1. Introduction

2. SAE Lighting Standards—Numerical List

3. SAE Lighting Standards

   3.1 Lighting Standard Practices

   SAE J387 JAN2007—Terminology—Motor Vehicle Lighting
   SAE J567 SEP2006—Lamp Bulb Retention System
   SAE J578 DEC2006—Color Specification
   SAE J599 AUG1997—Lighting Inspection Code
   SAE J759 JUL2007—Lighting Identification Code

   3.2 Road Illumination Devices

   SAE J581 JUL2004—Auxiliary Upper Beam Lamps
   SAE J583 SEP2005—Front Fog Lamp
   R SAE J600 AUG2009—Headlamp Aim Test Machines
   R SAE J602 OCT2009—Headlamp Aiming Device for Mechanically Aimable Headlamp Units
   SAE J1383 SEP2006—Performance Requirements for Replaceable Bulb Motor Vehicle Headlamps
   SAE J1606 OCT1997—Headlamp Design Guidelines for Mature Drivers
   SAE J1735 DEC2006—Harmonized Vehicle Headlamp Performance Requirements
   SAE J2009 OCT2005—Discharge Forward Lighting System and Subsystems
   SAE J2111 FEB2005—Headlamp Cleaners
   SAE J2282 AUG2007—Distributed Lighting Systems (DLS)
   SAE J2338 OCT1996—Recommendations of the SAE Task Force on Headlamp Mounting Height
   SAE J2560 JUL2007—Forward Lighting Halogen Bulb Performance Requirements for Motor Vehicles
   SAE J2584 SEP2002—Headlamp Mounting Height for Passenger and Pickup Truck Vehicles
   SAE J2591 NOV2008—Adaptive Forward Lighting System

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SAE J2595 MAY2006—Performance Requirements for Sealed Beam Motor Vehicle Headlamps
SAE J2650 SEP2005—Performance Requirements for Light Emitting Diode (LED) Road Illumination Device Systems
SAE J2738 OCT2005—Improved Roadway Illumination: Information Resource
SAE J2739 JAN2007—Absorptive and Interference Coatings Applied on Replaceable Headlamp Bulbs

* SAE J2829 FEB2009—Pedestrian Visibility-Low Beam Optimization to Reduce Night-time Fatalities

3.3 Signaling and Marking Lighting Devices and Systems

SAE J222 DEC2006—Parking Lamps (Front Position Lamps)
SAE J573 JUN1998—Miniature Lamp Bulbs
SAE J585 FEB2008—Tail Lamps (Rear Position Lamps) for Use on Motor Vehicles Less than 2032 mm in Overall Width
SAE J586 JUL2007—Stop Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width
SAE J587 SEP2003—License Plate Illumination Devices (Rear Registration Plate Illumination Devices)
SAE J588 JUL2008—Turn Signal Lamps for Use on Motor Vehicles Less than 2032 mm in Overall Width
SAE J591 SEP2003—Spot Lamps

R SAE J592 MAR2009—Sidemarker Lamps for Use on Road Vehicles Less than 2032 mm in Overall Width
SAE J593 SEP2005—Backup Lamp (Reversing Lamp)

R SAE J594 FEB2010—Reflex Reflectors
R SAE J852 MAR2009—Front Cornering Lamps for Use on Motor Vehicles

R SAE J914 SEP2009—Side Turn Signal Lamps for Vehicles Less than 12 m in Length
SAE J1319 MAY2005—Fog Tail Lamp (Rear Fog Light) Systems
SAE J1373 MAY2006—Rear Cornering Lamps for Use on Motor Vehicles Less than 9.1 m in Overall Length
SAE J1424 NOV2008—Cargo Lamps for Use on Vehicles Under 5443 kg (12 000 lb) GVWR
SAE J1889 JUL2005—L.E.D. Signal and Marking Lighting Devices
SAE J1957 MAR2000—Center High Mounted Stop Lamp Standard for Vehicles Less than 2032 mm Overall Width
SAE J2087 MAR2006—Daytime Running Light
SAE J2320 SEP2008—Discharge Signal Lighting System

3.4 Switches and Flashers

SAE J249 JUN1988—Mechanical Stop Lamp Switch
SAE J253 DEC1989—Headlamp Switch
SAE J564 MAR1990—Headlamp Beam Switching

R SAE J565 FEB2010—Semiautomatic Headlamp Beam Switching Devices
SAE J589b OCT1977—Turn Signal Switch

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3.5 Test Procedures and Materials

SAE J575 JUN2007—Test Methods and Equipment for Lighting Devices and Components for Use on Vehicles Less than 2032 mm in Overall Width
R SAE J576 FEB2010—Plastic Material or Materials for Use in Optical Parts Such as Lenses and Reflex Reflectors of Motor Vehicle Lighting Devices
SAE J1330 DEC2007—Photometry Laboratory Accuracy Guidelines
SAE J1647 SEP2007—Plastic Materials and Coatings for Use In or On Optical Parts Such as Lenses and Reflectors of High-Intensity Discharge Forward Lighting Devices Used in Motor Vehicles
SAE J1765 JUL2006—SAE Miniature Bulb Vibration Test
SAE J2139 SEP2005—Tests for Signal and Marking Devices Used on Vehicles 2032 mm or More in Overall Width
SAE J2217 OCT1991—Photometric Guidelines for Instrument Panel Displays that Accommodate Older Drivers
SAE J2382 SEP2000—Video Based Light Measurement Techniques

3.6 Warning Lamps and Devices

SAE J595 NOV2008—Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles
+ SAE J774 FEB2006—Emergency Warning Device and Emergency Warning Device Protective Container
SAE J845 DEC2007—Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles
SAE J887 AUG2004—School Bus Warning Lamps
SAE J1133 NOV2004—School Bus Stop Arm
SAE J1849 APR2008—Emergency Vehicle Sirens
SAE J2498 AUG2004—Minimum Performance of the Warning Light System Used on Emergency Vehicles

3.7 Agricultural Machinery

SAE J974 AUG2002—Flashing Warning Lamp for Agricultural Equipment

3.8 Construction and Industrial Machinery

SAE J95 JAN2007—Headlamps for Industrial Equipment
SAE J96 DEC2005—Flashing Warning Lamp for Industrial Equipment
SAE J99 MAY2003—Lighting and Marking of Industrial Equipment on Highways
SAE J572 MAY2004—Requirements for Sealed Lighting Unit for Construction and Industrial Machines

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3.9 Special Purpose Vehicles

SAE J1623 FEB2008—All-Terrain Vehicle Headlamps

3.10 Motorcycles

SAE J131 JUN2003—Motorcycle Turn Signal Lamps
SAE J213 FEB2004—Motorcycle Classifications
SAE J392 NOV2007—Motorcycle and Motor Driven Cycle Electrical System
  Maintenance of Design Voltage
SAE J584 JAN2003—Motorcycle Headlamps
SAE J1167 MAY2008—Motorcycle Stop Lamp Switch
SAE J1306 MAR2002—Motorcycle Auxiliary Front Lamps
SAE J1577 NOV2006—Replaceable Motorcycle Headlamp Bulbs

3.11 Snowmobiles

SAE J68 FEB2004—Tests for Snowmobile Switching Devices and Components
SAE J277 NOV2004—Maintenance of Design Voltage—Snowmobile Electrical
  Systems
SAE J278 MAR2006—Snowmobile Stop Lamp
SAE J279 MAR2006—Snowmobile Tail Lamp (Rear Position Lamp)
SAE J280 FEB2006—Snowmobile Headlamps
SAE J292 SEP2008—Snowmobile and Snowmobile Cutter Lamps, Reflective
  Devices, and Associated Equipment

3.12 Electrical Systems

R SAE J560 FEB2009—Primary and Auxiliary Seven Conductor Electrical
  Connector for Truck-Trailer Jumper Cable
SAE J823 JAN1994—Flashe Test
SAE J1067 JUN2007—Seven Conductor Cable—Truck and Bus
SAE J1128 DEC2005—Low Voltage Primary Cable
SAE J1239 FEB2003—Four-, Five-, and Eight-Conductor Electrical Connectors
  for Automotive Type Trailers
SAE J1292 JAN2008—Automobile, Truck, Truck-Tractor, Trailer, and Motor
  Coach Wiring
SAE J1654 SEP2004—High Voltage Primary Cable
SAE J1930 OCT2008—Electrical/Electronic Systems Diagnostic Terms,
  Definitions, Abbreviations, and Acronyms
SAE J2232 JUN1999—Vehicle System Voltage—Initial Recommendations

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SAE J2357 JAN2000—Application Guidelines for Electronically Driven and/or Controlled Exterior Automotive Lighting Equipment

Heavy Duty Vehicle Lighting (>2032mm in width)

SAE J577 JUL2005—Vibration Test Machine and Operation Procedure
(NOTE: This manual contains only a partial publication of the SAE standard J577. Due to constraints on their size, the machine drawings cannot be accommodated in this format. If you wish to purchase the entire standard with the drawings, please contact SAE Customer Service using the information on the copyright page at the front of this manual.)
SAE J1432 APR2006—Rear High Mounted Stop Lamps and Rear High Mounted Turn Signal Lamps for Use on Vehicles 2032 mm or More in Overall Width
SAE J1967 JAN2006—Retroreflective Materials for Vehicle Conspicuity
SAE J2039 MAY2001—Side Turn Signal Lamps for Long Vehicles
SAE J2040 MAR2002—Tail Lamps (Rear Position Lamps) for Use on Vehicles 2032 mm or More in Overall Width
SAE J2041 OCT2004—Reflex Reflectors for Use on Vehicles 2032 mm or More in Overall Width
SAE J2042 SEP2008—Clearance, Sidemarker, and Identification Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width
R SAE J2261 JAN2010—Stop Lamps and Front- and Rear-Turn Signal Lamps for Use on Motor Vehicles 2032 mm or More in Overall Width
SAE J2442 SEP2000—Harmonized Provisions for Installation of Lamps and Retro-Reflecting Devices on Road Vehicles Except Motorcycles
SAE J2577 SEP2008—Heavy Duty Lamp Electrical Connector Standard

4. Standards from Other SAE Technical Committees Referenced in SAE Lighting Standards

4.1 In SAE J2009

R SAE J1211 APR2009—Handbook for Robustness Validation of Automotive Electrical/Electronic Modules

5. Canceled SAE Standards on Motor Vehicle Lighting Subjects

6. Key Word Index

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