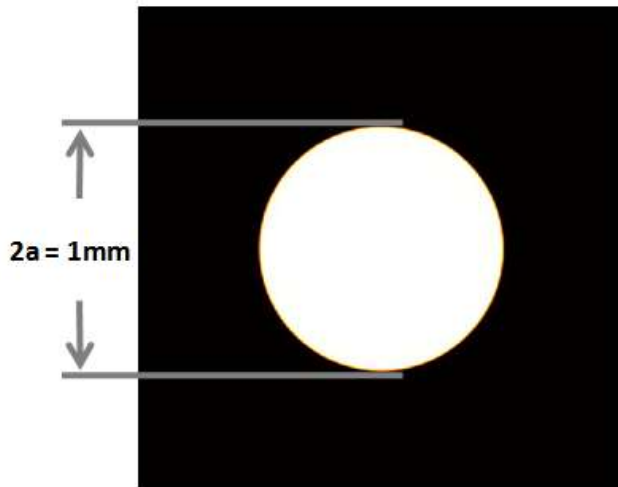


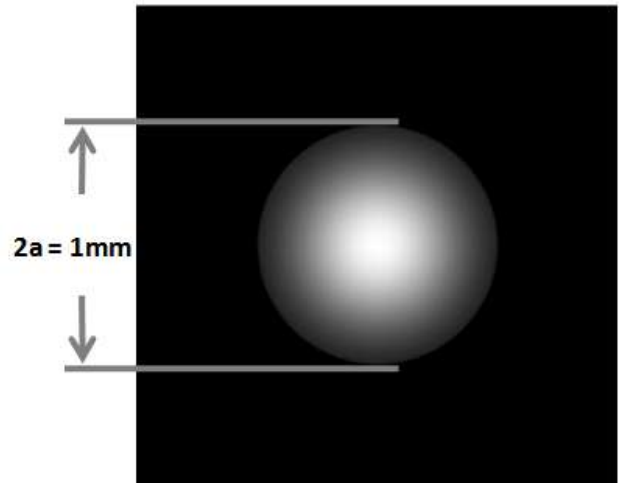
Fresnel Atlas

Aperture Geometries

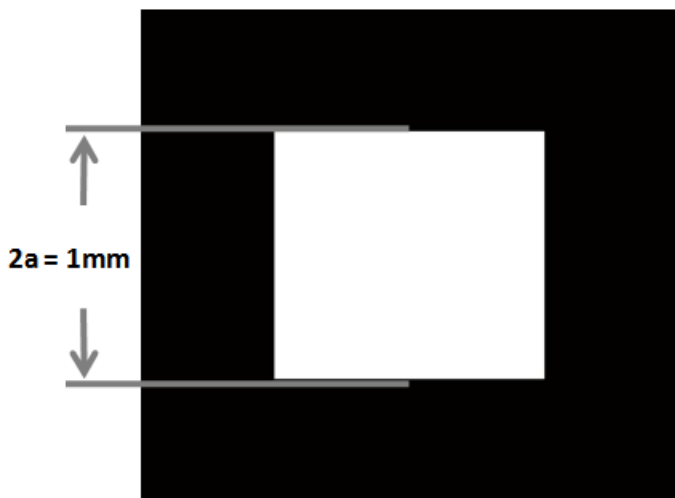
Uniform Illumination on a Circular Aperature



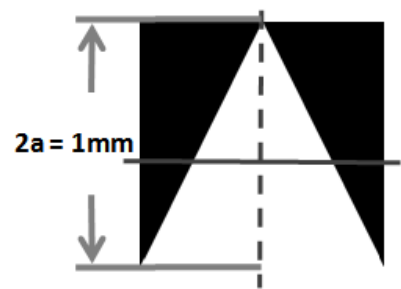
Gaussian Illumination on a Circular Aperature



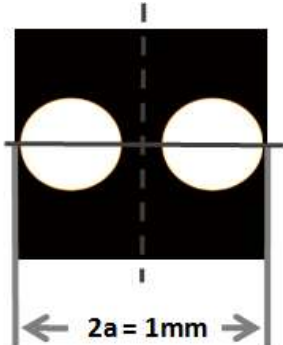
Uniform Illumination on a Square Aperature



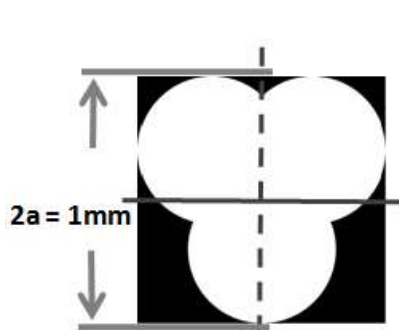
Uniform Illumination on a Triangle



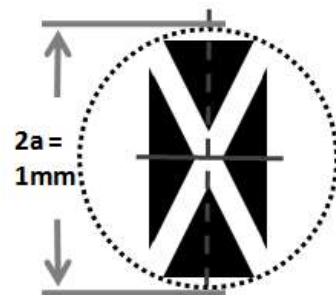
Uniform Illumination on 2 Circles



Uniform Illumination on 3 Overlapping Circles

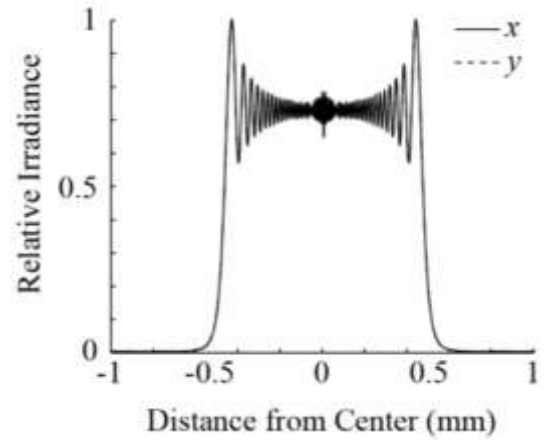


Uniform Illumination on an "X"

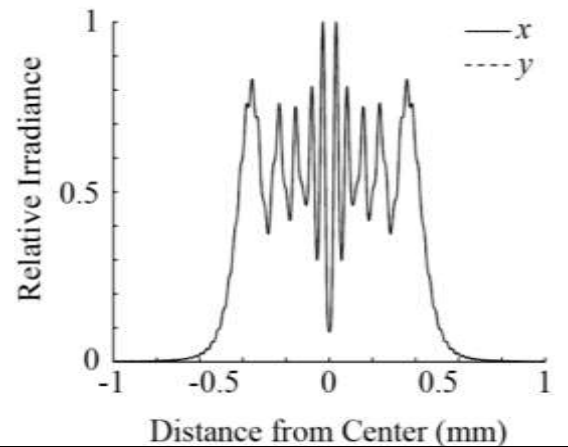


Uniform Illumination on a Circular Aperture

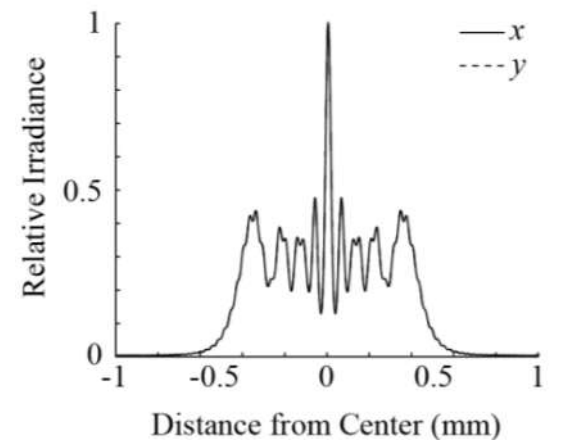
$N_f = 50$
 $a = 0.5 \text{ mm}$
 $L = 10 \text{ mm}$
 $\lambda = 500 \text{ nm}$



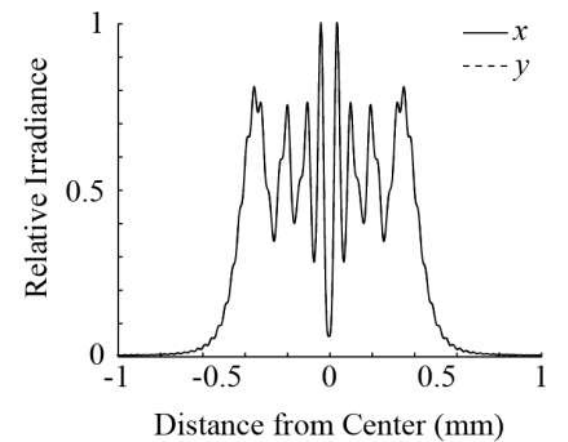
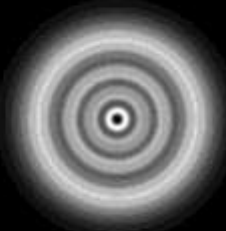
$N_f = 10$
 $a = 0.5 \text{ mm}$
 $L = 50 \text{ mm}$
 $\lambda = 500 \text{ nm}$



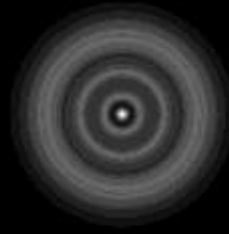
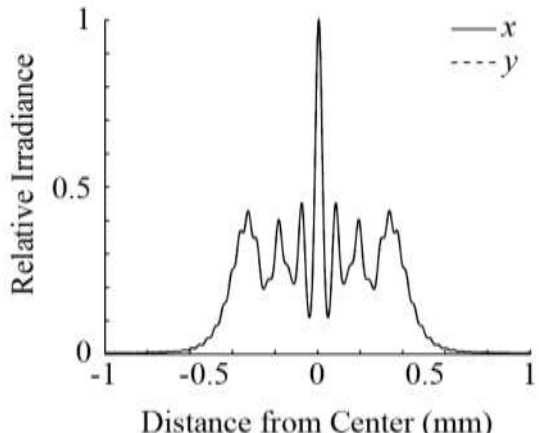
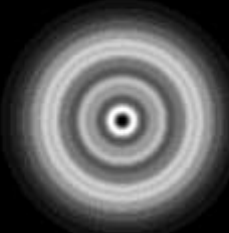
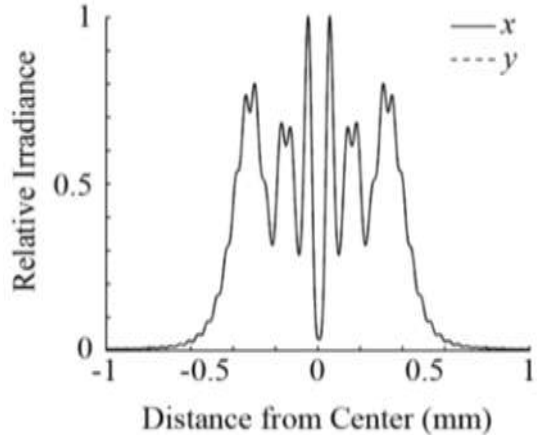
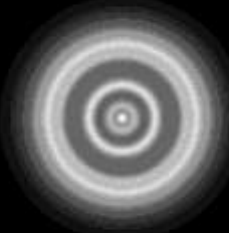
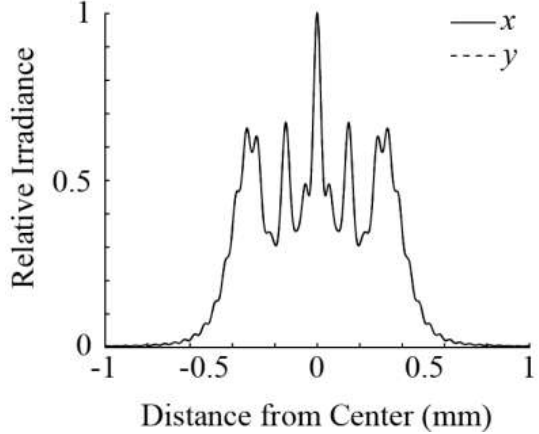
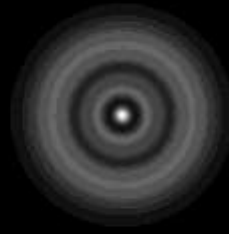
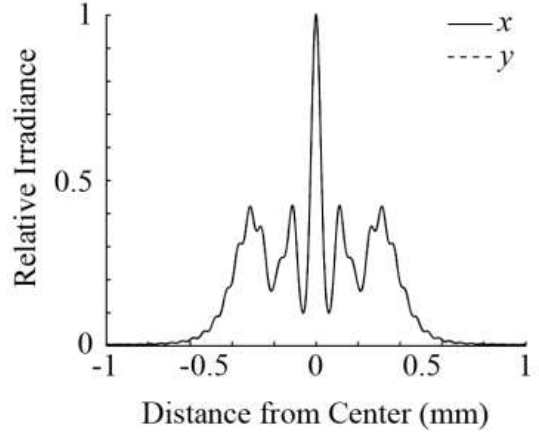
$N_f = 9$
 $a = 0.5 \text{ mm}$
 $L = 55.6 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 8$
 $a = 0.5 \text{ mm}$
 $L = 62.5 \text{ mm}$
 $\lambda = 500 \text{ nm}$

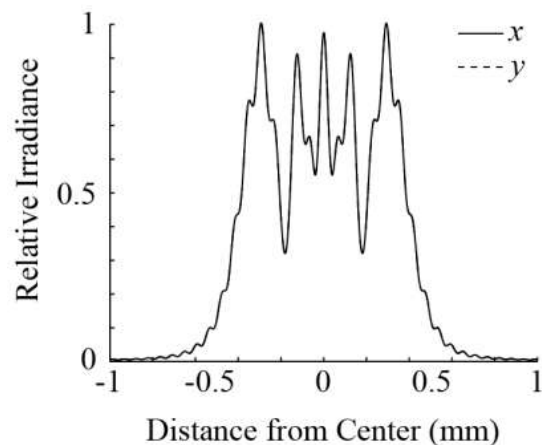
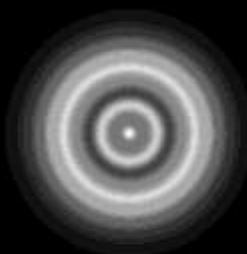


Uniform Illumination on a Circular Aperture

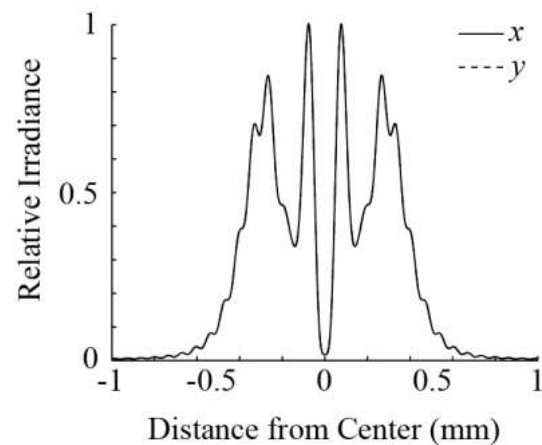
<p> $N_f = 7$ $a = 0.5 \text{ mm}$ $L = 71.4 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>		
<p> $N_f = 6$ $a = 0.5 \text{ mm}$ $L = 83.3 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>		
<p> $N_f = 5.5$ $a = 0.5 \text{ mm}$ $L = 90.9 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>		
<p> $N_f = 5$ $a = 0.5 \text{ mm}$ $L = 100 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>		

Uniform Illumination on a Circular Aperture

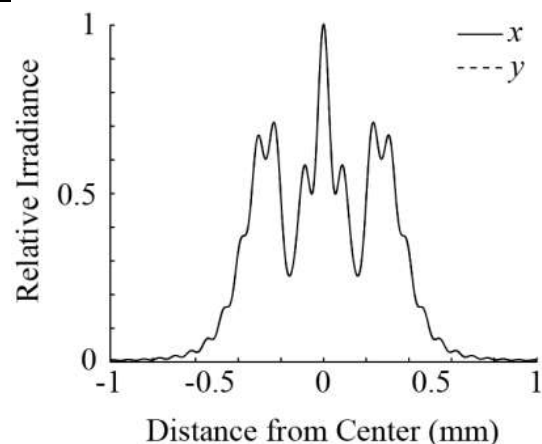
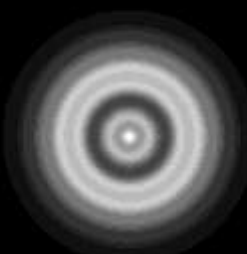
$N_f = 4.5$
 $a = 0.5 \text{ mm}$
 $L = 111 \text{ mm}$
 $\lambda = 500 \text{ nm}$



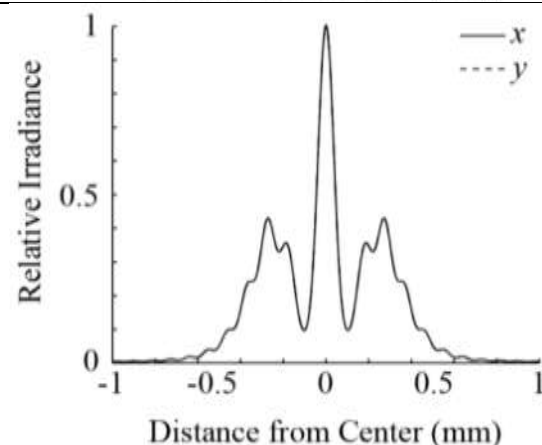
$N_f = 4$
 $a = 0.5 \text{ mm}$
 $L = 125 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 3.5$
 $a = 0.5 \text{ mm}$
 $L = 142.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

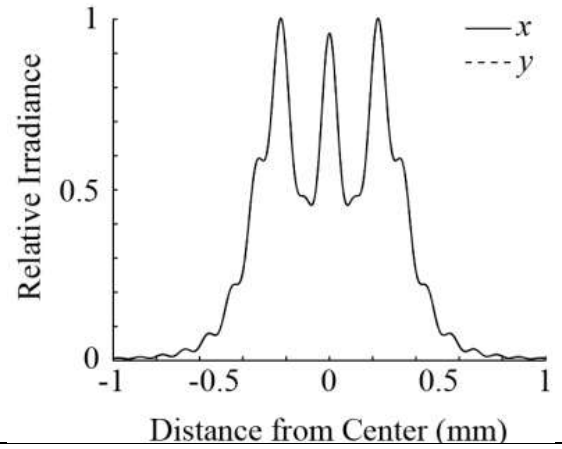


$N_f = 3$
 $a = 0.5 \text{ mm}$
 $L = 166.7 \text{ mm}$
 $\lambda = 500 \text{ nm}$

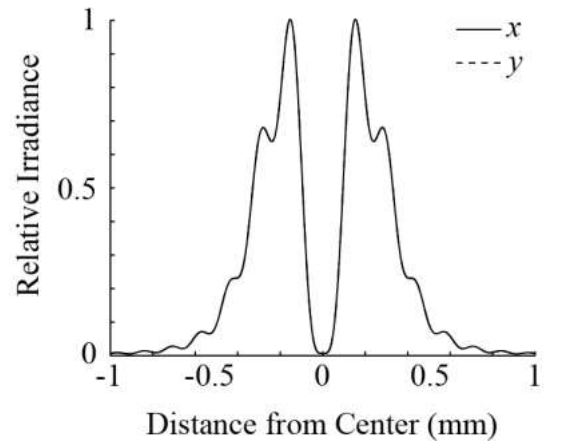


Uniform Illumination on a Circular Aperture

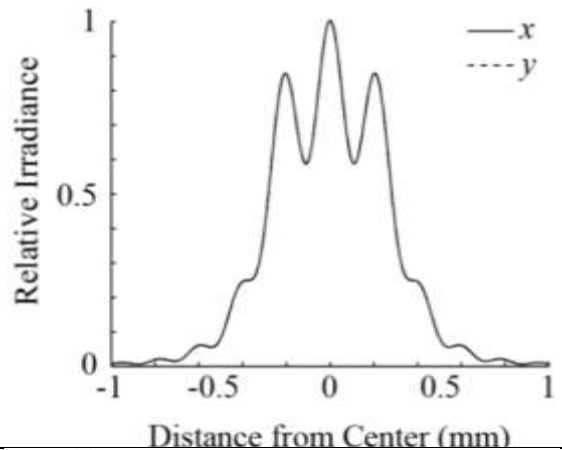
$N_f = 2.5$
 $a = 0.5 \text{ mm}$
 $L = 200 \text{ mm}$
 $\lambda = 500 \text{ nm}$



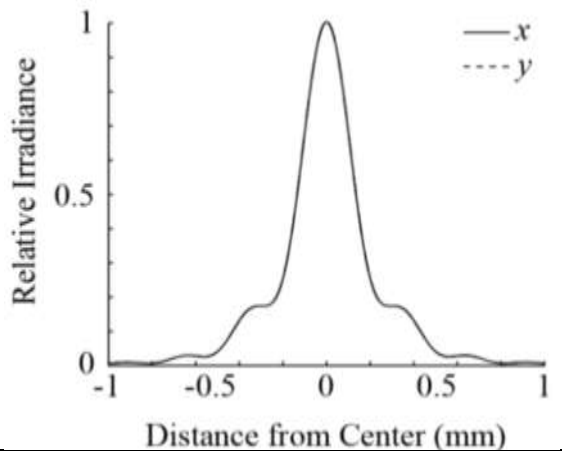
$N_f = 2$
 $a = 0.5 \text{ mm}$
 $L = 250 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1.5$
 $a = 0.5 \text{ mm}$
 $L = 333 \text{ mm}$
 $\lambda = 500 \text{ nm}$

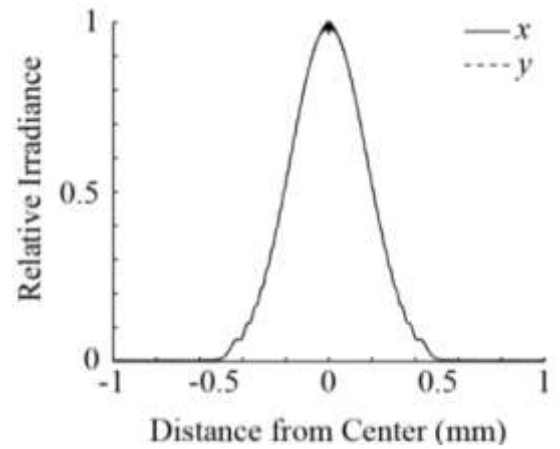


$N_f = 1$
 $a = 0.5 \text{ mm}$
 $L = 500 \text{ mm}$
 $\lambda = 500 \text{ nm}$

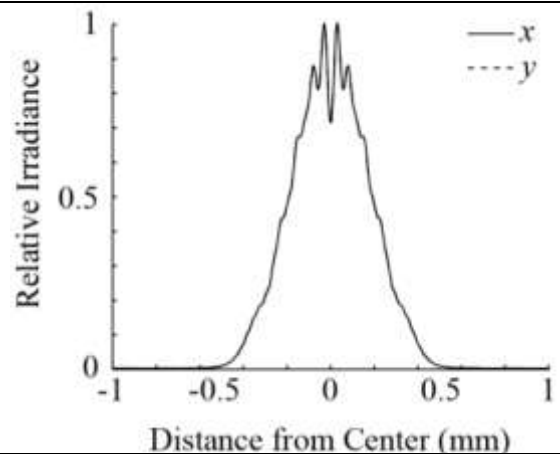
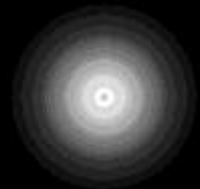


Gaussian Illumination on a Circular Aperture

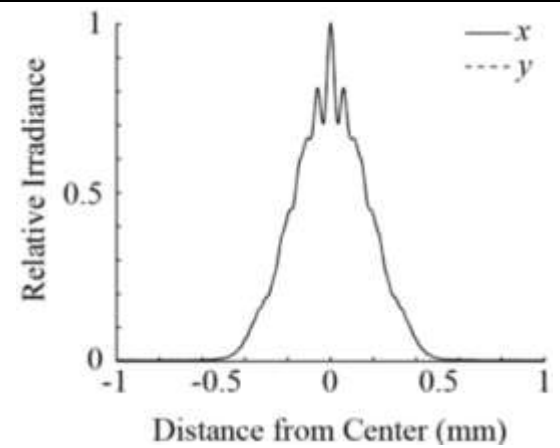
$N_f = 50$
 $a = 0.5 \text{ mm}$
 $L = 10 \text{ mm}$
 1. $\lambda = 500 \text{ nm}$



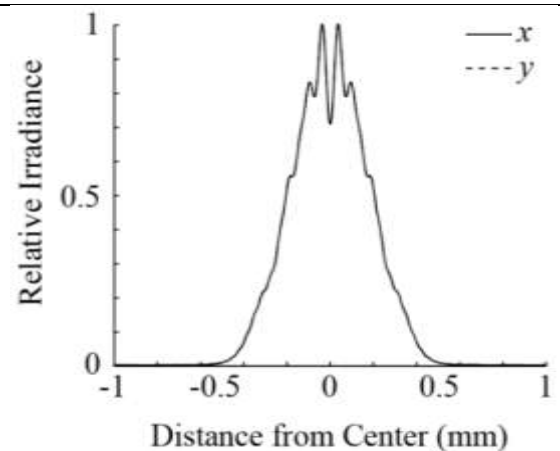
$N_f = 10$
 $a = 0.5 \text{ mm}$
 $L = 50 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 9$
 $a = 0.5 \text{ mm}$
 $L = 55.6 \text{ mm}$
 $\lambda = 500 \text{ nm}$

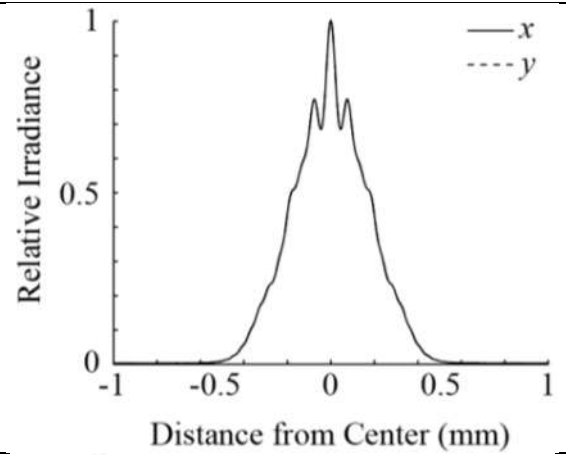


$N_f = 8$
 $a = 0.5 \text{ mm}$
 $L = 62.5 \text{ mm}$
 $\lambda = 500 \text{ nm}$

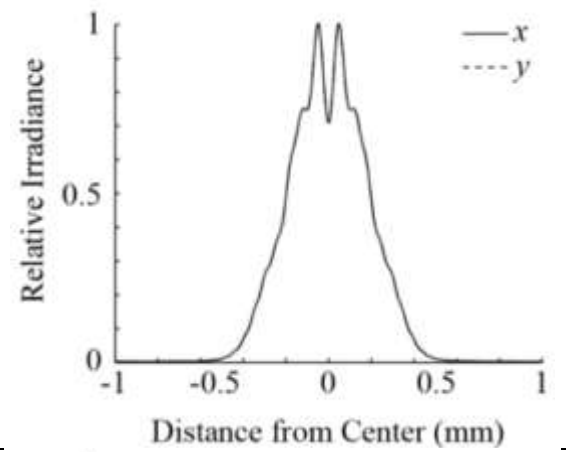


Gaussian Illumination on a Circular Aperture

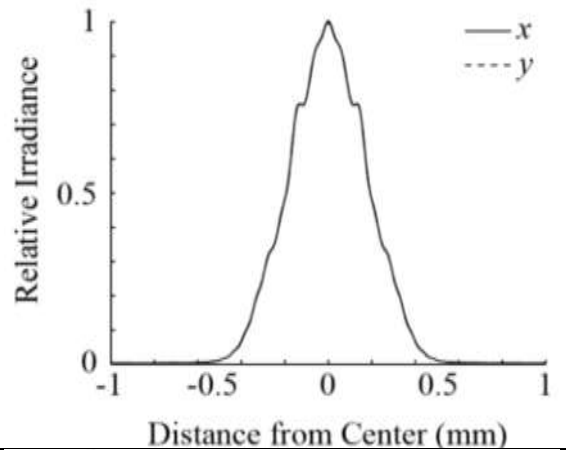
$N_f = 7$
 $a = 0.5 \text{ mm}$
 $L = 71.4 \text{ mm}$
 $\lambda = 500 \text{ nm}$



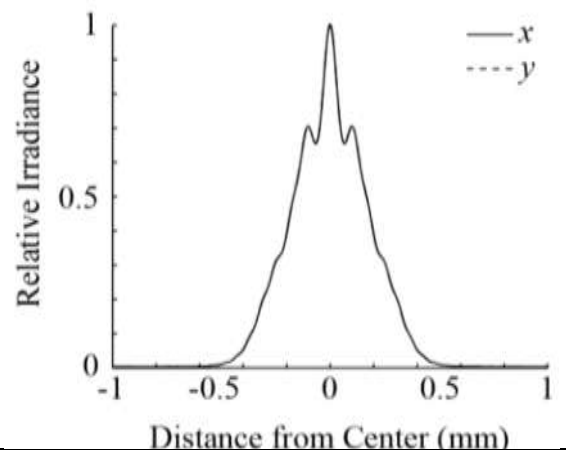
$N_f = 6$
 $a = 0.5 \text{ mm}$
 $L = 83.3 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 5.5$
 $a = 0.5 \text{ mm}$
 $L = 90.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

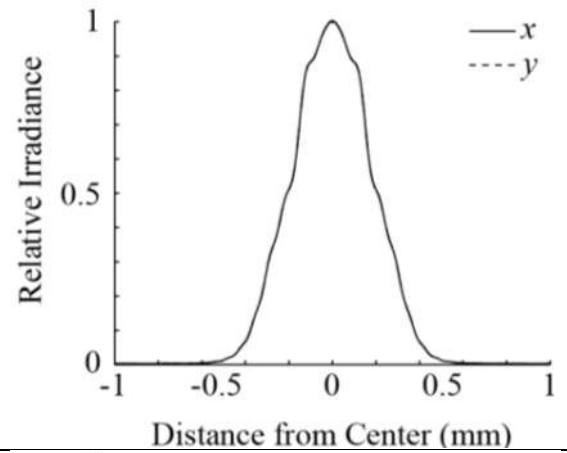


$N_f = 5$
 $a = 0.5 \text{ mm}$
 $L = 100 \text{ mm}$
 $\lambda = 500 \text{ nm}$

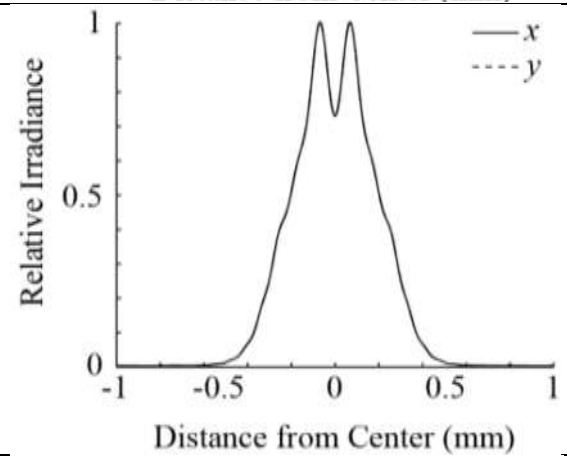


Gaussian Illumination on a Circular Aperture

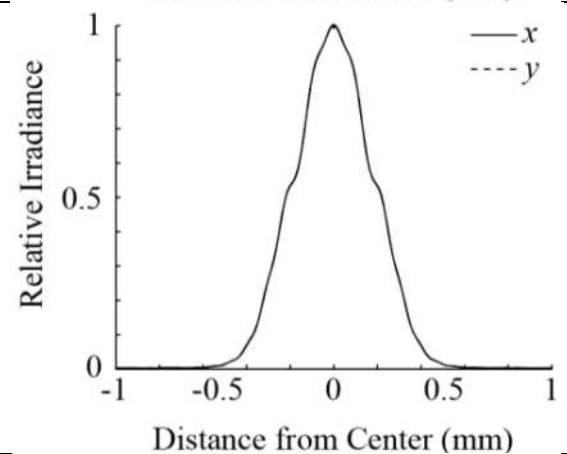
$N_f = 4.5$
 $a = 0.5 \text{ mm}$
 $L = 111 \text{ mm}$
 $\lambda = 500 \text{ nm}$



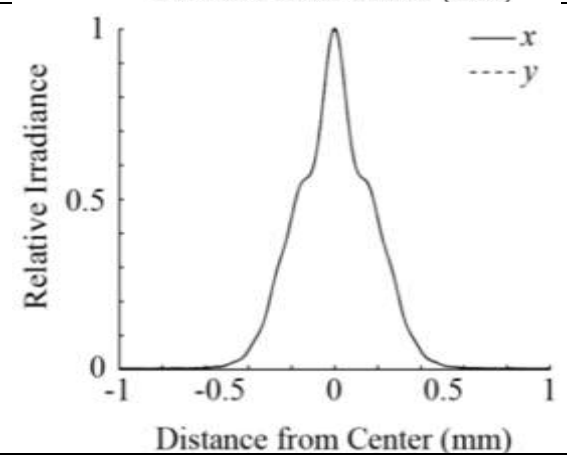
$N_f = 4$
 $a = 0.5 \text{ mm}$
 $L = 125 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 3.5$
 $a = 0.5 \text{ mm}$
 $L = 142.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

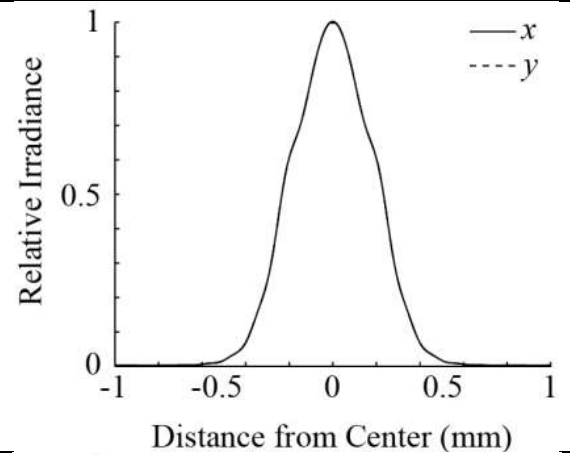


$N_f = 3$
 $a = 0.5 \text{ mm}$
 $L = 166.7 \text{ mm}$
 $\lambda = 500 \text{ nm}$

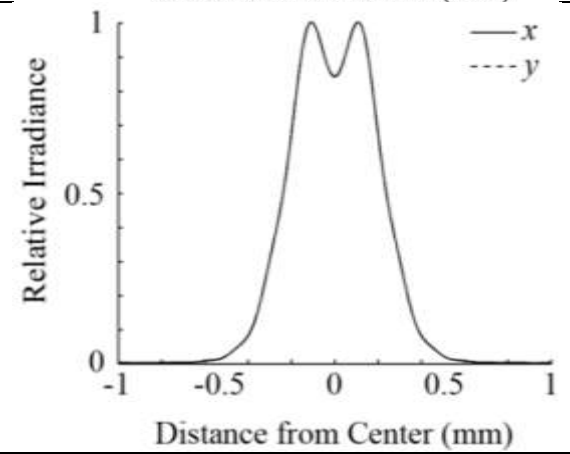


Gaussian Illumination on a Circular Aperture

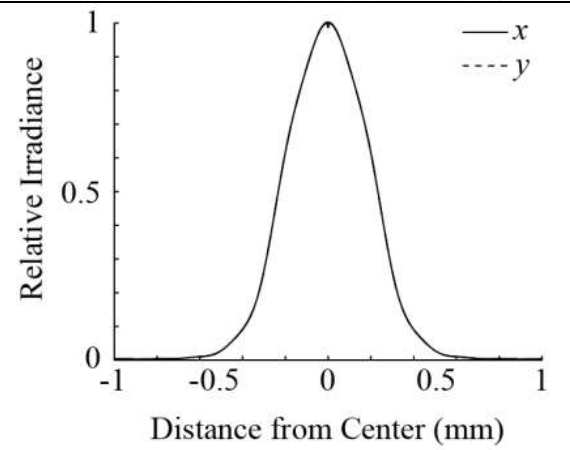
$N_f = 2.5$
 $a = 0.5 \text{ mm}$
 $L = 200 \text{ mm}$
 $\lambda = 500 \text{ nm}$



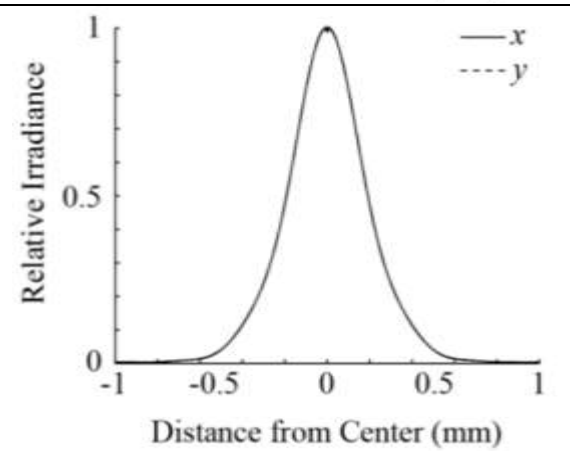
$N_f = 2$
 $a = 0.5 \text{ mm}$
 $L = 250 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1.5$
 $a = 0.5 \text{ mm}$
 $L = 333 \text{ mm}$
 $\lambda = 500 \text{ nm}$

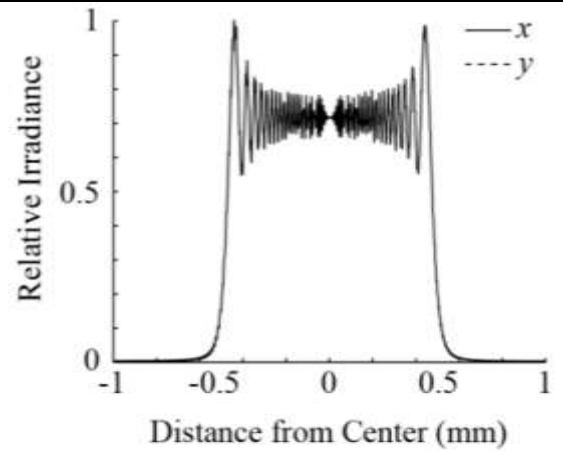
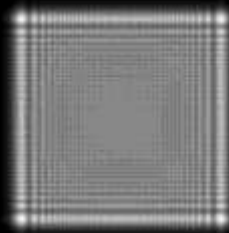


$N_f = 1$
 $a = 0.5 \text{ mm}$
 $L = 500 \text{ mm}$
 $\lambda = 500 \text{ nm}$

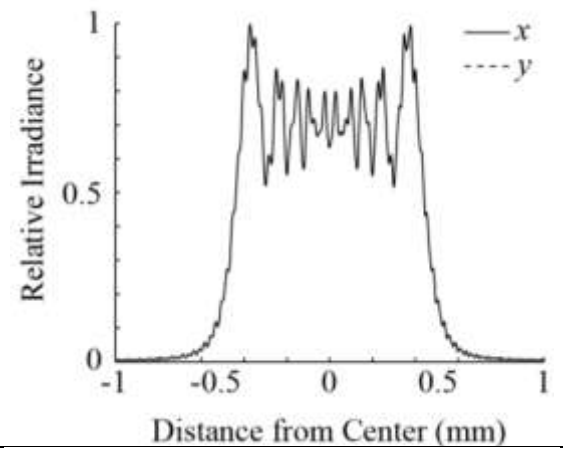
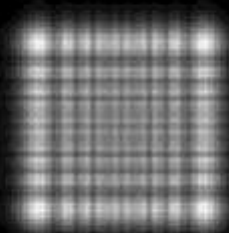


Uniform Illumination on a Square Aperture

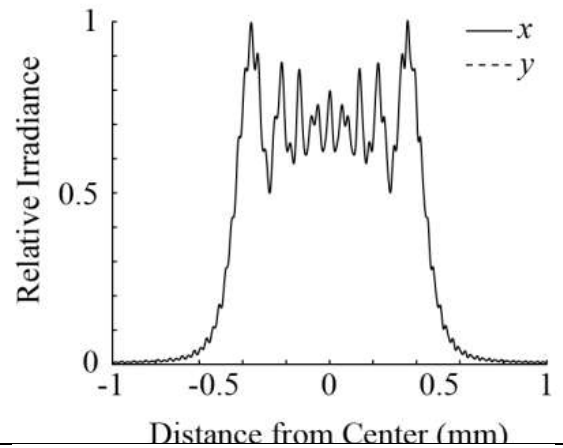
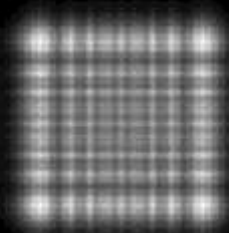
$N_f = 50$
 $a = 0.5 \text{ mm}$
 $L = 10 \text{ mm}$
 1. $\lambda = 500 \text{ nm}$



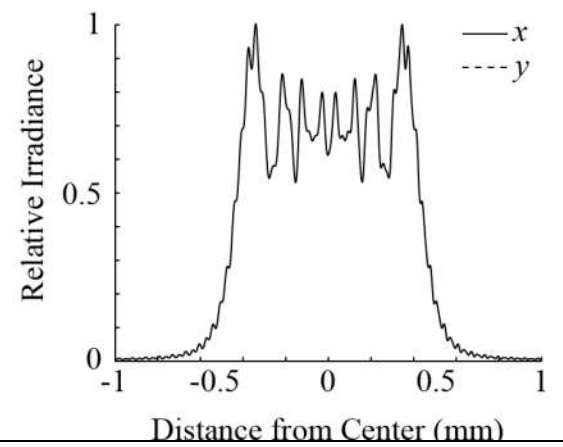
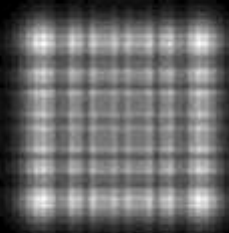
$N_f = 10$
 $a = 0.5 \text{ mm}$
 $L = 50 \text{ mm}$
 $\lambda = 500 \text{ nm}$



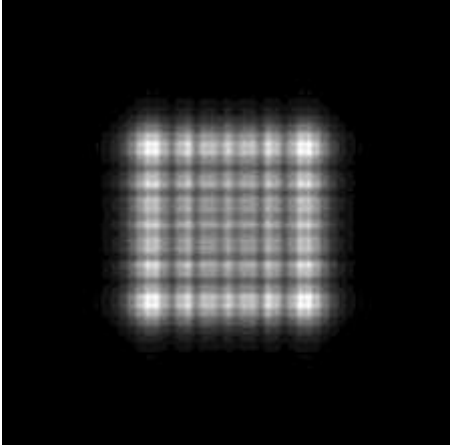
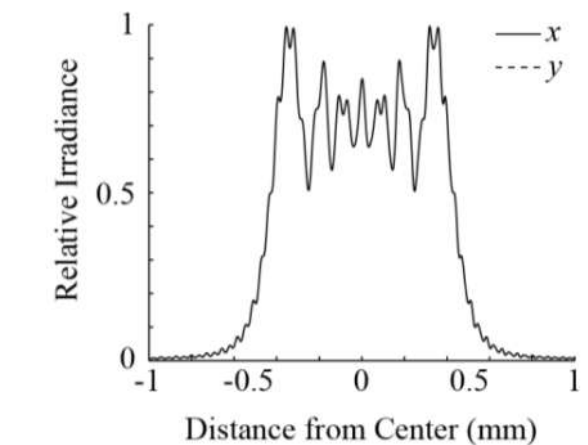
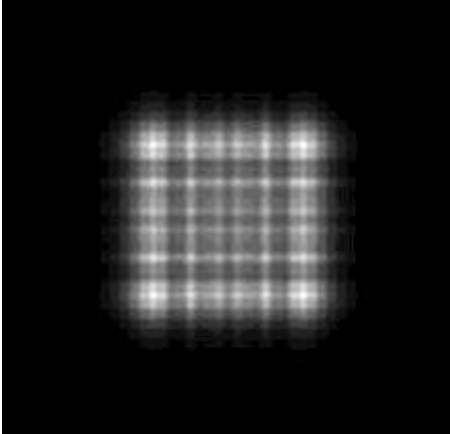
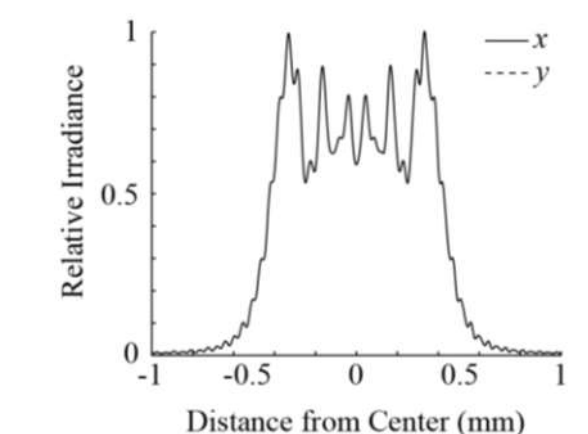
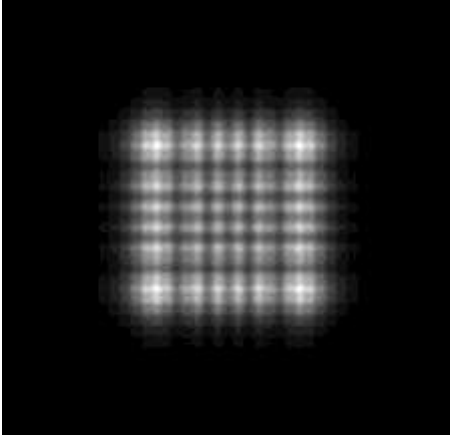
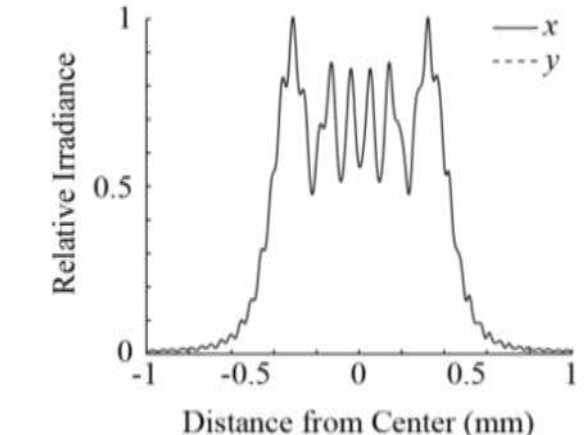
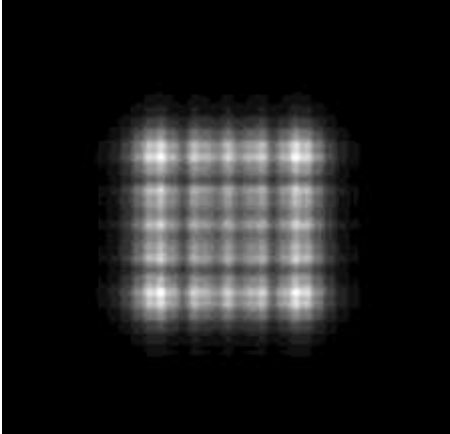
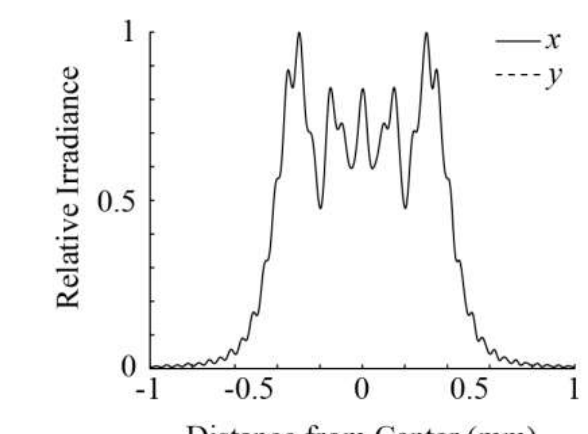
$N_f = 9$
 $a = 0.5 \text{ mm}$
 $L = 55.6 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 8$
 $a = 0.5 \text{ mm}$
 $L = 62.5 \text{ mm}$
 $\lambda = 500 \text{ nm}$

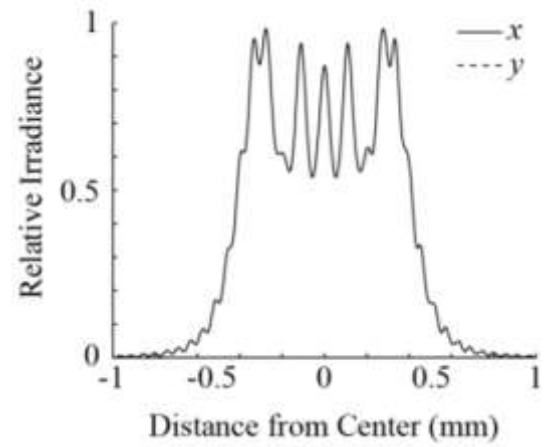
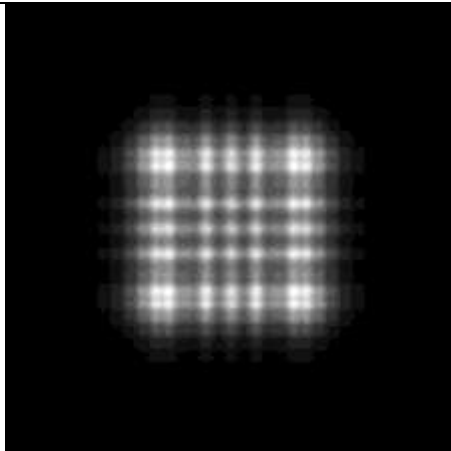


Uniform Illumination on a Square Aperture

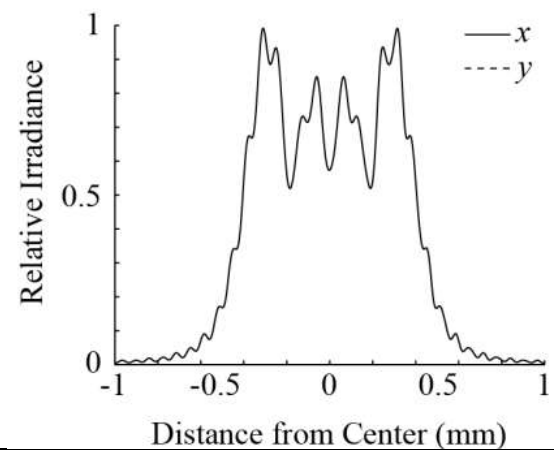
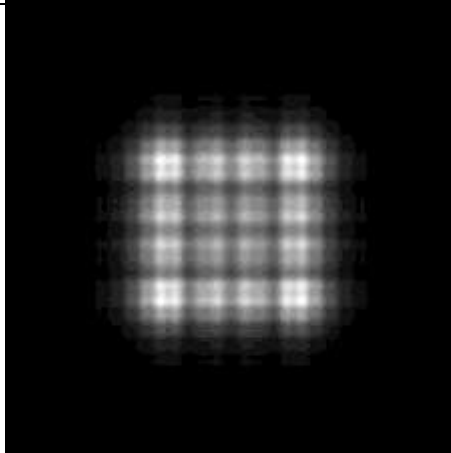
<p> $N_f = 7$ $a = 0.5 \text{ mm}$ $L = 71.4 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>	 <p>A 2D intensity distribution plot showing a central bright spot with a grid of smaller spots, indicating a high number of Fresnel zones.</p>	 <p>Relative Irradiance vs Distance from Center (mm) for $N_f = 7$. The plot shows two curves: a solid line for the x-axis and a dashed line for the y-axis. Both curves exhibit a central peak with several smaller side lobes, characteristic of a square aperture.</p>
<p> $N_f = 6$ $a = 0.5 \text{ mm}$ $L = 83.3 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>	 <p>A 2D intensity distribution plot showing a central bright spot with a grid of smaller spots, indicating a moderate number of Fresnel zones.</p>	 <p>Relative Irradiance vs Distance from Center (mm) for $N_f = 6$. The plot shows two curves: a solid line for the x-axis and a dashed line for the y-axis. Both curves exhibit a central peak with several smaller side lobes.</p>
<p> $N_f = 5.5$ $a = 0.5 \text{ mm}$ $L = 90.9 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>	 <p>A 2D intensity distribution plot showing a central bright spot with a grid of smaller spots, indicating a moderate number of Fresnel zones.</p>	 <p>Relative Irradiance vs Distance from Center (mm) for $N_f = 5.5$. The plot shows two curves: a solid line for the x-axis and a dashed line for the y-axis. Both curves exhibit a central peak with several smaller side lobes.</p>
<p> $N_f = 5$ $a = 0.5 \text{ mm}$ $L = 100 \text{ mm}$ $\lambda = 500 \text{ nm}$ </p>	 <p>A 2D intensity distribution plot showing a central bright spot with a grid of smaller spots, indicating a moderate number of Fresnel zones.</p>	 <p>Relative Irradiance vs Distance from Center (mm) for $N_f = 5$. The plot shows two curves: a solid line for the x-axis and a dashed line for the y-axis. Both curves exhibit a central peak with several smaller side lobes.</p>

Uniform Illumination on a Square Aperture

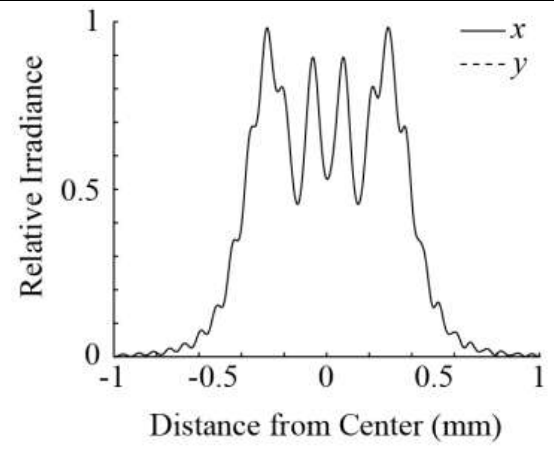
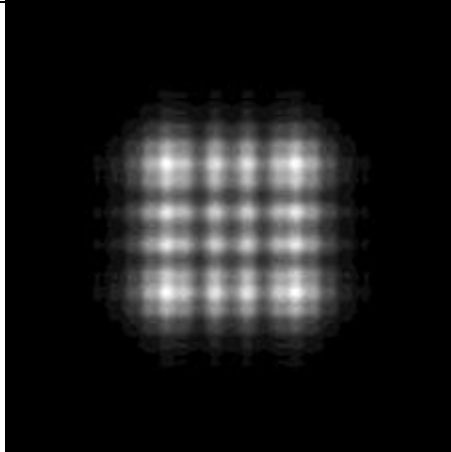
$N_f = 4.5$
 $a = 0.5 \text{ mm}$
 $L = 111 \text{ mm}$
 $\lambda = 500 \text{ nm}$



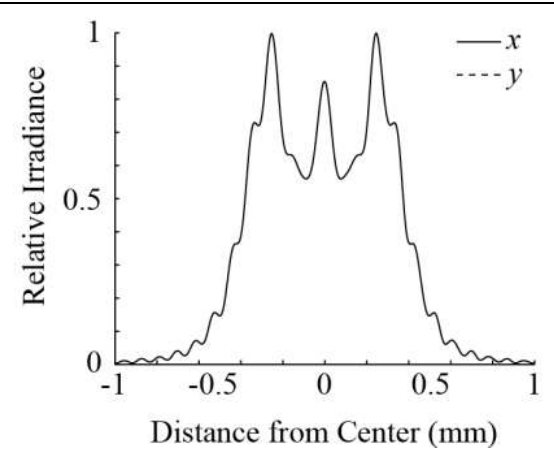
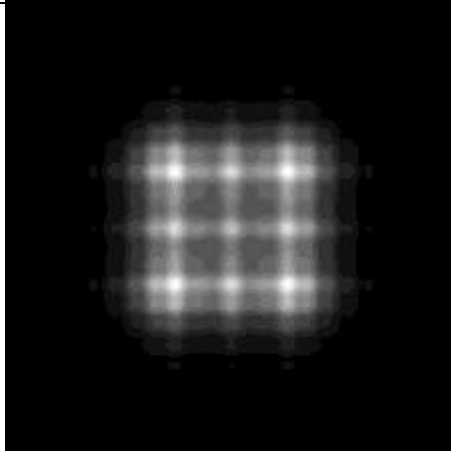
$N_f = 4$
 $a = 0.5 \text{ mm}$
 $L = 125 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 3.5$
 $a = 0.5 \text{ mm}$
 $L = 142.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

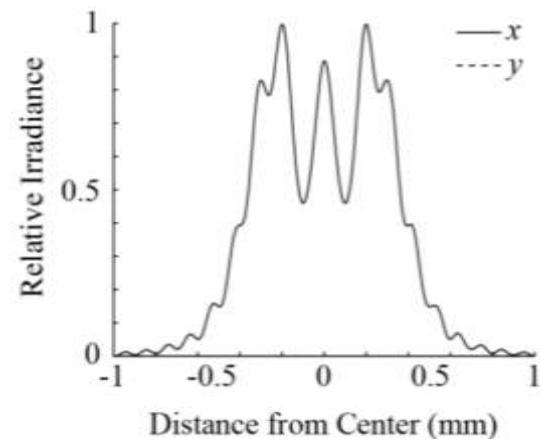
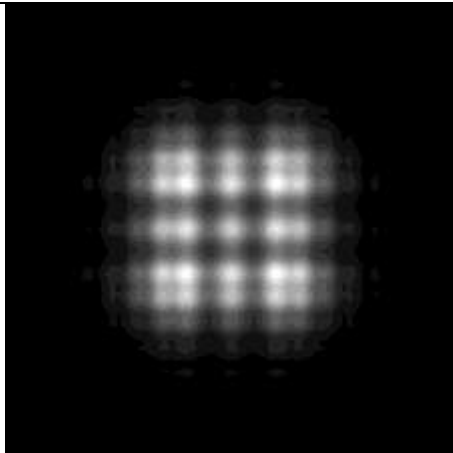


$N_f = 3$
 $a = 0.5 \text{ mm}$
 $L = 166.7 \text{ mm}$
 $\lambda = 500 \text{ nm}$

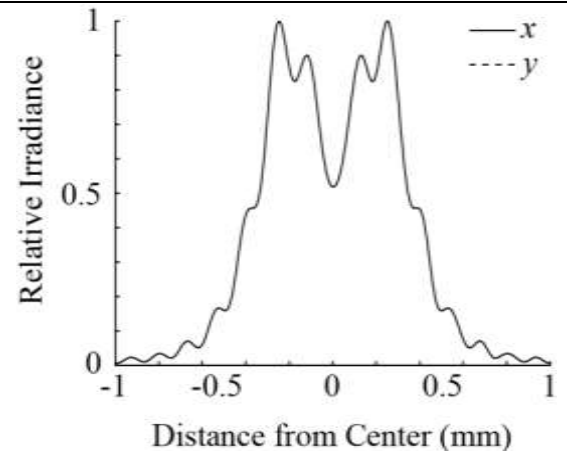
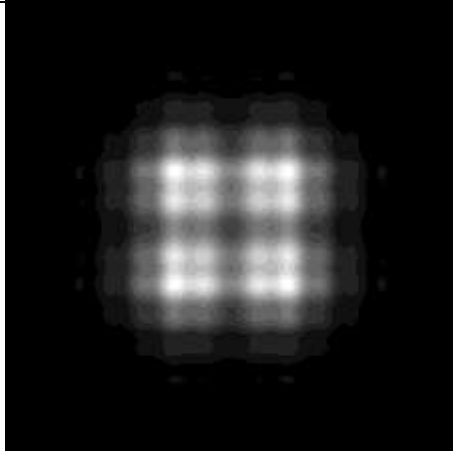


Uniform Illumination on a Square Aperture

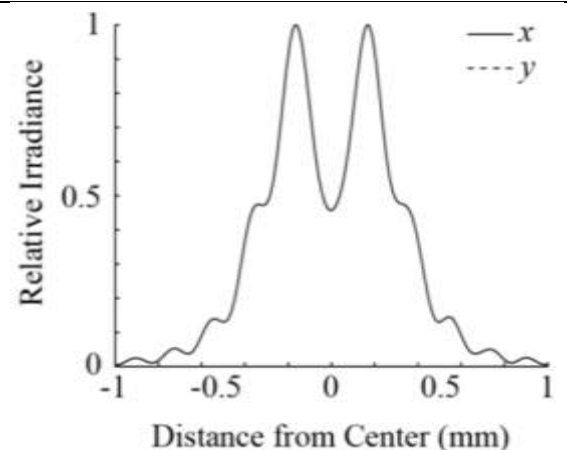
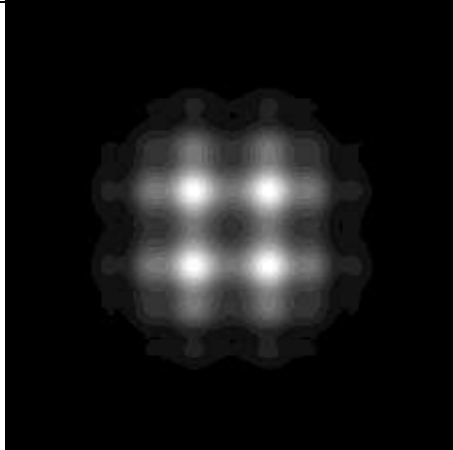
$N_f = 2.5$
 $a = 0.5 \text{ mm}$
 $L = 200 \text{ mm}$
 $\lambda = 500 \text{ nm}$



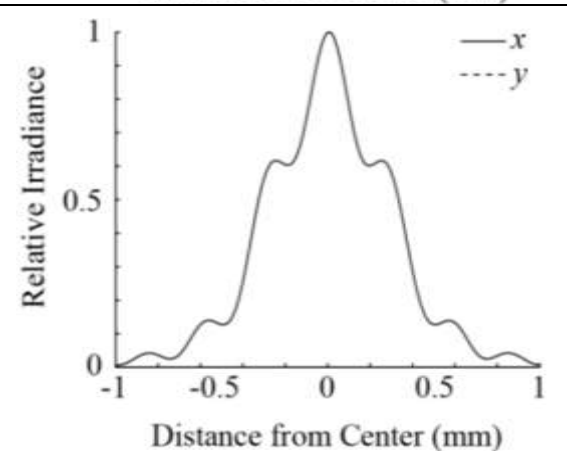
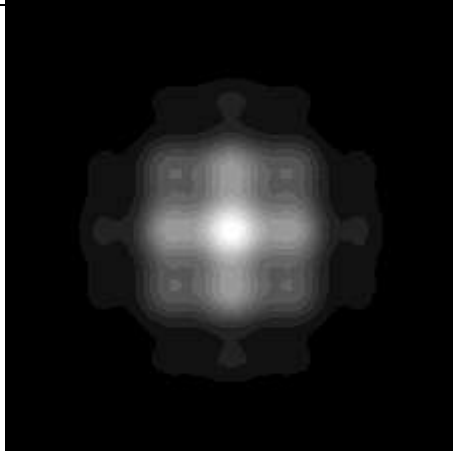
$N_f = 2$
 $a = 0.5 \text{ mm}$
 $L = 250 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1.5$
 $a = 0.5 \text{ mm}$
 $L = 333 \text{ mm}$
 $\lambda = 500 \text{ nm}$

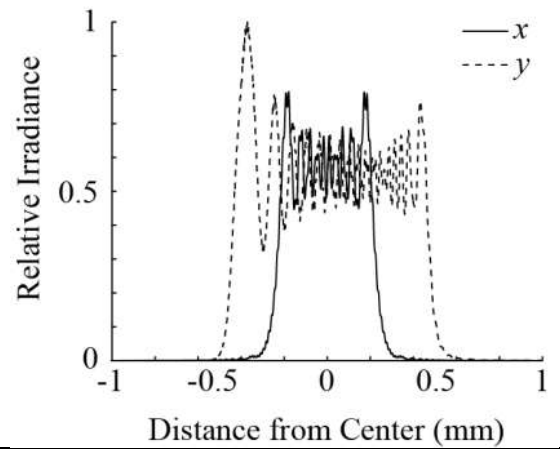
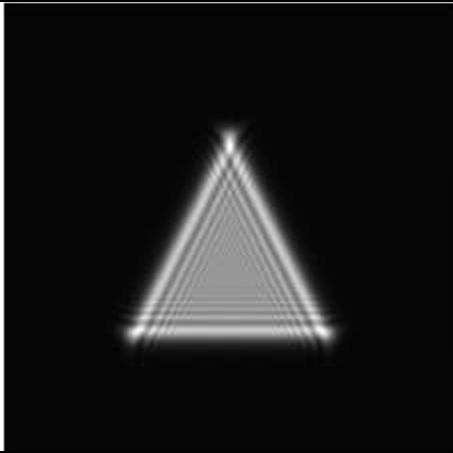


$N_f = 1$
 $a = 0.5 \text{ mm}$
 $L = 500 \text{ mm}$
 $\lambda = 500 \text{ nm}$

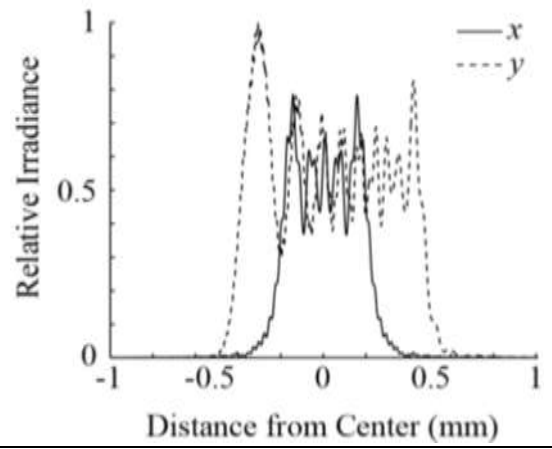
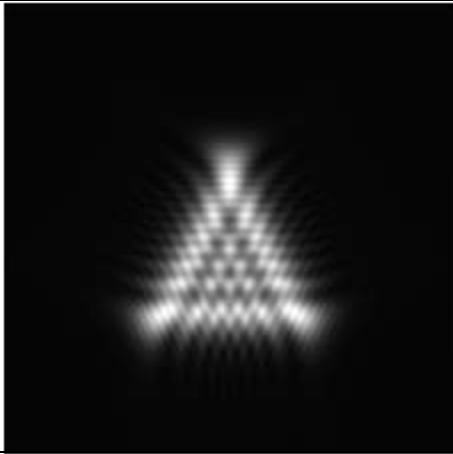


Uniform Illumination on a Triangular Aperture

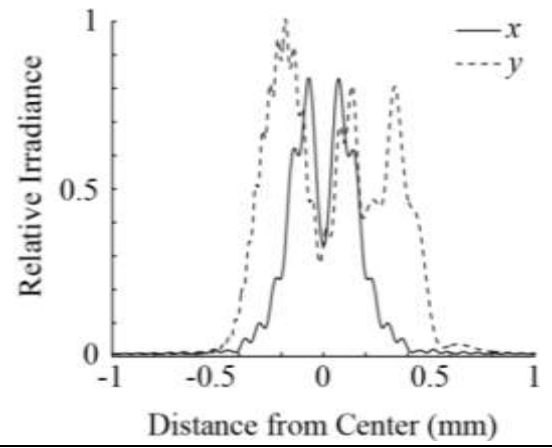
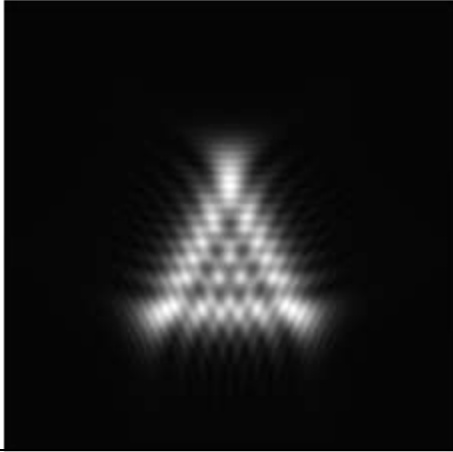
$N_f = 50$
 $a = 0.5 \text{ mm}$
 $L = 10 \text{ mm}$
 1. $\lambda = 500 \text{ nm}$



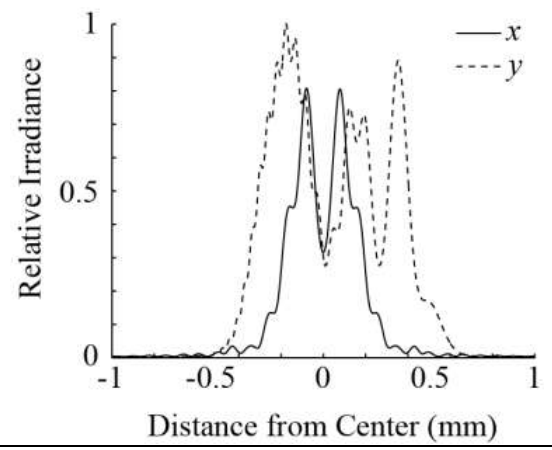
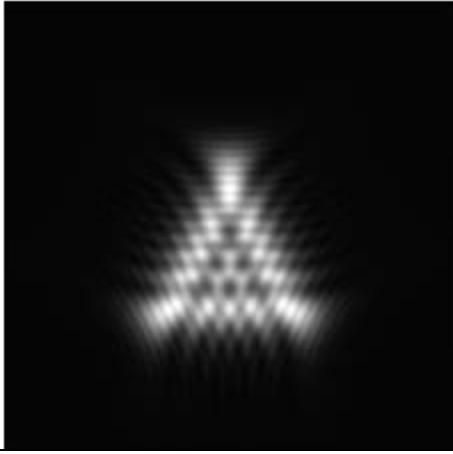
$N_f = 10$
 $a = 0.5 \text{ mm}$
 $L = 50 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 9$
 $a = 0.5 \text{ mm}$
 $L = 55.6 \text{ mm}$
 $\lambda = 500 \text{ nm}$

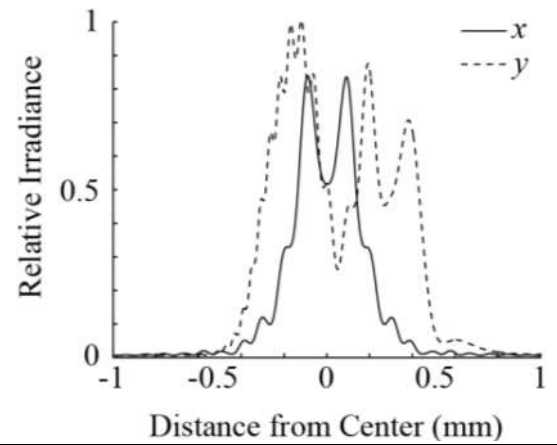
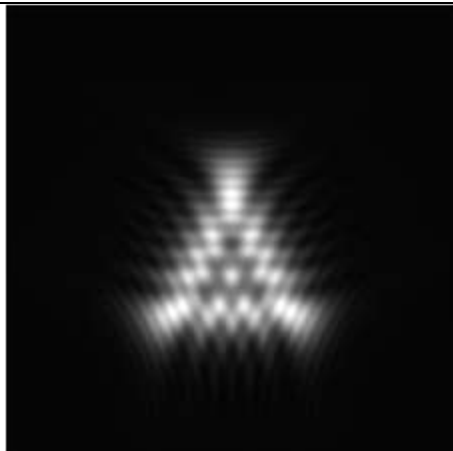


$N_f = 8$
 $a = 0.5 \text{ mm}$
 $L = 62.5 \text{ mm}$
 $\lambda = 500 \text{ nm}$

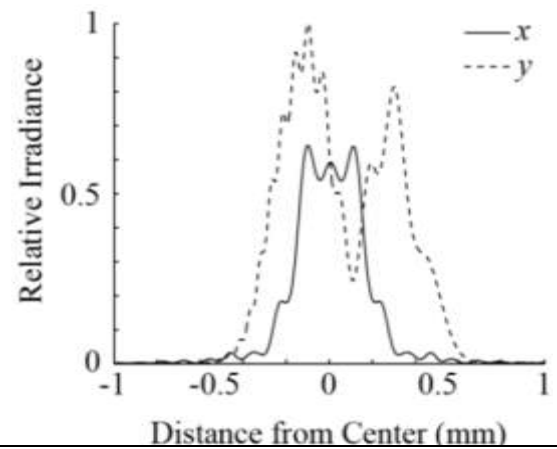
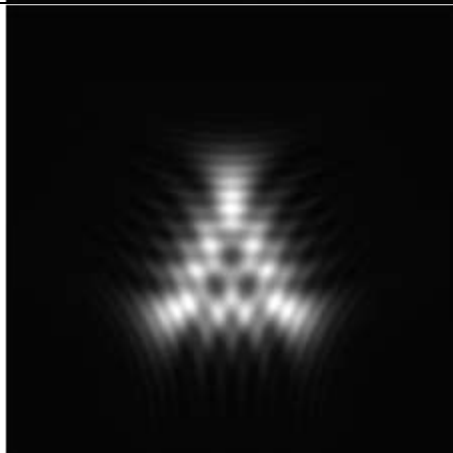


Uniform Illumination on a Triangular Aperture

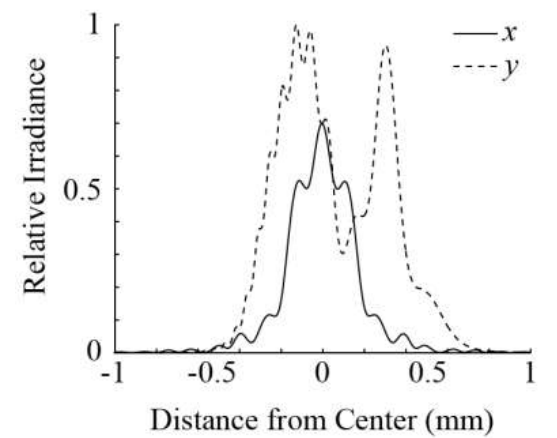
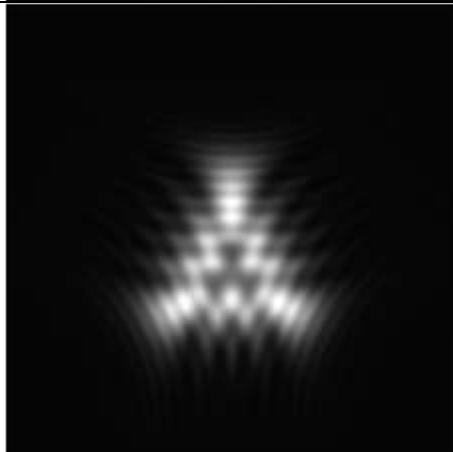
$N_f = 7$
 $a = 0.5 \text{ mm}$
 $L = 71.4 \text{ mm}$
 $\lambda = 500 \text{ nm}$



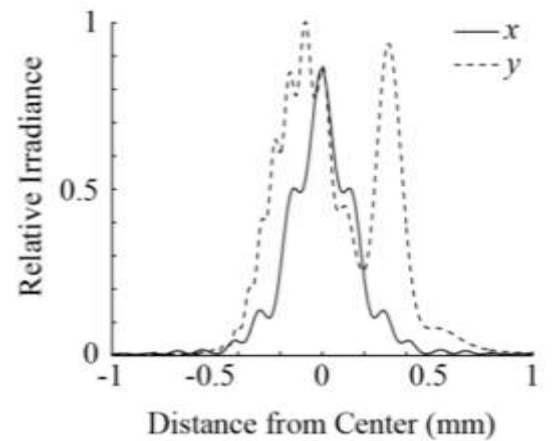
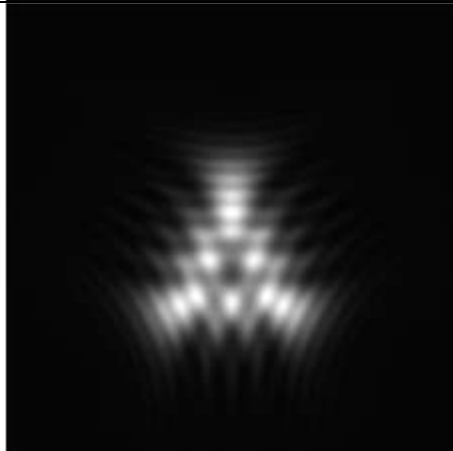
$N_f = 6$
 $a = 0.5 \text{ mm}$
 $L = 83.3 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 5.5$
 $a = 0.5 \text{ mm}$
 $L = 90.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

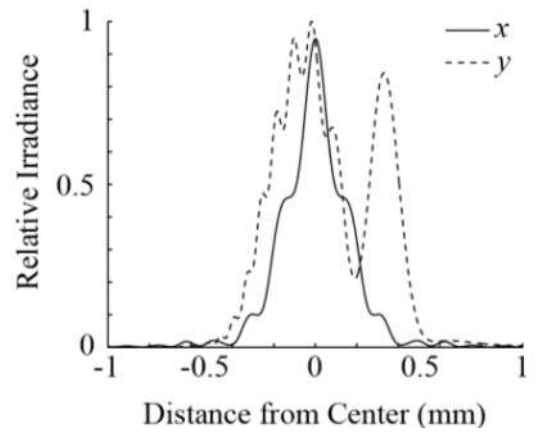
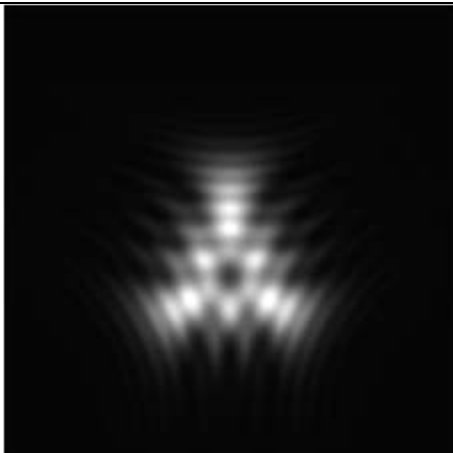


$N_f = 5$
 $a = 0.5 \text{ mm}$
 $L = 100 \text{ mm}$
 $\lambda = 500 \text{ nm}$

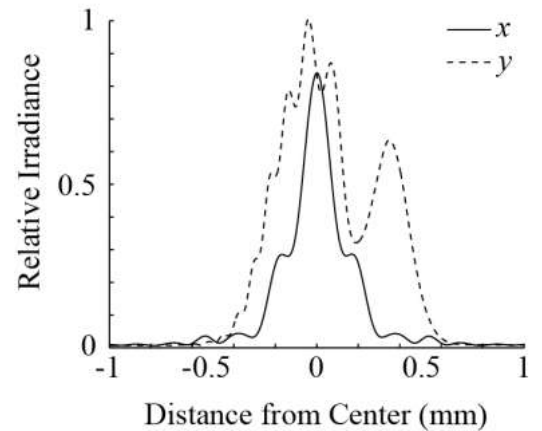
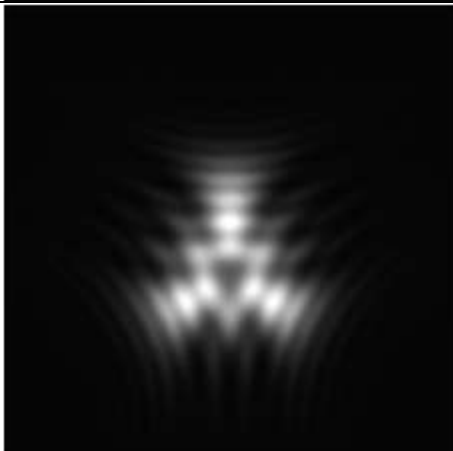


Uniform Illumination on a Triangular Aperture

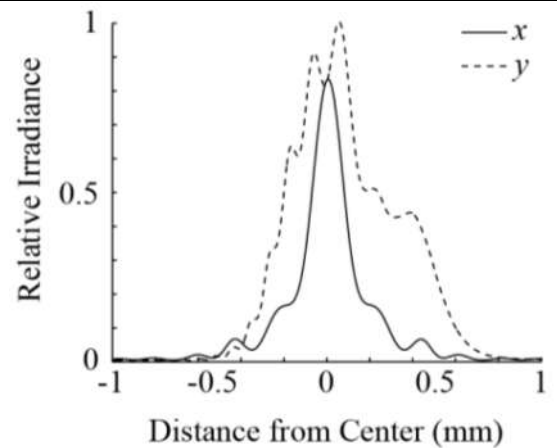
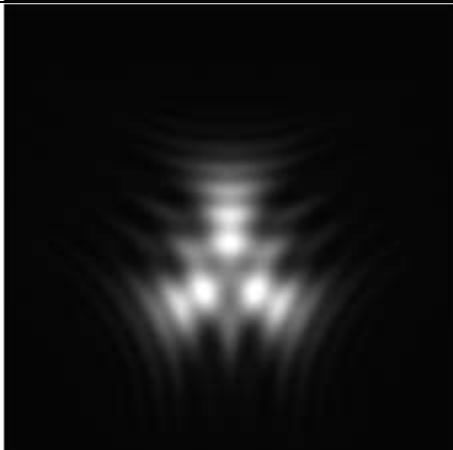
$N_f = 4.5$
 $a = 0.5$ mm
 $L = 111$ mm
 $\lambda = 500$ nm



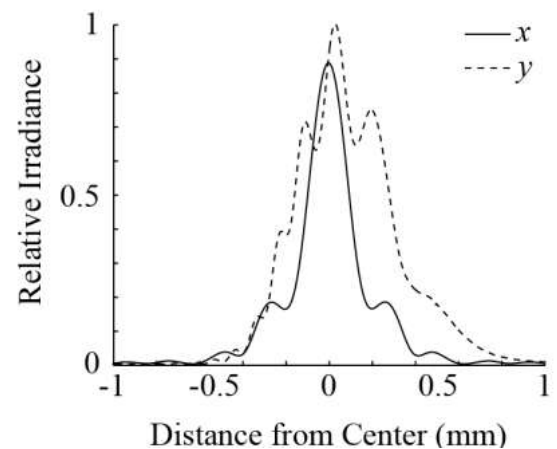
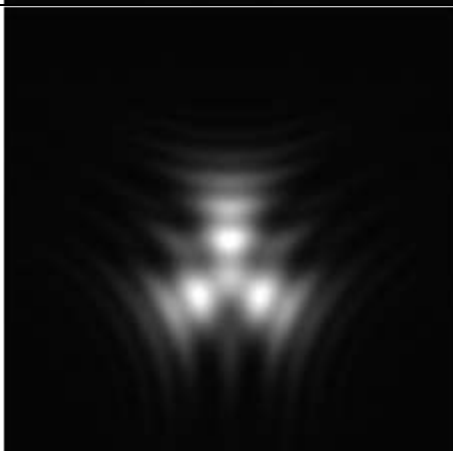
$N_f = 4$
 $a = 0.5$ mm
 $L = 125$ mm
 $\lambda = 500$ nm



$N_f = 3.5$
 $a = 0.5$ mm
 $L = 142.9$ mm
 $\lambda = 500$ nm

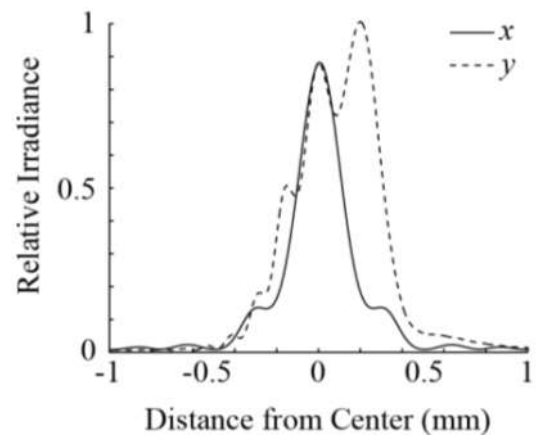
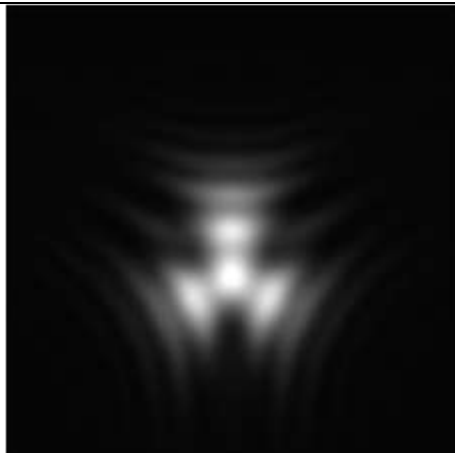


$N_f = 3$
 $a = 0.5$ mm
 $L = 166.7$ mm
 $\lambda = 500$ nm

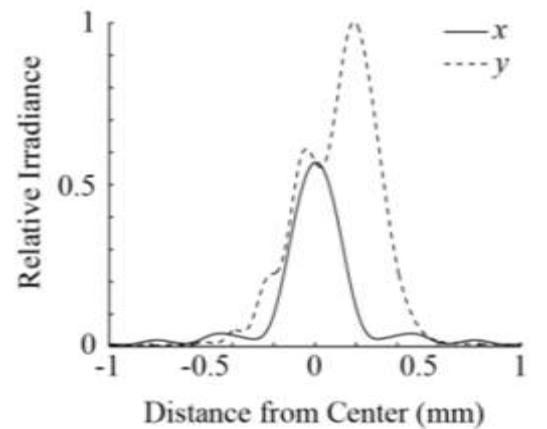
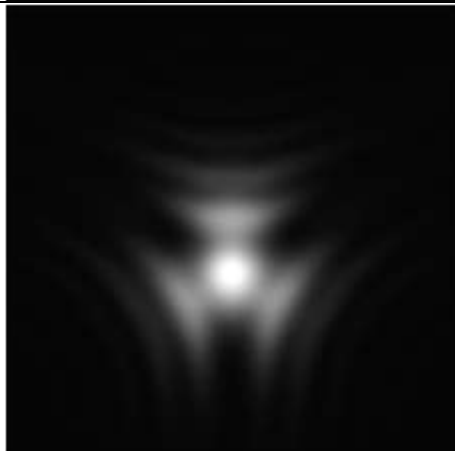


Uniform Illumination on a Triangular Aperture

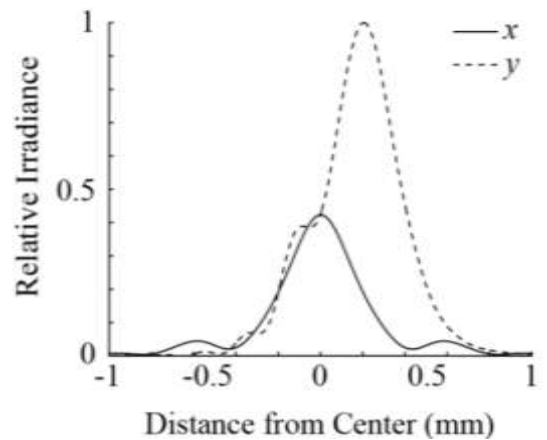
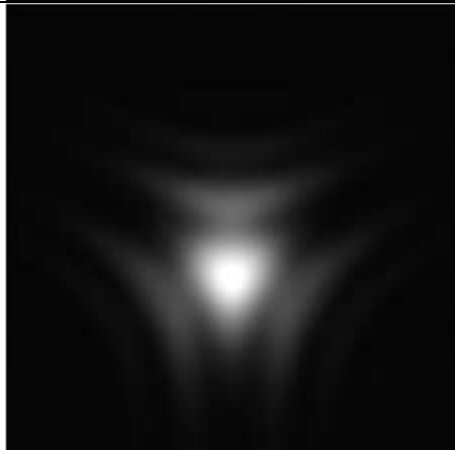
$N_f = 2.5$
 $a = 0.5 \text{ mm}$
 $L = 200 \text{ mm}$
 $\lambda = 500 \text{ nm}$



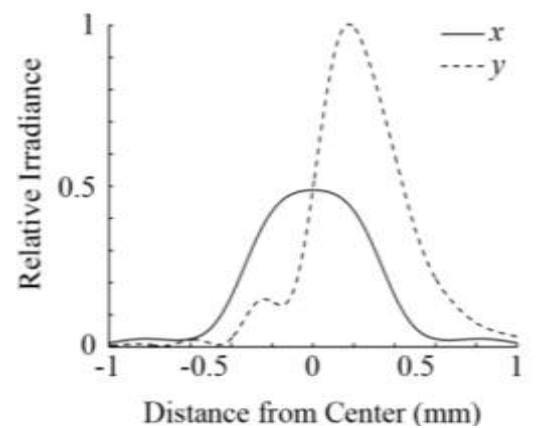
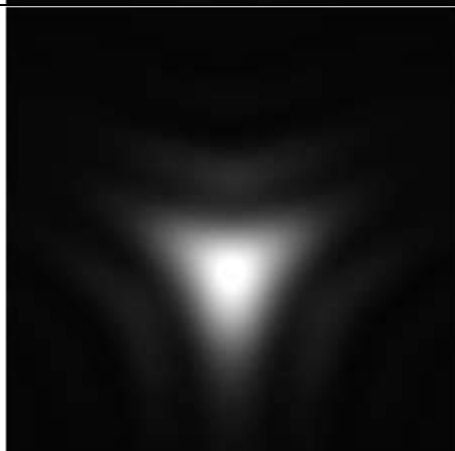
$N_f = 2$
 $a = 0.5 \text{ mm}$
 $L = 250 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1.5$
 $a = 0.5 \text{ mm}$
 $L = 333 \text{ mm}$
 $\lambda = 500 \text{ nm}$

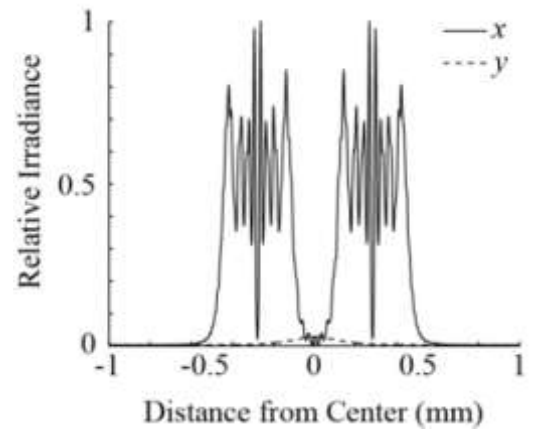
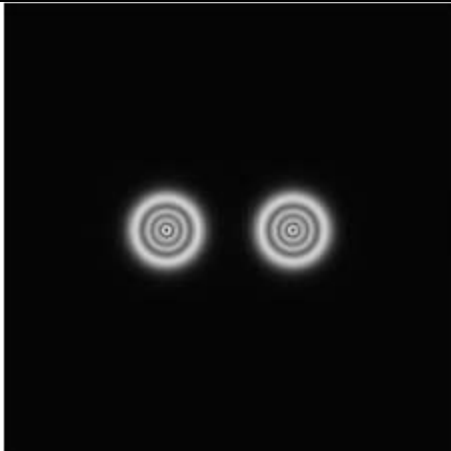


$N_f = 1$
 $a = 0.5 \text{ mm}$
 $L = 500 \text{ mm}$
 $\lambda = 500 \text{ nm}$

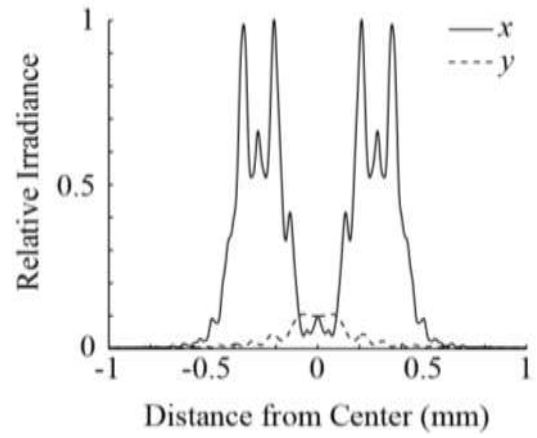
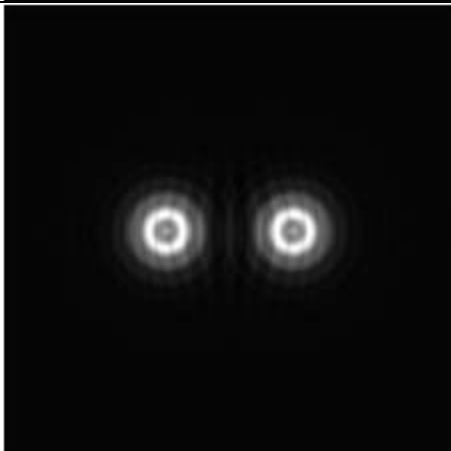


Uniform Illumination on 2 Circles

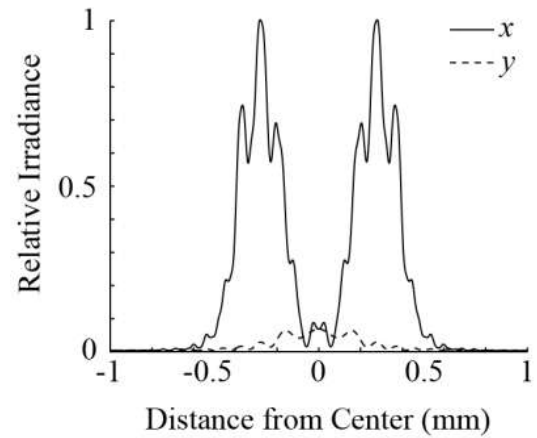
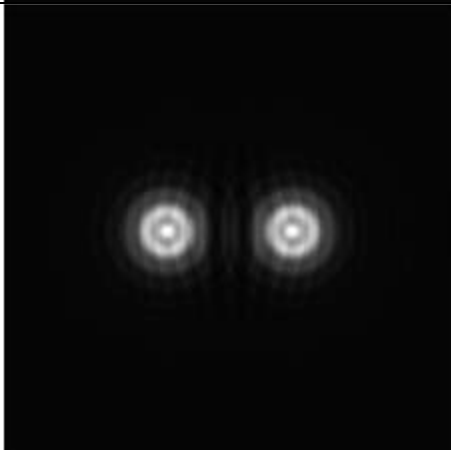
$N_f = 50$
 $a = 0.5 \text{ mm}$
 $L = 10 \text{ mm}$
 1. $\lambda = 500 \text{ nm}$



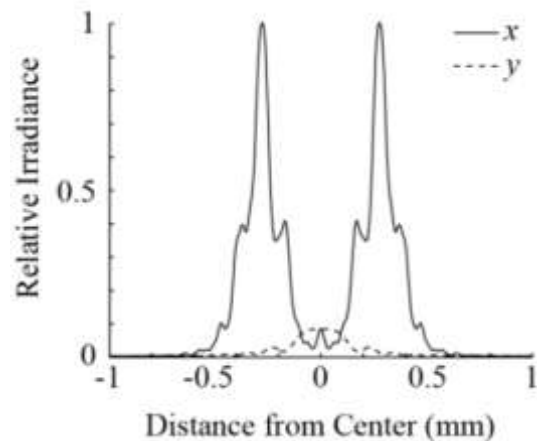
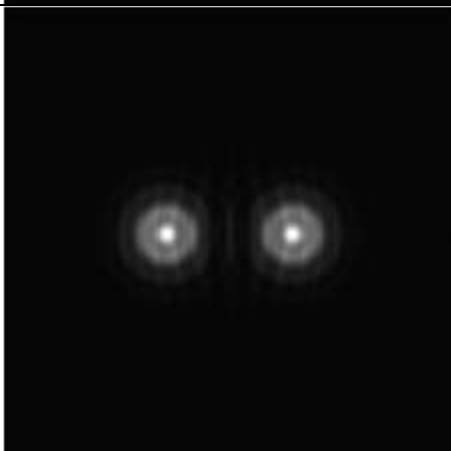
$N_f = 10$
 $a = 0.5 \text{ mm}$
 $L = 50 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 9$
 $a = 0.5 \text{ mm}$
 $L = 55.6 \text{ mm}$
 $\lambda = 500 \text{ nm}$

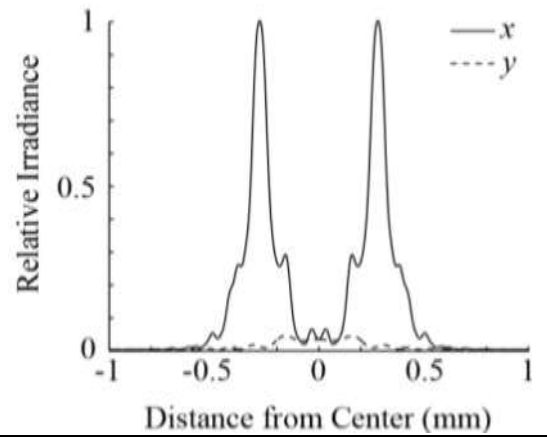
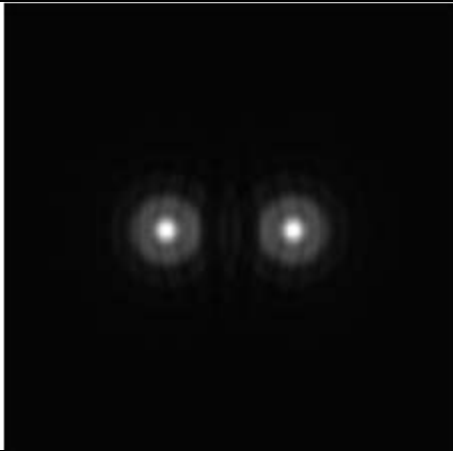


$N_f = 8$
 $a = 0.5 \text{ mm}$
 $L = 62.5 \text{ mm}$
 $\lambda = 500 \text{ nm}$

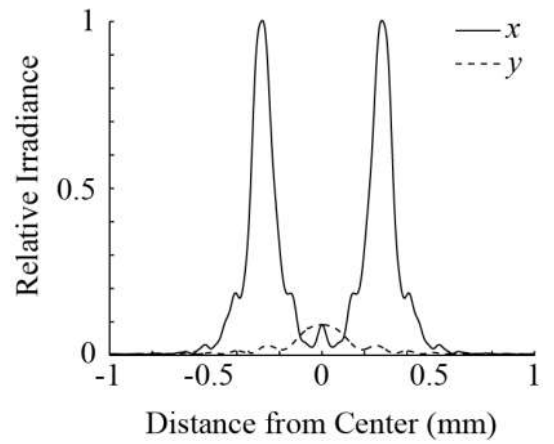
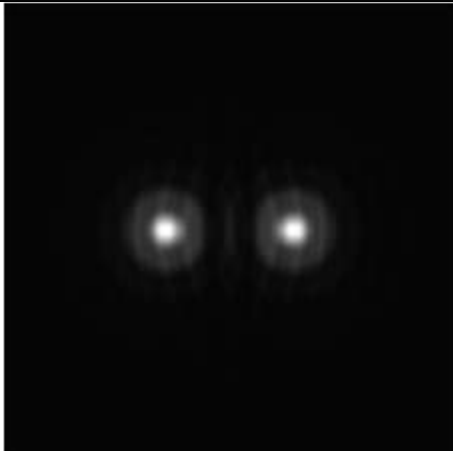


Uniform Illumination on 2 Circles

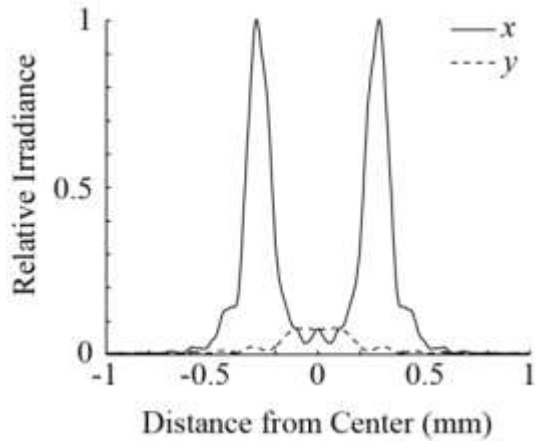
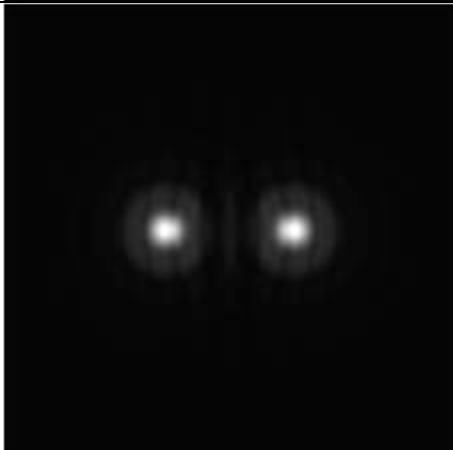
$N_f = 7$
 $a = 0.5 \text{ mm}$
 $L = 71.4 \text{ mm}$
 $\lambda = 500 \text{ nm}$



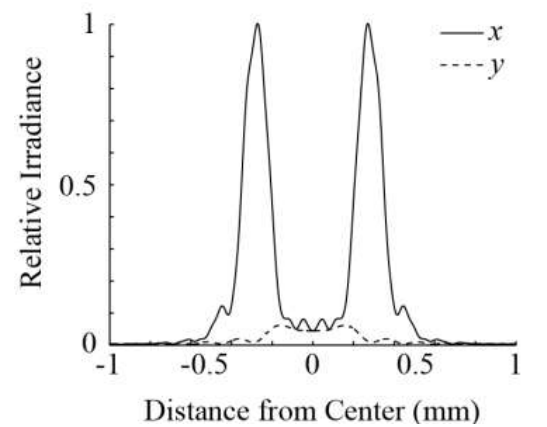
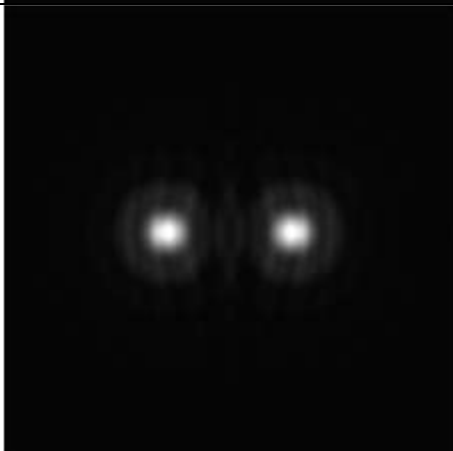
$N_f = 6$
 $a = 0.5 \text{ mm}$
 $L = 83.3 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 5.5$
 $a = 0.5 \text{ mm}$
 $L = 90.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

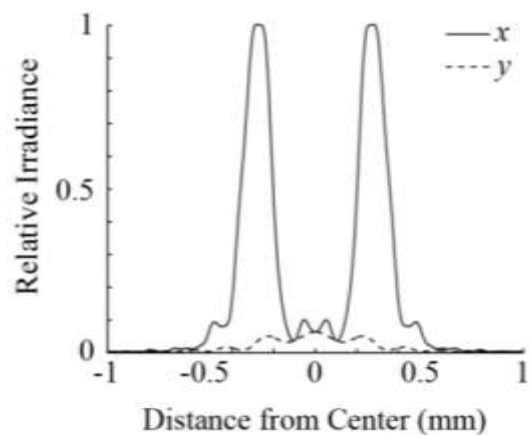
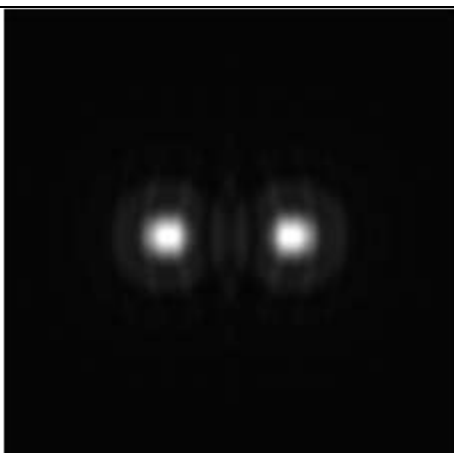


$N_f = 5$
 $a = 0.5 \text{ mm}$
 $L = 100 \text{ mm}$
 $\lambda = 500 \text{ nm}$

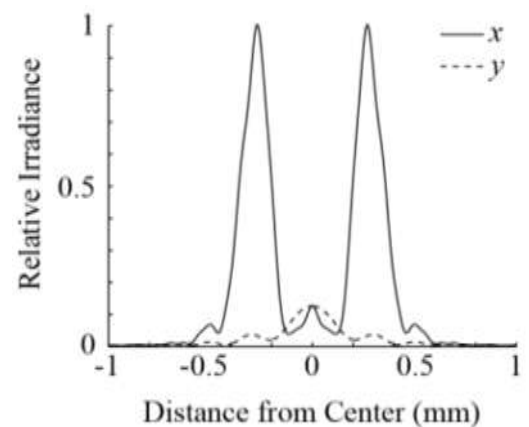
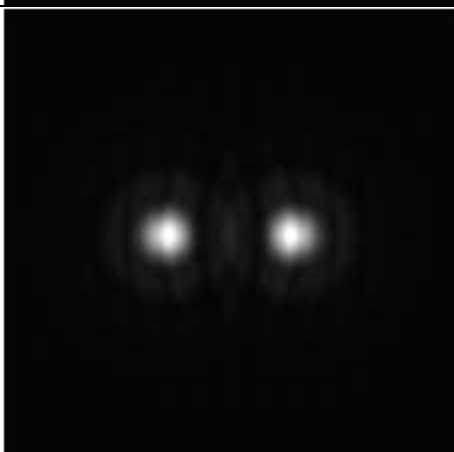


Uniform Illumination on 2 Circles

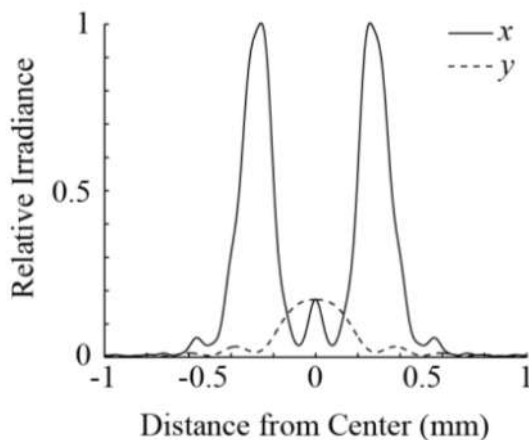
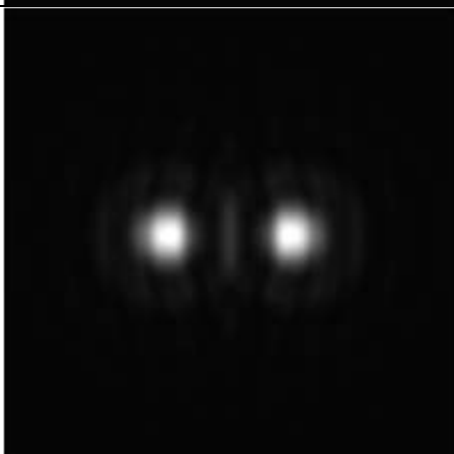
$N_f = 4.5$
 $a = 0.5 \text{ mm}$
 $L = 111 \text{ mm}$
 $\lambda = 500 \text{ nm}$



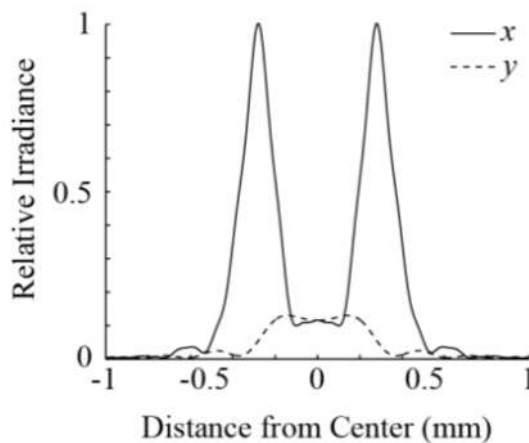
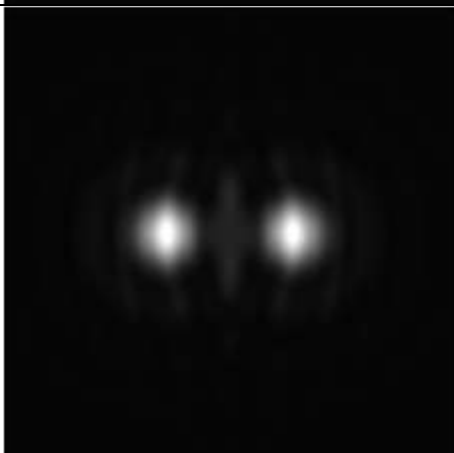
$N_f = 4$
 $a = 0.5 \text{ mm}$
 $L = 125 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 3.5$
 $a = 0.5 \text{ mm}$
 $L = 142.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

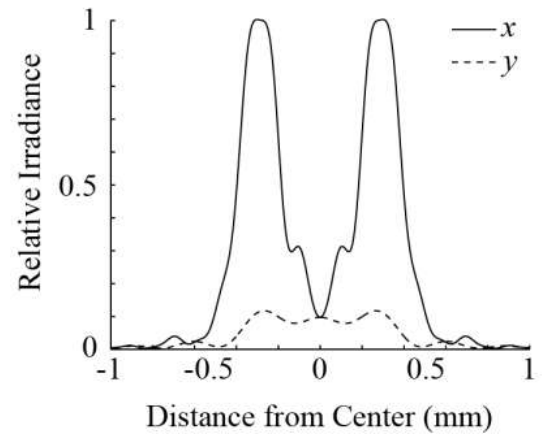
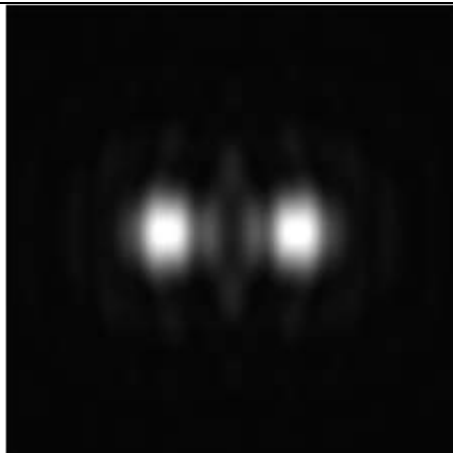


$N_f = 3$
 $a = 0.5 \text{ mm}$
 $L = 166.7 \text{ mm}$
 $\lambda = 500 \text{ nm}$

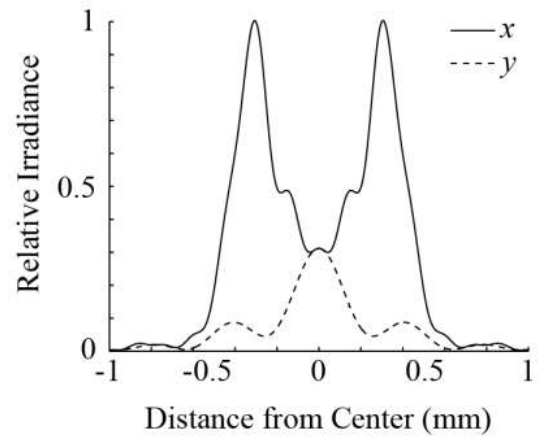
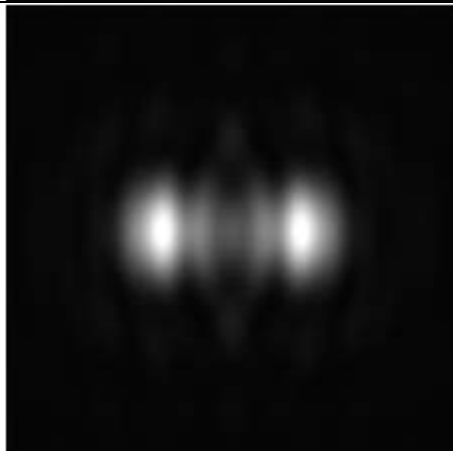


Uniform Illumination on 2 Circles

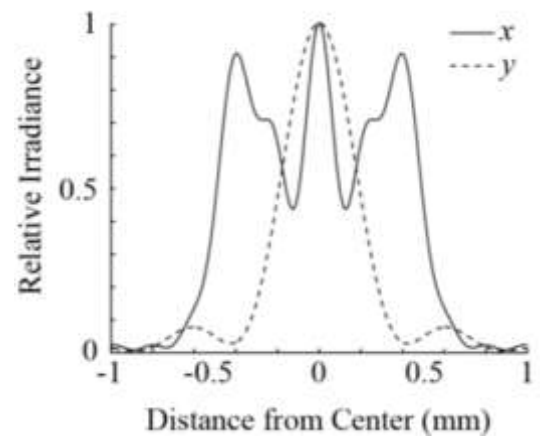
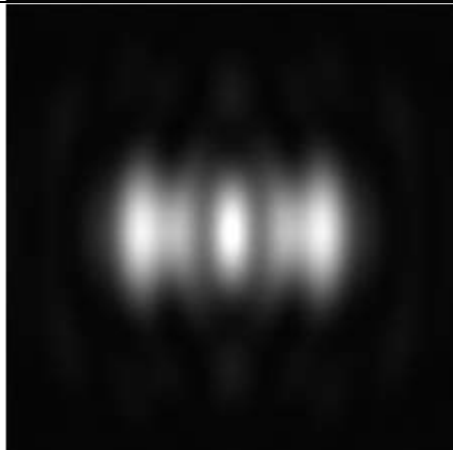
$N_f = 2.5$
 $a = 0.5 \text{ mm}$
 $L = 200 \text{ mm}$
 $\lambda = 500 \text{ nm}$



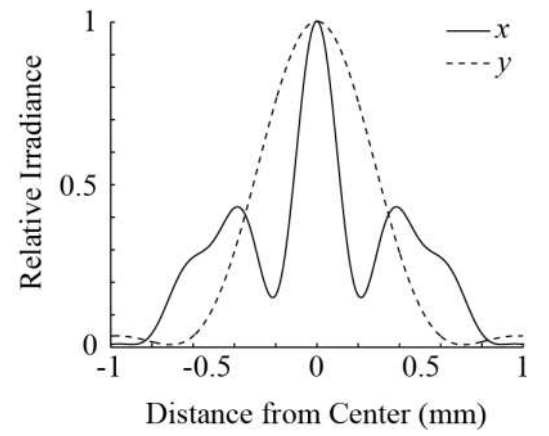
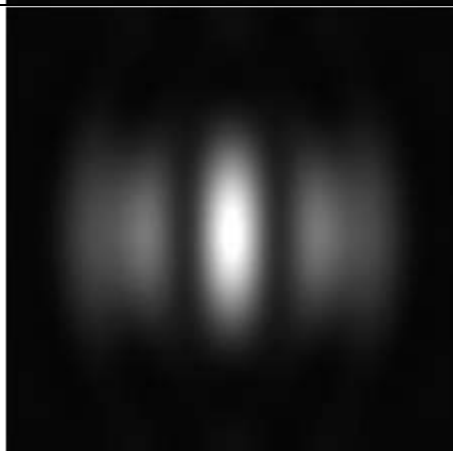
$N_f = 2$
 $a = 0.5 \text{ mm}$
 $L = 250 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1.5$
 $a = 0.5 \text{ mm}$
 $L = 333 \text{ mm}$
 $\lambda = 500 \text{ nm}$

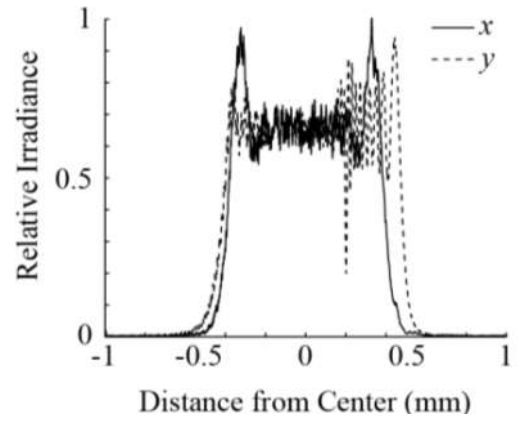
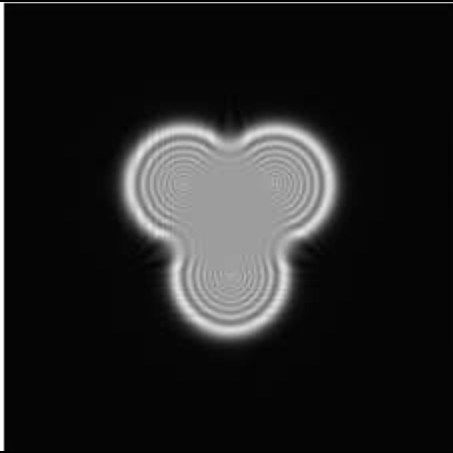


$N_f = 1$
 $a = 0.5 \text{ mm}$
 $L = 500 \text{ mm}$
 $\lambda = 500 \text{ nm}$

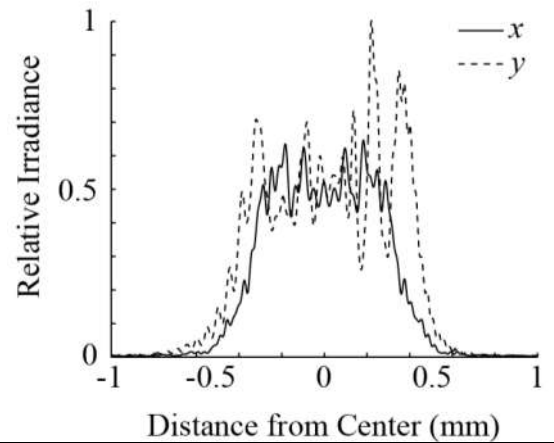
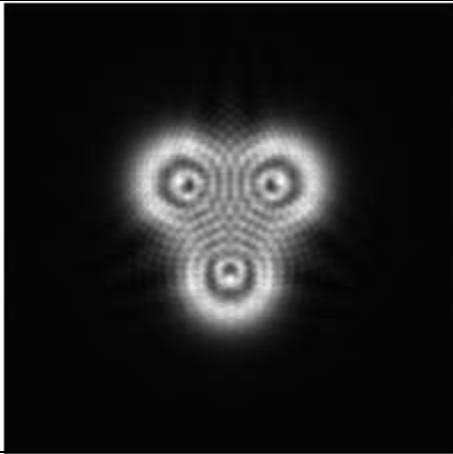


Uniform Illumination on 3 Circles

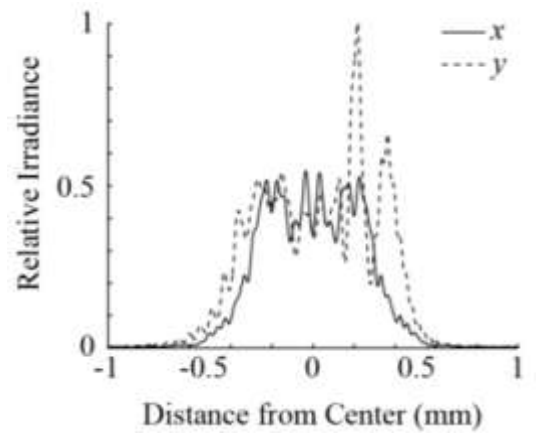
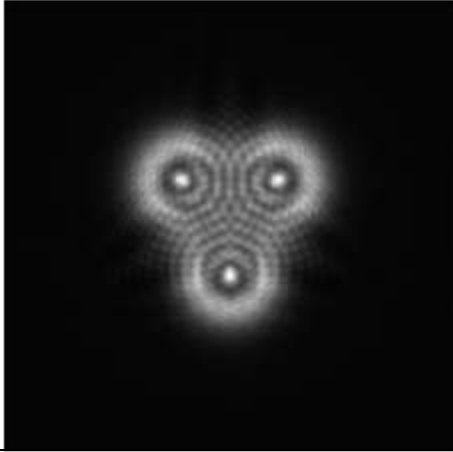
$N_f = 50$
 $a = 0.5 \text{ mm}$
 $L = 10 \text{ mm}$
 1. $\lambda = 500 \text{ nm}$



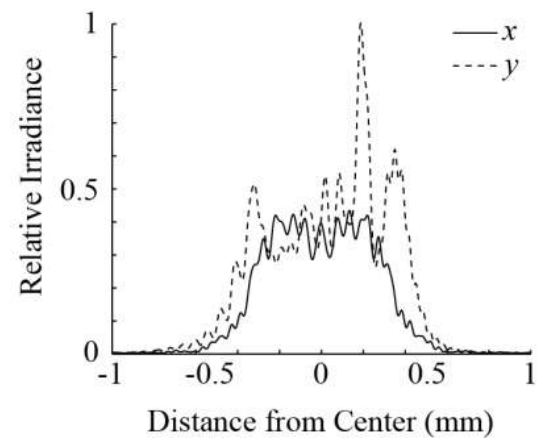
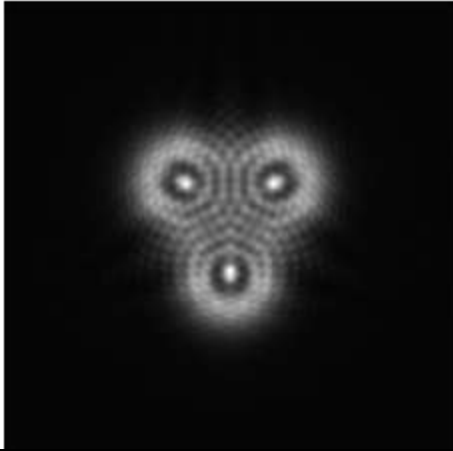
$N_f = 10$
 $a = 0.5 \text{ mm}$
 $L = 50 \text{ mm}$
 $\lambda = 500 \text{ nm}$



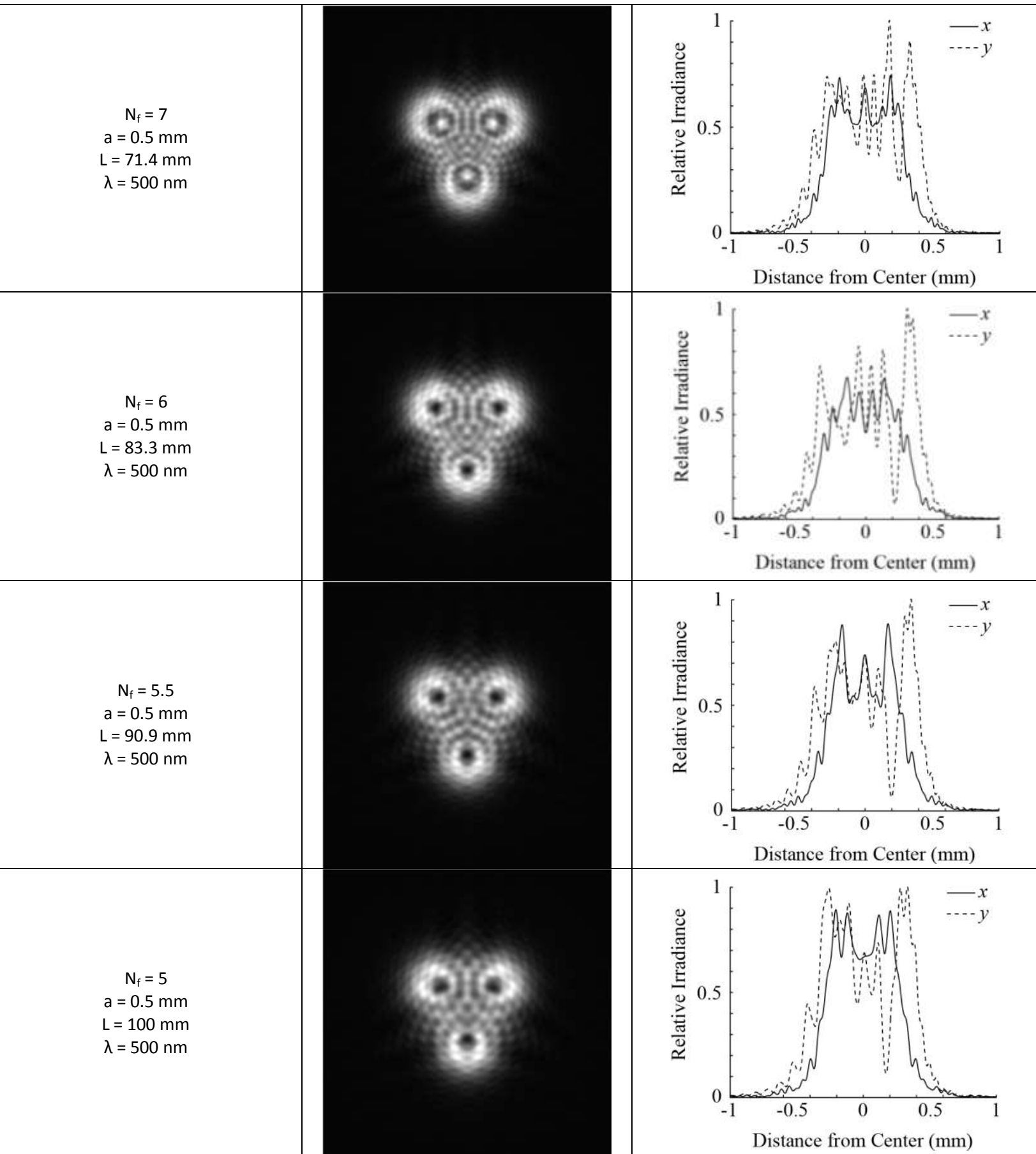
$N_f = 9$
 $a = 0.5 \text{ mm}$
 $L = 55.6 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 8$
 $a = 0.5 \text{ mm}$
 $L = 62.5 \text{ mm}$
 $\lambda = 500 \text{ nm}$

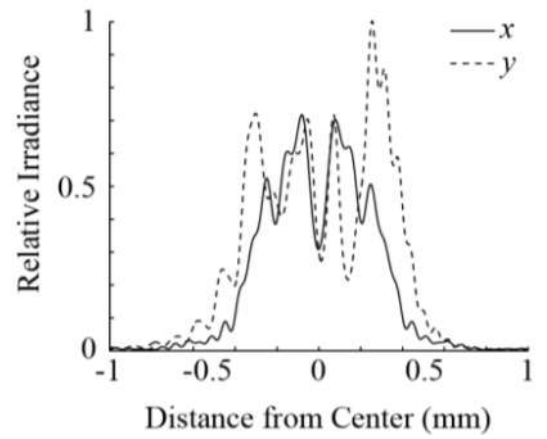
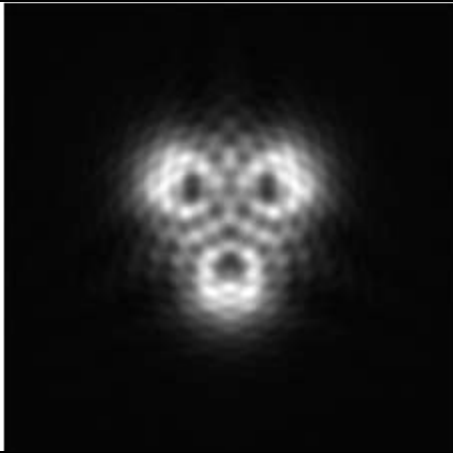


Uniform Illumination on 3 Circles

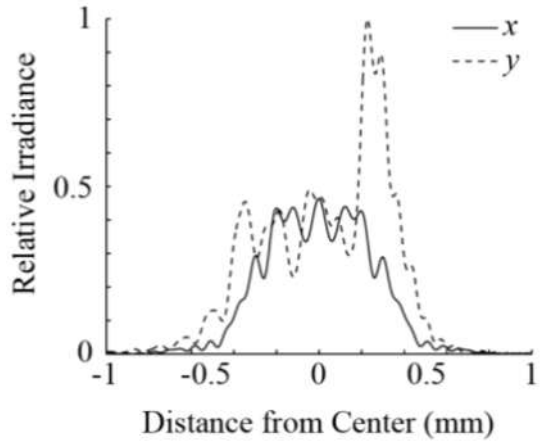
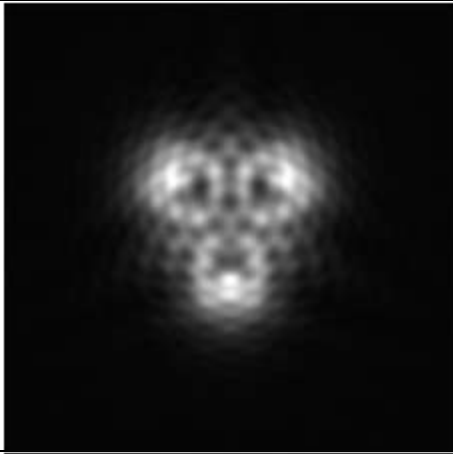


Uniform Illumination on 3 Circles

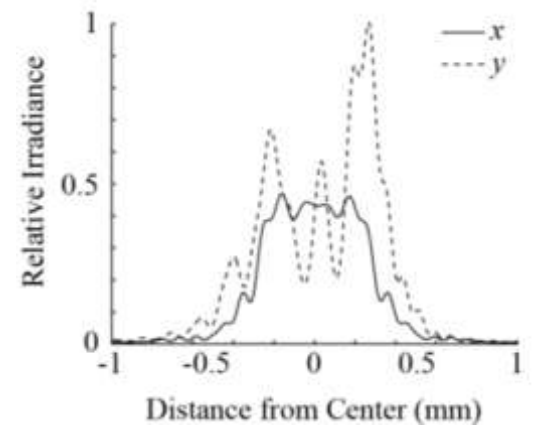
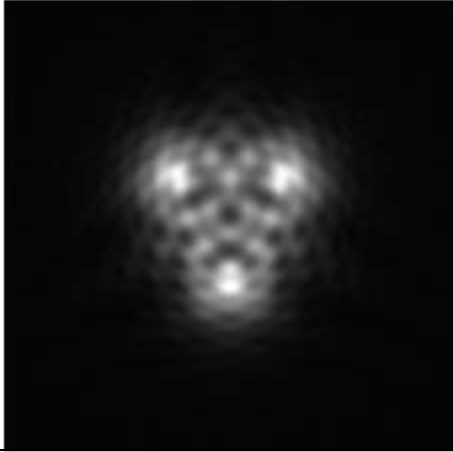
$N_f = 4.5$
 $a = 0.5 \text{ mm}$
 $L = 111 \text{ mm}$
 $\lambda = 500 \text{ nm}$



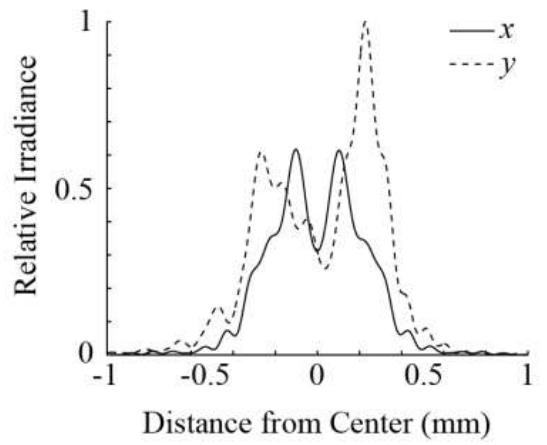
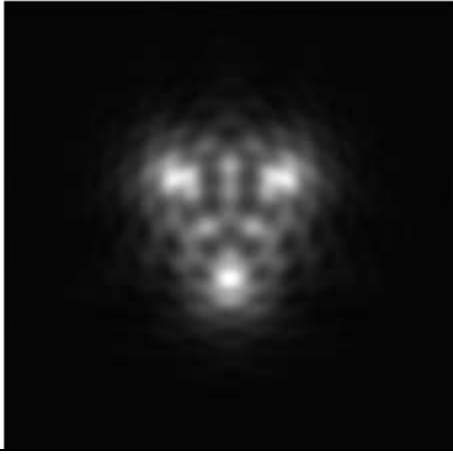
$N_f = 4$
 $a = 0.5 \text{ mm}$
 $L = 125 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 3.5$
 $a = 0.5 \text{ mm}$
 $L = 142.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

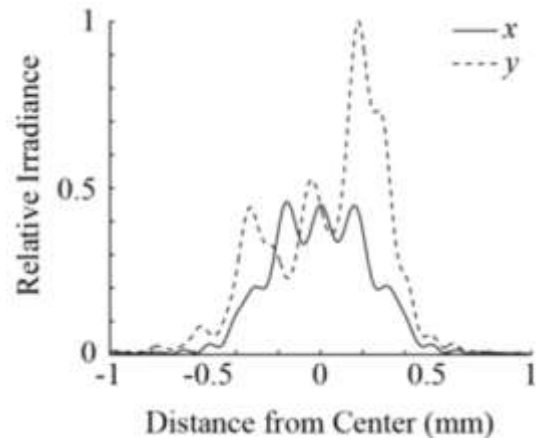
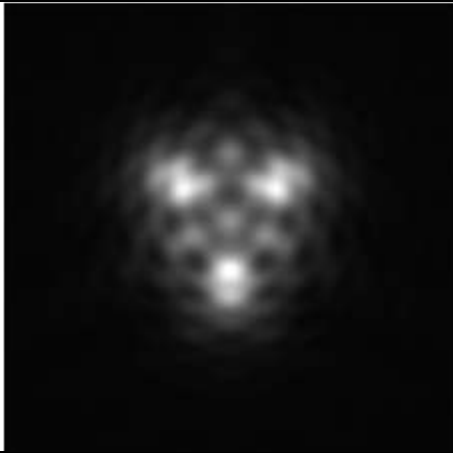


$N_f = 3$
 $a = 0.5 \text{ mm}$
 $L = 166.7 \text{ mm}$
 $\lambda = 500 \text{ nm}$

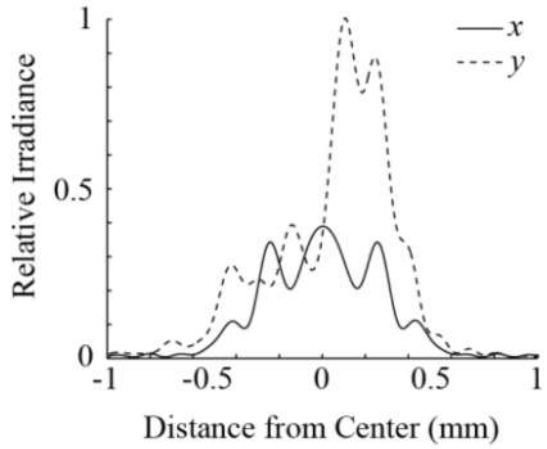
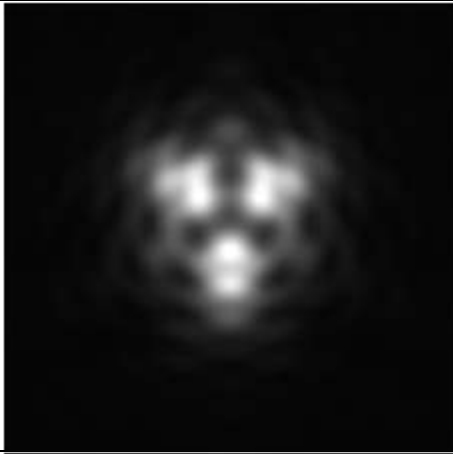


Uniform Illumination on 3 Circles

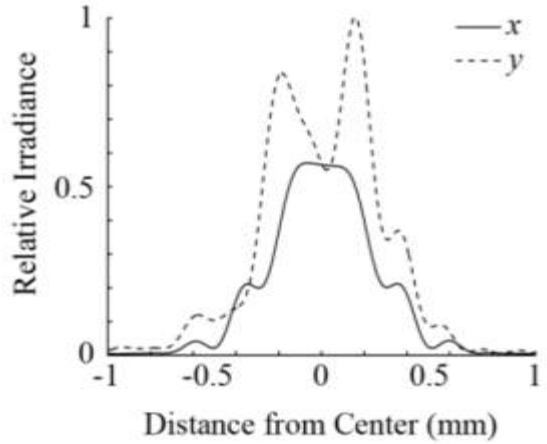
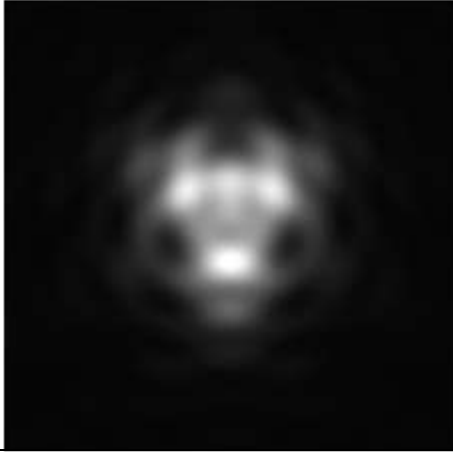
$N_f = 2.5$
 $a = 0.5 \text{ mm}$
 $L = 200 \text{ mm}$
 $\lambda = 500 \text{ nm}$



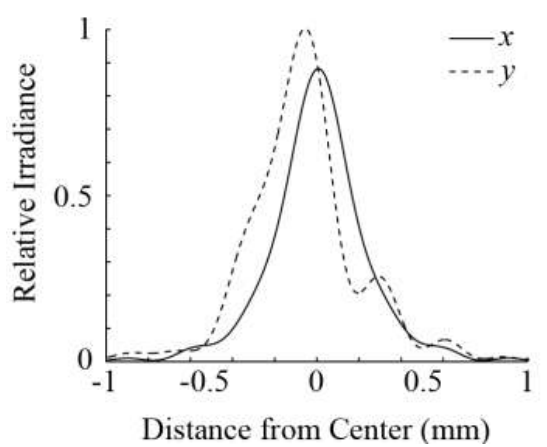
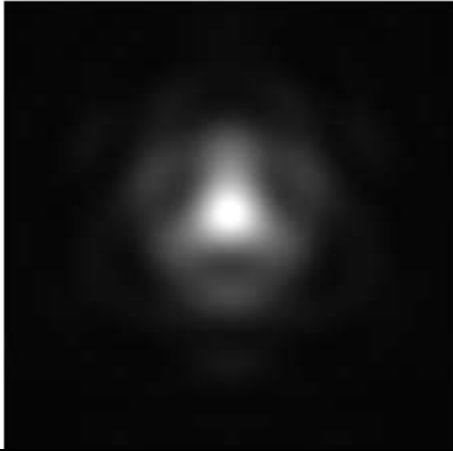
$N_f = 2$
 $a = 0.5 \text{ mm}$
 $L = 250 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1.5$
 $a = 0.5 \text{ mm}$
 $L = 333 \text{ mm}$
 $\lambda = 500 \text{ nm}$

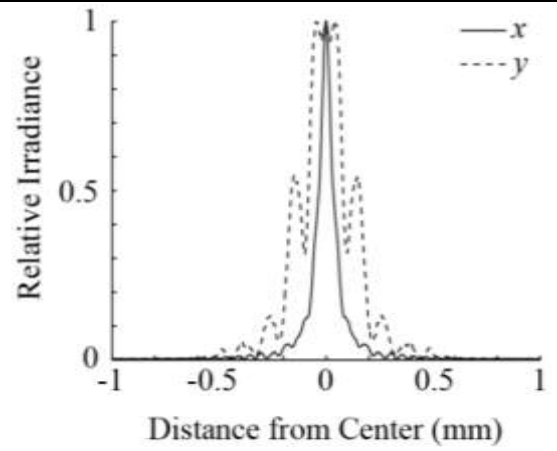


$N_f = 1$
 $a = 0.5 \text{ mm}$
 $L = 500 \text{ mm}$
 $\lambda = 500 \text{ nm}$

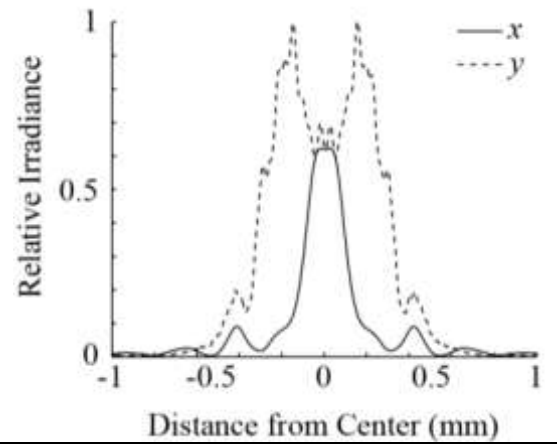
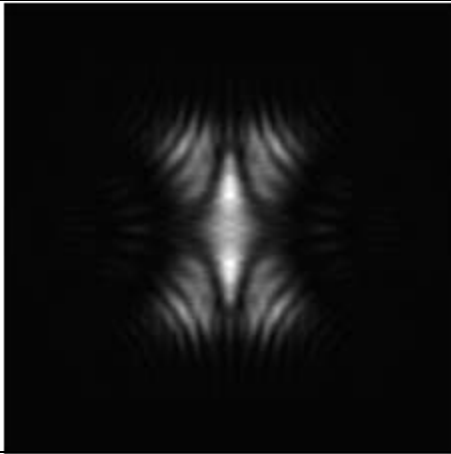


Uniform Illumination on "X"

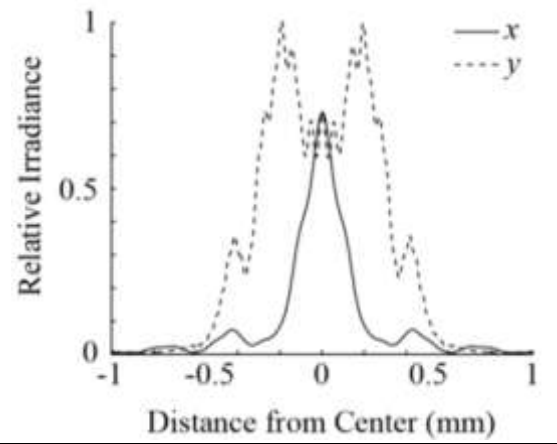
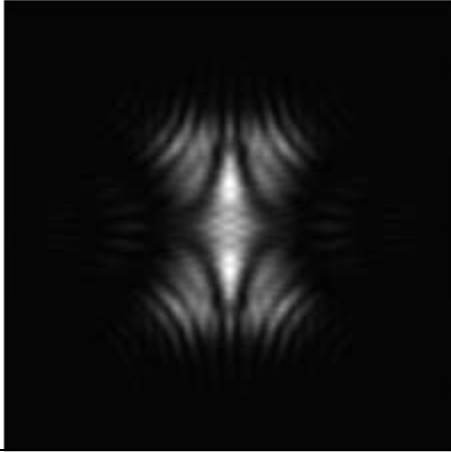
$N_f = 50$
 $a = 0.5 \text{ mm}$
 $L = 10 \text{ mm}$
 1. $\lambda = 500 \text{ nm}$



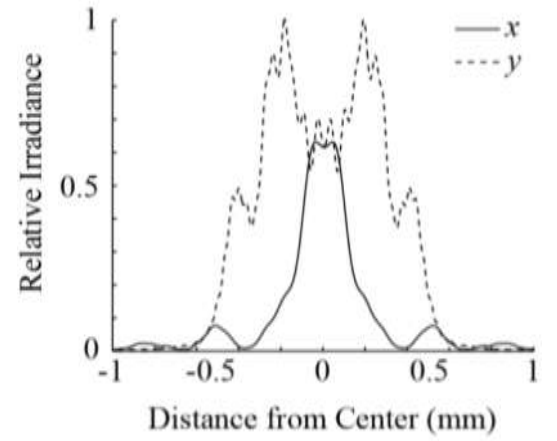
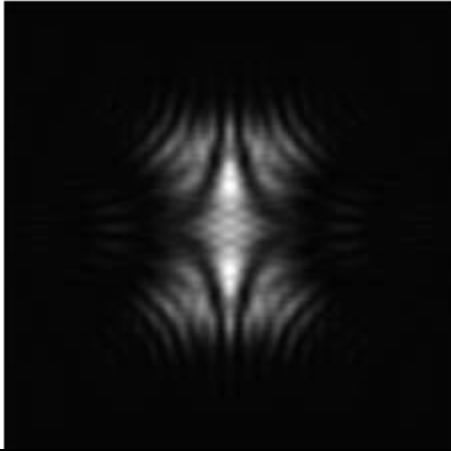
$N_f = 10$
 $a = 0.5 \text{ mm}$
 $L = 50 \text{ mm}$
 $\lambda = 500 \text{ nm}$



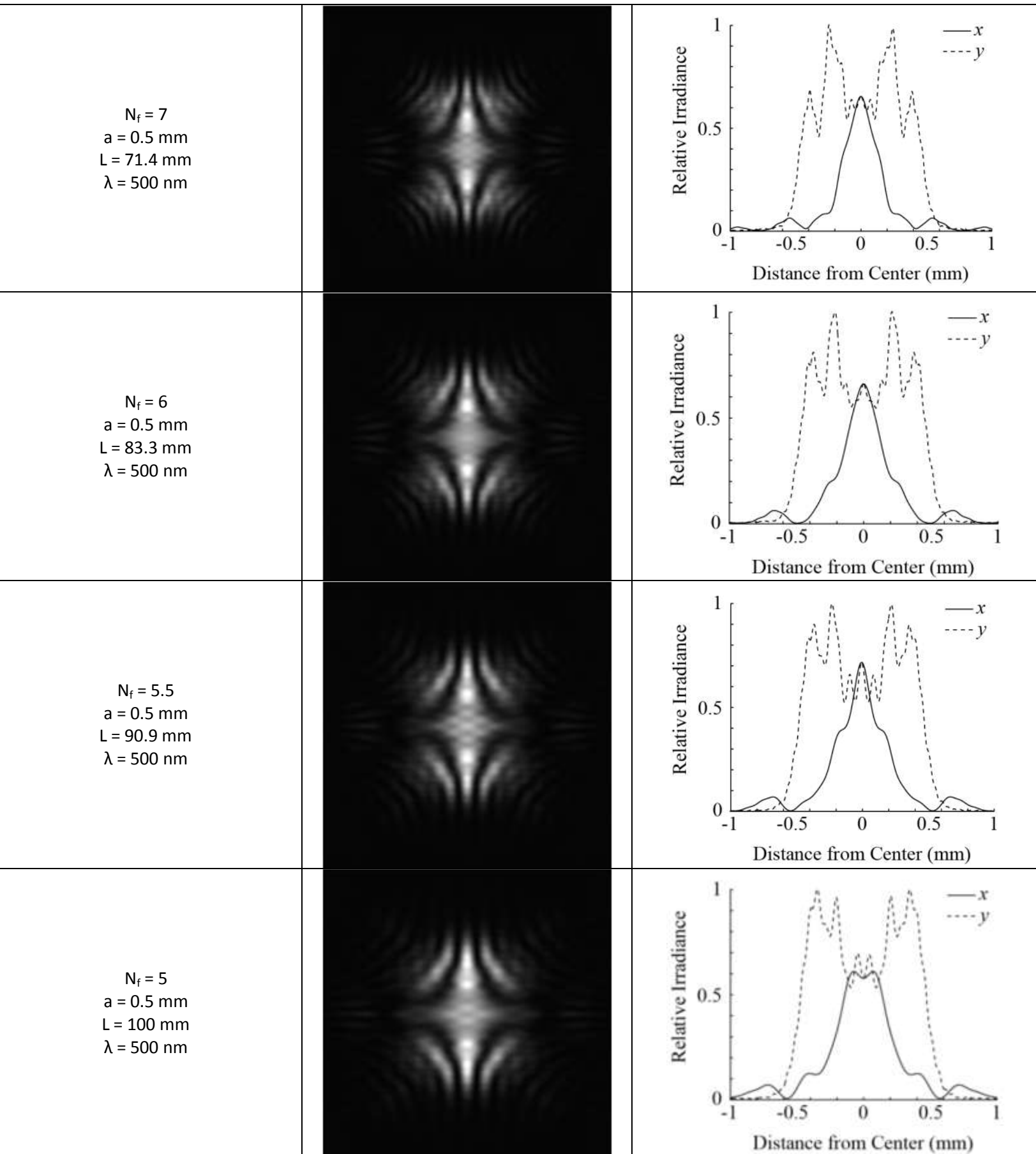
$N_f = 9$
 $a = 0.5 \text{ mm}$
 $L = 55.6 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 8$
 $a = 0.5 \text{ mm}$
 $L = 62.5 \text{ mm}$
 $\lambda = 500 \text{ nm}$

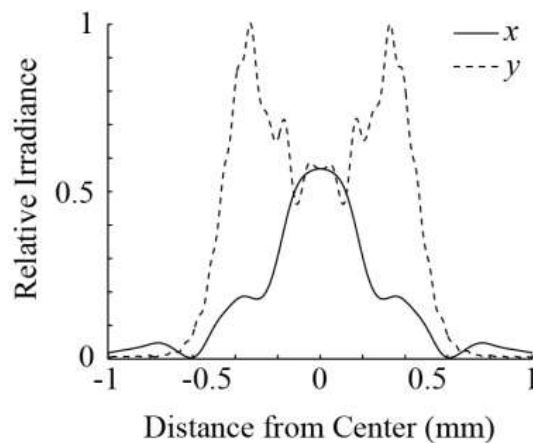
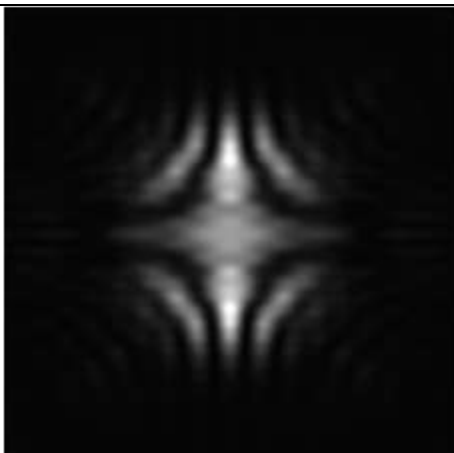


Uniform Illumination on "X"

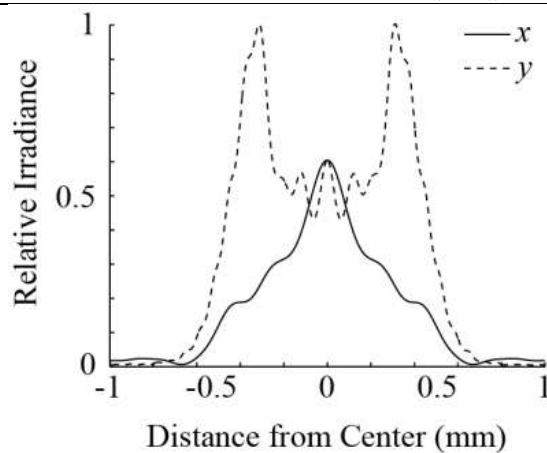
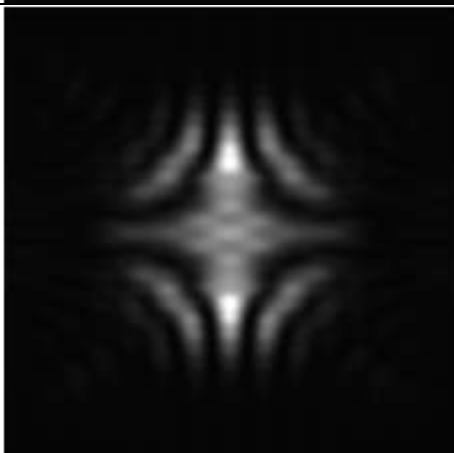


Uniform Illumination on "X"

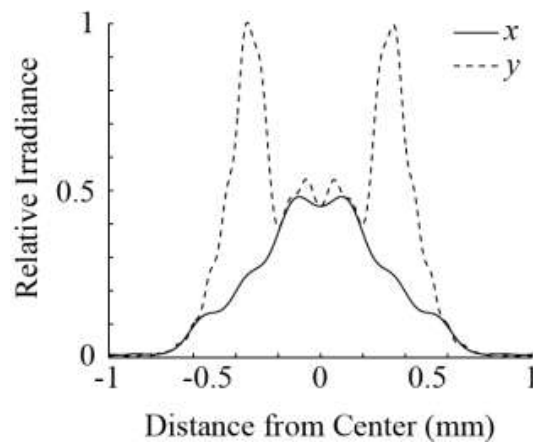
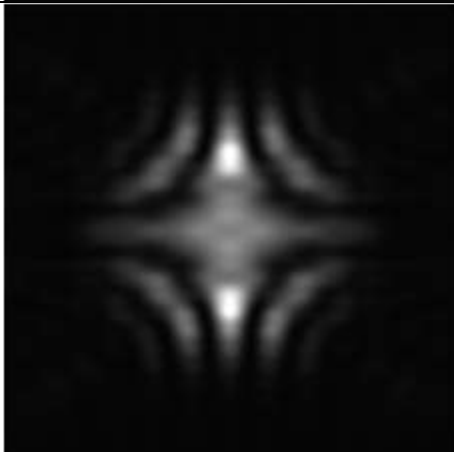
$N_f = 4.5$
 $a = 0.5 \text{ mm}$
 $L = 111 \text{ mm}$
 $\lambda = 500 \text{ nm}$



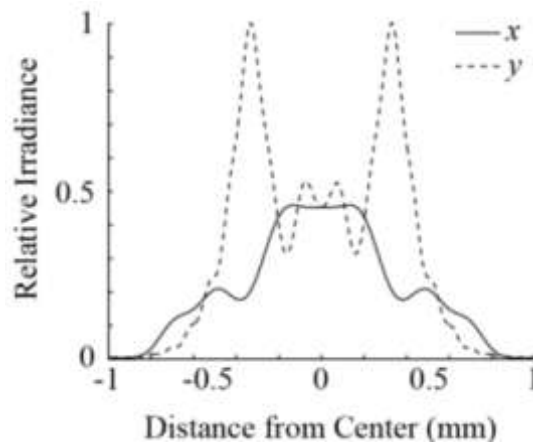
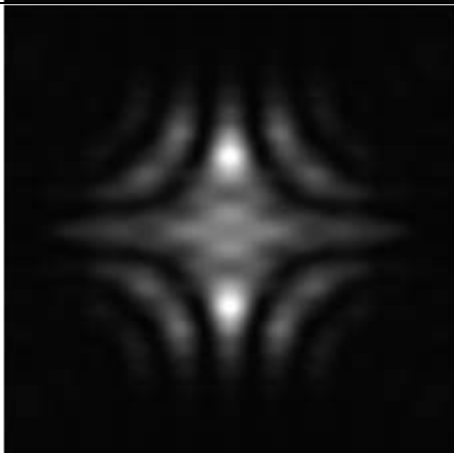
$N_f = 4$
 $a = 0.5 \text{ mm}$
 $L = 125 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 3.5$
 $a = 0.5 \text{ mm}$
 $L = 142.9 \text{ mm}$
 $\lambda = 500 \text{ nm}$

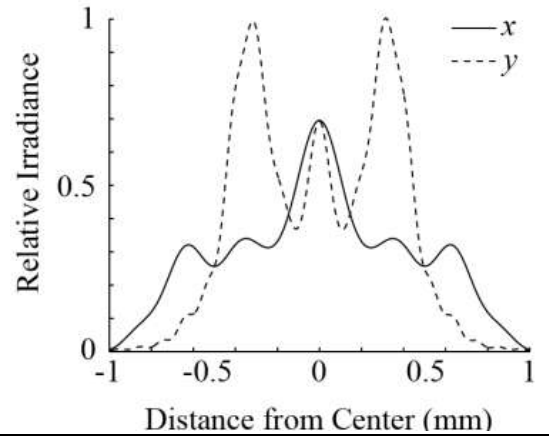
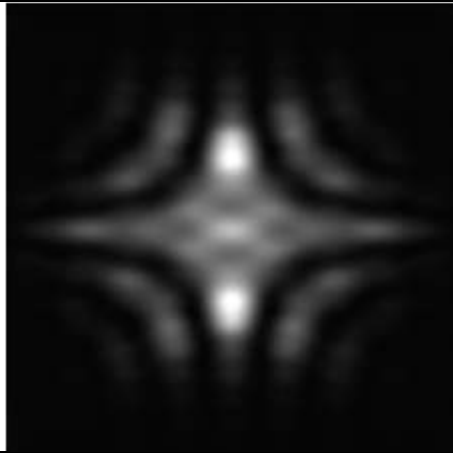


$N_f = 3$
 $a = 0.5 \text{ mm}$
 $L = 166.7 \text{ mm}$
 $\lambda = 500 \text{ nm}$

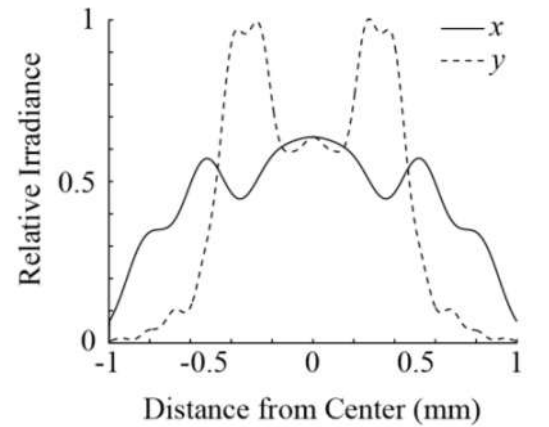
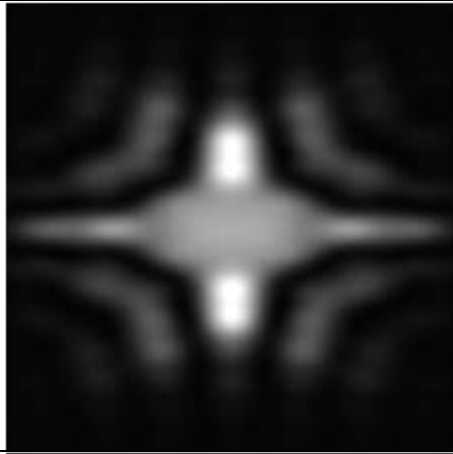


Uniform Illumination on "X"

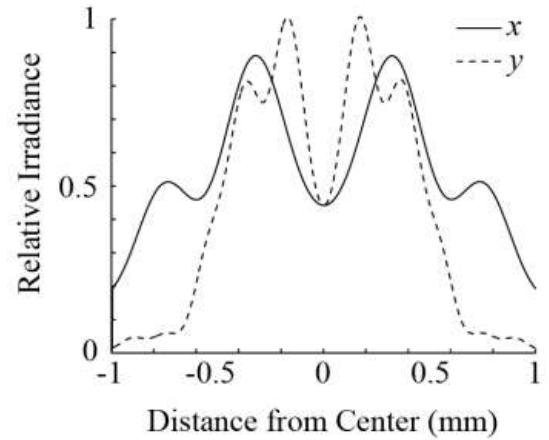
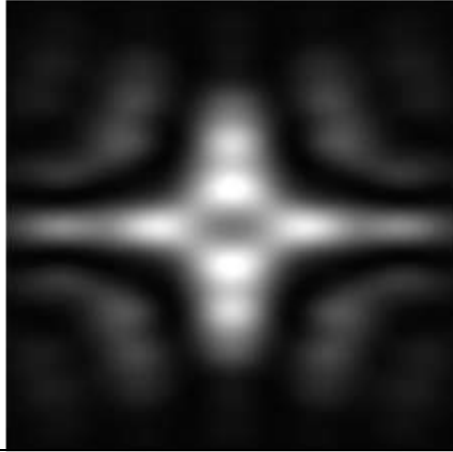
$N_f = 2.5$
 $a = 0.5 \text{ mm}$
 $L = 200 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 2$
 $a = 0.5 \text{ mm}$
 $L = 250 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1.5$
 $a = 0.5 \text{ mm}$
 $L = 333 \text{ mm}$
 $\lambda = 500 \text{ nm}$



$N_f = 1$
 $a = 0.5 \text{ mm}$
 $L = 500 \text{ mm}$
 $\lambda = 500 \text{ nm}$

