

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-H-835-OPN-ITL89462.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.006 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-H-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 61.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 63.7 WATTS

[_ABSOLUTE]LUMENS]7819

[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	7819
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	61.9
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	8450	5479	4884
55	8351	4868	4207
65	8130	4204	3921
75	7650	3906	3534
85	5805	1824	493

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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	802.600	802.600	802.600	802.600	802.600
2.5	801.822	801.044	799.489	798.711	797.933
5.0	799.489	797.156	793.267	790.156	790.156
7.5	796.378	791.712	785.490	781.602	780.824
10.0	791.712	783.935	777.713	773.047	770.714
12.5	786.268	774.602	767.603	762.937	759.048
15.0	779.268	763.714	757.492	752.048	748.160
17.5	770.714	752.048	745.827	740.383	737.272
20.0	760.603	739.605	733.383	729.495	724.828
22.5	749.715	725.606	719.385	715.496	711.607
25.0	736.494	710.052	704.608	701.497	698.386
27.5	721.718	694.498	689.054	686.721	683.610
30.0	705.386	676.610	672.722	671.166	668.833
32.5	688.276	658.723	654.834	654.057	652.501
35.0	669.611	639.280	636.947	637.725	636.169
37.5	647.835	619.060	617.504	619.060	617.504
40.0	626.837	598.061	598.839	599.617	598.061
42.5	605.061	575.508	578.619	579.396	577.841
45.0	580.952	552.954	557.620	557.620	555.287
47.5	556.842	528.845	536.622	535.067	531.178
50.0	530.400	504.736	513.291	510.180	506.291
52.5	503.180	479.849	488.404	483.738	479.071
55.0	474.405	453.407	462.739	454.962	458.073
57.5	445.630	427.742	436.297	436.297	442.519
60.0	414.521	401.300	407.522	418.410	426.187
62.5	383.413	373.302	380.302	402.078	410.632
65.0	350.749	345.305	359.303	386.523	395.078
67.5	318.085	317.307	340.638	370.191	379.524
70.0	284.643	288.531	322.751	353.859	361.637
72.5	250.424	258.978	305.641	335.194	341.416
75.0	215.427	231.758	286.198	312.641	316.529
77.5	179.652	210.760	265.200	283.087	284.643
80.0	144.655	191.317	237.980	239.536	233.314
82.5	108.880	171.097	193.650	165.653	148.543
85.0	71.550	140.766	107.324	52.885	37.330
87.5	33.442	68.439	38.886	20.221	10.110
90.0	0.000	41.219	30.331	16.332	6.222
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-H-835-OPN-ITL89462.006.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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	289.74	N.A.	3.70
0-30	616.53	N.A.	7.90
0-40	1018.11	N.A.	13.00
0-60	1862.07	N.A.	23.80
0-80	2512.81	N.A.	32.10
0-90	2624.23	N.A.	33.60
10-90	2548.92	N.A.	32.60
20-40	728.37	N.A.	9.30
20-50	1159.83	N.A.	14.80
40-70	1207.05	N.A.	15.40
60-80	650.73	N.A.	8.30
70-80	287.65	N.A.	3.70
80-90	111.42	N.A.	1.40
90-110	354.97	N.A.	4.50
90-120	914.24	N.A.	11.70
90-130	1763.02	N.A.	22.50
90-150	3709.96	N.A.	47.50
90-180	5194.34	N.A.	66.40
110-180	4839.37	N.A.	61.90
0-180	7818.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

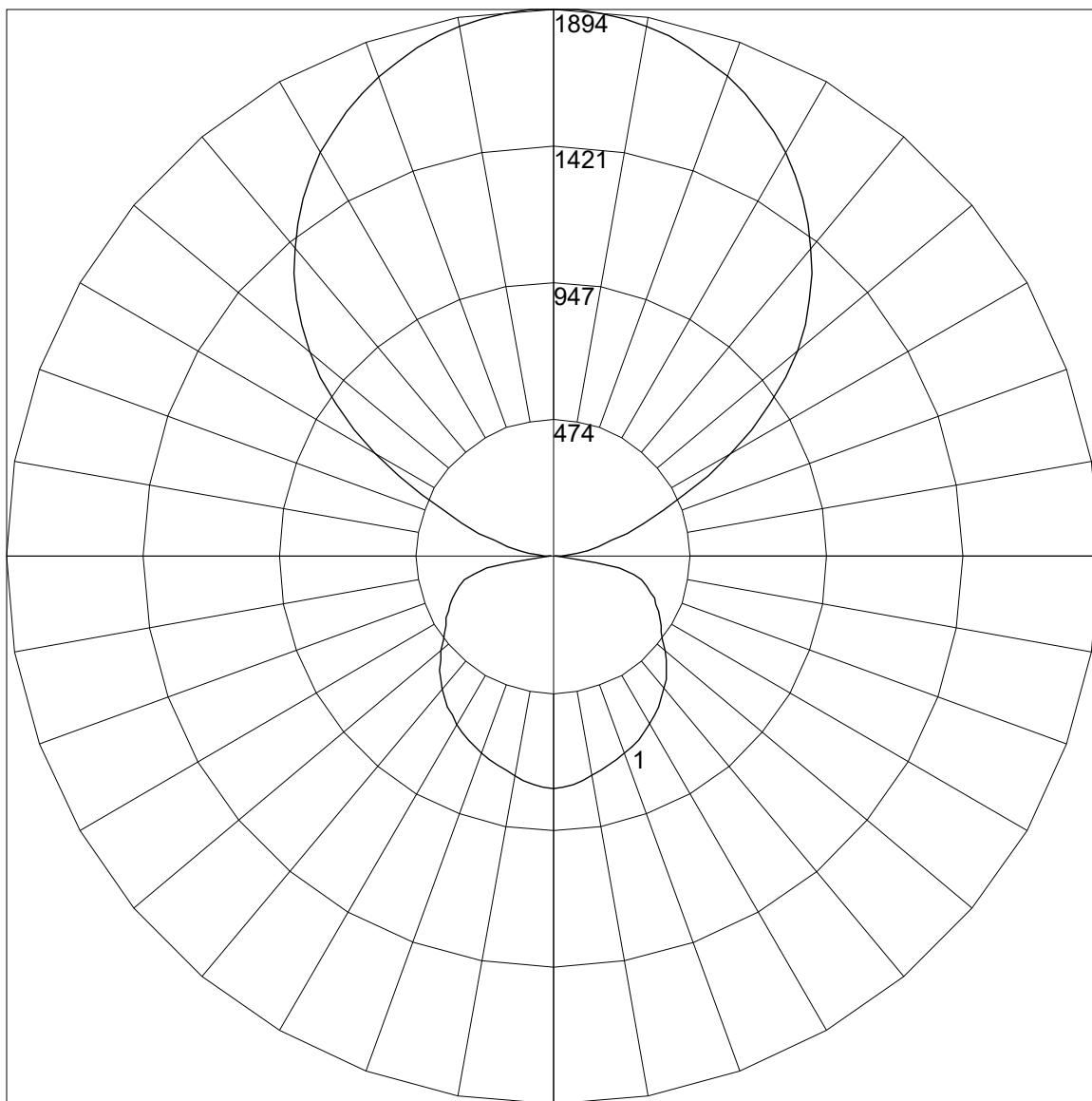
Zone	Lumens
0-10	75.31
10-20	214.42
20-30	326.79
30-40	401.58
40-50	431.46
50-60	412.51
60-70	363.08
70-80	287.65
80-90	111.42
90-100	86.15
100-110	268.82
110-120	559.27
120-130	848.77
130-140	988.52
140-150	958.43
150-160	788.90
160-170	516.04
170-180	179.44

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	93	89	85	81	84	80	77	74	64	61	59	49	47	46	35	34	33	27
2	85	77	71	65	76	70	64	60	55	52	48	42	40	38	30	29	27	22
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	27	24	23	18
4	70	59	51	45	63	54	47	41	43	38	34	33	29	26	23	21	19	15
5	64	53	44	38	57	48	40	35	38	33	29	29	26	23	21	19	17	13
6	59	47	39	33	53	43	35	30	34	29	25	26	23	20	19	16	14	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	20	26	20	17	20	16	14	15	12	10	8
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	9	7

POLAR GRAPH



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