



Acylindrical Equation

$$Z(y) = \frac{c^2 y^2}{1 + \sqrt{1 - (k + 1)c^2 y^2}} + \sum_{i=2}^8 A_{2i} y^{2i}$$

Acylindrical Coefficients

	S1	S2
R	0.2277	Plano
c	4.3917	
k	-0.4500	
A ₄	1.1353 E0	
A ₆	-2.6433 E1	
A ₈	1.1623 E3	
A ₁₀	-1.929 E4	

Sagittal Distances of Acylindrical Surface

Y (mm)	Z (mm)	
	S1	S2
0.0	0.000000	-
0.12	-0.03323	-
0.24	-0.15584	-

S1		Material/Lens Data		S2	
Radius of Curvature	0.2277 mm	Glass Type	S-TIH53	Radius of Curvature	Plano
Clear Aperture	0.44 mm	n _d / V _d	1.8466 / 23.8	Clear Aperture	0.22 mm
Irregularity	< λ/4 P-V	Focal length	0.275 mm ± 3%	Irregularity	< λ/4 P-V
Centering	Tilt < 0.25°	Numerical Aperture	0.80	Centering	Tilt < 0.25°
Surface Quality	40-20	Design wavelength	808 nm	Surface Quality	40-20
Coating	To be specified			Coating	To be specified

Dimensions in mm
For Information Purposes Only

PROPRIETARY
THE INFORMATION CONTAINED IN THIS DRAWING
IS THE SOLE PROPERTY OF Doric Lenses Inc..
ANY REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
Doric Lenses Inc. IS PROHIBITED.

DO NOT SCALE DRAWING

doric	doriclenses.com
TITLE: ACL_PCX_INF_S-TIH53_0.275(S)	
DWG. NO. D141-0755	
2019-08-08	