

ORLAB can test to all or part of the following standards:

Australian (AS, AS/NZS, AS/NZS ISO and ADR)

AS/NZS 1067 Sunglasses and Fashion Spectacles

AS/NZS 1337.1 Personal eye protection Part 1: Eye and face protectors for occupational applications

AS/NZS 1337.2 Personal eye protection Part 2: Mesh eye and face protectors for occupational applications

AS/NZS 1337.6 Personal eye protection Part 6: Prescription eye protectors against low and medium impact

AS/NZS 1338.1 Filters for eye protectors Part 1: Filters for protection against radiation generated in welding and allied operations

AS/NZS 1338.2 Filters for eye protectors Part 2: Filters for protection against ultraviolet radiation

AS/NZS 1338.3 Filters for eye protectors Part 3: Filters for protection against infra-red radiation

AS 1428.1 Design for access and mobility Part 1: General requirements for access – New building work. Appendix B The measurement of luminance contrast between building elements

AS/NZS 1428.4.1 Design for access and mobility Part 4.1: Means to assist the orientation of people with vision impairment – Tactile ground surface indicators. Appendix E Laboratory and on-site measurement of luminance contrast

AS 1512 Personal flotation devices – Type 1

AS 1580.602.2 Paints and related materials – Methods of test – Measurement of specular gloss of non-metallis paint films at 20 degrees, 60 degrees and 85 degrees

AS 1609 Eye protectors for motor cyclists and racing car drivers

AS/NZS 1680 Interior lighting Part 2.5: Hospital and medical tasks. Appendix G Method for determination of Cyanosis Observation Index of a light source

AS/NZS 1906.1 Retroreflective materials and devices for road traffic control purposes-Retroreflective sheeting

AS/NZS 1906.2 Retroreflective materials and devices for road traffic control purposes-Retroreflective devices (non-pavement application)

AS 1906.3 Retroreflective materials and devices for road traffic control purposes-Raised pavement markers (retroreflective and non-retroreflective)

AS/NZS 1906.4 Retroreflective materials and devices for road traffic control purposes-High-visibility materials for safety garments

AS/NZS 2080 Safety glazing for land vehicles

AS 2142 Reflectors for pedal bicycles

AS 2144 Traffic signal lanterns

AS 2228.1 Spectacle lenses

*AS 2293.3 Emergency escape lighting and exit signs for buildings – Emergency escape luminaires and exit signs

AS/NZS 2293.3 Emergency evacuation lighting for buildings – Emergency luminaires and exit signs

AS 3790 Portable warning triangles for motor vehicles

AS/NZS 3957 Light-transmitting screens and curtains for welding operations

AS 4004 Lighting booths for visual assessment of colour and colour matching

AS/NZS 4066 Eye protectors for racquet sports

AS/NZS 4067 Protective helmets for structural firefighting. Clause 5.9 Faceshields

AS 4174 Synthetic shadecloth

AS 4191 Portable traffic signal systems

AS 4192 Illuminated flashing arrow signs

AS/NZS 4399 Sun protective clothing – Evaluation and classification

AS/NZS 4443 Office panel systems – Workstations. Clause 2.4.6 Work surface finish

AS/NZS 4602.1 High visibility safety garments – Garments for high risk applications

AS/NZS 4602.2 High visibility safety garments – Garments for fire service personnel

AS 5156 Electronic speed limit signs

AS/RISSB 7531.1 Railway Rolling Stock – Lighting Rolling Stock Visibility – Locomotive Rolling Stock

AS/RISSB 7531.2 Railway Rolling Stock – Lighting Rolling Stock Visibility – Freight Rolling Stock

AS/RISSB 7531.3 Railway Rolling Stock – Lighting Rolling Stock Visibility – Passenger Rolling Stock

AS/RISSB 7531.4 Railway Rolling Stock – Lighting Rolling Stock Visibility – Infrastructure Maintenance Rolling Stock

AS/NZS ISO 8980.1 Ophthalmic optics – Uncut finished spectacle lenses – Specifications for single-vision and multifocal lenses

AS/NZS ISO 8980.3 Ophthalmic optics – Uncut finished spectacle lenses – Transmittance specifications and test methods

AS/NZS ISO 10322.1 Ophthalmic optics – Semi-finished spectacle lens blanks – Specifications for single-vision and multifocal lens blanks

AS/NZS ISO 16034 Ophthalmic optics – Specifications for single-vision ready-to-wear near-vision spectacles

AS/NZS ISO 21987 Ophthalmic optics – Mounted spectacle lenses

ADR 1/00 Vehicle Standard (Australian Design Rule 1/00 – Reversing Lamps)

ADR 6/00 Vehicle Standard (Australian Design Rule 6/00 – Direction Indicators)

ADR 8/01 Vehicle Standard (Australian Design Rule 8/01 – Safety Glazing Material)

ADR 14/02 Vehicle Standard (Australian Design Rule 14/02 – Rear Vision Mirrors)

ADR 45/01 Vehicle Standard (Australian Design Rule 45/01 – Lighting and Light Signalling Devices not Covered by ECE Regulations)

ADR 46/00 Vehicle Standard (Australian Design Rule 46/00 - Headlamps)

ADR 47/00 Vehicle Standard (Australian Design Rule 47/00 - Retroreflectors)

ADR 48/00 Vehicle Standard (Australian Design Rule 48/00 – Devices for Illumination of Rear Registration Plates)

ADR 49/00 Vehicle Standard (Australian Design Rule 49/00 – Front and Rear Position (Side) Lamps, Stop Lamps and End Outline Marker Lamps)

ADR 50/00 Vehicle Standard (Australian Design Rule 50/00 – Front Fog Lamps)

ADR 52/00 Vehicle Standard (Australian Design Rule 52/00 - Rear Fog Lamps)

ADR 53/00 Vehicle Standard (Australian Design Rule 53/00 – Front and Rear Position Lamps, Stop Lamps, Direction Indicators and Rear Registration Plate Lamps for L-Group Vehicles)

ADR 54/00 Vehicle Standard (Australian Design Rule 54/00 – Headlamps for Mopeds)

ADR 55/00 Vehicle Standard (Australian Design Rule 55/00 – Headlamps for Motor Cycles)

ADR 60/00 Vehicle Standard (Australian Design Rule 60/00 – Centre High Mounted Stop Lamp)

ADR 74/00 Vehicle Standard (Australian Design Rule 74/00 – Side Marker Lamps)

ADR 76/00 Vehicle Standard (Australian Design Rule 76/00 – Daytime Running Lamps)

ADR 77/00 Vehicle Standard (Australian Design Rule 77/00 – Gas Discharge Headlamps)

Consumer Product Safety Standard for Sunglasses and Fashion Spectacles (2003)

ANSI

ANSI/SAE Z26.1 American National Standard for Safety Glazing Materials for Glazing Motor Vehicles and Motor Vehicle Equipment Operating on Land Highways – Safety Standard

ANSI Z80.1 American National Standard for Ophthalmics – Prescription Spectacle Lenses

ANSI Z80.3 American National Standard for Ophthalmics – Nonprescription Sunglass and Fashion Eyewear Requirements

ANSI/ISEA Z87.1 American National Standard for Occupational and Educational Personal Eye and Face Protection Devices

ASTM

ASTM D523 Standard Test Method for Specular Gloss

ASTM D1003 Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics

ASTM E424 Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials

ASTM E903 Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres

CIE

CIE Publication 13.3 Technical Report – Method of Measuring and Specifying Colour Rendering Properties of Light Sources

CIE Publication 38 Technical Report – Radiometric and Photometric Characteristics of Materials and Their Measurement

CIE Publication 69 Technical Report – Methods of Characterizing Illuminance Meters and Luminance Meters

CIE Publication 121 Technical Report – The Photometry and Goniophotometry of Luminaires

European (EN, BS, IS, DIN)

BS 857 Specifications for Safety glass for land transport

BS 2092 Specification for eye-protectors for industrial and non-industrial uses

BS 2724 Specifications for Sun glare eye protectors for general use

BS 2782-5: Method 521A Methods of testing Plastic – Part 5: Optical and colour properties, weathering – Method 521A: Determination of haze of film and sheet

BS AU 178a Specifications for Road vehicle safety glass

BS EN 166 Personal eye-protection - Specifications

BS EN 167 Personal eye-protection – Optical test methods

BS EN 168 Personal eye-protection – Non-optical test methods

BS EN 169 Personal eye-protection – Filters for welding and related techniques – Transmittance requirements and recommended use

BS EN 170 Personal eye-protection – Ultraviolet filters – Transmittance requirements and recommended use

BS EN 171 Personal eye-protection – Infrared filters – Transmittance requirements and recommended use

BS EN 172 Specifications for Sunglare filters used in personal eye-protectors for industrial use

BS EN 174 Personal eye-protection – Ski goggles for downhill skiing

BS EN 175 Personal protection – Equipment for eye and face protection during welding and allied processes

BS EN 379 Personal eye-protection – Automatic welding filters

BS EN 1836 Personal eye-equipment – Sunglasses and sunglare filters for general use and filters for direct observation of the sun

BS EN 2155-9 Test methods for transparent materials for aircraft glazing Part 9: Determination of haze

BS EN 12368 Traffic control equipment – Signal heads

BS EN 14139 Ophthalmic optics – Specifications for ready-to-wear spectacles

IS EN 15152 Railway applications – Front windscreens for train cabs

BS EN ISO 20471 High-visibility warning clothing for professional use – Test methods and requirements

DIN 67530 Reflectometer As A Means For Gloss Assessment Of Plane Surfaces Of Paint Coatings And Plastics

IEC

IEC 60601-2-41 Medical electrical equipment – Part 2-41: Particular requirements for the basic safety and essential performance of surgical luminaires and luminaires for diagnosis

IESNA

IES LM-79 Electrical and Photometric Measurements of Solid-State Lighting Products

ISO

ISO 2813 Paints and varnishes – Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°

ISO 3538 Road vehicles – Safety glazing materials – Test methods for optical properties

ISO 8598 Optics and optical instruments - Focimeters

ISO 9050 Glass in building – Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors

ISO 12311 Personal protective equipment – Test methods for sunglasses and related eyewear

ISO 12312-1 Eye and face protection – Sunglasses and related eyewear – Part 1: Sunglasses for general use

ISO 13468-1 Plastics – Determination of the total luminous transmittance of transparent materials – Part 1: Single-beam instruments

ISO 14782 Plastics – Determination of haze for transparent materials

ISO/CIE 16508 Road traffic lights – Photometric properties of 200 mm roundel signals

JIS

JIS R 3211 Safety glazing materials for road vehicles

JIS R 3212 Test method of safety glazing materials for road vehicles

JIS R 7136 Plastics – Determination of haze for transparent materials

JIS R 7361-1 Plastics – Determination of the total luminous transmittance of transparent materials – Part 1: Single-beam instruments

UN-ECE

UN-ECE 1 and 2 Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam and/or a driving beam and equipped with filament lamps of categories R₂ and/or HS1

UN-ECE 3 Uniform provisions concerning the approval of retro-reflecting devices for power-driven vehicles and their trailers

UN-ECE 4 Uniform provisions concerning the approval of devices for the illumination of rear registration plates of power-driven vehicles and their trailers

UN-ECE 5 Uniform provisions concerning the approval of power-driven vehicle's sealed-beam headlamps (SB) emitting a European asymmetrical passing beam or a driving beam or both

UN-ECE 6 Uniform provisions concerning the approval of direction indicators for power-driven vehicles and their trailers

UN-ECE 7 Uniform provisions concerning the approval of front and rear position (side) lamps, stop-lamps and end-outline marker lamps for power-driven vehicles and their trailers

UN-ECE 8 Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with halogen filament lamps (H₁, H₂, H₃, HB₄, H₇, H₈, H₉, and/or H₁₁)

UN-ECE 19 Uniform provisions concerning the approval of power-driven vehicle front fog lamps

UN-ECE 20 Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with halogen filament lamps (H4 lamps)

UN-ECE 23 Uniform provisions concerning the approval of reversing lights for power-driven vehicles and their trailers

UN-ECE 31 Uniform provisions concerning the approval of halogen sealed-beam unit (HSB unit) motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both

UN-ECE 38 Uniform provisions concerning the approval of rear fog lamps for power-driven vehicles and their trailers

UN-ECE 43 Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles

UN-ECE 46 Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices

UN-ECE 50 Uniform provisions concerning the approval of front position lamps, rear position lamps, stop lamps, direction indicators and rear-registration-plate illuminating devices for vehicles of Category L

UN-ECE 56 Uniform provisions concerning the approval of headlamps for mopeds and vehicles treated as such

UN-ECE 57 Uniform provisions concerning the approval of headlamps for motor cycles and vehicles treated as such

UN-ECE 72 Uniform provisions concerning the approval of motor cycle headlamps emitting an asymmetrical passing beam and a driving beam and equipped with halogen lamps (HS₁ lamps)

UN-ECE 76 Uniform provisions concerning the approval of headlamps for mopeds emitting a driving beam and a passing beam

UN-ECE 81 Uniform provisions concerning the approval of seats of rear-view mirrors of two-wheeled power-driven vehicles with or without side car, with regard to the mounting of rear-view mirrors on handlebars

UN-ECE 87 Uniform provisions concerning the approval of daytime running lamps for power-driven vehicles

UN-ECE 91 Uniform provisions concerning the approval of side-marker lamps for motor vehicles and their trailers

UN-ECE 98 Uniform provisions concerning the approval of motor vehicle headlamps equipped with gas-discharge light sources

OTHER TESTS

Lamp circuit power

Regulations for Preventing Collisions at Sea (COLREGS), ATAC Uniform Shipping Laws Section 16

Civil Aviation Safety Authority Manual of Standards Part 139

AFAMRL-TR-85-016 The measurement of aircraft windscreen haze and its effect on visual performance

*NB. * denotes a test that is not currently part of our NATA Scope of Accreditation.*