

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-H-V-835-OPN-ITL89462.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.009 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-H-V-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 61.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 63.7 WATTS

[_ABSOLUTE]LUMENS]7416

[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	7416
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	61.9
Ballast Factor	1.00
CIE Type	General Diffuse
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	10865	7045	6280
55	10738	6259	5410
65	10454	5405	5042
75	9836	5022	4544
85	7464	2345	634

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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	1032.000	1032.000	1032.000	1032.000	1032.000
2.5	1031.000	1030.000	1028.000	1027.000	1026.000
5.0	1028.000	1025.000	1020.000	1016.000	1016.000
7.5	1024.000	1018.000	1010.000	1005.000	1004.000
10.0	1018.000	1008.000	1000.000	994.000	991.000
12.5	1011.000	996.000	987.000	981.000	976.000
15.0	1002.000	982.000	974.000	967.000	962.000
17.5	991.000	967.000	959.000	952.000	948.000
20.0	978.000	951.000	943.000	938.000	932.000
22.5	964.000	933.000	925.000	920.000	915.000
25.0	947.000	913.000	906.000	902.000	898.000
27.5	928.000	893.000	886.000	883.000	879.000
30.0	907.000	870.000	865.000	863.000	860.000
32.5	885.000	847.000	842.000	841.000	839.000
35.0	861.000	822.000	819.000	820.000	818.000
37.5	833.000	796.000	794.000	796.000	794.000
40.0	806.000	769.000	770.000	771.000	769.000
42.5	778.000	740.000	744.000	745.000	743.000
45.0	747.000	711.000	717.000	717.000	714.000
47.5	716.000	680.000	690.000	688.000	683.000
50.0	682.000	649.000	660.000	656.000	651.000
52.5	647.000	617.000	628.000	622.000	616.000
55.0	610.000	583.000	595.000	585.000	589.000
57.5	573.000	550.000	561.000	561.000	569.000
60.0	533.000	516.000	524.000	538.000	548.000
62.5	493.000	480.000	489.000	517.000	528.000
65.0	451.000	444.000	462.000	497.000	508.000
67.5	409.000	408.000	438.000	476.000	488.000
70.0	366.000	371.000	415.000	455.000	465.000
72.5	322.000	333.000	393.000	431.000	439.000
75.0	277.000	298.000	368.000	402.000	407.000
77.5	231.000	271.000	341.000	364.000	366.000
80.0	186.000	246.000	306.000	308.000	300.000
82.5	140.000	220.000	249.000	213.000	191.000
85.0	92.000	181.000	138.000	68.000	48.000
87.5	43.000	88.000	50.000	26.000	13.000
90.0	0.000	53.000	39.000	21.000	8.000
92.5	10.888	54.440	47.441	33.442	23.331
95.0	30.331	73.883	68.439	52.885	42.774
97.5	59.884	100.325	94.881	78.549	66.106
100.0	95.659	131.434	124.434	105.769	93.326
102.5	136.100	172.652	158.654	139.211	125.212
105.0	185.873	217.760	199.872	178.874	163.320
107.5	243.424	270.644	249.646	225.537	208.427
110.0	307.974	330.528	307.197	279.199	261.312
112.5	378.746	395.856	374.858	341.416	321.973
115.0	454.184	466.628	445.630	412.966	391.967
117.5	531.956	539.733	517.179	490.737	469.739
120.0	611.282	613.615	594.173	571.619	552.176
122.5	687.498	685.943	670.389	647.835	634.614
125.0	761.381	755.937	744.271	725.606	714.718
127.5	830.597	825.931	815.043	798.711	790.156
130.0	895.925	889.704	881.149	865.595	858.595
132.5	957.365	951.143	944.144	929.367	920.812

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-UD-RO-4FT-H-V-835-OPN-ITL89462.009.IES****CANDELA TABULATION - (Cont.)**

135.0	1014.915	1007.916	1004.028	986.918	978.363
137.5	1068.578	1060.801	1058.467	1042.135	1032.025
140.0	1117.574	1108.241	1108.241	1091.909	1081.799
142.5	1163.459	1154.126	1155.681	1140.127	1129.239
145.0	1207.011	1195.345	1199.233	1185.235	1174.347
147.5	1245.896	1233.453	1238.119	1225.676	1215.565
150.0	1280.893	1270.005	1276.227	1262.228	1252.896
152.5	1313.557	1300.336	1308.891	1295.670	1287.115
155.0	1339.999	1329.889	1338.444	1325.223	1319.779
157.5	1366.442	1356.331	1364.886	1352.443	1347.777
160.0	1390.551	1379.663	1388.995	1377.330	1374.219
162.5	1409.216	1399.883	1408.438	1399.883	1395.995
165.0	1426.326	1418.549	1424.770	1419.326	1416.215
167.5	1441.102	1436.436	1437.991	1436.436	1434.880
170.0	1452.768	1449.657	1450.435	1450.435	1448.879
172.5	1461.323	1460.545	1459.767	1460.545	1460.545
175.0	1467.544	1468.322	1467.544	1468.322	1468.322
177.5	1471.433	1472.211	1471.433	1471.433	1472.211
180.0	1472.988	1472.988	1472.988	1472.988	1472.988

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	372.55	N.A.	5.00
0-30	792.74	N.A.	10.70
0-40	1309.11	N.A.	17.70
0-60	2394.3	N.A.	32.30
0-80	3231.02	N.A.	43.60
0-90	3374.29	N.A.	45.50
10-90	3277.45	N.A.	44.20
20-40	936.56	N.A.	12.60
20-50	1491.33	N.A.	20.10
40-70	1552.05	N.A.	20.90
60-80	836.72	N.A.	11.30
70-80	369.86	N.A.	5.00
80-90	143.27	N.A.	1.90
90-110	277.65	N.A.	3.70
90-120	712.60	N.A.	9.60
90-130	1372.7	N.A.	18.50
90-150	2886.87	N.A.	38.90
90-180	4041.29	N.A.	54.50
110-180	3763.64	N.A.	50.80
0-180	7415.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.84
10-20	275.71
20-30	420.20
30-40	516.36
40-50	554.78
50-60	530.41
60-70	466.86
70-80	369.86
80-90	143.27
90-100	68.59
100-110	209.07
110-120	434.95
120-130	660.10
130-140	768.78
140-150	745.38
150-160	613.54
160-170	401.33
170-180	139.55

IES INDOOR REPORT

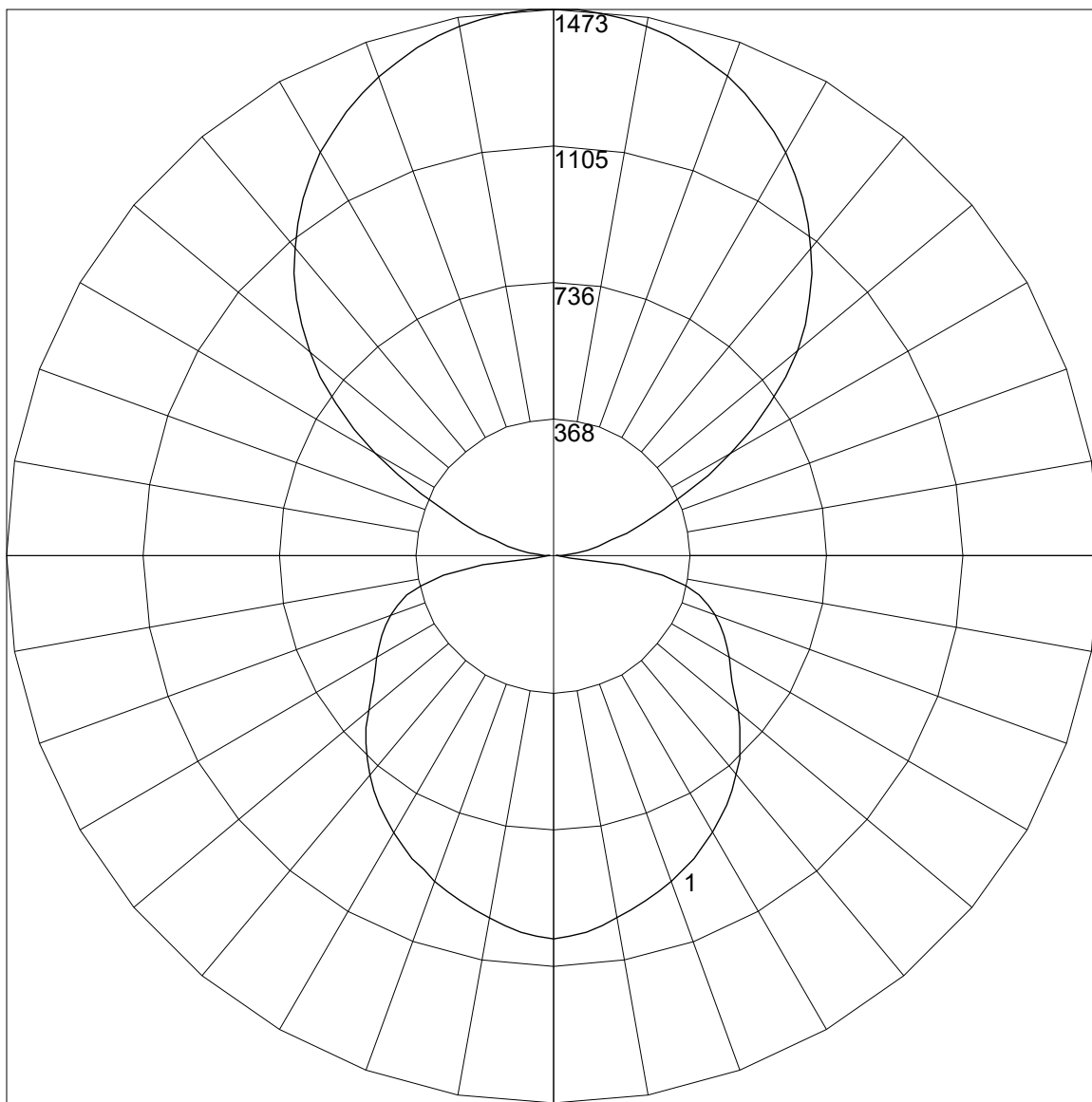
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	96	91	87	83	88	84	80	77	69	67	64	56	55	53	44	43	42	36
2	87	79	72	67	79	72	67	62	60	56	52	49	46	43	38	36	34	29
3	79	69	61	55	72	63	56	51	52	47	43	43	39	36	33	31	29	24
4	72	61	52	46	65	56	48	43	46	41	36	38	34	30	30	27	24	20
5	66	54	45	39	60	49	42	36	41	36	31	34	29	26	27	23	21	17
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18	15
7	56	43	35	29	51	40	33	27	33	28	24	27	23	20	22	19	16	13
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14	12
9	48	36	28	23	44	33	26	21	28	22	19	23	19	16	18	15	13	11
10	45	33	25	20	41	30	24	19	26	20	17	21	17	14	17	14	12	10

POLAR GRAPH



Maximum Candela = 1472.988 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)