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AS 4113.1—1993

Australian Standard®

Traffic signal lamps

Part 1: Lamps for 240 V a.c. operation

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This Australian Standard was prepared by Committee LG/6, Road Traffic Signals. It was approved on behalf of the Council of Standards Australia on 11 February 1993 and published on 17 May 1993.

The following interests are represented on Committee LG/6:

Australian Chamber of Manufactures
Australian Electrical and Electronic Manufacturers Association
Australian Road Research Board
Austroads
Brisbane City Council
Department of Urban Services, A.C.T.
Metal Trades Industry Association of Australia
Roads and Traffic Authority, N.S.W.
VicRoads

Additional interests participating in preparation of Standard:

Suppliers of traffic signal lamps
Photometric testing laboratories

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Part 1: Lamps for 240 V a.c. operation

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PREFACE

This Standard was prepared by the Standards Australia Committee on Road Traffic Signals. It is one of a number of Standards which set out requirements for the equipment associated with traffic signal installations, namely—

AS 2144	*Traffic signal lanterns*
AS 2339	*Traffic signal posts and attachments*
AS 2353	*Pedestrian push-button assemblies*
AS 2578	*Traffic signal controllers*
AS 2578.1	Part 1: *Physical and electrical compatibility*
AS 2703	*Vehicle loop detector sensors*
AS 2979	*Traffic signal mast arms*
AS 4113	*Traffic signal lamps*
AS 4113.1	Part 1: *Lamps for 240 V a.c. operation* (this Standard)
AS 4113.2	Part 2: *Lamps for a.c. operation at extra-low voltage*

The photometric performance of a traffic signal lantern is a function of the lantern/lamp combination used. Until recently, the lamps used have universally been of the tungsten filament type designed for operation on a 240 V a.c. supply. With the emphasis now given to reducing energy usage in traffic signalling systems, traffic authorities are actively introducing or considering the introduction of lanterns with optical systems based on lamps operated at 10 V a.c.(see AS 4113.2).

This Standard applies to tungsten filament lamps for 240 V a.c. operation. Such lamps will be required for many years for replacement purposes because of the numbers of lanterns in service which utilize lamps of this type.

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CONTENTS

Page

SECTION 1 SCOPE AND GENERAL
1.1 SCOPE 4
1.2 APPLICATION 4
1.3 REFERENCED DOCUMENTS 4
1.4 DEFINITIONS 5
1.5 SAFETY REQUIREMENTS 6

SECTION 2 MECHANICAL AND PHYSICAL REQUIREMENTS
2.1 PHYSICAL ARRANGEMENT AND DIMENSIONS 7
2.2 MARKING 7
2.3 RESISTANCE TO COMPRESSION 7
2.4 RESISTANCE TO VIBRATION 7
2.5 PACKAGING 7

SECTION 3 ELECTRICAL AND PHOTOMETRIC REQUIREMENTS
3.1 OPERATING VOLTAGE 9
3.2 WATTAGE 9
3.3 LUMINOUS FLUX 9
3.4 INTERNAL FUSE 9
3.5 LIFE PERFORMANCE 9

APPENDICES
A PURCHASING GUIDELINES 13
B MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD 14
C PROCEDURE FOR THE MEASUREMENT OF LAMP WATTAGE AND LUMINOUS FLUX 16
D COMPRESSION TEST FOR GLASS ENVELOPE 18
E METHOD OF DETERMINING I^2t VALUE FOR INTERNAL FUSE 19
F ACCELERATED LIFE TEST PROCEDURE FOR ROUTINE TESTING 20

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