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Working Party on Lighting and Light-Signalling (GRE)
(Fifty-fifth session, 3-7 October 2005,
agenda item 20.5.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 37

(Filament lamps)

Transmitted by the expert from the Working Party "Brussels 1952" (GTB)

Note: The text reproduced below was prepared by the expert from GTB in order to introduce a new filament lamp category W15/5W. It is based upon Regulation No. 37 up to and including Supplement 25 to the 03 series of amendments. The modifications to the existing text of the Regulation are marked in **bold** characters.

Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

A. PROPOSAL

Annex 1,

List of categories of filament lamps, amend to read:

"...

Category	Sheet number(s)
...	
only for signalling lamps:	
…	
W5W	W5W/1
W15/5W	**W15/5W/1 to 3**
W16W	W16W/1
..."	

List of sheets for filament lamps, amend to read:

"...

Sheet number(s)
...
W5W/1
W15/5W/1 to 3
W16W/1
..."

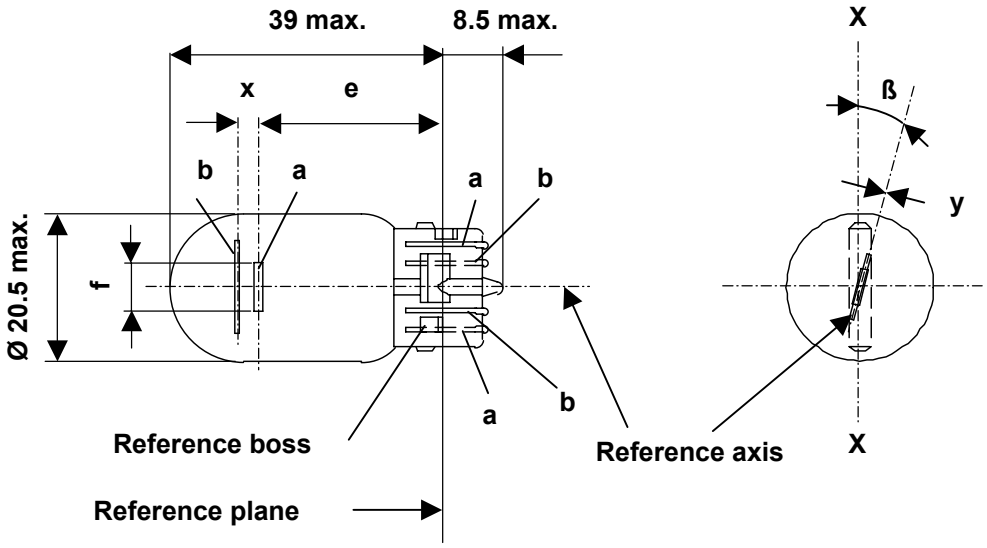
Insert new sheets W15/5W/1 to 3, between sheet W5W/1 and sheet W16W/1 as indicated in the list of sheets above, to read: (see next pages).

"CATEGORY W15/5W **Sheet W15/5W/1**

The drawings are intended only to illustrate the essential dimensions (in mm) of the filament lamp

FILAMENT LAMP FOR MOTORCYCLES

a= major (high wattage) filament
b= minor (low wattage) filament



Dimensions in mm		Filament lamps of normal production			Standard filament lamp	
		min.	nom.	max.		
e			25.0 1/		25.0 ± 0.3	
f				7.5	7.5 + 0/ - 2	
Lateral deviation	2/			1/	0.3 max.	
x	3/		2.8 1/		2.8 ± 0.3	
y	3/		0.0 1/		0.0 ± 0.3	
β		-15° 1/	0°	+15° 1/	0° ± 5°	
Cap WZ3x16q in accordance with IEC Publication 60061 (sheet 7004-[….]-1)						
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS						
Rated values	Volts	12			12	
	Watts	15	5		15	5
Test voltage	Volts	13.5			13.5	
Objective values	Watts	19.1 max.	6.6 max.		19.1 max.	6.6 max.
	Luminous flux	280 ± 15 %	35 ± 20 %			
Reference luminous flux: 280 lm and 35 lm at approximately 13.5 V						

1/ To be checked by means of a "Box-System"; sheets W15/5W/2 and 3.

2/ Maximum lateral deviation of filament centre from two mutually perpendicular planes both containing the reference axis and one containing axis X-X.

3/ "x" and "y" denote the offset of the axis of the minor filament with respect to the axis of the major filament.

CATEGORY W15/5W **Sheet W15/5W/2**

Screen projection requirements

This test is used to determine, by checking whether:

(a) the major filament is correctly positioned relative to the reference axis and reference plane and has an axis perpendicular, within ± 15°, to the plane through the axis X-X and the reference axis; and whether:

(b) the minor filament is correctly positioned relative to the major filament, whether a filament lamp complies with the requirements.

Test procedure and requirements.

1. The filament lamp is placed in a holder capable of being rotated about its axis and having either a calibrated scale or fixed stops corresponding to the angular displacement tolerance limits. The holder is then so rotated that an end view of the major filament is seen on the screen on which the image of the filament is projected. The end view of that filament shall be obtained within the angular displacement tolerance limits. (± 15°).

2. Side elevation

   The filament lamp placed with the cap down, the reference axis vertical and the major filament seen end-on:

2.1. the projection of the major filament shall lie entirely within a rectangle of height "a" and width "b", having its centre at the theoretical position of the centre of the filament;

2.2. the projection of the minor filament shall lie entirely within a rectangle of width "c" and height "d" having its centre at a distance "u" above the theoretical position of the centre of the major filament.

3. Front elevation

   The filament lamp being placed with the cap down and the reference axis vertical, the filament lamp being viewed in a direction at right angles to axis of the major filament:

3.1. the projection of the major filament shall lie entirely within a rectangle of height "a" and width "h", centred on the theoretical position of the centre of the filament;

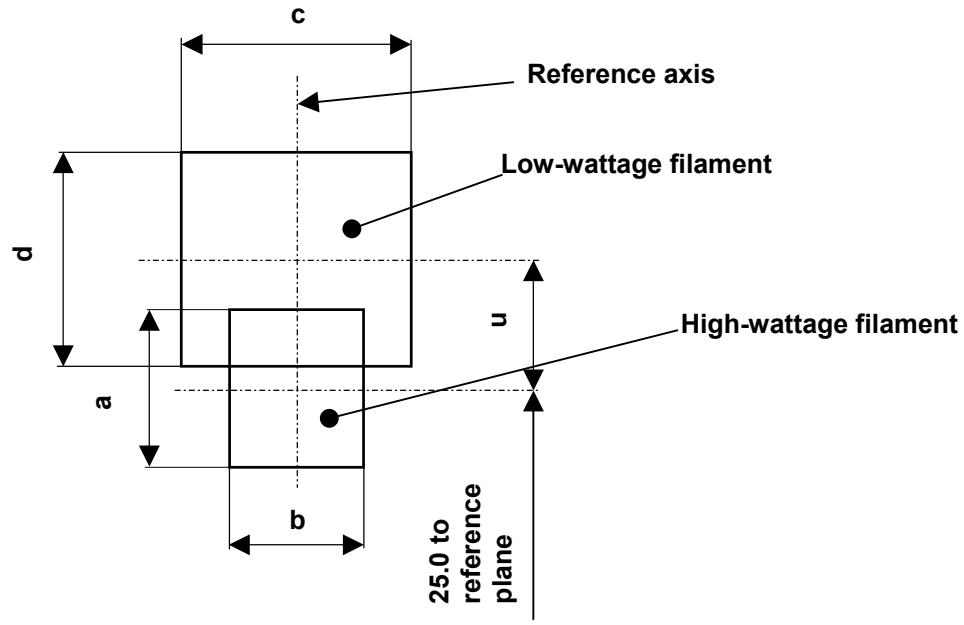
3.2. the centre of the major filament shall not be offset by more than distance "k" from the reference axis.

3.3. the centre of the minor filament axis shall not be offset from the reference axis by more than ± 2 mm (± 0.4 mm for standard filament lamps).

CATEGORY W15/5W **Sheet W15/5W/3**

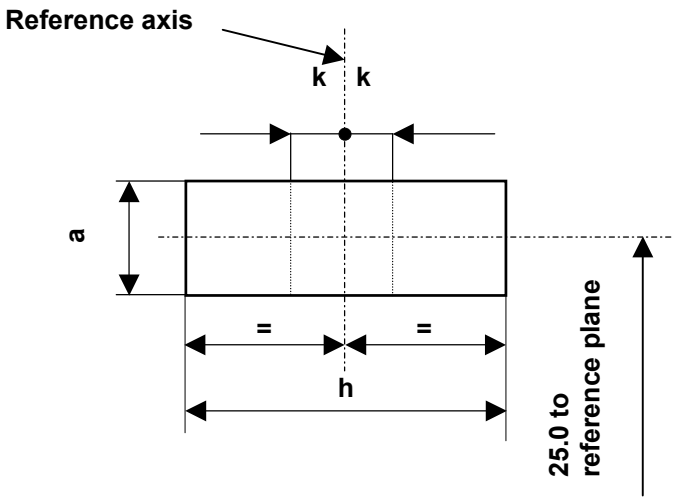
Side elevation

Dimensions in millimetres



Reference	a	b	c	d	u
Dimensions	3.3	2.8	4.8		2.8

Front elevation



Reference	a	h	k
Dimensions	3.3	9.5	1.0

"

B. JUSTIFICATION

Though quite similar to W21/5W, the lower wattage is required for the use of motorcycle signalling lamps. Similar local light source categories are in use in Japan.

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