D-RO-4FT-H-835-OPN-ITL89348.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	337.00	N.A.	10.70
0-30	716.92	N.A.	22.70
0-40	1184.34	N.A.	37.50
0-60	2166.66	N.A.	68.60
0-80	2927.62	N.A.	92.70
0-90	3066.61	N.A.	97.10
10-90	2979.03	N.A.	94.30
20-40	847.33	N.A.	26.80
20-50	1349.5	N.A.	42.70
40-70	1405.96	N.A.	44.50
60-80	760.96	N.A.	24.10
70-80	337.32	N.A.	10.70
80-90	138.99	N.A.	4.40
90-110	45.09	N.A.	1.40
90-120	63.72	N.A.	2.00
90-130	77.52	N.A.	2.50
90-150	90.05	N.A.	2.90
90-180	91.25	N.A.	2.90
110-180	46.17	N.A.	1.50
0-180	3157.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.58
10-20	249.42
20-30	379.91
30-40	467.42
40-50	502.17
50-60	480.16
60-70	423.63
70-80	337.32
80-90	138.99
90-100	24.03
100-110	21.06
110-120	18.63
120-130	13.80
130-140	8.53
140-150	4.00
150-160	1.14
160-170	0.07
170-180	0.00

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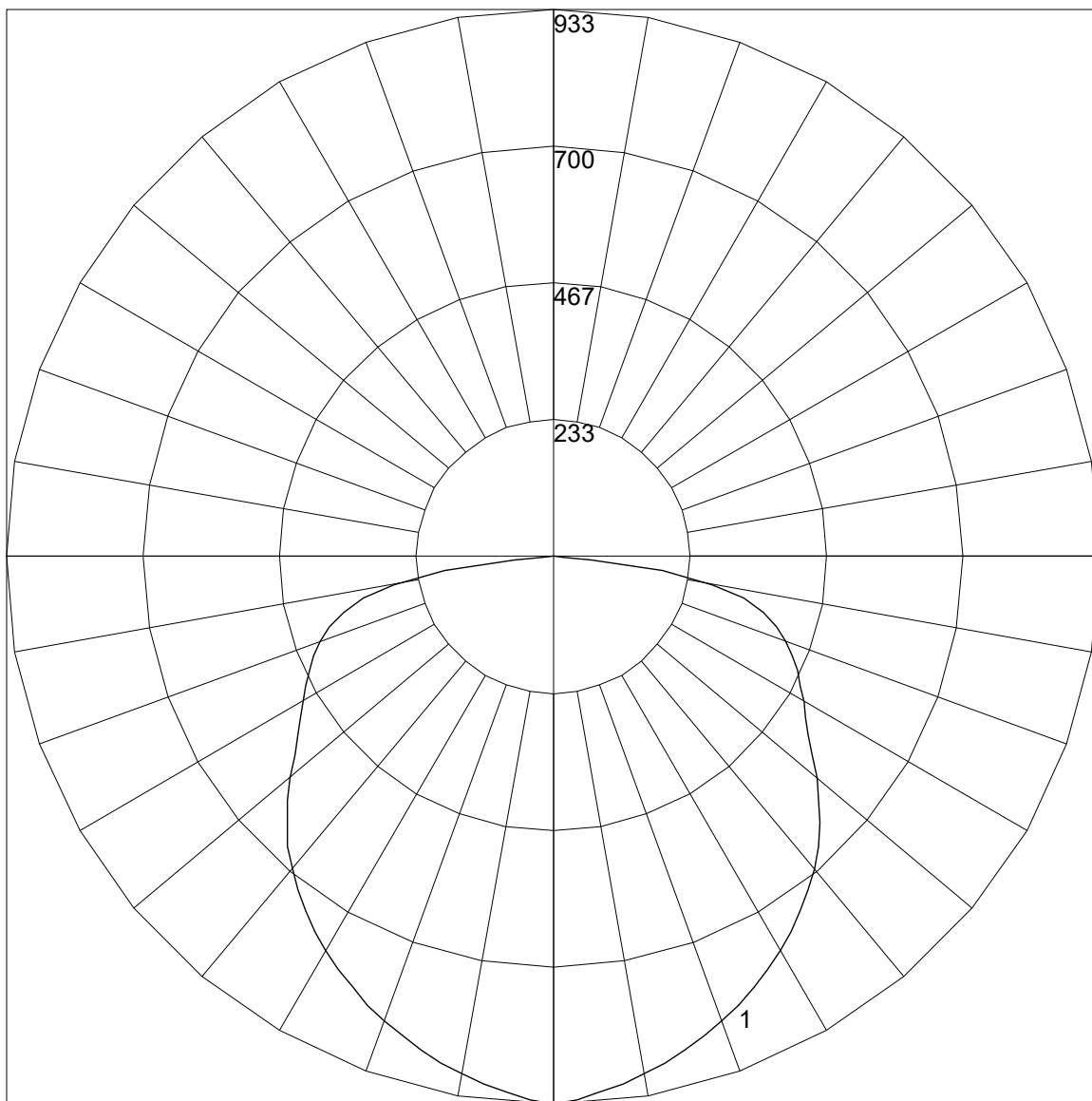
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	106	101	96	91	103	98	93	89	93	89	86	89	86	83	85	82	80	77
2	96	86	79	72	93	84	77	71	80	74	69	76	71	67	73	69	65	63
3	87	75	66	59	84	73	65	58	70	63	57	66	60	55	64	58	54	52
4	79	66	57	49	76	64	56	49	62	54	48	59	52	47	56	51	46	43
5	72	59	49	42	70	57	48	42	55	47	41	53	46	40	50	44	40	37
6	67	53	43	36	65	52	43	36	49	41	36	47	40	35	45	39	34	32
7	62	48	38	32	60	47	38	32	45	37	31	43	36	31	41	35	30	28
8	57	43	35	28	56	43	34	28	41	33	28	39	33	28	38	32	27	25
9	54	40	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	20

POLAR GRAPH



Maximum Candela = 933.169 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)