SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid to: July 31, 2027 Certificate Number: 3823.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on automotive lighting and roadway visual safety systems.

Test Technology:	**Test Method(s):**
Photometry, Luminous Intensity	FMVSS 108 (49 CFR 571.108); CMVSS 108, 108.1, 1201; SAE (Methods) J575, J2139, J1889, J2650; (Road Illumination) J581, J582, J583, J591, J852, J1383, J1735, J2595; (Signal and Marking) J222, J585, J586, J587, J588, J592, J593, J914, J1319, J1373, J1395, J1398, J1424, J1432, J1957, J2039, J2040, J2042, J2087, J2261; (Motorcycle) J131, J584, J1306, J1623; (Snowmobile) J278, J279, J280, J292; UNECE R1, R5, R6, R7, R8, R19, R20, R23, R31, R38, R50, R72, R76, R77, R82, R87, R91, R98, R112, R113, R119, R123, R148, R149; CIE 70; ITE ST-017 Chapter 13
Photometry, Reflex	FMVSS 108 (49 CFR 571.108), 125 (49 CFR 571.125), 131 (49 CFR 571.131); CMVSS 108, 108.1, 131, 1201; SAE J594, J774, J1967, J2041; UNECE R3, R27, R69, R70, R88, R104, R150; CIE 54.2; ASTM D4280, D4383, D4956, E808, E809, E810; ANSI 107; NFPA 1971, 1977; CPSC 1512.16 (16 CFR 1512.16); CSA Z96; ISO 7591, 20471; ITE ST-017 Chapter 13; AASHTO M268

Test Technology:	**Test Method(s):**
Photometry, Flash Energy	FMVSS 131 (49 CFR 131); SAE J595, J845, J887, J1133, J1318; UNECE R65; ITE ST-017 Chapter 13; GSA/FED KKK-A-1822F Section 3.8
Photometry, License Plate Lamps	FMVSS 108 (49 CFR 571.108); CMVSS 108; SAE J587; UNECE R4, R50
Photometry, Color	FMVSS 108 (49 CFR 571.108), 125 (49 CFR 571.125), 131 (49 CFR 571.131); CMVSS 108, 108.1, 131, 1201; CPSC 1512.16 (16 CFR 1512.16); CIE 13.3, 15; SAE J578; UNECE R48; ASTM D4280, D4383, D4956, E308, E811; ANSI 107; NFPA 1971, 1977; ISO 7591
Photometry, Luminous Flux	FMVSS 108 (49 CFR 571.108), Part 564 (49 CFR 564); CMVSS 108; CIE 84; IES LM 45; SAE J573, J2560; UNECE R37, R99
Mirrors Reflectivity, Radius of Curvature	FMVSS 111 (49 CFR 571.111); CMVSS 111
Flashers	FMVSS 108 (49 CFR 571.108); CMVSS 108
Environmental Simulation, Temperature *(-70 to 150) °C*	FMVSS 108 (49 CFR 571.108), 125 (49 CFR 571.125) (Temperature Cycle); CMVSS 108 (Temperature Cycle); SAE J575, J2139, J595, J845, J887, J1318 (Warpage, Exposure); NFPA 1971 S8.1.5 (Heat Exposure - Trim)
Vibration, Shock	FMVSS 108 (49 CFR 571.108); CMVSS 108; SAE J577, J2139
Vibration, Electrodynamic (Sinusoidal & Random) *Sine 2100 lbs peak,* *Random 1450 lbs RMS,* *2 in shaker stroke*	SAE J575

Test Technology:	**Test Method(s):**
Water Spray	FMVSS 108 (49 CFR 571.108); CMVSS 108; SAE J575
Dust	FMVSS 108 (49 CFR 571.108); CMVSS 108; SAE J575
Salt Spray (Fog)	ASTM B117; FMVSS 108 (49 CFR 571.108); CMVSS 108; SAE J575
Aim Range	FMVSS 108 (49 CFR 571.108); CMVSS 108
Lens Abrasion	FMVSS 108 (49 CFR 571.108); CMVSS 108
Chemical Resistance	FMVSS 108 (49 CFR 571.108); CMVSS 108; SAE J575
Humidity	FMVSS 108 (49 CFR 571.108), 125 (49 CFR 571.125); CMVSS 108; SAE J575
Filament Position	FMVSS 108 (49 CFR 571.108), Part 564 (49 CFR 564); CMVSS 108; SAE J573, J2560
Bulb Deflection	FMVSS 108 (49 CFR 571.108); CMVSS 108
Bulb Seal	FMVSS 108 (49 CFR 571.108); CMVSS 108
Bicycle Reflector Conditioning	CPSC 1512.16, 1512.18(n) (16 CFR 1512.16, 16 CFR 1512.18(n) (Warpage, Lens Impact, Moisture)
Reflective Sheeting Mechanical Tests	ASTM D4956 (Adhesion, Liner Removal, Shrinkage, Flexibility, Impact Resistance)
Reflective Trim Conditioning	ANSI 107 (Flexing, Folding, Temperature Variation, Rainfall)
Garment Area	ANSI 107

Test Technology:	**Test Method(s):**
Registration Plates	ISO 7591 (Temperature Resistance, Adhesion, Impact Resistance, Bending Resistance, Water Resistance, Cleanability, Fuel Resistance, Saline Mist Resistance)

Accredited Laboratory

A2LA has accredited

CALCOAST-ITL

San Leandro, CA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 7th day of July 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3823.01
Valid to July 31, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.