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Item 4.2.19. of the provisional agenda

1958 AGREEMENT

Consideration of draft amendments to existing Regulations

Proposal for Supplement 29 to the 03 series of Amendments to Regulation No. 37

(Filament lamps)

Submitted by the Working Party on Lighting and Light-signalling

The text reproduced below was adopted by the Working Party on Lighting and Light-signalling (GRE) at its fifty-seventh session. It is based on ECE/TRANS/WP.29/GRE/2006/35, as amended by GRE-57-3, and on ECE/TRANS/WP.29/GRE/2006/35, not amended. It is submitted to WP.29 and AC.1 for consideration (ECE/TRANS/WP.29/GRE/57).

Annex 1

The list of categories of filament lamps and their sheets, amend to read (including the deletion of the references to footnotes ****/ and *****/, the deletion of footnotes ****/ and *****/, as well as the deletion of categories R2 and S1 from the list):

"List of categories of filament lamps, grouped, and their sheet numbers:

Group 1

Without general restrictions:

| <u>Category</u> | | <u>Sheet number(s)</u> |
|-----------------|------------|------------------------|
| H1 | | H1/1 to 3 |
| | | |
| H14 | | H14/1 to 4 |
| H15 | | H15/1 to 5 |
| H21W | <u>**/</u> | H21W/1 to 2 |
| H27W/1 | | H27W/1 |
| | | |
| HS5 | | HS5/1 to 4 |
| PSX24W | <u>**/</u> | P24W/1 to 3 |
| PX24W | <u>**/</u> | P24W/1 to 3 |
| S2 | | S1/S2/1 to 2 |
| S3 | | S3/1" |

The list "only for signalling lamps", amend to read (including the deletion of category C21W from the list):

"Group 2

Only for use in signalling lamps, cornering lamps, reversing lamps and rear registration plate lamps:

| <u>Category</u> | <u>Sheet number(s)</u> |
|-----------------|------------------------|
| C5W | C5W/1 |
| H6W | H6W/1 |
| | |
| WY21W | WY21W/1 to 2" |

The list of sheets for filament lamps and their sequence, amend to read:

"
 Sheet number(s)

....
 H14/1 to 4
 H15/1 to 5
 H6W/1
.... "

Insert a new list "Group 3", to read:

"Group 3

For replacement purposes only (see transitional provisions of paragraphs 8.3. and 8.4.):

| <u>Category</u> | <u>Sheet number(s)</u> |
|-----------------|------------------------|
| C21W | C21W/1 to 2 |
| R2 | R2/1 to 3 |
| S1 | S1/S2/1 to 2 " |

Insert new sheets H15/1 to 5, between sheet H14/4 and sheet H6W/1, to read:
(see next pages).

CATEGORY H15 Sheet H15/1

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

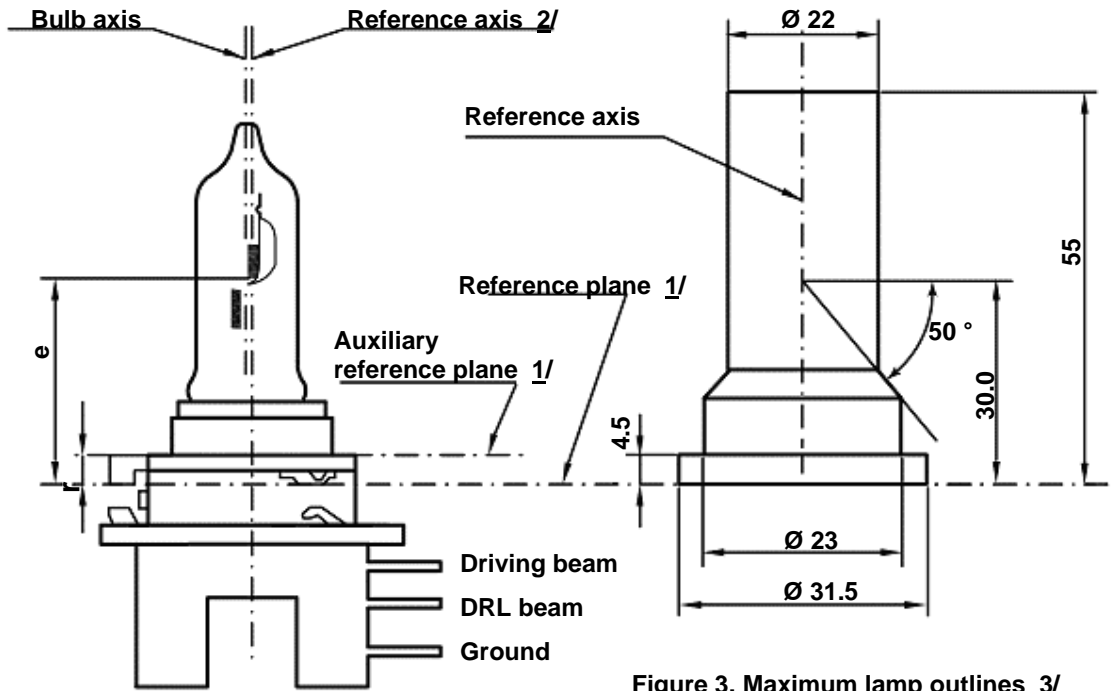


Figure 1. Main drawing

Figure 3. Maximum lamp outlines 3/

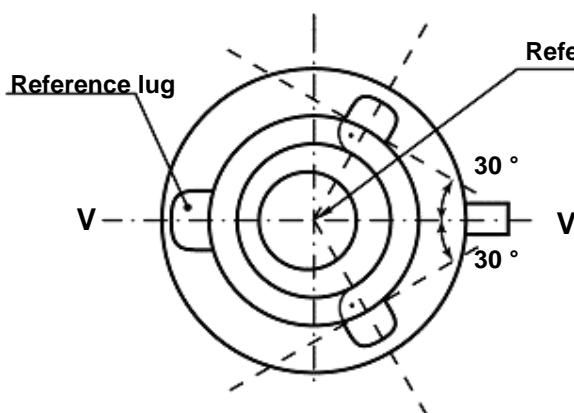


Figure 2. Definition of reference axis 2/

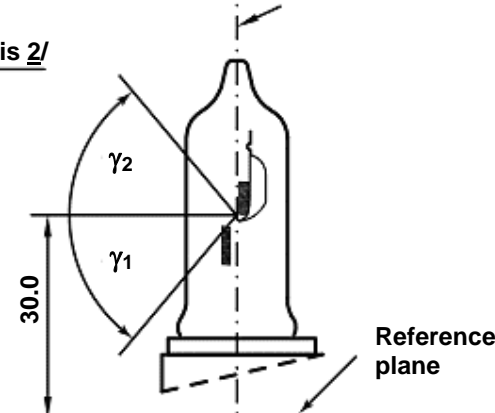


Figure 4. Distortion free area 4/

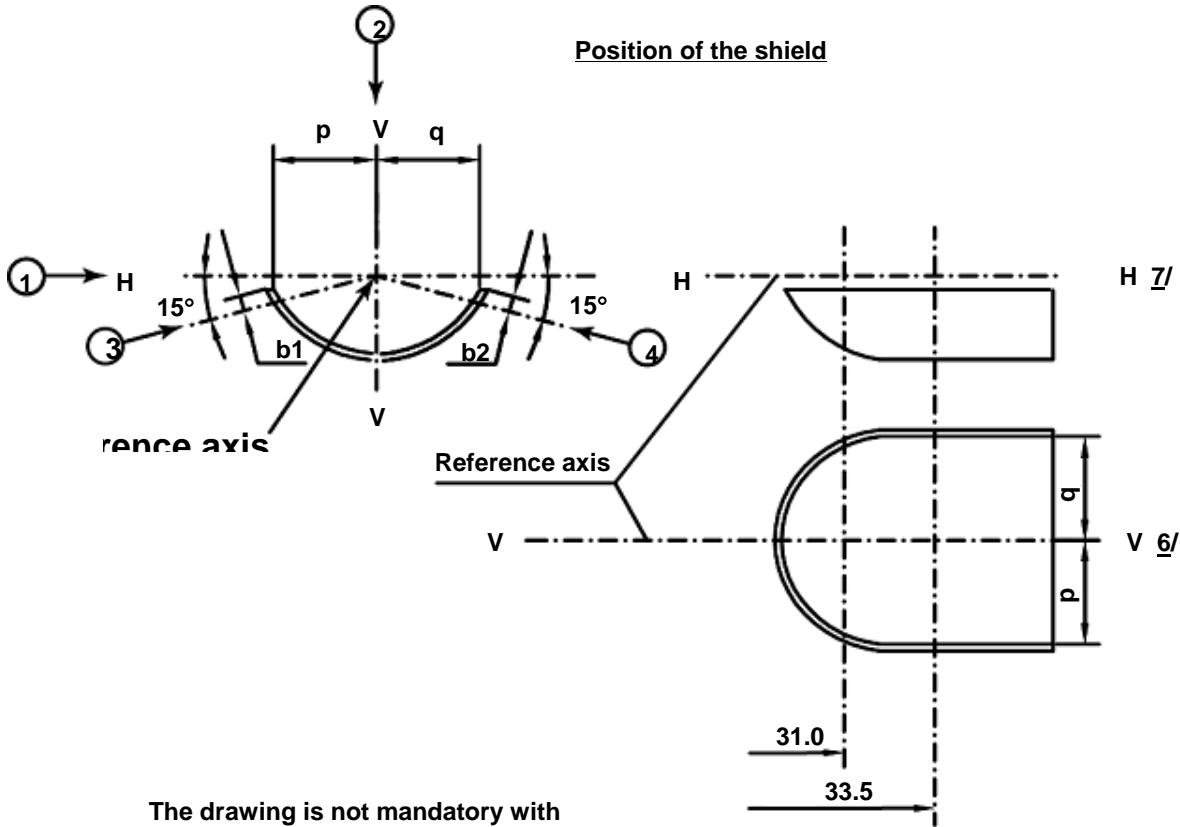
- 1/ The reference plane is defined by the points at which the holder touches the three lugs of the cap ring from the plug side. It is intended for use as an internal reference plane.
The auxiliary reference plane is defined by the points on the surface of the holder on which the three supporting bosses of the cap ring will rest. It is intended for use as an external reference plane.
The Cap is designed for use of the (internal) reference plane, but for certain applications the (external) auxiliary reference plane may be used instead.
- 2/ The reference axis is perpendicular to the reference plane and crosses the intersection of the two perpendiculars as indicated in figure 2 on sheet H15/1.
- 3/ Glass bulb and supports shall not exceed the envelope as indicated in figure 3. The envelope is concentric to the reference axis.
- 4/ Glass bulb shall be optically distortion free within the angles γ_1 and γ_2 as indicated in figure 4. This requirement applies to the whole bulb circumference within the angles γ_1 and γ_2 .

CATEGORY H15

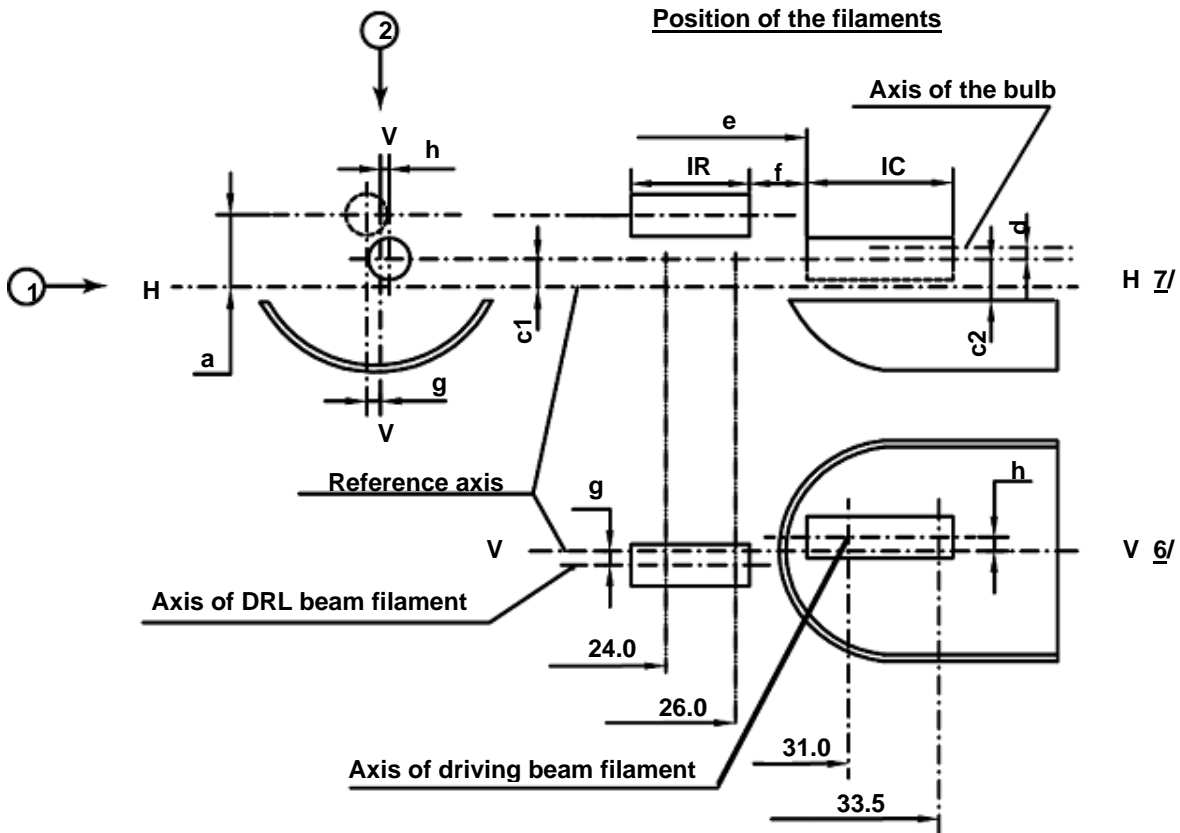
Sheet H15/2

| Dimensions in mm | | Filament lamps of normal production | | Standard filament lamp | |
|--|---------------|-------------------------------------|-------------|------------------------|---------|
| | | 12 V | | 12V | |
| e | | 30.0 +0.35/-0.25 | | 30.0 +0.20/-0.15 | |
| γ_1 | | 50°min | | 50°min | |
| γ_2 | | 50°min | | 50°min | |
| r | | For details see cap sheet | | | |
| Cap PGJ23t-1 in accordance with IEC Publication 60061 (sheet 7004-[...]-1) | | | | | |
| ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS | | | | | |
| Rated values | Volts | 12 <u>5/</u> | | 12 <u>5/</u> | |
| | Watts | 15 | 55 | 15 | 55 |
| Test voltage | Volts | 13.2 | 13.2 | 13.2 | 13.2 |
| Objective values | Watts | 19 max. | 64 max. | 19 max. | 64 max. |
| | Luminous flux | 260 ± 10% | 1,350 ± 10% | | |
| Reference luminous flux at approximately 12 V | | | | | 1,000 |
| Reference luminous flux at approximately 13.2 V | | | | | 1,350 |
| Reference luminous flux at approximately 13.5 V | | | | 290 | |

5/ The values indicated in the left hand columns relate to the DRL filament. Those indicated in the right-hand columns relate to the driving beam filament.



The drawing is not mandatory with respect to the design of the shield



CATEGORY H15

Sheet H15/4

Table of the dimensions (in mm) referred to in the drawings on sheet H15/3

| Reference <u>*/</u> | Dimension <u>**/</u> | Tolerance | |
|---------------------|------------------------------------|-------------------------------------|------------------------|
| | | Filament lamps of normal production | Standard filament lamp |
| | 12 V | 12 V | 12 V |
| a/24.0 | 1.8 | ± 0.35 | ± 0.20 |
| a/26.0 | 1.8 | ± 0.35 | ± 0.20 |
| b1/31.0 | 0 | ± 0.30 | ± 0.15 |
| b1/33.5 | b1/31.0 mv | ± 0.30 | ± 0.15 |
| b2/31.0 | 0 | ± 0.30 | ± 0.15 |
| b2/33.5 | b2/31.0 mv | ± 0.30 | ± 0.15 |
| c1/31.0 | 0 | ± 0.30 | ± 0.15 |
| c1/33.5 | c1/31.0 mv | ± 0.30 | ± 0.15 |
| c2/33.5 | 1.1 | ± 0.30 | ± 0.15 |
| d | min. 0.1 | - | - |
| f <u>8/ 9/ 10/</u> | 2.7 | ± 0.30 | + 0.20 - 0.10 |
| g/24.0 | 0 | ± 0.50 | ± 0.25 |
| g/26.0 | 0 | ± 0.50 | ± 0.25 |
| h/31.0 | 0 | ± 0.50 | ± 0.25 |
| h/33.5 | h/31.0 mv | ± 0.30 | ± 0.15 |
| IR <u>8/ 11/</u> | 4.2 | ± 0.40 | ± 0.20 |
| IC <u>8/ 9/</u> | 4.4 | ± 0.40 | ± 0.20 |
| p/33.5 | Depends on the shape of the shield | - | - |
| q/33.5 | p/33.5 | ± 1.20 | ± 0.60 |

*/ ".../26.0" means dimension to be measured at the distance from the reference plane indicated in mm after the stroke.

**/ "31.0 mv" means the value measured at a distance of 31.0 mm from the reference plane.

-
- 6/ Plane V-V is the plane perpendicular to the reference plane and passing through the reference axis and through the axis of the reference lug.
- 7/ Plane H-H is the plane perpendicular to both the reference plane and plane V-V and passing through the reference axis.
- 8/ The end turns of the filament are defined as being the first luminous turn and the last luminous turn that are at substantially the correct helix angle.
- 9/ For the driving beam, the points to be measured are the intersections, seen in direction 1, of the lateral edge of the shield with the outside of the end turns defined under footnote 8/.
- 10/ "e" denotes the distance from the reference plane to the beginning of the driving beam filament as defined above.
- 11/ For the DRL filament the points to be measured are the intersections, seen in direction 1, of a plane, parallel to plane H-H and situated at a distance of 1.8 mm above it, with the end turns defined under footnote 8/.

Additional explanations to sheet H15/3

The dimensions below are measured in four directions:

- 1) for dimensions a, c1, c2, d, e, f, lR and lC;
- 2) for dimensions g, h, p and q;
- 3) for dimension b1;
- 4) for dimension b2.

Dimensions b1, b2, c1 and h are measured in planes parallel to the reference plane at distances of 31.0 and 33.5 mm.

Dimensions c2, p and q are measured in a plane parallel to the reference plane at a distance of 33.5 mm.

Dimensions a and g are measured in planes parallel to the reference plane at distances of 24.0 mm and 26.0 mm."

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