

# 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-B-835-OPN-ITL89462.008.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.008 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-B-835-OPN

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 44.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 46.5 WATTS

[\_ABSOLUTE]LUMENS]5776

[OTHER]see [www.finelite.com](http://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](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	5776
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	44.3
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	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

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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	191.71	N.A.	3.30
0-30	407.94	N.A.	7.10
0-40	673.65	N.A.	11.70
0-60	1232.07	N.A.	21.30
0-80	1662.64	N.A.	28.80
0-90	1736.36	N.A.	30.10
10-90	1686.53	N.A.	29.20
20-40	481.94	N.A.	8.30
20-50	767.42	N.A.	13.30
40-70	798.66	N.A.	13.80
60-80	430.57	N.A.	7.50
70-80	190.33	N.A.	3.30
80-90	73.73	N.A.	1.30
90-110	275.71	N.A.	4.80
90-120	710.66	N.A.	12.30
90-130	1370.76	N.A.	23.70
90-150	2884.93	N.A.	49.90
90-180	4039.34	N.A.	69.90
110-180	3763.64	N.A.	65.20
0-180	5775.71	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	66.64
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

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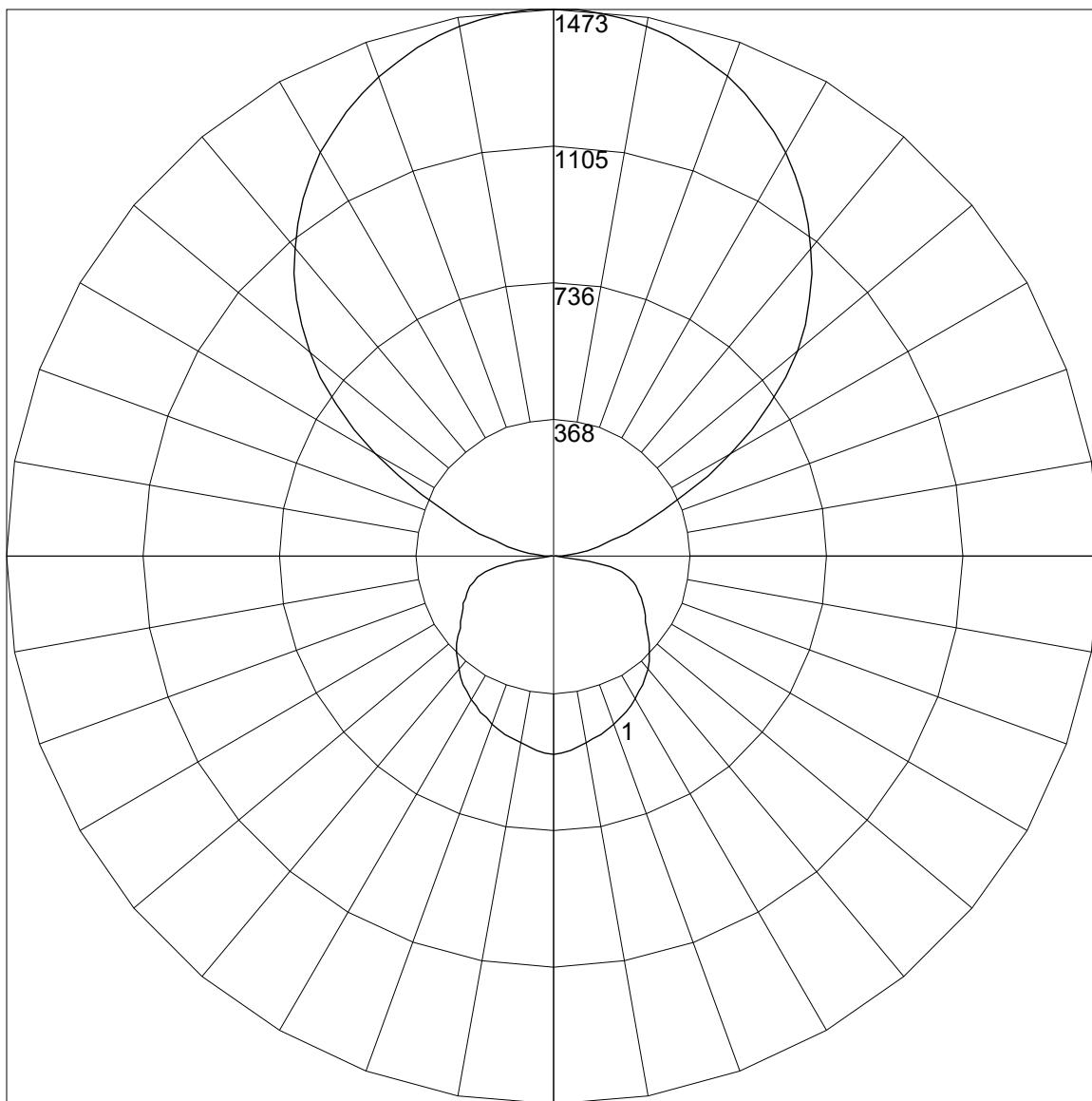
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	32	31	31	24
2	84	77	70	65	75	69	63	59	54	50	47	40	38	36	28	26	25	19
3	76	67	60	54	68	60	54	49	47	43	39	35	32	30	24	23	21	16
4	70	59	51	45	62	53	46	41	42	37	33	31	28	25	22	20	18	14
5	64	52	44	38	57	47	40	35	37	32	28	28	24	22	19	17	15	12
6	59	47	39	33	52	42	35	30	33	28	24	25	22	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	23	19	16	16	14	12	9
8	50	38	30	25	45	34	28	23	27	22	19	21	17	15	15	12	10	8
9	46	34	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9	7
10	43	31	24	20	39	28	22	18	23	18	15	17	14	12	12	10	8	6

POLAR GRAPH



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