10.0MM ELLIPTICAL TIR

Status	Production
Part no.	10415
Drawing no.	60518
Product type	Optic
Туре	TIR
Pieces	1
Diameter	10.0
Height	6.00
Beam	Elliptical
Flange	Yes
Files	Customer 3D model (.igs) Customer drawing (PDF)



LEDs & Performances	Eff.	FWHM	Cd/Im	Spot	Cross-section	Files
Lumileds Luxeon Rebel Cool White	84.3%	46x16	3.1			10415_Rebel_White_250408.ies
Lumileds Luxeon Rebel Neutral White	85.5%	43 x 19	2.9			10415_Rebel_Neutral_White_250408.ies
Lumileds Luxeon Rebel Warm White	85.4%	44.1 x 17.4	3.7	-		10415_Rebel_Warm_White_250408.ies
Cree XP-E XLamp® White	88.1%	43 x 16	3.5			10415_cree_xpe_white_250408.ies
Cree XP-G XLamp® White	86.5%	43.6 x 23.3	2.6			10415_cree_xpg_white_250408.ies
Osram SSL 80 degree Oslon Ultra White	85.5%	44.8x19.7	3.2	-		10415_Oslon_wht_250408.ldt 10415_Oslon_wht_250408.ies
Nichia NCSL 119-H3 Top Emitting Warm White	81.4%	44.7x21.7	2.3			10415_Nichia_119_Warm_White_250408.ies
SSC Z5 Cool White	84.3%	44.5 x 16.2	3.7	-		10415_Seoul_Z5_white_250408.ies
Everlight Shuen Warm White	82.6%	45.1	2.3			10415_Shuen_wwht_250408.ies
Everlight Shuen Cool White	81.7%	44.5	2.1		-	10415_Shuen_cwht_250408.ies
Lumileds C Luxeon Cool White	82.7%	46.3 x 13.6	4.2	-		10415_Luxeon C_white_250408.ies
Lumileds ES Luxeon Rebel Cool White	83.0%	44 x 24.4	2.5			10415_Luxeon_Rebel_ES_cool_white_040311.ies

Carcio Technical Flashes 105 Duckinghan Ave, Slough, Derkshire, SLT 4FF ENGLAND Tel: +44 (0)1753 575011 Fax: +44 (0)1753 811359

Cree XP-C White	87.8%	46.2 x 12.5	5.0	-		10415_Cree_XP-C_white_220611.ies
Osram SSL 150 degree Oslon Neutral White	87.1%	45.5x16.3	4.1		557.	10415_Oslon 150_neutral white_260711.ies
SSC Z5P pure white	%	46.0 x 20.0	3.2		EVA.	10415_Z5P_purewhite_290911.ies
Cree XB-D XLamp® Warm White	85.6%	20.7 x 44.7	3.0			

Carclo Technical Plastics endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct and up to date information, Carclo suggest using the Opticselect tool on our website http://www.carclo-optics.com. Copyright © Carclo 2010

General Instruction – Optics & Holders

Handling instructions

- Do not handle or install lenses without wearing gloves, skin oils may damage the lens or the light transmission.
- Clean lenses with a mild soap and water and dry with a clean soft cloth.
- Do not use any commercial solvents on lenses.
- Mount holders with low Odour epoxies and allow time for them to out gas to stop lenses fogging.

Disclaimer – Optics & Holders

Please note that flow lines, weld lines, surface scratches and small black or white inclusions within the lenses are acceptable if the optical performance of the lens is within the specification described below:

For all optics except Rippled and Frosted;

• FWHM = Datasheet Value +/-10%.

For all Rippled and Frosted Optics;

• FWHM = Datasheet Value +/-20%

For all Optics;

Efficiency = Datasheet Value +infinity / -10%

The yellowing / browning of polycarbonate lenses and holders can occur due to the natural ageing process and exposure to heat and UV and as such is not covered by Carclo's warranty.

General Instruction – Taped Holders

Click here to view the 3M Technical Data Sheet

When assembling the pre-taped holder onto the mating surface, the application must be made straight and square, so that the tape bonds consistentl
Bond stwithgthatingeperfecent Assembly announangle dhigsive accurate imperfect back-logic logication pressure and moderate heat, from 100°F (38°C) to
130°5 (64%) moderate in assist the size of the table of table of

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• * Carefully read and follow the manufacturer's precautions an

may not be compliant with the rules of certain Air Quality Manageme During assembly the optic when placed on the PCB should be firmly held for 1-5 seconds to ensure the best possible bond. The tape will reach its final stren in 72 hours, dependent on the material and ambient conditions.

We request that the customer ensures (and fully tests) the suitability and sufficiency of the bond in his product. For example, mechanical stress, vibration and holes on the surface of the circuit board can weaken the strength of the tape. Carclo Technical Plastics 103 Buckingham Ave, Slough, Berkshire, SL1 4PF ENGLAND Tel: +44 (0)1753 575011 Fax: +44 (0)1753 811359

Disclaimer – Taped Holders

Shelf Life – There is 1 year expected shelf life from the date of purchase direct from Carclo.

All Carclo lenses supplied with tape use the same high strength double-coated tape (unless otherwise mentioned in the datasheet). This tape is specifically selected for this application.

These tapes generally work well together with PCBs and LEDs on the market. The customer must take the necessary measures to ensure complete compatibility with their particular application, product, PCB, LED and/or other components. **Testing and verifying of the adhesives and their combinations is the responsibility of the customer.**

The customer is solely responsible for evaluating the application of double sided tape to Carclo Holders and the adhesion of double sided tape holders to determine whether such double-sided tape is fit for a particular purpose and suitable for the users method of application. The selection of double-sided tape in the adhesion of double sided tape holders is not covered by Carclo's warranty.

Carclo cannot take responsibility for the results obtained by others whose methods we cannot control. It is always the customer's responsibility to determine the adhesive's suitability for their product and to take precautions for protection of property and persons against any hazards that may be involved in the handling and use of adhesives. Carclo disclaims all warranties, including warranties of merchantability or suitability for a particular purpose, arising from use of any adhesive product. Carclo disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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