



Test Report: IEI-04002, Issue: 1

ANSI Z87.1-2020

Innovative Eyewear, Inc.

Armor LCD008-10

June 10, 2026



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Authorized By:

A handwritten signature in black ink, appearing to read 'Jacob Gary'.

Jacob Gary
Director of Operations

Reviewed By:

A handwritten signature in black ink, appearing to read 'Jason Fawell'.

Jason Fawell
Technical Engineer

Requested by: Harrison Gross

Report Summary

Product Description: Armor LCD008-10: Product 1 Clear Lens, Glossy Black Frame
Date Received: March 16, 2026
Date(s) Tested: June 05, 2026 to June 10, 2026
Standard: ANSI Z87.1-2020
Laboratory Conditions: 23°C, 54% RH

Final Conclusion:

The Spectacle Sample: Armor LCD008-10 (Product 1 Clear Lens, Glossy Black Frame) **does** comply with ANSI Z87.1-2020 for the test(s) included in this report.

Test Name	Result
ANSI Z87.1 Base Model General Requirements	
5.2 Physical Requirements	Pass
5.2.2 Ignition	Pass
5.2.3 Corrosion Resistance of Metal Components	Pass
5.2.4 Minimum Coverage Area	Pass
5.3.2 Placement of Markings	Pass
5.3.1 Required Protector Markings	Pass
ANSI Z87.1 Optional Claim (+)	
7.1.2 Frames and Shells	Pass
7.1.3 Lateral (Side) Coverage	Pass
7.1.4.2 High Mass Impact	Pass
7.1.4.3 High Velocity Impact (Spectacle)	Pass



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Test Results - IEI-04002-01/Armor LCD008-10 Product 1 Clear Lens, Glossy Black Frame

ANSI Z87.1 Base Model General Requirements

5.2 Physical Requirements

Test	Specification	Pass
Free of defects which may cause discomfort or injury		Pass

5.2.2 Ignition

Test	Specification	Pass
Lens		Pass
Front		Pass
Temple		Pass
Other		N/A

5.2.3 Corrosion Resistance of Metal Components

Test	Specification	Pass
Function of protector not impaired		Pass

5.2.4 Minimum Coverage Area

Test	Specification	Pass
40 x 33 mm (34 x 28 mm - H)		Pass

5.3.2 Placement of Markings

Test	Specification	Pass
Markings		Pass

5.3.1 Required Protector Markings

Test	Specification	Pass
Markings		Pass

Test Results - IEI-04002-01/Armor LCD008-10 Product 1 Clear Lens, Glossy Black Frame

ANSI Z87.1 Optional Claim (+)

7.1.2 Frames and Shells

Test	Specification	Pass
Sample 1		Pass
Left Eye		2.00 (mm)
Right Eye		2.00 (mm)
Sample 2		Pass
Left Eye		2.00 (mm)
Right Eye		2.00 (mm)
Sample 3		Pass
Left Eye		2.05 (mm)
Right Eye		2.06 (mm)
Sample 4		Pass
Left Eye		2.04 (mm)
Right Eye		2.03 (mm)
Sample 5		Pass
Left Eye		2.07 (mm)
Right Eye		2.05 (mm)
Sample 6		Pass
Left Eye		2.00 (mm)
Right Eye		2.03 (mm)
Sample 7		Pass
Left Eye		2.03 (mm)
Right Eye		2.01 (mm)
Sample 8		Pass
Left Eye		2.00 (mm)
Right Eye		2.03 (mm)
Sample 9		Pass
Left Eye		2.00 (mm)
Right Eye		2.00 (mm)
Sample 10		Pass
Left Eye		2.00 (mm)
Right Eye		2.01 (mm)

7.1.3 Lateral (Side) Coverage

Test	Specification	Pass
Lateral (Side) Coverage		Pass

7.1.4.2 High Mass Impact

Test	Specification	Pass
Left Eye Sample 1		Pass
Left Eye Sample 2		Pass
Right Eye Sample 3		Pass

Test Results - IEI-04002-01/Armor LCD008-10 Product 1 Clear Lens, Glossy Black Frame

Right Eye Sample 4		Pass
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7.1.4.3 High Velocity Impact (Spectacle)

Test	Specification	Pass
Left Eye Center	Min: 150.0	155 (fps)
Left Eye Center		Pass
Left Eye 30°	Min: 150.0	155 (fps)
Left Eye 30°		Pass
Right Eye Center	Min: 150.0	155 (fps)
Right Eye Center		Pass
Right Eye 30°	Min: 150.0	152 (fps)
Right Eye 30°		Pass
One Side 90° at 10mm Above (H - 8mm)	Min: 150.0	154 (fps)
One Side 90° at 10mm Above (H - 8mm)		Pass
Opposite Side 90° at 10mm Below (H - 8mm)	Min: 150.0	152 (fps)
Opposite Side 90° at 10mm Below (H - 8mm)		Pass

Requested by: Harrison Gross

Report Summary

Product Description: Armor Slim LCD008-20: Product 2 Clear Lenses, Matte Black Frame
Date Received: March 16, 2026
Date(s) Tested: June 05, 2026 to June 10, 2026
Standard: ANSI Z87.1-2020
Laboratory Conditions: 23°C, 54% RH

Final Conclusion:

The Spectacle Sample: Armor Slim LCD008-20 (Product 2 Clear Lenses, Matte Black Frame) **does** comply with ANSI Z87.1-2020 for the test(s) included in this report.

Test Name	Result
ANSI Z87.1 Base Model General Requirements	
5.2 Physical Requirements	Pass
5.2.2 Ignition	Pass
5.2.3 Corrosion Resistance of Metal Components	Pass
5.2.4 Minimum Coverage Area	Pass
5.3.2 Placement of Markings	Pass
5.3.1 Required Protector Markings	Pass
ANSI Z87.1 Optional Claim (+)	
7.1.2 Frames and Shells	Pass
7.1.3 Lateral (Side) Coverage	Pass
7.1.4.2 High Mass Impact	Pass
7.1.4.3 High Velocity Impact (Spectacle)	Pass



Test Results - IEI-04002-02/Armor Slim LCD008-20 Product 2 Clear Lenses, Matte Black Frame

ANSI Z87.1 Base Model General Requirements

5.2 Physical Requirements

Test	Specification	Pass
Free of defects which may cause discomfort or injury		Pass

5.2.2 Ignition

Test	Specification	Pass
Lens		Pass
Front		Pass
Temple		Pass
Other		N/A

5.2.3 Corrosion Resistance of Metal Components

Test	Specification	Pass
Function of protector not impaired		Pass

5.2.4 Minimum Coverage Area

Test	Specification	Pass
40 x 33 mm (34 x 28 mm - H)		Pass

5.3.2 Placement of Markings

Test	Specification	Pass
Markings		Pass

5.3.1 Required Protector Markings

Test	Specification	Pass
Markings		Pass

Requested by: Harrison Gross

Test Results - IEI-04002-02/Armor Slim LCD008-20 Product 2 Clear Lenses, Matte Black Frame

ANSI Z87.1 Optional Claim (+)

7.1.2 Frames and Shells

Test	Specification	Pass
Sample 1		Pass
Left Eye		2.05 (mm)
Right Eye		2.04 (mm)
Sample 2		Pass
Left Eye		2.03 (mm)
Right Eye		2.04 (mm)
Sample 3		Pass
Left Eye		2.00 (mm)
Right Eye		2.01 (mm)
Sample 4		Pass
Left Eye		2.05 (mm)
Right Eye		2.01 (mm)
Sample 5		Pass - See Test Data
Left Eye		2.04 (mm)
Right Eye		2.00 (mm)
Sample 6		Pass
Left Eye		2.03 (mm)
Right Eye		2.04 (mm)
Sample 7		Pass
Left Eye		2.02 (mm)
Right Eye		2.03 (mm)
Sample 8		Pass
Left Eye		2.03 (mm)
Right Eye		2.04 (mm)
Sample 9		Pass
Left Eye		2.02 (mm)
Right Eye		2.04 (mm)
Sample 10		Pass
Left Eye		2.02 (mm)
Right Eye		2.03 (mm)

7.1.3 Lateral (Side) Coverage

Test	Specification	Pass
Lateral (Side) Coverage		Pass

7.1.4.2 High Mass Impact

Test	Specification	Pass
Left Eye Sample 1		Pass
Left Eye Sample 2		Pass
Right Eye Sample 3		Pass

Test Results - IEI-04002-02/Armor Slim LCD008-20 Product 2 Clear Lenses, Matte Black Frame

Right Eye Sample 4		Pass
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7.1.4.3 High Velocity Impact (Spectacle)

Test	Specification	Pass
Left Eye Center	Min: 150.0	151 (fps)
Left Eye Center		Pass
Left Eye 30°	Min: 150.0	153 (fps)
Left Eye 30°		Pass
Right Eye Center	Min: 150.0	152 (fps)
Right Eye Center		Pass
Right Eye 30°	Min: 150.0	152 (fps)
Right Eye 30°		Pass
One Side 90° at 10mm Above (H - 8mm)	Min: 150.0	153 (fps)
One Side 90° at 10mm Above (H - 8mm)		Pass
Opposite Side 90° at 10mm Below (H - 8mm)	Min: 150.0	154 (fps)
Opposite Side 90° at 10mm Below (H - 8mm)		Pass

APPENDIX 1

ANSI Z87.1 - 2020 Measurement Uncertainty Values

Section	Requirement	Uncertainty
5.1.2	Luminous Transmittance	0.19%
5.1.3	Haze	0.08%
5.1.4	Refractive Power	0.018D
	Astigmatism	0.018D
	Prism	0.048Δ
5.4.5	Minimum Lens Thickness	0.012 mm
5.5.1	Replaceable Lenses – Goggles	0.17 mm
5.5.2	Replaceable Lenses – Welding Helmets and Handshields	0.17 mm
6.1	Relaxed Optics Level	See 5.1.4
6.2	Anti-Fog Properties	1.79%
7.2.1	Optical Radiation - Clear Lenses	See 5.1.2
7.2.2.1.1	Transmission Requirements	
	Table 7 (Welding Filters)	
	W1.3 – W3.0	See 5.1.2
	W4	0.0018287%
	W5	0.0003283%
	W6	0.0003605%
	W7	0.0000961%
	W8	0.0001944%
	W9	0.0000459%
	W10	0.0000707%
	W11	0.0000163%
	W12	0.0000055%
	W13	0.0000029%
	W14	0.0000017%
	EFUV	0.0000551%
	NUV	0.0000576%
	IR	0.010395%
	Table 8 (UV Filters)	
	EFUV	0.0000551%
	NUV	0.0000576%
	Table 9 (IR Filters)	0.010395%
	Table 10 (VIS Filters)	See 7.2.2.1.1 W1.3 – W10
	Table 11 Tinted	See 5.1.2
	Extra Dark	See 5.1.2
7.2.2.1.2	Visible Light Filters	
	Visible Light (L1.3 - L3)	See 5.1.2
	UVA	See Table 7 NUV
	UVB	See Table 7 EFUV
7.2.2.2	Transmittance of Non-lens Components	See 7.2.2.1.1 Table 7, 8 & 9
7.2.3.1	Automatic Darkening Welding Filter Lenses - Luminous Transmittance	See 7.2.2.1.1 Table 7
7.2.3.2	Automatic Darkening Welding Filter Lenses - UV/IR Transmittance	See 7.2.2.1.1 Table 7
7.2.3.3	Switching Index	0.0192 mSec
7.2.3.5	Angular dependence of luminous transmittance	See 7.2.2.1.1 Table 7