

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-V-S-835-OPN-ITL89462.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.004 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-V-S-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 48.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 51.1 WATTS

[_ABSOLUTE]LUMENS]6574

[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	6574
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	48.7
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	14.000	70.000	61.000	43.000	30.000
95.0	39.000	95.000	88.000	68.000	55.000
97.5	77.000	129.000	122.000	101.000	85.000
100.0	123.000	169.000	160.000	136.000	120.000
102.5	175.000	222.000	204.000	179.000	161.000
105.0	239.000	280.000	257.000	230.000	210.000
107.5	313.000	348.000	321.000	290.000	268.000
110.0	396.000	425.000	395.000	359.000	336.000
112.5	487.000	509.000	482.000	439.000	414.000
115.0	584.000	600.000	573.000	531.000	504.000
117.5	684.000	694.000	665.000	631.000	604.000
120.0	786.000	789.000	764.000	735.000	710.000
122.5	884.000	882.000	862.000	833.000	816.000
125.0	979.000	972.000	957.000	933.000	919.000
127.5	1068.000	1062.000	1048.000	1027.000	1016.000
130.0	1152.000	1144.000	1133.000	1113.000	1104.000
132.5	1231.000	1223.000	1214.000	1195.000	1184.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-V-S-835-OPN-ITL89462.004.IES****CANDELA TABULATION - (Cont.)**

135.0	1305.000	1296.000	1291.000	1269.000	1258.000
137.5	1374.000	1364.000	1361.000	1340.000	1327.000
140.0	1437.000	1425.000	1425.000	1404.000	1391.000
142.5	1496.000	1484.000	1486.000	1466.000	1452.000
145.0	1552.000	1537.000	1542.000	1524.000	1510.000
147.5	1602.000	1586.000	1592.000	1576.000	1563.000
150.0	1647.000	1633.000	1641.000	1623.000	1611.000
152.5	1689.000	1672.000	1683.000	1666.000	1655.000
155.0	1723.000	1710.000	1721.000	1704.000	1697.000
157.5	1757.000	1744.000	1755.000	1739.000	1733.000
160.0	1788.000	1774.000	1786.000	1771.000	1767.000
162.5	1812.000	1800.000	1811.000	1800.000	1795.000
165.0	1834.000	1824.000	1832.000	1825.000	1821.000
167.5	1853.000	1847.000	1849.000	1847.000	1845.000
170.0	1868.000	1864.000	1865.000	1865.000	1863.000
172.5	1879.000	1878.000	1877.000	1878.000	1878.000
175.0	1887.000	1888.000	1887.000	1888.000	1888.000
177.5	1892.000	1893.000	1892.000	1892.000	1893.000
180.0	1894.000	1894.000	1894.000	1894.000	1894.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-V-S-835-OPN-ITL89462.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	152.50	N.A.	2.30
0-30	324.50	N.A.	4.90
0-40	535.86	N.A.	8.20
0-60	980.07	N.A.	14.90
0-80	1322.57	N.A.	20.10
0-90	1381.22	N.A.	21.00
10-90	1341.58	N.A.	20.40
20-40	383.37	N.A.	5.80
20-50	610.46	N.A.	9.30
40-70	635.31	N.A.	9.70
60-80	342.50	N.A.	5.20
70-80	151.40	N.A.	2.30
80-90	58.65	N.A.	0.90
90-110	353.50	N.A.	5.40
90-120	912.77	N.A.	13.90
90-130	1761.54	N.A.	26.80
90-150	3708.49	N.A.	56.40
90-180	5192.86	N.A.	79.00
110-180	4839.37	N.A.	73.60
0-180	6574.08	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	84.68
100-110	268.82
110-120	559.27
120-130	848.77
130-140	988.52
140-150	958.43
150-160	788.90
160-170	516.04
170-180	179.44

IES INDOOR REPORT

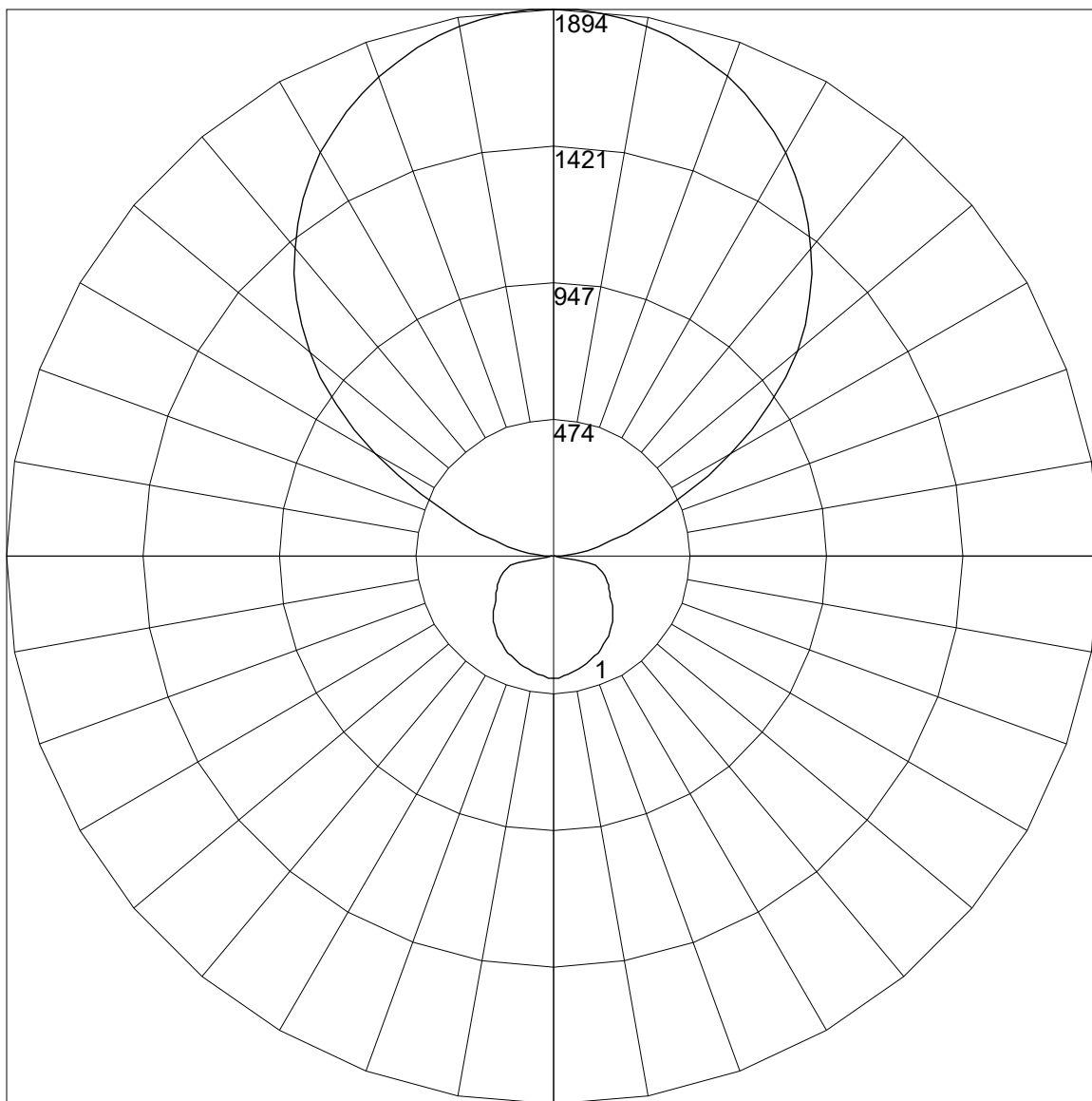
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	89	89	89	89	67	67	67	48	48	48	29	29	29	21
1	91	87	83	79	80	77	73	71	58	56	54	41	40	39	25	25	24	17
2	82	75	69	64	73	67	62	57	50	47	44	36	34	32	22	21	20	14
3	75	66	59	53	66	58	52	47	44	40	37	31	29	26	19	18	16	11
4	68	58	50	44	60	51	45	40	39	35	31	28	25	22	17	15	14	9
5	63	51	43	38	55	46	39	34	35	30	26	25	22	19	15	13	12	8
6	57	46	38	32	51	41	34	29	31	26	23	22	19	17	14	12	10	7
7	53	41	33	28	47	37	30	25	28	23	20	20	17	14	12	11	9	6
8	49	37	30	24	43	33	27	22	25	21	17	18	15	13	11	10	8	5
9	45	34	26	22	40	30	24	19	23	19	15	17	14	11	10	9	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	10	8	7	4

POLAR GRAPH



Maximum Candela = 1894 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)