Module B EU Type-Examination Certificate

For the requirements of Personal Protective Equipment Regulation (EU) 2016/425

Certificate No.: CE-PI-20201211-01-01-9B

Certificate holder:	**AMERICAN PAPER OPTICS, LLC** 2995 Appling Road, Suite 106 Bartlett, Tennessee 38133, USA
Product:	**Personal Protective eyewear for direct sun viewing** ***The following listed PPE is Category II PPE*** Detailed product description listed in the Annex
Model(s):	See Annex
Standard(s):	EN ISO 12312-2:2015 Eye and face protection - part 2 filters for direct observation of the sun.
Issue date:**	2025-12-23
Revision date:	2025-12-23
Expiry date:	2030-12-22

*** Original certification date 2020-12-23*

The product(s) on this certificate and the Technical File have been assessed and found to be in conformance with the applicable Essential Health and Safety Requirements in Annex II of the Personal Protective Equipment Regulation (EU) 2016/425.
Any changes to the design, manufacturing location or manufacture of the PPE product certified here must be advised to CCQS Certification Services Limited for review.
CE marking shall not be applied until the requirements of all the Personal Protective Equipment Regulation (EU) 2016/425 and relevant EN Harmonised standards and/or Technical specifications have been met.
If the certified product is Category III then this certificate is only valid if used in conjunction with Conformity Assessment against Module C2 or Module D.
This certificate remains the property of CCQS and maybe withdrawn at any time if it is considered that the equipment is no longer in conformity with the requirements of the Personal Protective Equipment Regulation (EU) 2016/425.

CE

Approved by Ireland Government as a Notified Body for CE Marking No.2834

ISO 17065 IVNAB ACCREDITED PRODUCT CERTIFICATION DETAILED IN SCOPE REG NO.0078

Approved by:

G White – Technical Manager

CCQS Ireland Certification

CCQS Certification Services Limited
Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin15, D15 AKK1, Ireland
Tel: +00 353 1 588 6920 Website: www.ccqs.co.uk E-mail: verify@ccqs.ie
If in any doubt about the integrity of this certificate, please contact CCQS by email to verify.

Module B EU Type-Examination Certificate Annex

For the requirements of Personal Protective Equipment
Regulation (EU) 2016/425

Certificate No.: CE-PI-20201211-01-01-9B

Applicable standards and specification
EN ISO 12312-2:2015 Eye and face protection - part 2 filters for direct observation of the sun.

Model reference	Product description
ECLIPSER	Paper solar eclipse glasses
ECLIPSER HD	Plastic solar eclipse glasses

Certificate Revision	Revision date	Revision details
A	2020-12-23	Initial issue, transfer from UK NB 1105
B	2025-12-23	Certificate renewal and removal of withdrawn standard EN1836:2005+A1:2007

This schedule has no validity without the accompanying certificate.
This schedule and the accompanying certificate remain the property of CCQS and may be withdrawn or revised at any time if CCQS considers that the equipment is no longer in conformity with the requirements of the applicable standard(s) and the Regulation.

CCQS Certification Services Limited
Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin15, D15 AKK1, Ireland
Tel: +00 353 1 588 6920 Website: www.ccqs.co.uk E-mail: verify@ccqs.ie
If in any doubt about the integrity of this certificate, please contact CCQS by email to verify.

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Test Report T20420-01-8 Issue 1
ISO 12312-2:2015 (EN ISO 12312-2:2015)
American Paper Optics, LLC
Eclipser Paper Solar Eclipse Glasses
18 December 2025

ACCREDITED
Test Laboratory
Certificate: 1722.01

Approved by:

Keith E. Whitten
Eye & Face Protection -
Laboratory Manager

Prepared by:

Cathy Woloszyn
Eye & Face Protection -
Laboratory Administrator

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b) The contents of this test report are confidential. Reproduction of the report is prohibited except in full (this cover page, numbered body pages & ICS AF 1.4-03), unless approved in writing by ICS Laboratories, Inc.

c) Unless otherwise indicated, the test results contained in this report apply only to the samples tested and not to lots or batches from which they were taken.

d) Where applicable, test data provided by subcontractor is uniquely identified in the test report.

e) Where applicable, test data not covered under our ISO/IEC 17025 Accreditation is uniquely identified in the test report.

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ACCREDITED
Test Laboratory
Certificate: 1722.01

Issued to: American Paper Optics, LLC
2995 Appling Road Suite 106
Bartlett, TN 38133
USA

Date: 18 December 2025
Report: T20420-01-8
Issue: 1

Objective:

Contract testing to ISO 12312-2:2015 (EN ISO 12312-2:2015) "Eye and face protection — Sunglasses and related eyewear — Part 2: Filters for direct observation of the sun".

Samples:

Eclipser Paper Solar Eclipse Glasses

Description	Quantity	Sample ID
Paper Frames with Silver/Black Filters	2	0A

Date(s) submitted: 19 November 2025

Procedures:

All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Unless otherwise noted testing procedures were followed as specified within ISO 12311:2013.

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

Assessment Summary:

Date(s) tested: 20 through 24 November 2025

ISO 12312-2:2015 (EN ISO 12312-2:2015) Requirements	Compliant	Non-Compliant
4 Requirements and associated test methods		
4.1 Transmittance		
4.1.1 General	X	
4.1.2 Uniformity of luminous transmittance	X	
4.2 Material and surface quality	X	
4.3 Mounting		
4.3.1 General	X	
4.3.2 Dimensions	X	
4.3.3 Material quality	X	
5 Labelling	X	

Samples as assessed meet the requirements of ISO 12312-2:2015 (EN ISO 12312-2:2015).

Issued to: American Paper Optics, LLC
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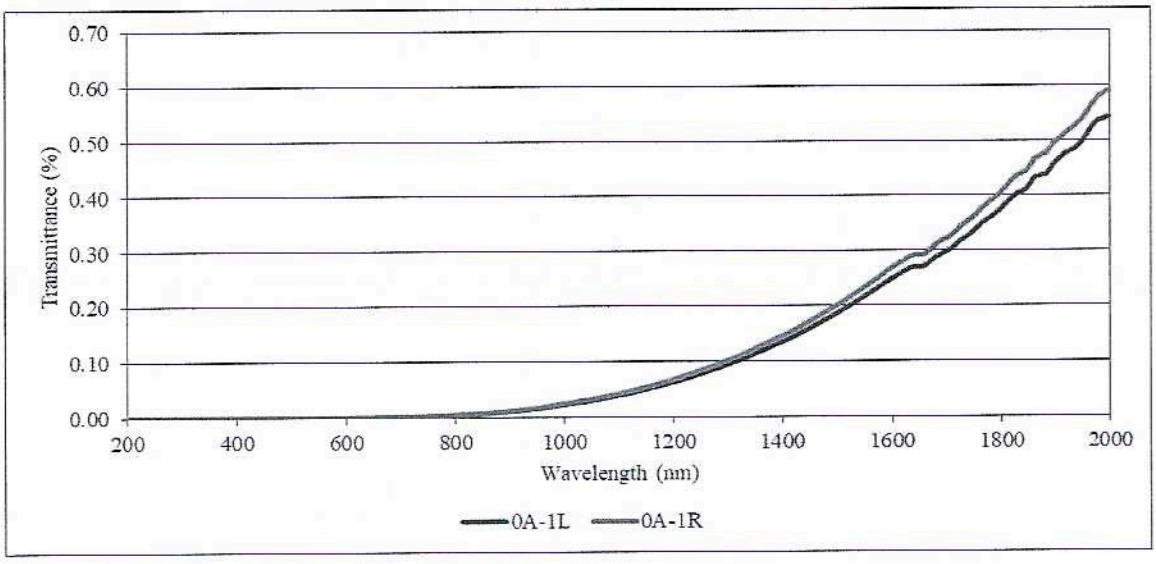
USA

Results:

4.1.1 Transmittance-General

Sample ID:	0A-1L	0A-1R	Requirement	Pass	Fail
Luminous-D65 (τ_V) (%)	0.00023	0.00025	0.000061 to 0.0032	X	
Solar UVB-280 to 315nm (τ_{SUVB}) (%)	<0.00001	<0.00001	$\leq \tau_V$	X	
Solar UVA-315 to 380nm (τ_{SUVA}) (%)	<0.00001	<0.00001	$\leq \tau_V$	X	
Solar Infrared-780 to 2000nm (τ_{SIR}) (%)	0.065	0.071	≤ 3	X	

Measured with a double beam, ratio recording, double monochromator spectrophotometer followed by the appropriate calculation as described in ISO 12311:2013, 7.1.1. 7.1.2, 7.3.2, 7.3.3 and 7.5.



4.1.2 Transmittance-Uniformity of luminous transmittance

Sample ID:	0A-1L	0A-2R	Requirement
Luminous-D65 (τ_V) (%)			
Maximum:	0.00032	0.00035	
Center:	0.00031	0.00034	
Minimum:	0.00029	0.00033	
Relative Difference (%):	10.2	6.03	$\leq 10\%$
Pass/Fail:	Pass		

Measured with a broadband collimated light source tuned for D65 and photodetector with the spectral response corresponding to CIE 2° standard observer.

4.2 Material and surface quality; Result: Pass

Requirement: Except in a marginal area 5 mm wide, filters shall be free from defects likely to impair vision in use, such as bubbles, scratches, inclusions, dull spots, pitting, scouring, pocking, scaling, and undulations. Metal coated filter materials shall not exhibit more than one pinhole defect not greater than 200 μm in average diameter within any 5 mm diameter circular zone.

4.3.1 Mounting-General; Result: Pass

Requirement: If mounted, a filter shall be held securely so that it cannot be dislodged by normal handling or by gusts of wind.

4.3.2 Mounting-Dimensions; Result: Pass

Requirement: The filter or filters and mounting assembly shall be of a size sufficient to cover both eyes of the user simultaneously and in no case shall have overall dimensions less than 115 mm in width and 35 mm in depth in the plane parallel to the facial plane. Spectacle shaped mountings may have a triangular cut-away area to accommodate the crest of the nose, not to exceed 15 mm in apical height and 35 mm width at the base and may have separate filters, one for each eye, provided that the overall dimensions are satisfied.
Note: Triangular cut-away only applies to cardboard spectacle shaped mountings.

4.3.3 Mounting-Material quality; Result: Pass

Requirement: The filter and mounting shall be free from roughness, sharp edges, projections, or other defects which could cause discomfort or injury during use. No part of the filter or mounting which is in contact with the wearer shall be made of materials which are known to cause any skin irritation.

5 Labelling; Result: Pass

The filter and/or its packaging shall show the following information in the language(s) of the country where the product is to be offered for sale:

a) name and address of manufacturer of the product;

b) instructions for use in looking at the sun or a solar eclipse;

c) warnings that viewing the sun without an appropriate filter can result in permanent eye injury;

d) warnings that filters that are damaged or separated from their mountings should be discarded;

e) advice on storage, cleaning, and maintenance, as appropriate;

f) obsolescence deadline or period of obsolescence, as appropriate.

Estimates of Uncertainties:

ISO 12311:2013 (EN ISO 12312-2:2015) Test Method	Estimated Uncertainty
7.1.1 Measurement of spectral transmittance	10% Relative

Estimated uncertainties have been calculated in accordance with the principles of ISO/IEC Guide 98-3:2008, Uncertainty of measurement-Part 3: Guide to the expression of uncertainty in measurement (GUM:1995).
Estimated uncertainties have a 95% confidence level.
A coverage factor (k) of 2.0 was used.
Estimated Uncertainties were not taken into consideration for determination of pass/fail.