

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-UD-RO-4FT-S-S-835-OPN-ITL89462.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/25/17

[ISSUEDATE]08/31/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-UD-RO-4ft-S-S-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 27.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 30.4 WATTS

[_ABSOLUTE]LUMENS]3508

[OTHER]see www.finelite.com for source file ITL89462. 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	3508
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	27.4
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	4448	2884	2571
55	4395	2562	2214
65	4279	2213	2064
75	4026	2056	1860
85	3055	960	260

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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	422.434	422.434	422.434	422.434	422.434
2.5	422.024	421.615	420.796	420.387	419.978
5.0	420.796	419.568	417.522	415.884	415.884
7.5	419.159	416.703	413.428	411.382	410.972
10.0	416.703	412.610	409.335	406.879	405.651
12.5	413.838	407.698	404.014	401.558	399.511
15.0	410.154	401.967	398.692	395.827	393.780
17.5	405.651	395.827	392.552	389.687	388.049
20.0	400.330	389.277	386.003	383.956	381.500
22.5	394.599	381.909	378.635	376.588	374.541
25.0	387.640	373.723	370.857	369.220	367.583
27.5	379.863	365.536	362.671	361.443	359.805
30.0	371.267	356.121	354.075	353.256	352.028
32.5	362.261	346.707	344.660	344.251	343.432
35.0	352.437	336.473	335.245	335.655	334.836
37.5	340.976	325.831	325.012	325.831	325.012
40.0	329.924	314.779	315.188	315.597	314.779
42.5	318.463	302.908	304.545	304.954	304.136
45.0	305.773	291.037	293.493	293.493	292.265
47.5	293.084	278.348	282.441	281.622	279.576
50.0	279.166	265.658	270.161	268.524	266.477
52.5	264.840	252.560	257.062	254.606	252.150
55.0	249.694	238.642	243.554	239.461	241.098
57.5	234.549	225.134	229.637	229.637	232.912
60.0	218.176	211.217	214.491	220.222	224.316
62.5	201.802	196.481	200.165	211.626	216.129
65.0	184.610	181.745	189.113	203.439	207.942
67.5	167.418	167.009	179.289	194.843	199.755
70.0	149.817	151.863	169.874	186.247	190.341
72.5	131.806	136.309	160.869	176.423	179.698
75.0	113.386	121.982	150.635	164.553	166.599
77.5	94.556	110.930	139.583	148.998	149.817
80.0	76.136	100.696	125.256	126.075	122.800
82.5	57.307	90.054	101.924	87.188	78.183
85.0	37.659	74.090	56.488	27.835	19.648
87.5	17.601	36.021	20.467	10.643	5.321
90.0	0.000	21.695	15.964	8.596	3.275
92.5	5.731	28.653	24.969	17.601	12.280
95.0	15.964	38.887	36.021	27.835	22.513
97.5	31.519	52.804	49.939	41.343	34.793
100.0	50.348	69.178	65.494	55.670	49.120
102.5	71.634	90.872	83.504	73.271	65.903
105.0	97.831	114.614	105.199	94.147	85.960
107.5	128.122	142.449	131.397	118.707	109.702
110.0	162.097	173.967	161.687	146.951	137.537
112.5	199.346	208.351	197.299	179.698	169.465
115.0	239.052	245.601	234.549	217.357	206.305
117.5	279.985	284.078	272.208	258.290	247.238
120.0	321.737	322.965	312.732	300.861	290.628
122.5	361.852	361.033	352.847	340.976	334.017
125.0	400.739	397.874	391.733	381.909	376.179
127.5	437.170	434.714	428.983	420.387	415.884
130.0	471.554	468.279	463.776	455.590	451.906
132.5	503.891	500.617	496.933	489.155	484.653

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-S-S-835-OPN-ITL89462.003.IES****CANDELA TABULATION - (Cont.)**

135.0	534.182	530.498	528.451	519.446	514.943
137.5	562.426	558.333	557.105	548.509	543.187
140.0	588.214	583.302	583.302	574.706	569.385
142.5	612.365	607.453	608.272	600.085	594.354
145.0	635.288	629.148	631.194	623.826	618.096
147.5	655.755	649.205	651.661	645.112	639.790
150.0	674.175	668.444	671.719	664.351	659.439
152.5	691.367	684.408	688.911	681.952	677.449
155.0	705.284	699.963	704.465	697.507	694.641
157.5	719.201	713.880	718.383	711.833	709.377
160.0	731.891	726.160	731.072	724.932	723.295
162.5	741.715	736.803	741.306	736.803	734.756
165.0	750.720	746.627	749.902	747.036	745.399
167.5	758.498	756.042	756.860	756.042	755.223
170.0	764.638	763.000	763.410	763.410	762.591
172.5	769.140	768.731	768.322	768.731	768.731
175.0	772.415	772.824	772.415	772.824	772.824
177.5	774.462	774.871	774.462	774.462	774.871
180.0	775.280	775.280	775.280	775.280	775.280

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-S-S-835-OPN-ITL89462.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	152.50	N.A.	4.30
0-30	324.50	N.A.	9.30
0-40	535.86	N.A.	15.30
0-60	980.07	N.A.	27.90
0-80	1322.57	N.A.	37.70
0-90	1381.21	N.A.	39.40
10-90	1341.57	N.A.	38.20
20-40	383.37	N.A.	10.90
20-50	610.46	N.A.	17.40
40-70	635.31	N.A.	18.10
60-80	342.50	N.A.	9.80
70-80	151.40	N.A.	4.30
80-90	58.65	N.A.	1.70
90-110	145.67	N.A.	4.20
90-120	374.60	N.A.	10.70
90-130	722.03	N.A.	20.60
90-150	1518.98	N.A.	43.30
90-180	2126.59	N.A.	60.60
110-180	1980.92	N.A.	56.50
0-180	3507.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.64
10-20	112.86
20-30	172.00
30-40	211.37
40-50	227.09
50-60	217.12
60-70	191.10
70-80	151.40
80-90	58.65
90-100	35.63
100-110	110.04
110-120	228.93
120-130	347.43
130-140	404.64
140-150	392.32
150-160	322.93
160-170	211.23
170-180	73.45

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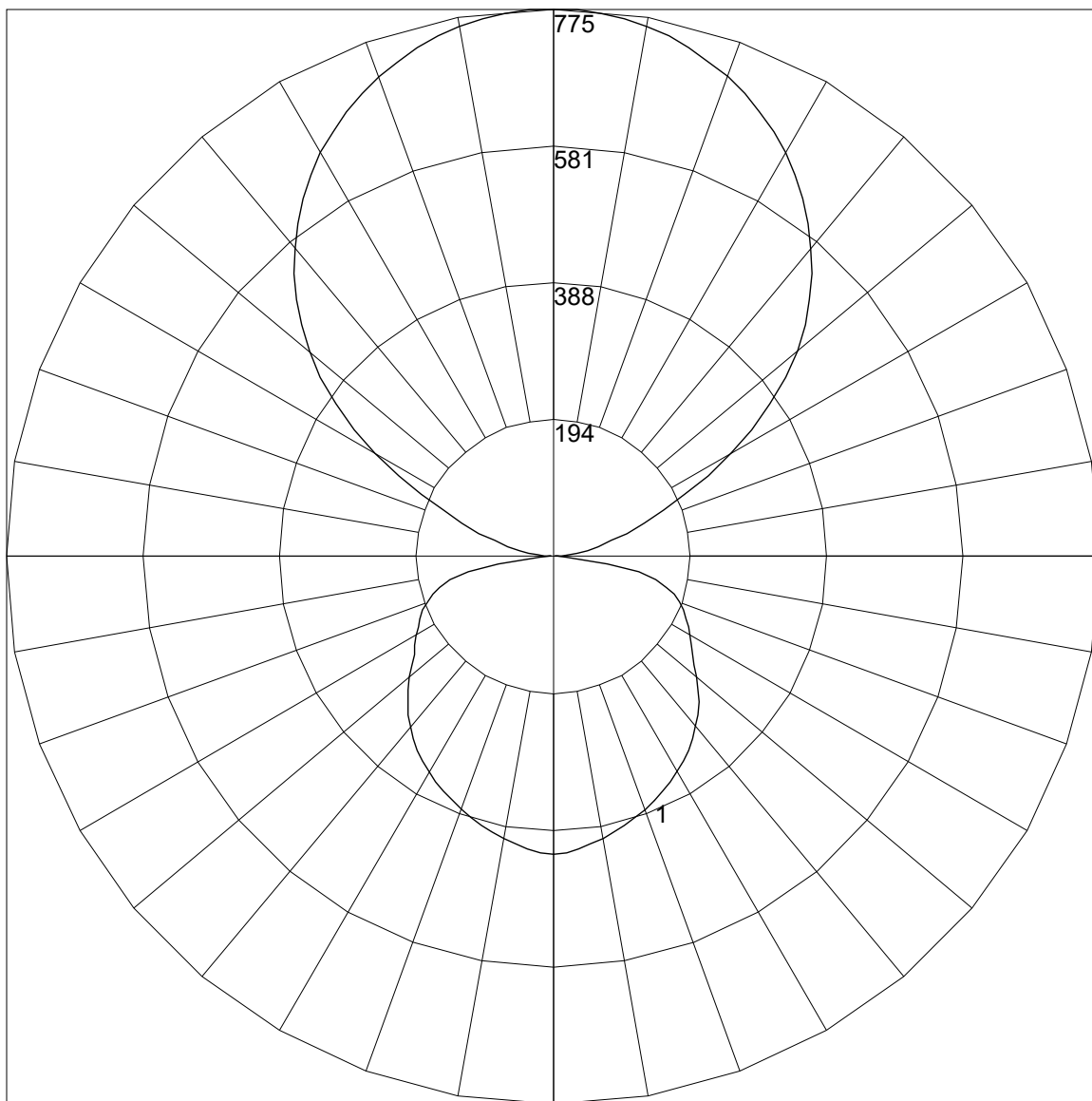
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	39	37	31
2	86	78	72	66	77	71	65	61	58	54	50	45	43	40	34	32	31	25
3	78	68	60	54	70	62	55	50	50	46	42	40	36	33	30	28	26	21
4	71	60	52	46	64	55	48	42	45	39	35	35	31	28	26	24	22	18
5	65	53	45	39	59	48	41	36	40	34	30	31	27	24	24	21	19	15
6	60	47	39	33	54	43	36	31	36	30	26	28	24	21	21	19	16	13
7	55	43	35	29	50	39	32	27	32	27	23	26	21	18	19	17	14	12
8	51	39	31	25	46	35	28	24	29	24	20	23	19	16	18	15	13	10
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	14	11	9
10	44	32	25	20	40	29	23	19	24	19	16	20	16	13	15	12	10	8

POLAR GRAPH



Maximum Candela = 775.28 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)