

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-H-835-OPN-ITL89462.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89462.001 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-H-835-OPN

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 55.5 WATTS

[_ABSOLUTE]LUMENS]6665

[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	6665
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	53.7
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	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	781.601	780.824
10.0	791.712	783.935	777.713	773.047	770.713
12.5	786.268	774.602	767.603	762.936	759.048
15.0	779.268	763.714	757.492	752.048	748.160
17.5	770.713	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	719.384	715.496	711.607
25.0	736.494	710.052	704.608	701.497	698.386
27.5	721.718	694.498	689.054	686.720	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	619.059	617.504	619.059	617.504
40.0	626.837	598.061	598.839	599.617	598.061
42.5	605.061	575.508	578.618	579.396	577.841
45.0	580.952	552.954	557.620	557.620	555.287
47.5	556.842	528.845	536.622	535.066	531.178
50.0	530.400	504.736	513.291	510.180	506.291
52.5	503.180	479.849	488.404	483.737	479.071
55.0	474.405	453.407	462.739	454.962	458.073
57.5	445.629	427.742	436.297	436.297	442.519
60.0	414.521	401.300	407.522	418.410	426.187
62.5	383.412	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	361.636
72.5	250.424	258.978	305.641	335.194	341.416
75.0	215.426	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	193.651	165.653	148.543
85.0	71.550	140.766	107.324	52.884	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	10.888	54.440	47.440	33.442	23.331
95.0	30.331	73.883	68.439	52.884	42.774
97.5	59.884	100.325	94.881	78.549	66.106
100.0	95.659	131.433	124.434	105.769	93.326
102.5	136.100	172.652	158.653	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	445.629	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	865.594	858.595
132.5	957.365	951.143	944.143	929.367	920.812

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CANDELA TABULATION - (Cont.)

135.0	1014.915	1007.916	1004.027	986.918	978.363
137.5	1068.577	1060.800	1058.467	1042.135	1032.025
140.0	1117.573	1108.241	1108.241	1091.909	1081.799
142.5	1163.458	1154.126	1155.681	1140.127	1129.239
145.0	1207.010	1195.345	1199.233	1185.234	1174.346
147.5	1245.896	1233.453	1238.119	1225.676	1215.565
150.0	1280.893	1270.005	1276.227	1262.228	1252.895
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	1347.776
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	1426.325	1418.548	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	1472.210	1471.433	1471.433	1472.210
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	289.74	N.A.	4.30
0-30	616.53	N.A.	9.30
0-40	1018.11	N.A.	15.30
0-60	1862.07	N.A.	27.90
0-80	2512.8	N.A.	37.70
0-90	2624.23	N.A.	39.40
10-90	2548.92	N.A.	38.20
20-40	728.37	N.A.	10.90
20-50	1159.83	N.A.	17.40
40-70	1207.05	N.A.	18.10
60-80	650.73	N.A.	9.80
70-80	287.65	N.A.	4.30
80-90	111.42	N.A.	1.70
90-110	276.76	N.A.	4.20
90-120	711.71	N.A.	10.70
90-130	1371.81	N.A.	20.60
90-150	2885.98	N.A.	43.30
90-180	4040.4	N.A.	60.60
110-180	3763.64	N.A.	56.50
0-180	6664.63	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	67.69
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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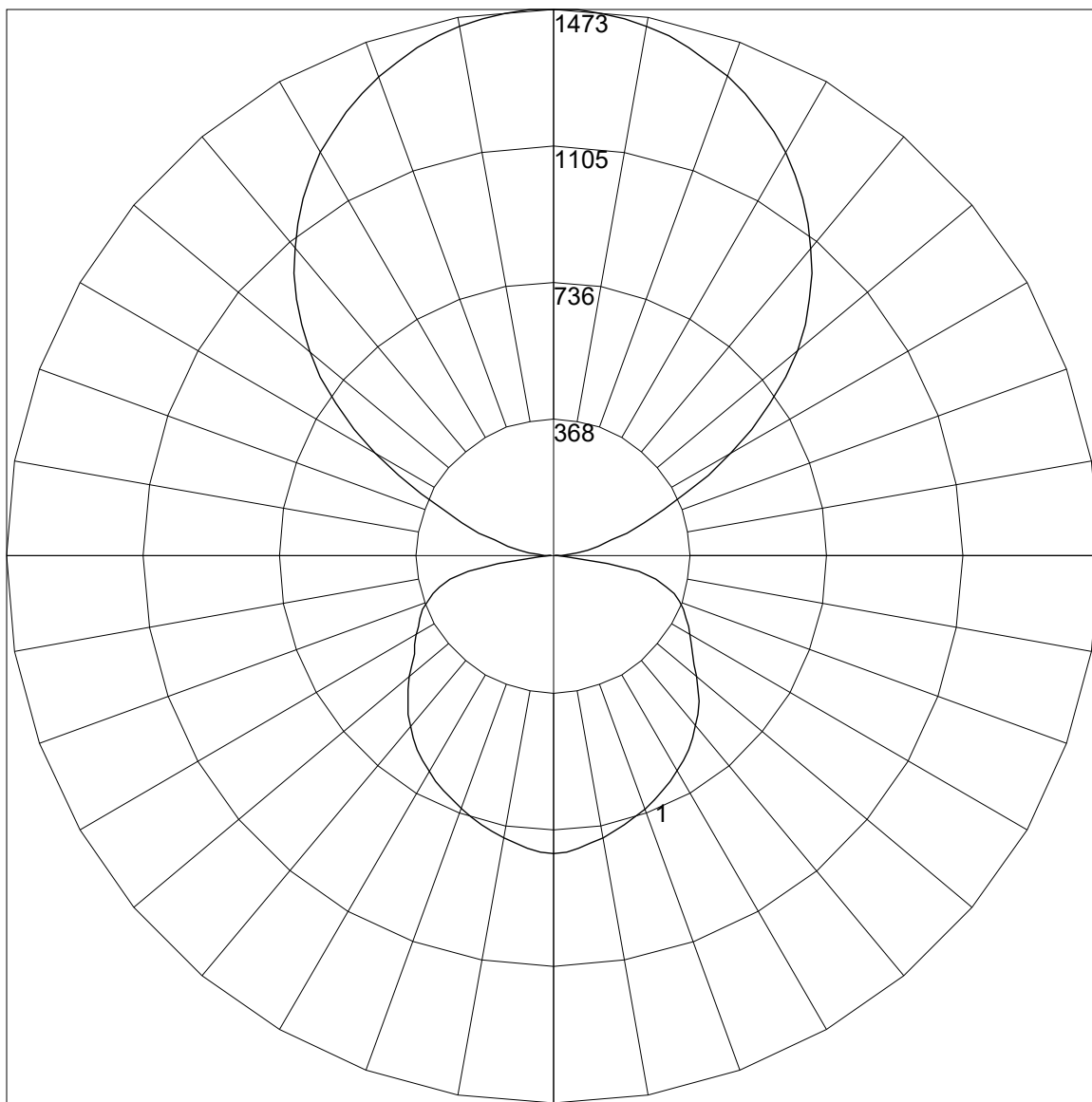
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	39	37	31
2	86	78	72	66	77	71	65	61	58	54	50	45	43	40	34	32	31	25
3	78	68	60	54	70	62	55	50	50	46	42	40	36	33	30	28	26	21
4	71	60	52	46	64	55	48	42	45	39	35	35	31	28	26	24	22	18
5	65	53	45	39	59	48	41	36	40	34	30	31	27	24	24	21	19	15
6	60	47	39	33	54	43	36	31	36	30	26	28	24	21	21	19	16	13
7	55	43	35	29	50	39	32	27	32	27	23	26	21	18	19	17	14	12
8	51	39	31	25	46	35	28	24	29	24	20	23	19	16	18	15	13	10
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	14	11	9
10	44	32	25	20	40	29	23	19	24	19	16	20	16	13	15	12	10	8

POLAR GRAPH



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