

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-S-835-OPN-ITL89348.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89348.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]06/19/17

[ISSUEDATE]08/02/17

[MANUFAC]FINELITE, INC.

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

[OTHER]120.0 VOLTS, 13.7 WATTS

[OTHER]277.0 VOLTS, 15.2 WATTS

[_ABSOLUTE]LUMENS]1662

[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	1662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	13.7
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	5215	3354	2977
55	5158	2970	2567
65	5075	2571	2401
75	4810	2407	2180
85	3851	1286	460

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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	491.111	491.111	491.111	491.111	491.111
2.5	491.111	490.292	489.064	488.246	488.246
5.0	489.883	487.837	485.381	483.744	482.925
7.5	488.246	484.153	480.879	478.424	477.605
10.0	485.790	479.651	475.559	473.103	471.466
12.5	482.925	474.331	469.829	466.964	465.327
15.0	478.424	467.783	463.281	460.007	458.370
17.5	473.512	460.416	456.324	453.050	451.003
20.0	466.964	452.640	448.138	445.274	443.227
22.5	460.416	443.637	440.362	437.088	435.451
25.0	452.231	434.633	430.950	428.494	426.448
27.5	443.637	425.220	421.537	419.490	417.853
30.0	433.814	414.579	411.305	409.668	408.440
32.5	423.174	403.938	401.074	399.846	398.618
35.0	412.124	392.070	390.433	389.205	387.977
37.5	399.846	380.201	378.974	378.155	376.927
40.0	386.340	367.514	366.696	365.877	365.059
42.5	372.426	354.009	354.009	353.600	352.781
45.0	358.511	340.094	341.322	340.503	338.457
47.5	342.959	325.770	327.407	326.179	323.724
50.0	327.407	310.627	313.492	311.446	309.400
52.5	310.627	294.666	298.350	295.485	292.620
55.0	293.029	279.115	282.389	278.296	279.524
57.5	275.431	263.153	266.427	266.018	269.292
60.0	256.605	246.374	249.239	255.787	259.879
62.5	238.189	229.594	232.050	245.965	250.876
65.0	218.953	212.815	219.772	236.552	241.872
67.5	198.491	195.216	208.722	227.139	232.459
70.0	178.028	177.209	198.081	216.907	222.228
72.5	156.746	159.202	187.441	205.448	210.359
75.0	135.465	142.422	176.391	191.942	195.216
77.5	113.774	129.735	163.704	175.572	175.163
80.0	92.083	117.867	147.333	150.607	145.287
82.5	69.574	105.998	122.368	109.681	98.631
85.0	47.474	89.628	75.713	43.791	34.787
87.5	25.783	51.567	26.193	15.552	8.594
90.0	0.000	26.193	17.189	6.957	0.000
92.5	0.000	24.965	16.780	6.548	0.000
95.0	0.000	23.737	16.370	6.548	0.000
97.5	0.000	22.100	15.961	6.139	0.000
100.0	0.000	20.872	15.143	6.139	0.000
102.5	0.000	21.281	14.733	6.139	0.000
105.0	0.000	22.509	14.324	5.730	0.000
107.5	0.000	21.691	13.915	5.730	0.000
110.0	0.000	20.463	14.733	5.730	0.000
112.5	0.000	19.235	15.552	5.730	0.000
115.0	0.000	18.007	16.370	5.730	0.000
117.5	0.000	16.780	15.552	6.139	0.000
120.0	0.000	15.961	14.324	6.548	0.000
122.5	0.000	14.733	13.506	6.548	0.000
125.0	0.000	13.506	12.687	6.548	0.000
127.5	0.000	12.278	11.459	5.730	0.000
130.0	0.000	11.869	10.641	4.911	0.000
132.5	0.000	10.641	9.413	4.911	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	9.413	9.004	4.911	0.000
137.5	0.000	8.594	8.594	4.093	0.000
140.0	0.000	7.776	6.957	3.274	0.000
142.5	0.000	6.548	6.548	2.865	0.000
145.0	0.000	4.911	6.139	2.456	0.000
147.5	0.000	2.456	4.911	2.456	0.000
150.0	0.000	2.046	4.502	2.456	0.000
152.5	0.000	1.228	4.502	2.046	0.000
155.0	0.000	0.000	3.683	0.819	0.000
157.5	0.000	0.000	2.046	0.000	0.000
160.0	0.000	0.000	1.637	0.000	0.000
162.5	0.000	0.000	0.819	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-S-835-OPN-ITL89348.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	177.36	N.A.	10.70
0-30	377.30	N.A.	22.70
0-40	623.30	N.A.	37.50
0-60	1140.28	N.A.	68.60
0-80	1540.76	N.A.	92.70
0-90	1613.91	N.A.	97.10
10-90	1567.81	N.A.	94.30
20-40	445.94	N.A.	26.80
20-50	710.22	N.A.	42.70
40-70	739.93	N.A.	44.50
60-80	400.48	N.A.	24.10
70-80	177.53	N.A.	10.70
80-90	73.15	N.A.	4.40
90-110	23.73	N.A.	1.40
90-120	33.53	N.A.	2.00
90-130	40.80	N.A.	2.50
90-150	47.39	N.A.	2.90
90-180	48.02	N.A.	2.90
110-180	24.30	N.A.	1.50
0-180	1661.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.09
10-20	131.27
20-30	199.94
30-40	245.99
40-50	264.28
50-60	252.70
60-70	222.95
70-80	177.53
80-90	73.15
90-100	12.65
100-110	11.08
110-120	9.81
120-130	7.26
130-140	4.49
140-150	2.10
150-160	0.60
160-170	0.03
170-180	0.00

IES INDOOR REPORT

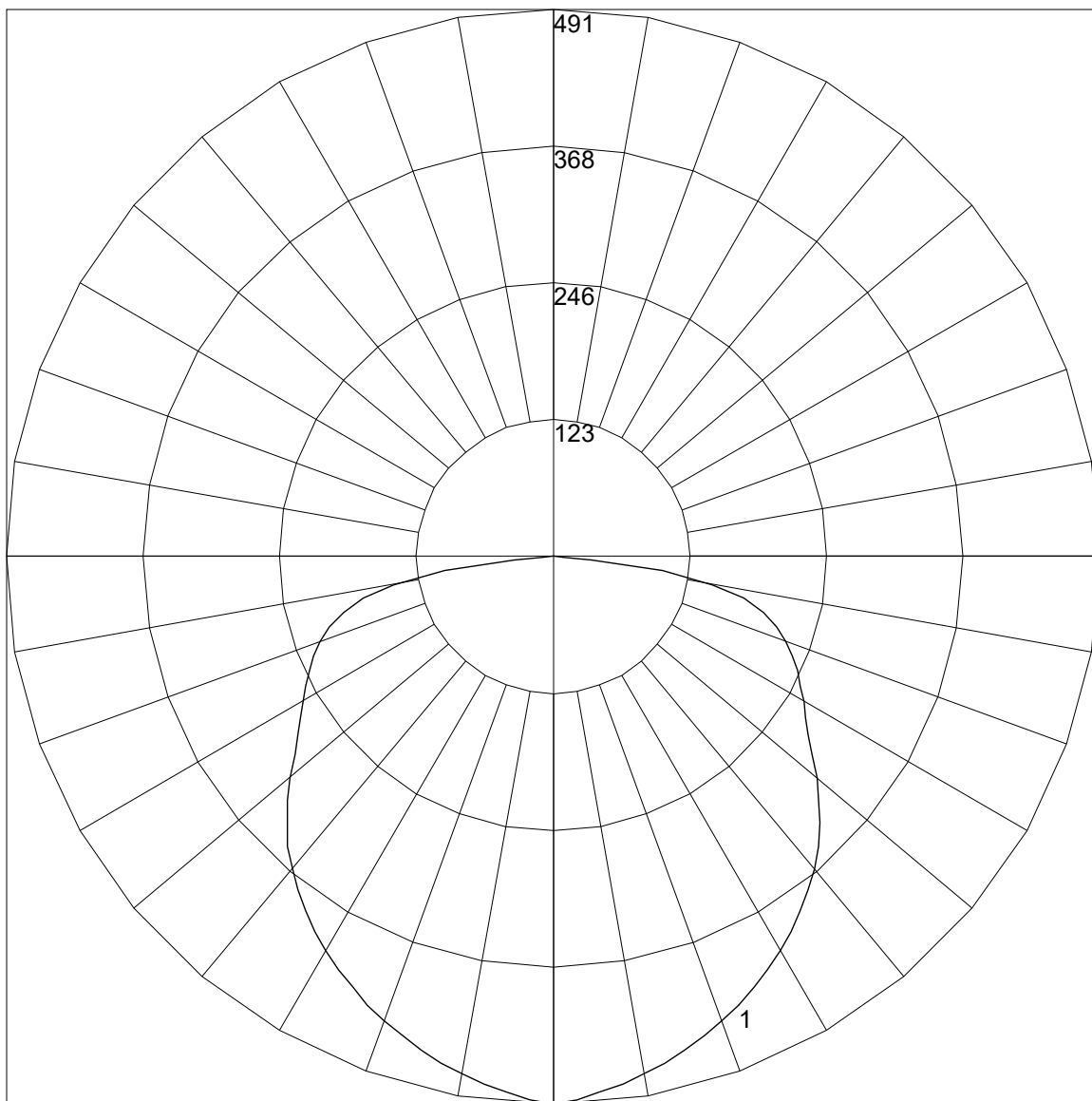
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 491.111 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)