

## 30.0MM ELLIPTICAL TIR

<b>Status</b>	Production
<b>Part no.</b>	10759
<b>Product type</b>	Optic
<b>Type</b>	TIR
<b>Pieces</b>	1
<b>Diameter</b>	30.0
<b>Height</b>	15.15
<b>Beam</b>	Elliptical
<b>Flange</b>	Yes
<b>Files</b>	Customer drawing (PDF) Customer 3D model (.igs)



LEDs & Performances	Eff.	FWHM	Cd/lm	Spot	Cross-section	Files
Lumileds ES Luxeon Rebel Cool White	86.2%	48.1 x 8.9	7.0			10759_Luxeon_Rebel_ES_cool_white_070311.ies
Cree MT-G Warm White	85.5%	43.9 x 25.2	2.7			10759_Cree_MT-G_warm_white_250311.ies
Cree XM-L XLamp® White	87.2%	47.7 x 12.2	5.1			10759_Cree_XM-L_white_30-03-11.ies
SSC P7 White	87.5%	47.6 x 15.2	4.0			10759_Seoul_P7_white_130411.ies
Lumileds Rebel (new version) Cool White	87.1%	48.5 x 6.8	9.2			10759_Rebel_cool_white_140411.ies
Osram Ostar Lighting Ostar White	89.1%	48.8 x 8.4	7.1			10759_Ostar_white_190411.ies
Cree XP-G XLamp® White	86.3%	48.5 x 8.2	7.1			10759_cree_xpg_white_260411.ies
Cree XP-C White	85.5%	48.3 x 3.8	14.9			10759_Cree_XP-C_white_290611.ies
Lumileds S Luxeon Warm White	83.5%	48.4 x 22.3	2.9			10759_Luxeon_S_warm_white_080312.ies
SSC Z5P Seoul SC pure white	%	49.9 x 6.2	9.2			10759_Z5P_purewhite_280911.ies
Cree XB-D XLamp® Warm White	81.0%	6.4x47.4	3.2			
Lumileds M Luxeon Warm White	%	47.12x19.13	5			
Cree XT-E XLamp® Cool White	%	47.6 x 7.6	7.8			10759_cree_XTE_150512.ies

Cree XB-D XLamp® Warm White	%	47.4 X 6.4	3.2			10759_CREE_XBD_160512.ies
Cree XP-E XLamp® White	85.5%	48.1 X 6.0	10.1			10759_Cree_XP-E_white_080611.ies
Cree MT-G2 XLamp® Warm White	%	45.6 X 22.7	2.9			10759_MTG2_Warm white_180412.ies
SSC Z5M Warm White	%	47.7 X 7.4	8.1			10759_SeoulZ5M_warm white_250612.ies
Lumileds R Luxeon	86.2%	48.1 x 8.9	7.0			10759_Luxeon_R_cool_white_070311.ies
Cree XPG-Gen2 XLamp® Warm White	%	47.7 x 7.2	8.5			10759_XPG-Gen2_200712.ies
Cree XM-L - EZW Warm White	%	46.3 X 17.8	4.0			10759_XML-EZW_200812.ies
Samsung samsung3535 White	%	49.9x7.2	8.0			10759_Samsung 3535_cool white_111111.ies

Related Holders & LEDs	Cree MT-G2 XLamp® Warm White	Cree MT-G Warm White	Cree XB-D XLamp® Warm White	Cree XM-L - EZW Warm White	Cree XM-L XLamp® White	Cree XP-C White	Cree XP-E XLamp® White	Cree XP-G XLamp® White	Cree XPG-Gen2 XLamp® Warm White	Lumileds ES Luxeon Rebel Cool White	Lumileds M Luxeon Warm White	Lumileds R Luxeon	Lumileds Rebel (new version) Cool White	Lumileds S Luxeon Warm White	Osram Ostar Lighting Ostar White	Samsung Samsung3535 White	SSC Samsung3535 White	SSC Z5M Warm White	SSC Z5P Seoul SC pure white
10959 30.0mm Universal Black				✓															
10960 30.0mm Universal White				✓															
10961 30.0mm Universal Black	✓	✓			✓									✓					
10962 30.0mm Universal White	✓	✓			✓						✓								
10963 30.0mm Universal Black										✓			✓		✓				
10964 30.0mm Universal White										✓			✓		✓				
10965 30.0mm Universal Black							✓	✓	✓									✓	
10966 30.0mm Universal White			✓				✓	✓	✓										
10967 30.0mm Universal Black			✓			✓													✓
10968 30.0mm Universal White						✓													✓
10972 30.0mm Universal White																✓			
10977 30.0mm Universal Black																		✓	
10978 30.0mm Universal White																		✓	
12578 30.0mm Luxeon S Holder Black														✓					
12579 30.0mm Luxeon S Holder White														✓					
12580 30.0mm Luxeon S Holder Clear														✓					

Carclo Optics 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>.  
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## 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 optics that have FWHMs of 20 degrees or less, the general tolerance is +/-2 degrees OR the tolerances stated below - whichever is the greater.

### 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 consistently with mating surface. Assembly at an angle might cause an imperfect bond to the mating surface.
- Remember to ascertain the compatibility of the different substrates with the tape, as humidity and temperature fluctuations will weaken it's adhesive.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry, free from grease and dirt and must be well unified.
- Some typical surface cleaning solvents are isopropyl alcohol or heptane. \*
- *\* If cleaning of PCB or LED surfaces is required, please follow strictly the cleaning instructions recommended by your PCB and/or LED manufacturer - this is important to note, as cleaning in some circumstances can damage LEDs or other electronic components on the PCB. Please also note that optical components should not be cleaned using any chemicals - only a micro fibre cloth should be used to remove fingerprints or other traces from handling.*
- *\* Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. These cleaning recommendations may not be compliant with the rules of certain Air Quality Management Districts in California; consult applicable rules before use.*

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure and moderate heat, from 100°F (38°C) to 130°F (54°C), will assist the adhesive in developing intimate contact with the bonding surface.

Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

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 strength in 72 hours, dependent on the material and ambient conditions.

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We request that the customer ensures (and fully tests) the suitability and sufficiency of the bond in his product. For example, mechanical stress,

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vibration and holes on the surface of the circuit board can weaken the strength of the tape.

#### **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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