

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-B-835-OPN-ITL89462.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.005 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-B-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 52.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 54.7 WATTS

[_ABSOLUTE]LUMENS]6930

[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	6930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	52.4
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	5591	3625	3231
55	5526	3221	2784
65	5380	2782	2595
75	5062	2584	2338
85	3841	1207	326

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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	531.053	531.053	531.053	531.053	531.053
2.5	530.538	530.024	528.994	528.480	527.965
5.0	528.994	527.451	524.878	522.819	522.819
7.5	526.936	523.849	519.732	517.159	516.644
10.0	523.849	518.703	514.586	511.498	509.955
12.5	520.246	512.528	507.896	504.809	502.236
15.0	515.615	505.324	501.207	497.605	495.032
17.5	509.955	497.605	493.488	489.886	487.827
20.0	503.265	489.371	485.255	482.682	479.594
22.5	496.061	480.109	475.992	473.419	470.846
25.0	487.313	469.817	466.215	464.157	462.098
27.5	477.536	459.525	455.923	454.379	452.321
30.0	466.729	447.690	445.117	444.088	442.544
32.5	455.409	435.854	433.281	432.767	431.738
35.0	443.058	422.990	421.446	421.961	420.931
37.5	428.650	409.610	408.581	409.610	408.581
40.0	414.756	395.717	396.231	396.746	395.717
42.5	400.348	380.794	382.852	383.367	382.337
45.0	384.396	365.871	368.958	368.958	367.414
47.5	368.444	349.918	355.064	354.035	351.462
50.0	350.948	333.966	339.627	337.568	334.995
52.5	332.937	317.500	323.160	320.072	316.985
55.0	313.897	300.004	306.179	301.033	303.091
57.5	294.858	283.022	288.683	288.683	292.799
60.0	274.274	265.526	269.643	276.847	281.993
62.5	253.691	247.001	251.633	266.041	271.701
65.0	232.078	228.476	237.739	255.749	261.410
67.5	210.466	209.951	225.389	244.943	251.118
70.0	188.339	190.911	213.553	234.137	239.282
72.5	165.697	171.357	202.232	221.787	225.903
75.0	142.540	153.347	189.368	206.864	209.436
77.5	118.869	139.453	175.474	187.309	188.339
80.0	95.713	126.588	157.463	158.493	154.376
82.5	72.042	113.209	128.132	109.607	98.286
85.0	47.342	93.140	71.013	34.992	24.700
87.5	22.127	45.284	25.729	13.379	6.690
90.0	0.000	27.273	20.069	10.806	4.117
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
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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-B-835-OPN-ITL89462.005.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	191.71	N.A.	2.80
0-30	407.94	N.A.	5.90
0-40	673.65	N.A.	9.70
0-60	1232.07	N.A.	17.80
0-80	1662.64	N.A.	24.00
0-90	1736.36	N.A.	25.10
10-90	1686.53	N.A.	24.30
20-40	481.94	N.A.	7.00
20-50	767.42	N.A.	11.10
40-70	798.66	N.A.	11.50
60-80	430.57	N.A.	6.20
70-80	190.33	N.A.	2.70
80-90	73.73	N.A.	1.10
90-110	353.92	N.A.	5.10
90-120	913.19	N.A.	13.20
90-130	1761.96	N.A.	25.40
90-150	3708.91	N.A.	53.50
90-180	5193.29	N.A.	74.90
110-180	4839.37	N.A.	69.80
0-180	6929.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.83
10-20	141.88
20-30	216.23
30-40	265.71
40-50	285.48
50-60	272.94
60-70	240.24
70-80	190.33
80-90	73.73
90-100	85.10
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

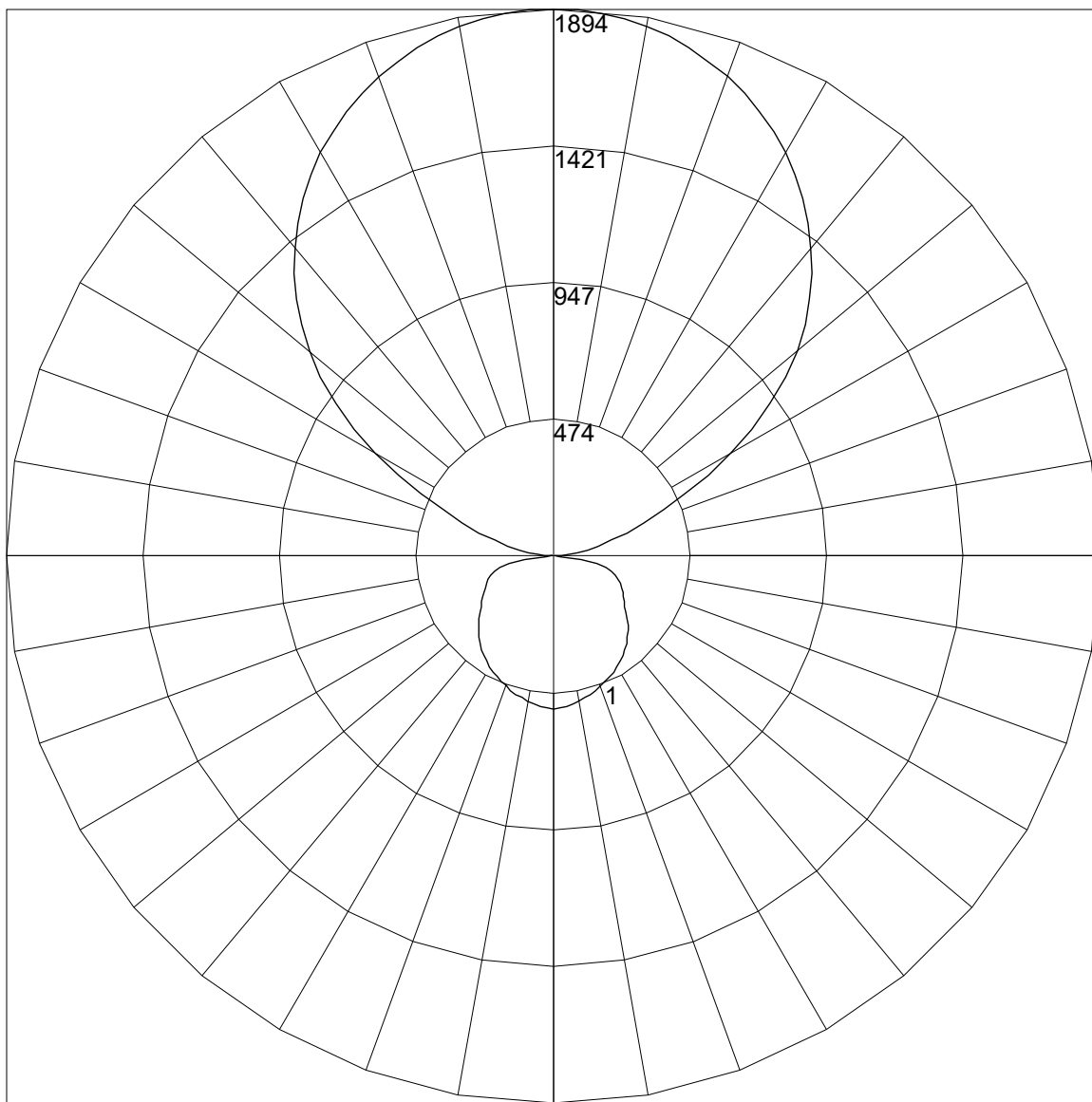
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	92	87	83	80	81	78	74	72	60	58	56	44	42	41	28	28	27	20
2	83	76	70	65	74	68	62	58	52	49	46	38	36	34	25	23	22	16
3	76	66	59	53	67	59	53	48	46	41	38	33	30	28	22	20	18	13
4	69	58	51	45	61	52	45	40	40	36	32	29	26	24	19	17	16	11
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13	10
6	58	46	38	33	51	41	34	30	32	27	23	23	20	18	15	13	12	8
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10	7
8	49	37	30	25	44	34	27	22	26	21	18	19	16	14	13	11	9	7
9	46	34	27	22	41	30	24	20	24	19	16	18	14	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	7	5

POLAR GRAPH



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