

Index du dossier de réception d'une homologation par type en application d'un Règlement Index to the information package of a type approval with regard to a Regulation

Dernière Série d'amende-	réception de	Extension N° Extension No	Révision N° Revision No	Date d'émission Issue date	Fiche de renseignements Information document	
ments applicable Last applicable Series of amendments	base et mise à jour Base approval and update No			issue aute	Référence Reference	Nombre de pages Number of pages
50-00	00	-	-	23.02.2017	FUAN 0348 / 00	5

Vu pour être annexé à la fiche de réception, Approved and to be attached to the approval certificate, Le Directeur, The Director,



Laurence LEROY

			SREGIONAL PUBLIC
N° d'homologation mis à jour : E6-50R-	000261		BEVASYS : 201618463
Updated Approval No			
Mise à jour n° : 00	Date d'émission :	23.02.2017	lorate
Update No	Issue date		
www.bruxellesmobilite.irisnet.be		www.mobielbruss	



COMMUNICATION CONCERNANT L'HOMOLOGATION ACCORDEE D'UN TYPE DE FEUX-POSITION COMMUNICATION CONCERNING THE APPROVAL GRANTED OF A TYPE OF FRONT POSITION LAMPS, AVANT, DES FEUX-POSITION ARRIERE, DES FEUX-STOP, DES INDICATEURS DE DIRECTION ET DES REAR POSITION LAMPS, STOP LAMPS, DIRECTION INDICATORS AND REAR-REGISTRATION-PLATE DISPOSITIFS D'ECLAIRAGE DE LA PLAQUE D'IMMATRICULATION ARRIERE POUR LES ILLUMINATING DEVICES FOR MOPEDS, MOTORCYCLES AND VEHICLES TREATED AS SUCH CYCLOMOTEURS, LES MOTOCYCLES ET LES VEHICULES Y ASSIMILES PURSUANT TO REGULATION No. 50-00 EN APPLICATION DU REGLEMENT N° 50-00

	homologation : E6-50R-000261 val No.	Marque d'homologa Approval mark	tion :				
			50R-00	CR-BS	01	RL	00
		PL E6 7.5 ↔	0261				
1. <i>1</i> .	Marque de fabrique ou de commerce du <i>Trade name or mark of the device</i>	dispositif : FUAN					
2. 2.	Désignation du type de dispositif par le <i>Manufacturer's name for the type of device</i>	fabricant: 0348					
3. <i>3</i> .	Nom et adresse du fabricant : Manufacturer's name and address	•					
4. <i>4</i> .	Nom et adresse du mandataire du fabric If applicable, name and address of manufac						
5. 5.	Soumis à l'homologation entre le : 30.1 Submitted for approval on	2.2016					
6. 6.	Service technique chargé des essais : Technical service responsible for conducting	g approval tests					
	VINCOTTE nv Jan Olieslagerslaan 35 1800 VILVOORDE BELGIUM						
7. 7.	Date du procès-verbal d'essai : 23.02.20 Date of report issued by that service)17					
8. 8.	Numéro du procès-verbal d'essai : H160 Number of report issued by that service	60549761/640			- BALICO	SLS REGIONAL A	
DEVI	ANIA ANIA ANIA	D5 0.00			Brus		

Sec

1

- 9. Description sommaire¹: voir fiche de renseignements 9.
 - Concise description 1 : see information document

Par catégorie de feu : -By category of lamp

Couleur de la lumière émise : rouge / blanc / ambre² Colour of light emitted : red / white / amber²

Nombre et catégorie(s) de source(s) lumineuse(s) : 1 LED / 1 light source Number and category(ies) of light source(s)

Module d'éclairage : $\frac{1}{0}$ oui / non ² Light source module : yes / no²

Code d'identification propre au module d'éclairage : -Light source module specific identification code

Conditions géométriques de montage et variantes éventuelles : voir fiche de renseignements Geometrical conditions of installation and relating variations : see information documents

Le dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -

Application of an electronic light source control gear / variable intensity control :

(a) fait partie du feu : oui / non / non applicable (a) being part of the lamp : $\frac{yes}{no}$ not applicable²

(b) ne fait pas partie du feu : $\frac{1}{1000} - \frac{1}{1000} - \frac{1}{1000}$ non applicable ²

(b) being not part of the lamp : $\frac{yes}{no}$ not applicable²

Tension d'alimentation du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -Input voltage supplied by an electronic light source control gear / variable intensity control :

Nom du fabricant et numéro d'identification du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité (lorsque le dispositif de régulation de la source lumineuse fait partie du feu mais n'est pas incorporé dans son boîtier) : -

Electronic light source control gear / variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body)

Uniquement pour une hauteur de montage égale ou inférieure à 750 mm au-dessus du sol: : oui / non² Only for limited mounting height of equal to or less than 750 mm above the ground : $\frac{yes}{yes}$ / no²

Dans ce cas, la rubrique "DESCRIPTION SOMMAIRE" sera rédigée en annexe et y figureront, le cas échéant, pour chaque feu :

R50.00

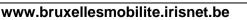
- In this case, the item "CONCISE DESCRIPTION" is to be prepared as an annex containing the following information for each lamp, where applicable le nombre et la catégorie de lampe(s) à incandescence;
- number and category of filament lamp(s) la tension nominale:

rated voltage

- catégorie du dispositif;
- category of the device
- la couleur de la lumière émise.
- colour of light emitted

² Biffer les mentions qui ne conviennent pas - Strike out what does not apply

BEVASYS : 201618463



www.mobielbrussel.irisnet.be



En ce qui concerne les feux d'éclairage et de signalisation, lors de l'homologation d'un ensemble comprenant plusieurs feux fixes avec attribution l'homologation d'un numéro unique, une seule fiche peut être rédigée. Il suffit de signaler :

With regard to lighting and light-signalling lamps, when an assembly comprising several lamps designated by a single number has been approved, a single form may be prepared. It is sufficient to indicate

dans l'en-tête, le nom des feux en question;

in the heading, the names of the lamps in question

les numéros des directives pertinentes.

the numbers of the various relevant regulations

Fonction(s) assurée(s) par un feu interdépendant faisant partie d'un système de feux interdépendants: *Function(s) produced by an interdependent lamp forming part of an interdependent lamp system:* Feu de position avant: oui / non ² *Front position lamp: yes/ no* ² Feu de position arrière: oui / non ² *Rear position lamp: yes/ no* ² Feu-stop: oui / non ² *Stop lamp: yes/ no* ²

Activation séquentielle des sources lumineuses (voir le paragraphe 6.8 du présent Règlement) : $\frac{1}{2}$ oui / non ² Sequential activation of light sources (see paragraph 6.8. of this Regulation): $\frac{1}{2}$ vers / no ²

- 10. Position de la marque d'homologation : sur la lampe
- 10. Position of the approval mark : on the lamp
- 11. Motif(s) de la prorogation de l'homologation (le cas échéant) : -
- 11. Reason(s) for extension (if applicable)
- 12. Homologation accordée.
- 12. Approval granted.
- 13. Lieu : Bruxelles
- 13. Place
- 14. Date : 23.02.2017
- 14. Date
- 15. Signature :
- 15. Signature

AU NOM DU MINISTRE : ON BEHALF OF THE MINISTER Pour le Directeur Général, For the Director General, Le Directeur, The Director,

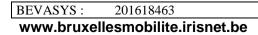




Laurence LEROY

3

- 16. Est annexée la liste des pièces déposées au service administratif ayant délivré l'homologation, qui peuvent être obtenues sur demande
- 16. The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request



www.mobielbrussel.irisnet.be



VINÇOTTE nv Registered office: Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium VAT BE 0462.513.222 • RPM/RPR Brussels • BNP Paribas Fortis: BE24 2100 4113 6338 • BIC: GEBABEBB Jan Olieslagerslaan 35 • 1800 Vilvoorde • Belgium • phone: +32 2 674 57 11 • brussels@vincotte.be

ISO/IEC 17020 Accredited inspection body - Accreditation certificate BELAC No. 016-INSP

1. SUBJECT : FRONT POSITION LAMPS, REAR POSITION LAMPS, STOP LAMPS, DIRECTION INDICATORS, REAR-REGISTRATION PLATE LAMPS (CATEGORY L VEHICLES)

R50-00

2. REF. :	Report number	: H1660549761/640	No. of pages	: 1 of 11	No. of annexe	s:-
	Bevasys	: 201618463	Approval No.	: (0261 00)	Update	: 00

3. GENERALITIES :

Make of Device : FUAN

Commercial Type : -

Manufacturer's Type : 0348

Name and address of the manufacturer :

- 4. **TESTS** : Date and place
- : 2016.12.30
- Applied document(s) : FUAN 0348 / 00
- Inspector : LU Wan-Ching
- Persons witnessing the tests : LU Wan-Ching
- Location of E-mark : On the lamp

5. CONCLUSIONS :

The tests were carried out according to the following specifications :

- UNECE Regulation No. 50 incorporating supplement 18 to the original version.

The models presented comply with the requirements to be applied.



Date : 2017.02.23

Signature :

R5000AG



DESCRIPTION OF THE TESTED LAMP(S)

Lamp type	:	Front position lamp which is reciprocally incorporated with daytime running lamp.
Lamp category	:	-
Filament lamp category	:	-
Number of filament lamps	:	-
Non-replaceable light source	:	1LED / 1 light source
Rated voltage and wattage	:	12V, 1W
Light source module specific	:	-
identification code		

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Each device shall conform to the specifications of this Regulation	6.1.	Х	
The devices must be so designed and constructed that in normal use, and despite the vibrations to which they may be subjected, their satisfactory operation continues to be assured and they retain the characteristics prescribed by this Regulation.	6.2.	Х	
Position lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an additional system to regulate the intensity of the light emitted, are permitted.	6.3.	Х	
However, in the case of rear position lamp reciprocally incorporated with a stop lamp, the device shall either:	6.3.1.		
(a) Be a part of a multiple light source arrangement, or			
(b) Be intended for use in a vehicle equipped with a failure monitoring system for that function.			
In either case, a note shall be made within the communication document.			
In the case of replaceable light source(s):	6.4.		Х
Any category or categories of light source(s) approved according to Regulation No. 37 and/or Regulation No. 128 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.	6.4.1.		
The design of the device shall be such that the light source cannot be fixed in any other position but the correct one.	6.4.2.		
The light source holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of light source used, applies.	6.4.3.		
In the case of replaceable filament lamp(s) :	6.5.		Х
Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.	6.5.1.		
The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.	6.5.2.		
The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies.	6.5.3.	REGIONAL PUL	C stan
		- Barsan Andrew	et K5000AG



Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Only front and rear position lamps and stop lamps may be constructed as an interdependent lamp system.	6.6.		Х
An interdependent lamp system shall meet the requirements when all its interdependent lamps are operated together. However, if the interdependent lamp system providing the rear position lamp function is partly mounted on the fixed component and partly mounted on a movable component, the interdependent lamp(s) specified by the applicant shall meet the outboard geometric visibility, colorimetric and photometric requirement, at all fixed positions of the movable component(s). In this case, the inboard geometric visibility requirement is deemed to be satisfied if this (these) interdependent lamp(s) still conform to the photometric values prescribed in the field of light distribution for the approval of the device, at all fixed positions of the moveable component(s).	6.7.		Х
 For direction indicator lamps of categories 11, 11a, 11b, 11c or 12 the flash may be produced by sequential activation of their light sources if the following conditions are met: (a) Each light source, after its activation, shall remain lit until the end of the ON cycle; (b) The sequence of activation of the light sources shall proceed in a uniform progressive manner from inboard towards the outboard edge of the apparent surface; (c) It shall be one continuous line without repeat alternation in the vertical direction (e.g. no waves); (d) The variation shall finish no more than 200 ms after the beginning of the ON cycle; (e) For the orthogonal projection in the direction of the axis of reference of a rectangle, circumscribing the apparent surface of the direction indicator shall have its longer sides parallel to the H-plane, the ratio of the horizontal to the vertical sides shall not be less than 1.7. 	6.8.		Х





INTENSITY OF LIGHT EMITTED

Characteristics concerned and prescriptions to apply			References	Conformity	Not applicated
In the reference axis, the intensity of the emitted ligh be at least equal to the minimum values and not exce following table. In no direction, the maximum value	eed the ma s indicate	aximum values of the d shall be exceeded.			
Rear position lamp Front position lamp Front position lamps incorporated in the headlamp Stop lamp Direction indicators of the category 11 (see annex 1) of the category 11a (see annex 1)	iin. (cd) 4 4 40 90 175	max. (cd) 17 140 140 260 1,000 1,000	 7.1. 7.2. 7.2.1. 7.3. 7.4. 7.4.1. 7.4.1.1. 	Х	X X X X
of the category 11b (see annex 1) of the category 11c (see annex 1) of the category 12 (see annex 1)	250 400 50	1,200 1,200 500	7.4.1.2. 7.4.1.3. 7.4.2.		
Outside of the reference axis and within the angle fit Annex 1 to this Regulation, the intensity of the light corresponding to the points in the light distribution t Regulation, be not less than the product of the minin 7.4. above and of the percentage specified in the said	emitted s able reprona	hall, in each direction oduced in Annex 4 to this ed in paragraphs 5.7.1. to	7.5.	Х	
 In the case of a single lamp containing more than on (a) Except for a direction indicator lamp, the minimum intensity required in the table of space as shown in Annex 4 when any light (b) all light sources which are connected in se light source. 	lamp shall standard source ha	comply with the light distribution in as failed.	7.5.1.		Х
As an exception to paragraph 7.1. above, a luminous be permitted for rear position lamps reciprocally inc plane forming an angle of 5° with and downward from the plane forming and the plane fo	orporated	with stop lamps below a	7.6.		Х
Moreover,			7.7.		
throughout the fields defined in Annex 1, the intensi less than 0.05 cd for position lamps and not less than direction indicators;			7.7.1.	Х	
if a position lamp is grouped or reciprocally incorpo between the luminous intensities actually measured simultaneously and the intensity of the rear position be at least 5:1 to the eleven measuring points defined field delimited by straight vertical lines passing thro horizontal lines passing through \pm 5°V/0°H of the lig	of the two lamp whe d in Anne ugh 0°V/=	 amps when turned on turned on alone shall 4 and situated in the 10°H and the straight 	7.7.2.		Х
If the rear position lamp or the stop lamp or both con and are considered as a single lamp, as defined in pa be considered are those obtained with all light source	ragraph 7	.5.2. above, the values to			
the provisions of § 2.2. of Annex 4 to this Regulatio shall be observed.	n on local	variations of intensity	7.7.3.	Х	





Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
In general the intensities shall be measured with the light sources(s) continuously alight.	7.8.	Х	
In the case of lamps intended to work intermittently, precaution shall be taken to avoid overheating of the device. Depending on the construction of the device, for example, the use of light-emitting diodes (LED) or the need to take precautions to avoid overheating, it is allowed to measure the lamps in flashing mode.			
This must be achieved by switching with a frequency of $f = 1.5 \pm 0.5$ Hz with the pulse width greater than 0.3 s, measured at 95% peak light intensity.			
In the case of replaceable filament lamps the filament lamps shall be operated at reference luminous flux during on time. In all other cases the voltage as required in paragraph 8.1. shall be switched with a rise time and fall time shorter than 0.01s; no overshoot is allowed.			
In the case of measurements taken in flashing mode the reported luminous intensity shall be represented by the maximum intensity.			
Annex 4, to which reference is made in paragraph 7.5. above, gives particulars of the methods of measurement to be used.	7.9.	Х	
The rear-registration-plate illuminating device shall comply with the specifications indicated in Annex 5 to this Regulation.	7.10.		Х







TEST PROCEDURE

Characte	Characteristics concerned and prescriptions to apply		Conformity	Not applicated
	urements, photometric and colorimetric shall be carried out with an uncoloured or standard light source of the category prescribed for the device, supplied with the	8.1.	Х	
(a)	In the case of filament lamps, that is necessary to produce the reference			Х
(b)	luminous flux required for that category of filament lamp; In the case of LED light sources of 6.75 V or 13.5 V; the luminous flux value produced shall be corrected. The correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied			х
(c)	In the case of lamps with non-replaceable light sources: 6.75 V and 13.5 V respectively;		Х	
(d)	In the case of a system that uses an electronic light source control gear being part of the lamp ¹ applying at the input terminals of the lamp the voltage declared by the manufacturer or, if not indicated, 6.75V, 13.5V or 28.0V, respectively;			Х
(e)	In the case of a system that uses an electronic light source control gear not being part of the lamp, the voltage declared by the manufacturer or, if not indicated, 6.75V, 13.5V or 28.0V, respectively;			Х
	laboratory shall require from the manufacturer the light source gear needed to supply the light source and the applicable functions.	8.2.	Х	
	The voltage to be applied to the lamp shall be noted in the communication form in Annex 2 of this Regulation.		Х	
	ts of the apparent surface in the direction of the reference axis of a nalling device shall be determined.	8.4.	Х	

¹ For the purpose of this Regulation "being part of the lamp" means to be physically included in the lamp body to be regernal, separated or not, but supplied by the lamp manufacturer as part of the lamp system. The functioning and installation conditions the additional systems will be defined by special provisions.



COLOUR OF LIGHT EMITTED

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
 Stop lamps and rear position lamps shall emit red light, front position lamps may emit white or amber light, direction indicators shall emit amber light. For themeasurement of the colour of the light emitted inside the field of the light distribution grid defined at paragraph 2. of Annex 4, the test procedure described in paragraph 8. of this Regulation shall be applied. Outside this field no sharp variation of colour shall be observed. However, for lamps equipped with non-replaceable light sources (filament lamps and other), the colorimetric characteristics should be verified with the light sources present in the lamps, in accordance with relevant subparagraphs of paragraph 8.1. of this Regulation." 	9.	Х	

FACILITIES AND EQUIPMENT

The facilities and equipment used to carry out the inspections are in compliance with the requirements of the applied Regulatory Act(s).

PHOTOMETRIC MEASUREMENTS (ANNEX 4)

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Measurement methods	1.		
During photometric measurements, stray reflections shall be prevented by appropriate masking.	1.1.	Х	
Should the results of measurements be challenged, measurements shall be carried out in such a way as to meet the following requirements:	1.2.		
the distance of measurements shall be such that the law of the inverse of the square of the distance is applicable;	1.2.1.	Х	
the measuring equipment shall be such that the angular aperture of the receiver viewed from the reference centre of the lamp is between 10' and 1° ;	1.2.2.	Х	
the intensity requirement for a particular direction of observation shall be deemed to be satisfied if that requirement is met in a direction deviating by not more than 15' from the direction of observation.	1.2.3.	Х	
In the case where the device may be installed on the vehicle in more than one or in a field of different positions the photometric measurements shall be repeated for each position or for the extreme positions in the field of the reference axis specified by the manufacturer.	1.3.		Х





Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Standard luminous intensity distribution table	2.		
The direction $H = 0^{\circ}$ and $V = 0^{\circ}$ corresponds to the reference axis. (On the vehicle it is horizontal, parallel to the median longitudinal plane of the vehicle and oriented in the required direction of visibility). It passes through the centre of reference. The values shown in the table give, for the various directions of measurements, the minimum intensities as a percentage of the minimum required in the axis for each lamp (in the direction $H = 0^{\circ}$ and $V = 0^{\circ}$).	2.1.	Х	
Within the field of light distribution of paragraph 2, schematically shown as a grid, the light pattern should be substantially uniform so that the light intensity in each direction of a part of the fieled formed by the grid lines meets at least the lowest minimum percentage value being shown on the grid lines surrounding the questioned direction.	2.2.	X	
However, in the case where a device is intended to be installed at a mounting height of equal to or less than 750 mm above the ground, the photometric intensity is verified only up to an angle of 5 degrees downwards.	2.3.		
Test conditions	3.		
The photometric performance shall be checked :			
For non-replaceable light sources (filament lamps and other):	3.1.	Х	
With the light sources present in the lamp, in accordance with the relevant subparagraph of § 8.1. of this Regulation.			
For replaceable filament lamps :	3.2.		Х
when equipped with light sources at 6.75 V, 13.5 V, the luminous intensity values produced shall be corrected.			
For filament lamps the correction factor is the ratio between the reference luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V).			
For LED light sources the correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V).			
The actual luminous fluxes of each light source used shall not deviate more than $+5$ per cent from the mean value.			
Alternatively and in case of filament lamps only, a standard filament lamp may be used in turn, in each of the individual positions, operated at its reference flux, the individual measurements in each position being added together.			
For any signalling lamps, except those equipped with filament lamps, the luminous intensities measured after one minute and after 30 minutes of operation shall comply with the minimum and maximum requirements; direction indicators shall be operated in the flashing mode ($f = 1.5$ Hz, duty factor 50 per cent). The luminous intensity distribution after one minute of operation can be calculated from the luminous intensity distribution after 30 minutes of operation by applying at each test point the ratio of luminous intensities measured at HV after one minute and after 30 minutes of operation.	3.3.	Х	





PHOTOMETRIC MEASUREMENTS FOR THE REAR REGISTRATION PLATE ILLUMINATING DEVICE (ANNEX 5) N.A.

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Space to be illuminated	1.		
The devices can be of category 1 or 2. The devices of category 1 shall be designed to illuminate a space of at least 130 x 240mm, the devices of category 2 a space of at least 200 x 280 mm.			
Colour of the Light	2.		
The light of the illuminating device shall be sufficiently colourless in order not to modify noticeably the colour of the rear-registration-plate.			
Angle of incidence	3.		
The manufacturer of the illuminating device shall specify one or more or a field of positions in which the device is to be fitted in relation to the space for the registration plate; when the lamp is placed in the position(s) specified by the manufacturer the angle of incidence of the light on the surface of the plate does not exceed 82° at any point of the surface to be illuminated, this angle being measured from the mid-point of the edge of the illuminating surface of the device which is furthest from the surface of the plate. If there is more than one illuminating device, the foregoing requirement shall apply only to the part of the plate intended to be illuminated by the device concerned. The device shall be so designed that no light is emitted directly towards the rear, with the exception of red light if the device is combined or grouped with a rear lamp.			
Measuring Procedure	4.		
Luminance measurements shall be made on a diffuse colourless surface with known diffuse reflection factor1. The diffuse colourless surface shall have the dimensions of the registration plate or the dimension exceeding one measuring point. Its centre shall be placed in the centre of the positions of the measuring points. This diffuse colourless surface(s) shall be placed in the position normally occupied by the registration plate and 2 mm in front of its holder. Luminance measurements shall be made perpendicularly to the surface of the diffuse colourless surface with the tolerance of 5° in each direction at the points shown in paragraph 5. of this annex, each point representing a circular area of 25 mm in diameter. The measured luminance shall be corrected for the diffuse reflection factor 1.0. For an illuminating device not equipped with filament lamps, the luminance values measured after one minute and after 30 minutes of operation shall comply with the			
minimum requirements. The luminance distribution after one minute of operation can be calculated from the luminance distribution after 30 minutes of operation, by applying at each test point the ratio of luminance values measured at one point after one minute and after 30 minutes of operation.			
Photometric characteristics	5.		
At each of the points of measurement shown (fig.1/fig.2), the luminance B shall be not less than 2 cd/m ² . The gradient of the luminance between the values B1 and B2, measured at any two points 1 and 2 selected from among those mentioned above, shall not exceed 2 x B_0/cm , B_0 being the minimum luminance measured at the various points, that is to say $\frac{B_2 - B_1}{distance 1 - 2 in cm} \leq 2 x B_0 / cm$		REGIONAL PUL	ALC: STATION



TEST RESULTS

Light source : 1LED / 1 light source , Rated voltage and wattage : 12V, 1W

	Test Results of Photometric Measurement						
Lamp Function	on :	Front Position	Lamp		Test Volta	ge : 13	8.5 V
Lamp categor	ry :	-			Test Distar	nce : 3.	16 m
Requirement	:	ECE Reg. 50 I	Para. 7				
Point		Requirer	nent (cd)		ple A ement (cd)		ple B ement (cd)
Measuring	g Screen	Min	Max	1 Minute	30 Minutes	1 Minute	30 Minutes
10U -	5L	0.8	140	28.31	28.40	21.49	21.70
10U -	- 5R	0.8	140	25.62	25.70	19.46	19.65
5U -	- 20L	0.4	140	13.99	14.03	11.85	11.96
5U -	- 10L	0.8	140	27.43	27.51	23.78	24.01
5U -	- V	2.8	140	31.90	32.00	30.21	30.50
5U -	- 10R	0.8	140	24.43	24.50	27.34	27.60
5U -	- 20R	0.4	140	9.93	9.96	11.41	11.52
Н -	- 10L	1.4	140	28.22	28.30	29.91	30.20
Н -	- 5L	3.6	140	38.58	38.70	40.81	41.20
Н -	- V	4.0	140	33.60	33.70	41.80	42.20
Н -	- 5R	3.6	140	30.31	30.40	39.52	39.90
Н -	- 10R	1.4	140	25.72	25.80	34.67	35.00
5D -	- 20L	0.4	140	11.56	11.59	15.90	16.05
5D -	- 10L	0.8	140	20.11	20.17	29.62	29.90
5D -	- V	2.8	140	28.71	28.80	55.07	55.60
5D -	- 10R	0.8	140	20.03	20.09	41.50	41.90
5D -	- 20R	0.4	140	7.97	7.99	17.90	18.07
10D -	- 5L	0.8	140	25.62	25.70	33.28	33.60
10D -	- 5R	0.8	140	21.63	21.70	54.77	55.30
X7:-:1-:1-	7	0.05	-	0.439	0.440	0.773	0.780
Visibility 2	Zone Scan	-	140	39.082	39.200	62.402	63.000
Test Re	esults		Passed			☐ Failed	





	<u>Test Result</u>	s of Colour Measur	<u>ement</u>	
Lamp Function	Front Position Lamp			
Category	: _			
Requirement	ECE Reg. 50 Para. 9			
Light Emitted Color	: White			
Color Boundaries	- Limit towards blue	: $x \ge 0.310$		
	- Limit towards yellow	$x \leq 0.500$		
	- Limit towards green	: $y \le 0.150$ -	+ 0.640 x	
	- Limit towards green	$y \le 0.440$		
	- Limit towards purple	: $y \ge 0.050$ -	+ 0.750 x	
	- Limit towards red	: $y \ge 0.382$		
Test Points	Sample A Mea	asurement	Sample B N	leasurement
Test Follits	Colour x	Colour y	Colour x	Colour y
5U - V	0.3345	0.3106	0.3263	0.3389
H - 5L	0.3295	0.3404	0.3240	0.3463
H - V	0.3160	0.3257	0.3176	0.3318
H - 5R	0.3229	0.3250	0.3350	0.3140
5D - V	0.3319	0.3135	0.3493	0.3270
Test Results	Pass	sed		Failed

THIS REPORT MAY NOT BE REPRODUCED UNLESS WRITTEN AUTHORIZATION GIVE B PRODUCT MANAGER (OR AUTHORISED PERSON) AND THE APPLICANT.





COMBINATION HEADLAMP OF CATEGORY L

FUAN 0348

Application: original Date: November 22, 2016

Total number of pages: 5





Manufacturer name and address	s :		
Trade name or mark	: FUAN		
Type of device	: 0348	AUTOMOTIVE certification Business Class Kantorenpark Jan Olieslagerslaan 35 B-1800 Vilvoorde VINCOTTE Email: hemologation@vincotte.be 2017.02.23	

SPECIFICATIONS

Function-Application-class category lamp and colour

Trade na	me or mark	FUAN				
F		Headlamp		Front (1)	Daytime (1)	
Function		Passing Beam	Driving Beam	Position Lamp	Running Lamp	
ECE Reg	ulation	113-01 Supplement 05	113-01 Supplement 05	50-00 Supplement 18	87-00 Supplement 17	
Class		В	В	-	-	
Category		-	-	-	-	
	category and mp source(s)	1 LED module	1 LED module	1LED / 1 light source	1LED / 1 light source	
The total luminous	objective flux of all LED	12V / 371.6 lm	12V / 853.6 lm	-	-	
Voltage a	nd wattage	12V, 9W	12V, 19W	12V, 1W	12V, 8W	
	uter	Clear	Clear	Clear	Clear	
Lens Fil	lter (Inner)	-	-	Clear	Clear	
	light emitted	White	White	White	White	

⁽¹⁾ Front position lamp, which is reciprocally incorporated with daytime running lamp.

THECNICAL DATA

Part		Material	Remark
Long	Outer	PC	SABIC ⁽²⁾
Lens Filter (Inner)		PMMA	-
Reflect	tor	PC	-
Housin	ng	STELL ⁽³⁾	-

⁽²⁾ The basis-material of lens: Type is PC, LEXAN LS2from SABIC. The coating: Type is JETCOAT, WIWH UV COATING from SHIE CHENG CHAI.
 ⁽³⁾ There are two kinds of housing, one is electroplate silver and the other is black.

MARKING

Marking		Location
Trade name or mark	FUAN	See drawing
Approval marks	0261	See drawing (445)

⁽⁴⁾ E6 approval marks for the specific identification code of LED module and marking required sheet be show i attached drawing. ⁽⁵⁾ One LED module for passing beam and driving beam.



GS
Version
2017.01.17
2017.01.17

(Null below)





VINCOTTE



