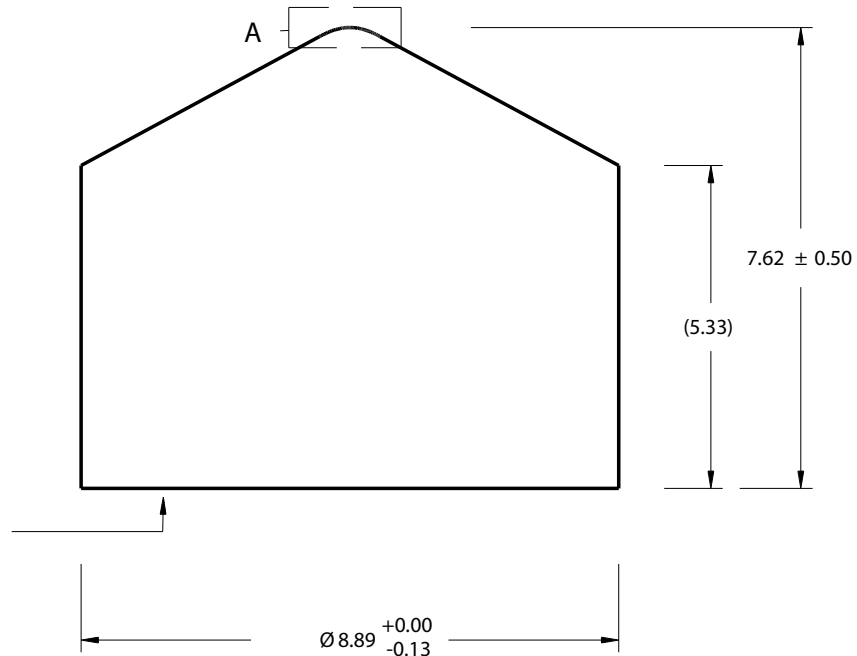
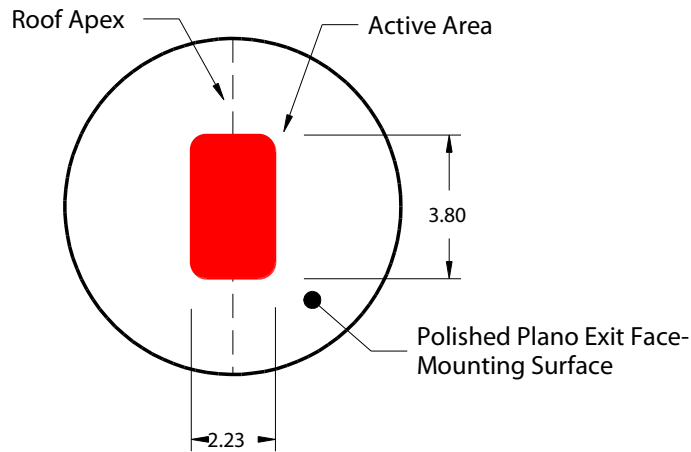
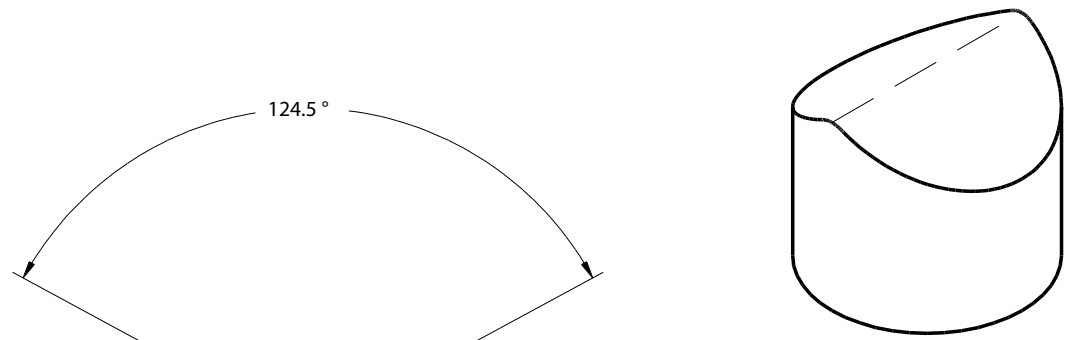


Detail A



Fan angle:  $30^\circ \pm 3\%$   
 Beam Size(1): 1  
 Line uniformity(2):  $<30\%$  total variation  
 Contained power(2):  $80\% \pm 5\%$   
 Bore site:  $<4$  mrad  
 Line straightness(2):  $<0.1\%$   
 Substrate(3): BK7 or equivalent (RoHS Compliant)  
 Coating: None  
 Performance specifications assume lens matched to laser/collimator

(1) Based on  $1/e^2$   
 (2) Measured over central 80% of line length  
 (3) RoHS Directive 2002/95/EC Compliant  
 All dimensions in millimeters  
 Specifications subject to change without notice

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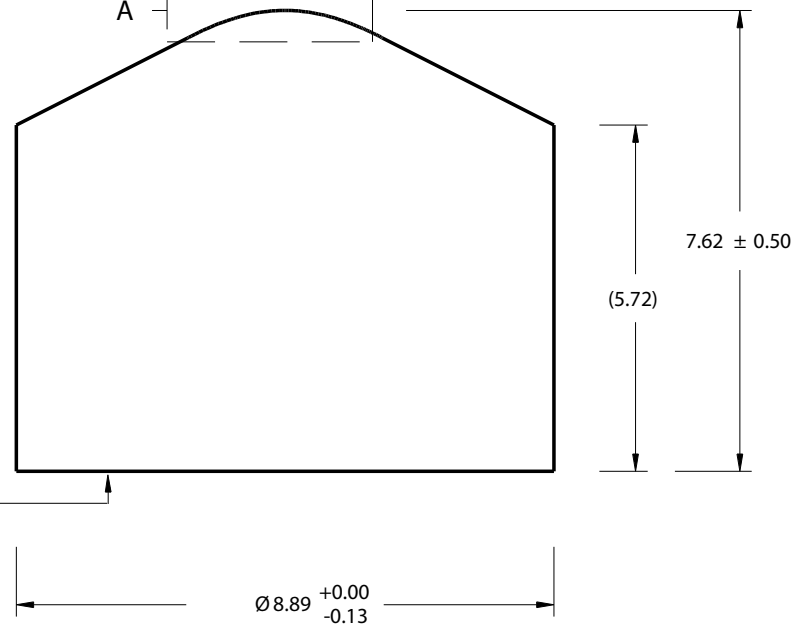
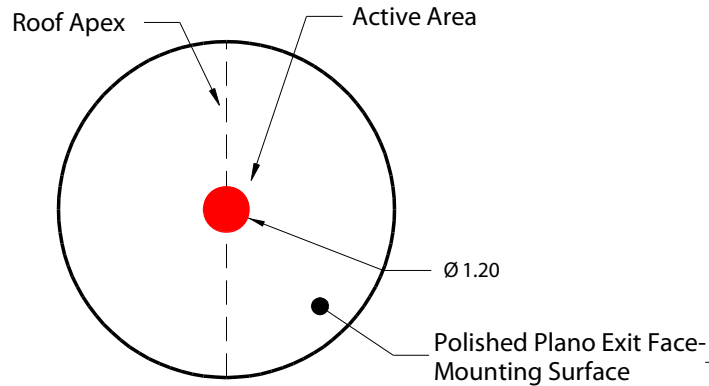
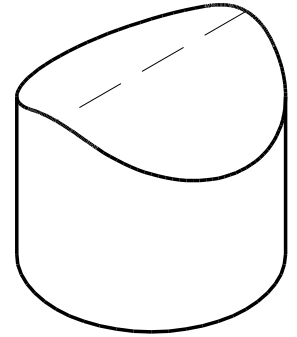
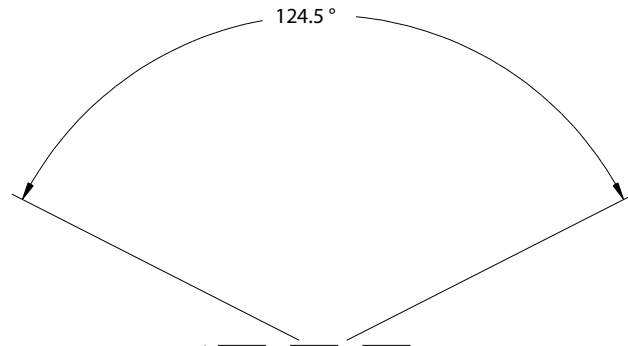
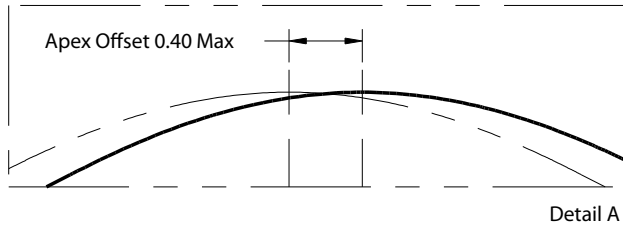
Scale: 8:1

05/04/2012

Project:

Laserline Optics Canada Powell Lenses

30° narrow beam Powell lens



Fan angle: 30° ± 3%  
 Beam Size(1): 3.8  
 Line uniformity(2): <30% total variation  
 Contained power(2): 80% ± 5%  
 Bore site: <4 mrad  
 Line straightness(2): <0.1%  
 Substrate(3): BK7 or equivalent (RoHS Compliant)  
 Coating: None  
 Performance specifications assume lens matched to laser/collimator

(1) Based on 1/e<sup>2</sup>  
 (2) Measured over central 80% of line length  
 (3) RoHS Directive 2002/95/EC Compliant  
 All dimensions in millimeters  
 Specifications subject to change without notice

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Scale: 8:1

05/04/2012

Project: Laserline Optics Canada Powell Lenses

30° wide beam Powell lens