Philips Competence Centre Plastics B.V.
Optical Components

All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.
©N.V. PHILIPS' ELECTRONICS 5722 600 20173

Datasheet Plastic Collimator Lens CAY033/040 N670

These data concern a full plastic bi-aspherical lens. It is specified for use as a collimator in combination with a diode laser. It can be mounted by use of glue or spring-loaded. Mechanical lock-mounting is not advisable because of possible distortions.

Parameters		**Wavelength 670 nm**	**Unit**
Design conditions			
N.A.		0.38	--
Clear Aperture *CA*		2.5	mm
Designed with laser cover glass (*BK7*) on source side:			
Distance from source		0.55	mm
Glass thickness		0.25	mm
Optical parameters			
Focal Length		3.35	mm
Back Focal Length *BFL*		2.07	mm
Free Working Distance *FWD*		1.97	mm
RMS mean	on axis	30	mλ
	total		
RMS max. (±3σ)	on axis	40	mλ
	total	65	mλ
Optical Tolerance		0.1	mm
Field Radius		0.05	mm
Mechanical parameters			
Mounting hole diameter D_{mh}		∅ 4.0 (+ 0.03)	mm
Other parameters: see drawing			
Environmental stability			
Storage Temperature		-25 to 70	°C
Operating Temperature		5 to 65	°C

General Data:
Transmission: 90 % for 670 nm
Lens Material: Acrylic

Specifications subject to change without notice.
Zemax catalogue file available.

Alle rechten voorbehouden. Verveelvoudiging, geheel of gedeeltelijk is niet toegestaan dan met schriftelijke toestemming van de auteursrechthebbende.