Evolution of the system Basic idea for division of focus between UN "installation" and "device" Regulations

colorimetry?

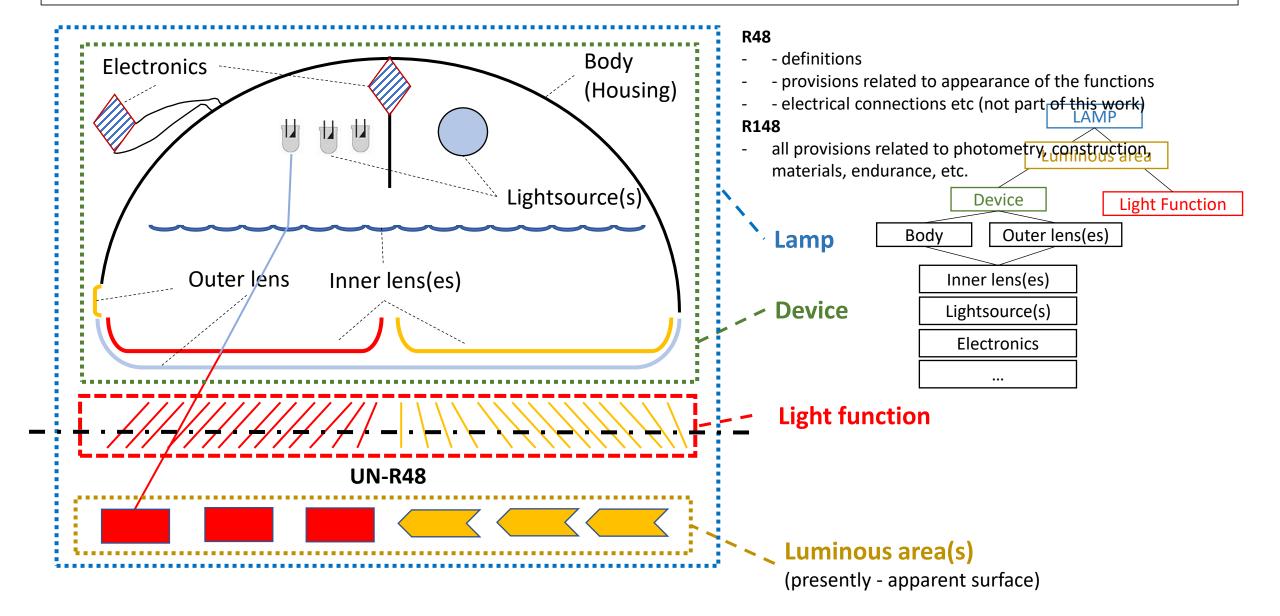
SLR-65-07 Example: Left side tail lamp, seen from top Question: What kind of "device/lamp" is it? Single lamp? D-lamp? Y-lamp? Answer: Who cares? That's the signal you see from behind Challenge: change the perspective Today kind of device kind of device/lamp? installation requirements installation requirements? requirements for parts requirements for parts? Photometry, geometry Photometry, geometry and

and colorimetry

Tomorrow

Installation (appearance)

Evolution of the system Basic idea for UN R48

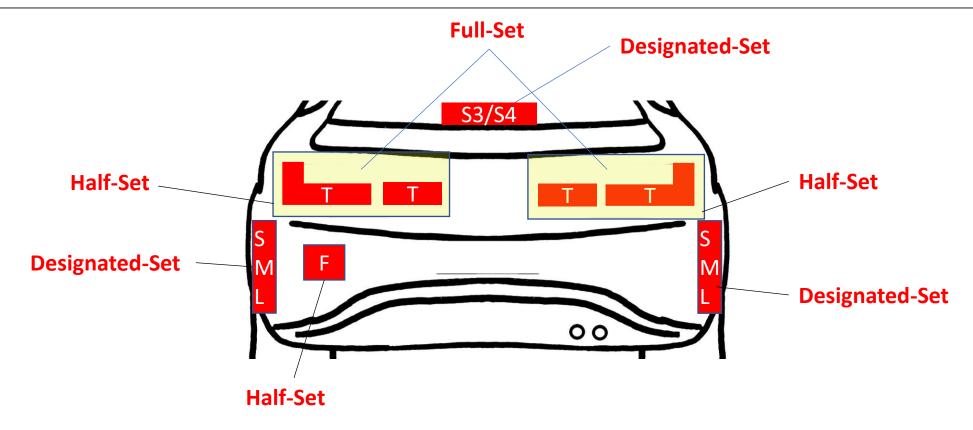


Evolution of the system Basic idea for a definition update/amendment

- [2.1.4. "Device" means an element or an assembly of elements used to perform a specific purpose.] (unnecessary as dictionary definition exists)
- 2.1.4. "Light function" means a defined photometrical, geometrical and colorimetrical output of a lamp.
- 2.1.4.1. "Lighting function" means a light function to illuminate the road and objects in the direction of vehicle movement and around the vehicle.
- 2.1.4.2. "Light-signalling function" means a light function to give to other road users visual information on the presence, identification, size and/or the change of movement of the vehicle.
- 2.1.5. "Lamp" means a device, assembly of devices or part of a device designed to display one or more light functions.
- 2.10.x "Luminous area" means an [area of visible light / apparent surface] that contributes to a specific light function.
- 2.4.x. Set of luminous areas
- 2.4.x.1. "Half-set" means one or more luminous area(s) designed to display a left-hand or right-hand side of one light function on, respectively, the left-hand or the right-hand side of a vehicle.
- 2.4.x.2. "Full-set" means the combination of two half-sets (left-hand side and the right-hand side) designed to display one light function on the vehicle
- 2.4.x.3. "Matched-set" means the combination of two half-sets (left-hand side and the right-hand side), which, only as a full-set, comply with the photometric requirements of this light function.
- 2.4.x.4. "Designated-set" means one or more luminous areas designed to display a specific light function at a defined spot on a vehicle.
- 5.5. In the absence of specific instructions lamps constituting a full-set shall:

Relevant definitions for describing any function on a vehicle!

Evolution of the system Basic idea for UN R48 – visualization of the definitions



- The half-set for the left part of the vehicle and the half-set for the right hand of the vehicle together form a full-set.
- A designated-set fulfils a function (for the time being SML and S3/S4 only)
- For the time being a matched set is only used for road illumination functions.

Evolution of the system Usage of the new definitions of "set"

6.4.	Reversing	lamp:
O. I.	110 4 6 1 3 1 1 1 5	

- 6.4.1. Presence: Mandatory on motor vehicles and on trailers of categories O₂, O₃ and O₄. Optional on trailers of category O₁.
- 6.4.2. Number
- 6.4.2.1. On motor vehicles of category M₁ and on all other vehicles with a length not exceeding 6,000 mm

One **half-set** mandatory

Full-set optional.

6.4.2.2. On all vehicles with a length exceeding 6,000 mm, except vehicles of category M₁

Full-set mandatory

Second full-set optional

6.4.4.3. In length: at the rear of the vehicle

However, if installed, the optional full-set (two half-sets) mentioned in paragraph 6.4.2.2. may be fitted on the sides of the vehicle...

6.4.5.1. Devices installed at the rear of the vehicle:

Defined by angles α and β , as specified in paragraph 2.10.7.:

 α = 15° upwards and 5° downwards,

 β = 45° to right and to left if there is one half-set,

45° outwards and 30° inwards if there is a full-set.

6.4.5.2. The optional **full-set** mentioned in paragraph 6.4.2.2. if fitted on the side of the vehicle:

The geometric visibility is considered to be ensured if the reference axis of the respective **half-set** is directed outwards with an angle β not exceeding 15° relative to the median longitudinal plane of the vehicle. The vertical aim of the two **half-sets** may be directed downwards.

6.4.6.2. In addition, if the optional **full-set** mentioned in paragraph 6.4.2.2., are fitted on the side of the vehicle, the provisions of paragraph 6.4.5.2. above shall apply.

6.4.7.2. Moreover, the electrical connections of the optional **full-set** mentioned in paragraph 6.4.2.2. shall be such that this set cannot be switched ON unless the lamps referred to in paragraph 5.11. are switched ON.

The optional half-sets fitted on the side of the vehicle may be switched ON for slow manoeuvres in forward motion of the vehicle up to a maximum speed of 15 km/h, provided that the following conditions are fulfilled:

(a) The optional half-sets shall be switched ON and OFF manually by a separate control;

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