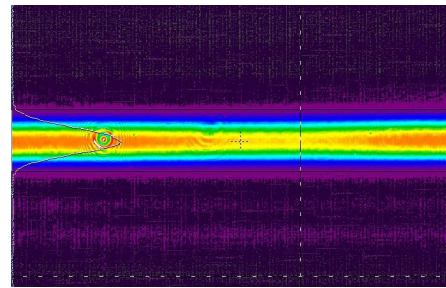
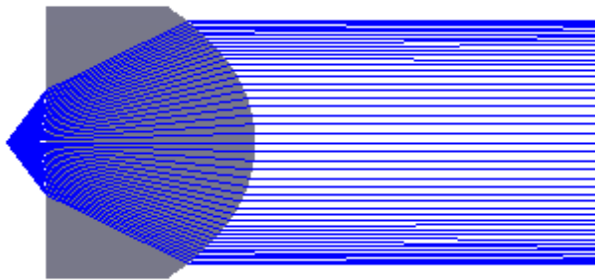




## doric™ acylindrical FAC lens design 01 - long working distance

The Fast-Axis Collimation of laser diodes and laser diode bars requires lenses with aberration-free performance at extremely high numerical aperture. With the recent fine tuning and advancement of our acylindric lens manufacturing technology, we are now proudly offering sidelobes-free FAC lens for NA of up to 0.80. Our cylindrical and acylindric lenses are already well-known for its excellence, but with the latest product quality improvements we believe that we are offering the highest quality FAC lens available on the cylindrical microlens market right now.



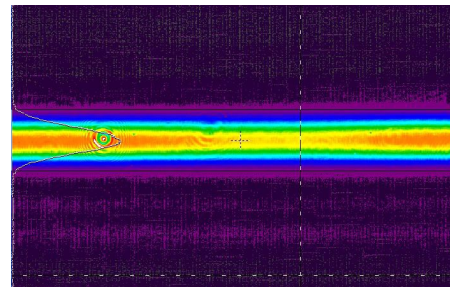
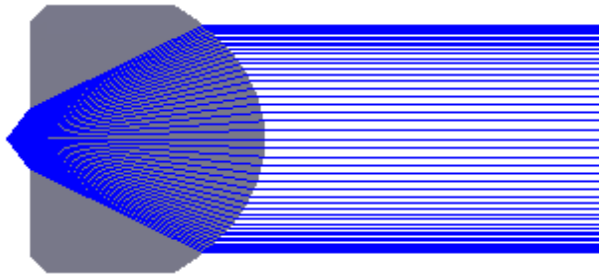
SPECIFICATIONS	SYMBOL	VALUE					
<b>Part number</b>		<b>D141-0363</b>	<b>D141-0362</b>	<b>D141-0361</b>	<b>D141-0360</b>	<b>D141-0356</b>	<b>D141-0372</b> <small>NEW</small>
<b>Effective focal length</b>	EFL	0.900 mm	0.590 mm	0.512 mm	0.320 mm	0.275 mm	0.150 mm
<b>Glass</b>		S-TIH53					
<b>Operating Wavelength</b>	$\lambda_0$	750 - 1100 nm					
<b>Working distance</b>	WD	0.228 mm	0.150 mm	0.130 mm	0.081 mm	0.070 mm	0.038 mm
<b>Diffraction Limited Divergence*</b>	DIV	1.1 mrad	1.7 mrad	1.9 mrad	3.1 mrad	3.6 mrad	6.6 mrad
<b>Lens Height</b>	H	1.60 +/- 0.040 mm	1.05 +/- 0.030 mm	0.91 +/- 0.030 mm	0.570 +/- 0.015 mm	0.490 +/- 0.010 mm	0.267 +/- 0.010 mm
<b>Central Thickness</b>	CT	1.22 +/- 0.040 mm	0.80 +/- 0.030 mm	0.70 +/- 0.030 mm	0.435 +/- 0.015 mm	0.375 +/- 0.010 mm	0.204 +/- 0.010 mm
<b>Length</b>	L	custom +/- 0.05 mm					
<b>Focal length tolerance</b>	$\Delta$ EFL	+/- 3 %					
<b>Numerical aperture</b>	NA	0.80					
<b>Collimated power within angle</b>	P	> 80% within 1.15 x DIV > 85% within 1.30 x DIV					
<b>AR coating</b>	AR	2S-NIR : broad band AR coating (R < 0.5% @ 790 - 990 nm)					
<b>Note</b>		other size and custom AR coating are available upon request side or bottom tabs are available upon request					

\* assuming 1  $\mu$ m height emitter



## doric™ acylindrical FAC lens design 02 - short working distance

The Fast-Axis Collimation of laser diodes and laser diode bars requires lenses with aberration-free performance at extremely high numerical aperture. With the recent fine tuning and advancement of our acylindric lens manufacturing technology, we are now proudly offering sidelobes-free FAC lens for NA of up to 0.80. Our cylindrical and acylindric lenses are already well-known for its excellence, but with the latest product quality improvements we believe that we are offering the highest quality FAC lens available on the cylindrical microlens market right now.



SPECIFICATIONS	SYMBOL	VALUE						
<b>Part number</b>		<b>D141-0761</b> <small>NEW</small>	<b>D141-0759</b>	<b>D141-0762</b> <small>NEW</small>	<b>D141-0758</b>	<b>D141-0757</b>	<b>D141-0756</b>	<b>D141-0755</b>
<b>Effective focal length</b>	EFL	1.200 mm	0.900 mm	0.750 mm	0.590 mm	0.512 mm	0.320 mm	0.275 mm
<b>Glass</b>		S-TIH53						
<b>Operating Wavelength</b>	$\lambda_0$	750 - 1100 nm						
<b>Working distance</b>	WD	0.176 mm	0.132 mm	0.110 mm	0.086 mm	0.075 mm	0.047 mm	0.040 mm
<b>Diffraction Limited Divergence*</b>	DIV	0.9 mrad	1.1 mrad	1.3 mrad	1.7 mrad	1.9 mrad	3.1 mrad	3.6 mrad
<b>Lens Height</b>	H	2.13 +/- 0.05 mm	1.60 +/- 0.04 mm	1.33 +/- 0.03 mm	1.05 +/- 0.03 mm	0.91 +/- 0.03 mm	0.57 +/- 0.015 mm	0.49 +/- 0.01 mm
<b>Central Thickness</b>	CT	1.87 +/- 0.05 mm	1.40 +/- 0.04 mm	1.17 +/- 0.03 mm	0.92 +/- 0.03 mm	0.80 +/- 0.03 mm	0.50 +/- 0.015 mm	0.43 +/- 0.01 mm
<b>Length</b>	L	custom +/- 0.05 mm						
<b>Focal length tolerance</b>	$\Delta$ EFL	+/- 3 %						
<b>Numerical aperture</b>	NA	0.80						
<b>Collimated power within angle</b>	P	> 80% within 1.15 x DIV > 85% within 1.30 x DIV						
<b>AR coating</b>	AR	2S-NIR : broad band AR coating (R < 0.5% @ 790 – 990 nm)						
<b>Note</b>		other size and custom AR coating are available upon request						
		side or bottom tabs are available upon request						

\* assuming 1  $\mu$ m height emitter