

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-B-S-835-OPN-ITL89462.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.010 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-B-S-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 33.9 WATTS

[_ABSOLUTE]LUMENS]4054

[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	4054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	31.1
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	388.050
20.0	400.330	389.278	386.003	383.956	381.500
22.5	394.599	381.909	378.635	376.588	374.541
25.0	387.640	373.723	370.858	369.220	367.583
27.5	379.863	365.536	362.671	361.443	359.805
30.0	371.267	356.122	354.075	353.256	352.028
32.5	362.262	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	304.955	304.136
45.0	305.773	291.037	293.493	293.493	292.265
47.5	293.084	278.348	282.441	281.623	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	214.492	220.222	224.316
62.5	201.802	196.481	200.165	211.626	216.129
65.0	184.610	181.745	189.113	203.440	207.942
67.5	167.418	167.009	179.289	194.844	199.756
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	125.257	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	36.022	20.467	10.643	5.321
90.0	0.000	21.695	15.964	8.596	3.275
92.5	7.204	36.021	31.390	22.127	15.438
95.0	20.069	48.886	45.284	34.992	28.302
97.5	39.623	66.382	62.779	51.973	43.740
100.0	63.294	86.965	82.334	69.984	61.750
102.5	90.053	114.238	104.975	92.111	82.848
105.0	122.986	144.084	132.249	118.355	108.063
107.5	161.065	179.076	165.182	149.230	137.909
110.0	203.776	218.699	203.262	184.736	172.901
112.5	250.603	261.924	248.030	225.903	213.039
115.0	300.518	308.752	294.858	273.245	259.351
117.5	351.977	357.123	342.200	324.704	310.810
120.0	404.465	406.008	393.144	378.221	365.356
122.5	454.894	453.865	443.573	428.650	419.902
125.0	503.780	500.178	492.459	480.109	472.904
127.5	549.578	546.490	539.286	528.480	522.819
130.0	592.803	588.686	583.026	572.734	568.103
132.5	633.455	629.339	624.707	614.930	609.270

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-B-S-835-OPN-ITL89462.010.IES****CANDELA TABULATION - (Cont.)**

135.0	671.535	666.903	664.331	653.010	647.349
137.5	707.041	701.895	700.352	689.545	682.856
140.0	739.460	733.285	733.285	722.479	715.789
142.5	769.821	763.646	764.675	754.383	747.179
145.0	798.638	790.919	793.492	784.229	777.025
147.5	824.367	816.133	819.221	810.987	804.298
150.0	847.523	840.319	844.436	835.173	828.998
152.5	869.136	860.388	866.048	857.300	851.640
155.0	886.632	879.942	885.602	876.855	873.252
157.5	904.128	897.438	903.098	894.865	891.778
160.0	920.080	912.875	919.051	911.332	909.273
162.5	932.430	926.255	931.915	926.255	923.682
165.0	943.751	938.605	942.722	939.119	937.061
167.5	953.528	950.440	951.470	950.440	949.411
170.0	961.247	959.188	959.703	959.703	958.674
172.5	966.907	966.393	965.878	966.393	966.393
175.0	971.024	971.538	971.024	971.538	971.538
177.5	973.597	974.111	973.597	973.597	974.111
180.0	974.626	974.626	974.626	974.626	974.626

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-B-S-835-OPN-ITL89462.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	152.50	N.A.	3.80
0-30	324.50	N.A.	8.00
0-40	535.86	N.A.	13.20
0-60	980.07	N.A.	24.20
0-80	1322.57	N.A.	32.60
0-90	1381.22	N.A.	34.10
10-90	1341.58	N.A.	33.10
20-40	383.37	N.A.	9.50
20-50	610.46	N.A.	15.10
40-70	635.31	N.A.	15.70
60-80	342.50	N.A.	8.40
70-80	151.40	N.A.	3.70
80-90	58.65	N.A.	1.40
90-110	182.70	N.A.	4.50
90-120	470.49	N.A.	11.60
90-130	907.26	N.A.	22.40
90-150	1909.13	N.A.	47.10
90-180	2672.97	N.A.	65.90
110-180	2490.27	N.A.	61.40
0-180	4054.19	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	44.37
100-110	138.33
110-120	287.79
120-130	436.77
130-140	508.68
140-150	493.19
150-160	405.96
160-170	265.55
170-180	92.34

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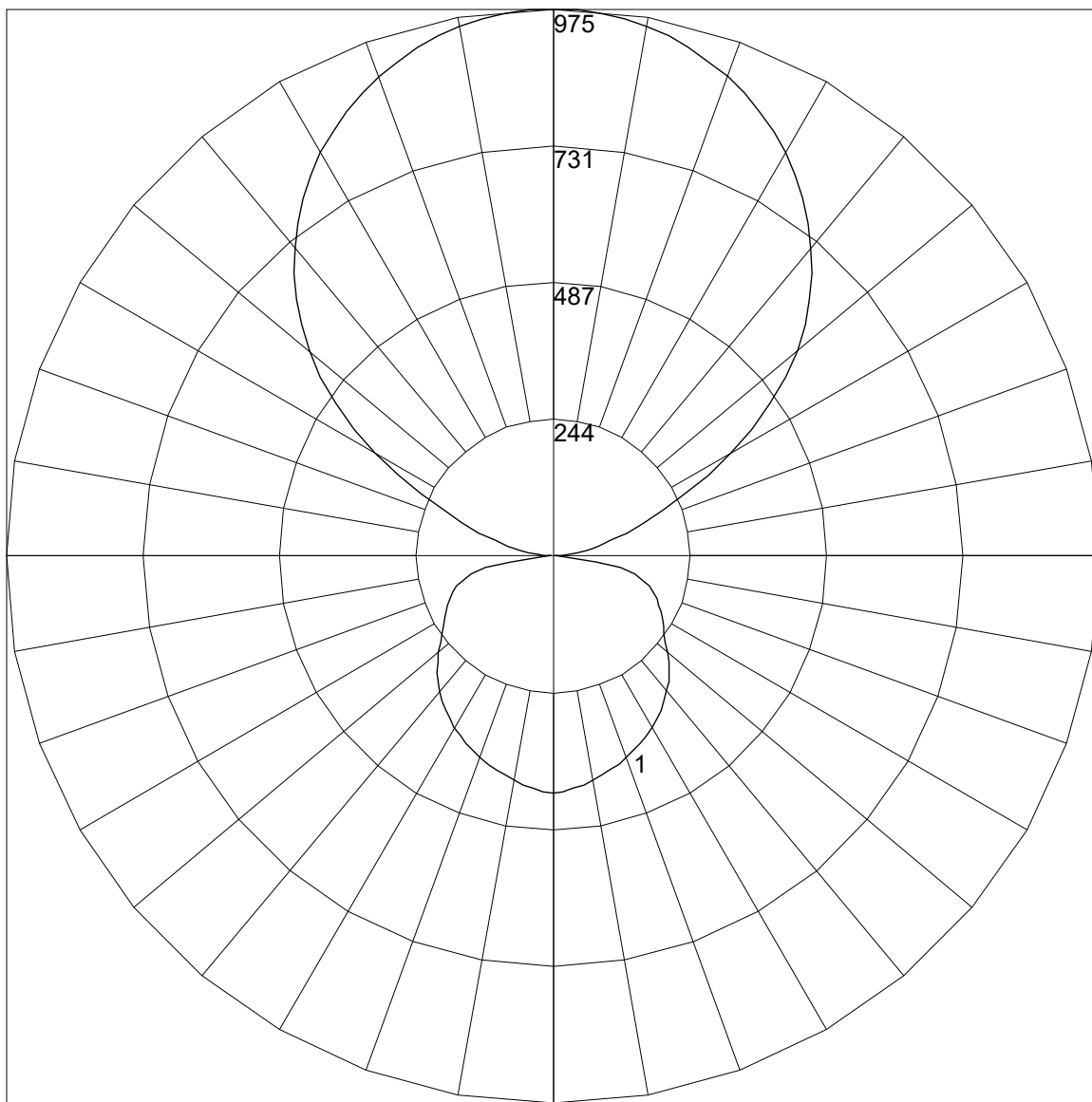
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	89	85	81	84	80	77	74	64	62	60	49	48	46	36	35	34	27
2	85	77	71	66	76	70	64	60	56	52	48	43	40	38	31	29	28	22
3	77	67	60	54	69	61	54	49	49	44	40	37	34	31	27	25	23	18
4	70	59	51	45	63	54	47	41	43	38	34	33	29	27	24	21	19	15
5	64	53	44	38	58	48	41	35	38	33	29	29	26	23	21	19	17	13
6	59	47	39	33	53	43	36	30	34	29	25	26	23	20	19	17	15	11
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	17	15	13	10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	13	11	9
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	15	12	10	8
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	14	11	9	7

POLAR GRAPH



Maximum Candela = 974.626 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)