



BRUXELLES MOBILITÉ
BRUSSEL MOBILITEIT

SERVICE PUBLIC RÉGIONAL DE BRUXELLES
GEWESTELIJKE OVERHEIDSDIENST BRUSSEL

Directie Verkeersveiligheid, Vooruitgangstraat 80 bus 1, 1035 Brussel
Direction Sécurité Routière, Rue du Progrès 80 boîte 1, 1035 Bruxelles
homologation@sprb.irisnet.be

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- ments applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
6-01	00	-	-	20.04.2016	LUCIDITY 26023N / 00	9

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

Laurence LEROY

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-6R-010745	BEVASYS :	201600155
Mise à jour n° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	20.04.2016

www.bruxellesmobilitate.irisnet.be

www.mobielbrussel.irisnet.be





BRUXELLES MOBILITÉ
BRUSSEL MOBILITEIT

SERVICE PUBLIC RÉGIONAL DE BRUXELLES
GEWESTELIJKE OVERHEIDSDIENST BRUSSEL

Directie Verkeersveiligheid, Vooruitgangstraat 80 bus 1, 1035 Brussel
Direction Sécurité Routière, Rue du Progrès 80 boîte 1, 1035 Bruxelles
homologation@sprb.irisnet.be

COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE D'INDICATEUR
COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF DIRECTION INDICATOR
DE DIRECTION EN APPLICATION DU REGLEMENT N° 6-01
PURSUANT TO REGULATION NO. 6-01

N° d'homologation : E6-6R-010745
Approval No.

Marque d'homologation :
Approval mark

R1-S1 2a IIIA AR F1
02 01 02 00 00



1. Marque de fabrique ou de commerce du dispositif : LUCIDITY
1. Trade name or mark of the device

2. Désignation du type de dispositif par le fabricant : 26023N
2. Manufacturer's name for the type of device

3. Nom et adresse du fabricant :
3. Manufacturer's name and address

Lucidity Enterprise Co., Ltd.
No. 18, Gongye 1st Road, Annan District, 70955
Tainan City, Taiwan R. O. C.

4. Nom et adresse du mandataire du fabricant (le cas échéant) : -
4. If applicable, name and address of manufacturer's representative

5. Dispositif soumis à l'homologation le : 28.03.2016 ~ 31.03.2016
5. Submitted for approval on

6. Service technique chargé des essais :
6. Technical service responsible for conducting approval tests

AIB VINCOTTE INTERNATIONAL
Jan Olieslagerslaan 35
1800 VILVOORDE
BELGIUM

7. Date du procès-verbal d'essai : 20.04.2016
7. Date of test report issued by that service

8. Numéro du procès-verbal d'essai : H1560495391/592
8. Number of test report issued by that service



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

Catégorie : ~~1, 1a, 1b, 2a, 2b, 5, 6~~ ^{2 3} :
Category : ~~1, 1a, 1b, 2a, 2b, 5, 6~~ ^{2 3}

Nombre et catégorie : 9 LEDs / 9 light sources
Number, category

Tension et puissance : 12V, 2.6W / 24V, 2.6W
Voltage and wattage

Code d'identification spécifique du module de la source lumineuse : -
Light source module specific identification code

Uniquement pour installation sur des véhicules de la catégorie M1 et/ou N1 : ~~oui~~ / non ²
Only for installation on M1 and/or N1 category vehicles : ~~yes~~ / no ²

Hauteur de montage limitée à 750 mm au-dessus du sol : ~~oui~~ / non ²
Only for limited mounting height of equal to or less than 750 mm above the ground : ~~yes~~ / no ²

Caractéristiques géométriques de montage et variantes éventuelles : voir fiche de renseignements
Geometric conditions of installation and relating variations, if any

Le dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -
Application of an electric light source control gear / variable intensity control :

- (a) fait partie du feu : ~~oui~~ / non ²
(a) being part of the lamp : ~~yes~~ / no ²
(b) ne fait pas partie du feu : ~~oui~~ / non ²
(b) being not part of the lamp : ~~yes~~ / no ²

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)

Intensité lumineuse variable : ~~oui~~ / non ²
Variable luminous intensity : ~~yes~~ / 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 l'extension d'homologation (le cas échéant) : -
11. Reason(s) for extension (if applicable)
12. Homologation accordée / ~~étendue~~ ²
12. Approval granted / ~~extended~~ ²

¹ Pour les feux équipés de sources lumineuses non remplaçables, indiquer le nombre et la consommation totale en watt des sources lumineuses
For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources

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

³ Pour les feux indicateurs de direction des catégories 1, 1a, 1b, 2a et 2b, des renseignements concernant le signal visé au paragraphe 6.4.2 - For direction indicator lamps of categories 1, 1a, 1b, 2a and 2b, information regarding the signal according to paragraph 6.4.2.

13. Lieu : Bruxelles
13. Place
14. Date : 20.04.2016
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

16. La liste des pièces déposées au Service administratif ayant délivré l'homologation et pouvant être obtenu sur demande est annexée à la présente communication.
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.*



**AIB-VINÇOTTE International n.v.**

Head office: Diamant Building – A. Reyerslaan 80 – B-1030 Brussels

Company number : BE 0462.513.222 – HRB : 621315 – Internet : www.vincotte.com☒ Safety, quality and environmental services

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

AUTOMOTIVE CERTIFICATION

Business Class Kantorenpark – Jan Olieslagerslaan 35 – B-1800 Vilvoorde

Telephone : +32 (0)2/674.58.85 – Fax : +32 (0)2/674.59.62

E-mail: homologation@vincotte.be**1. SUBJECT : DIRECTION INDICATORS**

R6-01

2. REF. :	Report number : H1560495391/592	No. of pages : 1 of 12	No. of annexes : -
	Bevasys : 201600155	Approval No. : (0745 00)	Update : 00

3. GENERALITIES :

Make of Device : LUCIDITY

Commercial Type : -

Manufacturer's Type : 26023N

Name and address of the manufacturer :

Lucidity Enterprise Co., Ltd.

No. 18, Gongye 1st Road, Annan District, 70955

Tainan City, Taiwan R. O. C.

4. TESTS :	Date and place	: 2016.03.28 to 2016.03.31 Lucidity Enterprise Co., Ltd – Photometric Laboratory
	Applied document(s)	: LUCIDITY 26023N / 00
	AVI Inspector	: LU Wan-Ching
	Persons witnessing the tests	: LU Wan-Ching
	Location of E-mark	: On the lamp

5. CONCLUSIONS :

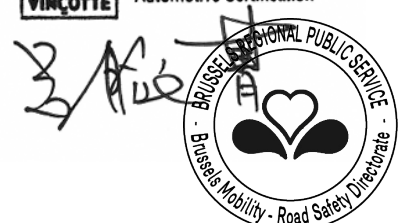
The tests were carried out according to the following specifications :

- UNECE Regulation No. 6 incorporating supplement 24 to the 01 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2016.04.20

Signature :

AIB-Vincotte International nv/ta
LU Wan-Ching
Automotive Certification

DESCRIPTION OF THE TESTED DIRECTION INDICATOR

Direction indicator lamp type : Rear direction indicator
 Direction indicator lamp category : 2a
 Category and kind of light source(s) : LED
 Number of light source : 9LEDs / 9 light sources
 Voltage and wattage : 12V, 2.6W / 24V, 2.6W

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Each device supplied shall conform to the specifications set forth in § 6 and § 8 below.	5.1.	X	
The devices must be so designed and constructed that under normal conditions of use and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they retain the characteristics prescribed by this Regulation.	5.2.	X	
In the case of light source modules, it shall be checked that :	5.3.		X
The design of the light source module(s) shall be such as	5.3.1.		
(a) that each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s)			
(b) if there are more than one light source module used in the housing for a device, light source modules having different characteristics can not be interchanged within the same lamp housing			
The light source module(s) shall be tamperproof.	5.3.2.		
A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source	5.3.3		
In case of failure of the variable intensity control of a direction indicator of category 2b emitting more than the maximum value of category 2a, requirements of steady luminous intensity of category 2a shall be fulfilled automatically.	5.4		X
In the case of replaceable filament lamp(s) :	5.5.		X
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 or in Regulation No. 128 and its series of amendments in force at the time of application for type approval.	5.5.1.		
The design of the device shall be such that light source cannot be fixed in any other position but the correct one.	5.5.2.		
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.	5.5.3.		

INTENSITY OF LIGHT EMITTED

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The light emitted by each of the two devices supplied must be in the case of direction indicators of Categories 1, 1a, 1b, 2a, 2b in the reference axes, in the case of direction indicators of Categories 5 or 6 in Direction A according to Annex 1 of not less than the minimum intensity and of not more than the maximum intensity specified in the table of § 6.1.	6.1.	X	
For an assembly of two or more direction indicator lamps the total intensity shall not exceed the maximum.	6.1.1.		X
When an assembly of two or more lamps having the same function is deemed to be a single lamp, it shall comply with the requirements for : (a) maximum intensity when all the lamps together are lit (last column of the table); (b) minimum intensity if one lamp has failed.	6.1.2.		X
In case of failure of a single lamp of the Categories 1, 1a, 1b, 2a and 2b, containing more than one light source the following provisions shall apply :	6.2.	X	
A group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.	6.2.1.	X	
A signal for activation of the tell-tale prescribed in § 6.5.8. of Regulation No. 48 shall be produced if: (a) any one light source has failed, or (b) in the case of a lamp designed for only two filament light sources, the intensity in the axis of reference is less than 50 per cent of the minimum intensity, or (c) as a consequence of a failure of one or more light sources, the intensity in one of the following directions as indicated in Annex 4 to this Regulation is less than the minimum intensity required : (i) $H=0^\circ$, $V=0^\circ$ (ii) $H=20^\circ$ to the outside of the vehicle, $V=+5^\circ$ (iii) $H=10^\circ$ to the inside of the vehicle, $V=0^\circ$.	6.2.2.		X
Outside the reference axis, within the angular fields specified in the arrangement diagrams in Annex 1 to this Regulation, the intensity of the light emitted by each of the two devices supplied must :	6.3.		
In each direction corresponding to the points in the relevant table of luminous-intensity distribution reproduced in Annex 4 to this Regulation, be not less than the minimum specified in § 6.1. above multiplied by the percentage specified in the said table for the direction in question;	6.3.1.	X	
In divergence from § 6.3. and 6.3.1., for categorie 5 direction indicators, to the rear, a minimum value of 0.6 cd is required throughout the fields specified in Annex 1;	6.3.1.1.		X
In no direction within the area from which the indicator lamp is visible, exceed the maximum specified in § 6.1. above;	6.3.2.	X	

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>Moreover,</p> <p>Throughout the fields defined in the diagrams in Annex 1, the intensity of the light emitted must be not less than 0.7 cd for devices of Category 1b, not less than 0.3 cd for devices of Categories 1, 1a, 2a, and category 2b by day; it shall not be less than 0.07 cd for devices of Category 2b by night;</p> <p>The provisions of § 2.2. of Annex 4 to this Regulation on local variations of intensity must be observed.</p> <p>In general the intensities shall be measured with the light source(s) continuously alight.</p> <p>However, 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.</p> <p>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.</p> <p>In the case of replaceable filament lamps, the filament lamps shall be operated at reference luminous flux during on time.</p> <p>In the case of LED light sources all measurements shall be made at 6.75 V, 13.5 V or 28.0 V; the luminous flux value produced during on time shall be corrected. The correction factor is the ratio between the objective luminous flux and the value of the luminous flux during on time found at the voltage applied.</p> <p>In all other cases the voltage as required in paragraph 7.1.1. shall be switched with a rise time and fall time shorter than 0.01 s; no overshoot is allowed.</p> <p>In the case of measurements taken in flashing mode the reported luminous intensity shall be represented by the maximum intensity.</p> <p>In the case of devices of category 2b the time that elapses between energising the light source(s) and the light output measured on the reference axis to reach 90 % of the value measured in accordance with § 6.3. above shall be measured for the extreme levels of luminous intensity produced by the direction indicator. The time measured to obtain the lowest luminous intensity shall not exceed the time measured to obtain the highest luminous intensity.</p>	<p>6.3.3.</p> <p>6.3.3.1.</p> <p>6.3.3.2.</p> <p>6.4.</p> <p>6.5.</p>	<p>X</p> <p>X</p> <p>X</p>	<p>X</p>

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
The variable intensity control shall not generate signals which cause luminous intensities: outside the range specified in § 6.1. above and exceeding the category 2a maximum specified in § 6.1. : (a) for systems depending only on daytime and night time conditions: under night time conditions. (b) for other systems: under reference conditions as demonstrated by the manufacturer ¹ Annex 4, referred to in § 6.2.1. above, gives particulars of the measurement methods to be used.	6.6. 6.6.1 6.6.2 6.7.	 X	X

¹ Good visibility (meteorological optical range MOR > 2,000 m defined according to WMO, Guide to Meteorological Instruments and Methods of Observation, Sixth Edition, ISBN: 92-63-16008-2, pp 1.9.1/1.9.11, Geneva 1996) and clean lens.

TEST PROCEDURE

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
All measurements, photometric and colorimetric, shall be made:	7.1.		
In the case of a lamp with replaceable light source, if not supplied by an electronic light source control gear or a variable intensity control, with an uncoloured or coloured standard light source of the category prescribed for the device, supplied with the voltage:	7.1.1.		X
(a) In the case of filament lamp(s), it is necessary to produce the reference luminous flux required for that category of filament lamp;			
(b) In the case of LED light source(s) of 6.75 V, 13.5 V or 28.0 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.			
In the case of a lamp equipped with non-replaceable light sources (filament lamps and other), at 6.75 V, 13.5 V or 28.0 V respectively.	7.1.2.	X	
In the case of a system that uses an electronic light source control gear or a variable intensity control, being part of the lamp ¹ applying at the input terminals of the lamp the voltage declared by the manufacturer or, if not indicated, 6.75 V, 13.5 V or 28.0 V respectively.	7.1.3.		X
In the case of a system that uses an electronic light source control gear or a variable intensity control, not being part of the lamp with the voltage declared by the manufacturer applied to the input terminals of the lamp.	7.1.4.		X
However in the case of a direction indicator of category 2b operated by a variable intensity control to obtain variable luminous intensity, photometric measurements shall be performed according to the applicant's description.	7.2.		X
The test laboratory shall require from the manufacturer the light source control gear or a variable intensity control needed to supply the light source and the applicable functions.	7.3.		X
The voltage to be applied to the lamp shall be noted in the communication form in Annex 2 of this Regulation.	7.4.	X	
The limits of the apparent surface in the direction of the reference axis of a direction indicator shall be determined. However, in the case of category 5 and 6 direction indicators, the limits of the light emitting surface shall be determined.	7.5.	X	

¹ For the purpose of this Regulation "being part of the lamp" means to be physically included in the lamp body or to be external, separated or not, but supplied by the lamp manufacturer as part of the lamp system.

COLOUR OF LIGHT EMITTED

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The colour of the light emitted inside the field of the light distribution grid defined in § 2. of Annex 4 shall be amber. Outside this field, no sharp variation of colour shall be observed. To check these colorimetric characteristics, the test procedure described in § 7. of this Regulation shall be applied. These requirements shall also apply within the range of variable luminous intensity produced by direction indicators of category 2b. 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 lamp, in accordance with relevant subparagraphs of § 7.1. of this Regulation.	8.	X	

CATEGORIES OF DIRECTION INDICATORS : MINIMUM ANGLES REQUIRED FOR LIGHT DISTRIBUTION IN SPACE OF THESE CATEGORIES OF DIRECTION INDICATORS ¹ (ANNEX 1)

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
In all cases, the minimum vertical angles of light distribution in space of direction indicators are 15° above and 15° below the horizontal except :		X	
(a) direction indicator lamps intended to be installed with the H plane of the lamp at a mounting height of less than 750 mm above the ground, for which they are 15° above and 5° below the horizontal;			X
(b) optional direction indicator lamps intended to be installed with the H plane of the lamp at a mounting height of more than 2100 mm above the ground, for which they are 5° above and 15° below the horizontal;			X
(c) direction indicator lamps of category 6 (see annex 1)			X
Minimum horizontal visibility angles :			
Direction indicators for the front of the vehicle :			X
Category 1 : for use at a distance not less than 40 mm from the dipped-beam headlamp and/or the front fog lamp;			
Category 1a : for use at a distance greater than 20 mm but less than 40 mm from the dipped-beam headlamp and/or the front fog lamp;			
Category 1b : for use at a distance less than 20 mm from the dipped-beam headlamp and/or the front fog lamp;			
<ul style="list-style-type: none"> On and above the H-plane² for all lamps. Under the H-plane for lamps intended for M2, M3, N2 or N3 category of vehicles : 45° inside / 80° outside Under the H-plane for M1 and N1 category of vehicles : 20° inside/ 80° outside 			
Categories 2a and 2b : direction indicators for the rear of the vehicle :		X	
Category 2a : Rear direction indicator lamps with steady luminous intensity		X	
Category 2b : Rear direction indicator lamps with variable luminous intensity			X
Category 5 and 6 : supplementary side direction indicators for use on a vehicle also equipped with Categories 1, 1a or 1b and 2a or 2b direction indicators			X

¹ The angles shown in these arrangements are correct for devices to be mounted on the right side of the vehicle. The arrows in these diagrams point towards the front of the vehicle.

² H-plane : “Horizontal plane going through the reference centre of the lamp.

PHOTOMETRIC MEASUREMENTS (ANNEX 4)

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Measurement methods	1.		
During photometric measurements, stray reflections shall be avoided by appropriate masking.	1.1.	X	
In case the results of measurements should 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.	X	
The measuring equipment shall be such that the angular aperture of the receiver viewed from the reference centre of the light is comprised between 10' and 1 degree;	1.2.2.	X	
The intensity requirements 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 one-quarter of a degree from the direction of observation.	1.2.3.	X	
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 of the field of the reference axis specified by the manufacturer.	1.3.		X
Table of standard light distribution in space for direction indicators of the categories 1, 1a, 1b, 2a, 2b : see table in § 2.	2.	X	
For direction indicators of Category 6 : see table in § 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 tables give, for the various directions of measurement, the minimum intensities as a percentage of the minimum intensities required in the table in § 6.1. :	2.1.	X	
in the direction $H = 0^\circ$ and $V = 0^\circ$ for Categories 1, 1a, 1b, 2a, 2b and in the case of category 5 in the angular area in the direction A as prescribed in Annex 1;	2.1.1.	X	
in the direction $H = 5^\circ$ and $V = 0^\circ$ for Category 6.	2.1.2.		X
However, in the case where a device is intended to be installed with its H plane at a mounting height less than 750 mm above the ground, the photometric intensity is verified only up to an angle of 5° downwards.	2.1.3.		X
Within the field of light distribution of § 2., schematically shown as a grid, the light pattern should be substantially uniform, i.e. in so far as the light intensity in each direction of a part of the field formed by the grid lines shall meet at least the lowest minimum value being shown on the grid lines surrounding the questioned direction as a percentage.	2.2.	X	

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Photometric measurements of lamps The photometric performance shall be checked : For non-replaceable light sources (filament lamps and other) : with the light sources present in the lamp, in accordance with § 7.1.1. of this Regulation For replaceable light source(s): when equipped with light source(s) at 6.75 V, 13.5 V or 28.0 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 or 28.0 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 or 28.0 V). The actual luminous fluxes of light source used shall not deviate more than $\pm 5\%$ 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 direction indicator lamp except those equipped with filament lamp(s), the luminous intensities measured after one minute and after 30 minutes of operation in flashing mode ($f = 1.5$ Hz, duty factor 50 %), shall comply with the minimum and maximum requirements. The luminous intensity distribution after one minute of operation can be calculated by applying at each test point the ratio of luminous intensity measured in HV after one minute and after 30 minutes of operation as above described.	3. 3.1. 3.2. 3.3.	 X X	 X

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).

Tested by Lucidity Enterprise Co., Ltd – Photometric Laboratory

TEST RESULTS :

Light sources : 9LEDs / 9 light sources ; Rated voltage and wattage : 12V, 2.6W / 24V, 2.6W

<u>Test Results of Photometric Measurement</u>							
Lamp Function : Rear direction indicator			Test Voltage : 13.5 / 28 V				
Category : 2a			Test Distance : 3.16 m				
Requirement : ECE Reg. 6 Para. 6							
Point on Measuring Screen		Requirement (cd)		Sample LH (24V) Measurement (cd)		Sample RH (12V) Measurement (cd)	
		Min	Max	1 Minute	30 Minutes	1 Minute	30 Minutes
10U - 5L		10	500	35.49	33.71	52.26	50.04
10U - 5R		10	500	33.26	31.59	53.55	51.28
5U - 20L		5	500	19.07	18.11	37.38	35.79
5U - 10L		10	500	87.01	82.64	100.79	96.51
5U - V		35	500	94.05	89.32	83.58	80.03
5U - 10R		10	500	78.08	74.16	102.87	98.51
5U - 20R		5	500	20.47	19.44	49.53	47.43
H - 10L		17.5	500	98.66	93.70	81.91	78.44
H - 5L		45	500	83.65	79.45	73.06	69.96
H - V		50	500	81.60	77.50	71.00	67.99
H - 5R		45	500	86.59	82.24	76.32	73.08
H - 10R		17.5	500	105.58	100.28	91.64	87.75
5D - 20L		5	500	87.75	83.34	47.38	45.37
5D - 10L		10	500	101.38	96.29	91.34	87.47
5D - V		35	500	81.45	77.36	78.92	75.57
5D - 10R		10	500	108.10	102.67	92.27	88.36
5D - 20R		5	500	74.28	70.55	31.19	29.87
10D - 5L		10	500	88.37	83.93	56.23	53.84
10D - 5R		10	500	81.78	77.67	53.67	51.39
Visibility	Zone Scan	0.3	-	2.81	2.67	3.09	2.96
		-	500	169.45	160.94	151.71	145.27
Test Results		<div><input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed</div>					

Light sources : 8LEDs / 8 light sources (one light source (1LED) has failed)

<u>Test Results of Photometric Measurement (Any one light sources has failed)</u>					
Lamp Function : Rear direction indicator			Test Voltage : 13.5 / 28 V		
Category : 2a			Test Distance : 3.16 m		
Requirement : ECE Reg. 6 Para. 6					
Point on Measuring Screen		Requirement (cd)		Measurement (cd)	
		Min	Max	Sample RH (12V)	Sample RH (24V)
10U - 5L		10	500	52.54	53.09
10U - 5R		10	500	48.47	48.95
5U - 20L		5	500	41.97	42.48
5U - 10L		10	500	88.12	88.82
5U - V		35	500	77.85	78.45
5U - 10R		10	500	88.62	89.52
5U - 20R		5	500	28.83	29.18
H - 10L		17.5	500	75.66	76.26
H - 5L		45	500	70.82	71.37
H - V		50	500	67.25	67.75
H - 5R		45	500	69.29	69.81
H - 10R		17.5	500	90.31	90.91
5D - 20L		5	500	40.77	40.83
5D - 10L		10	500	81.49	82.04
5D - V		35	500	71.21	71.76
5D - 10R		10	500	91.11	91.81
5D - 20R		5	500	41.62	41.74
10D - 5L		10	500	59.51	59.79
10D - 5R		10	500	53.87	54.12
Visibility	Zone Scan	0.3	-	2.71	2.74
		-	500	137.70	139.09
Test Results		<div><div></div> Passed</div> <div><div></div> Failed</div>			

Test Results of Colour Measurement

Lamp Function : Rear direction indicator

Category : 2a

Requirement : ECE Reg. 6 Para. 8

Light Emitted Color : Amber

Color Boundaries

- Limit towards green : $y \leq x - 0.120$
- Limit towards red : $y \geq 0.390$
- Limit towards white : $y \geq 0.790 - 0.670 x$

Test Points	Sample LH (24V) Measurement		Sample RH (12V) Measurement	
	Colour x	Colour y	Colour x	Colour y
5U - V	0.5849	0.4062	0.5864	0.4097
H - 5L	0.5922	0.4044	0.5868	0.4092
H - V	0.5913	0.4046	0.5872	0.4087
H - 5R	0.5918	0.4048	0.5871	0.4091
5D - V	0.5911	0.4053	0.5860	0.4099
Test Results	<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed			

(Null below)

Lucidity Enterprise Co., Ltd.
No. 18, Gongye 1st Road, Annan District,
70955 Tainan City, Taiwan R. O. C.

COMBINATION TAILLAMP

LUCIDITY 26023N

Application: original

Date: January 04, 2016

Total number of pages: 9



AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be
2016.04.20



Manufacturer name and address: Lucidity Enterprise Co., Ltd.
No. 18, Gongye 1st Road, Annan District,
70955 Tainan City, Taiwan R. O. C.

Trade name or mark : LUCIDITY

Type of device : 26023N



AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be
 2016.04.20

SPECIFICATIONS

Function-Application-class category lamp and colour

Trade name or mark		LUCIDITY					
Function		<i>Reflex reflector</i>	<i>Rear direction indicator</i>	<i>Rear ⁽¹⁾ position lamp</i>	<i>Stop lamp ⁽¹⁾</i>	<i>Reversing ⁽²⁾ lamp</i>	<i>Rear ⁽³⁾ fog lamp</i>
ECE Regulation		3-02 Supplement 14	6-01 Supplement 24	7-02 Supplement 22	7-02 Supplement 22	23-00 Supplement 19	38-00 Supplement 16
Class		-	-	-	-	-	-
Category		IIIA	2a	R1	S1	-	F1
Number, category and kind of lamp source(s)		-	9LEDs / 9 light sources	9LEDs / 9 light sources	9LEDs / 9 light sources	16LEDs / 16 light sources	16LEDs / 16 light sources
Voltage and wattage		-	12V, 2.6W 24V, 2.6W	12V, 0.3W 24V, 0.5W	12V, 1.3W 24V, 1.2W	12V, 2.7W 24V, 2.8W	12V, 2.2W 24V, 2.3W
Lens	Outer	Red	Clear	Red	Red	Clear	Red
	Filter (Inner)	-	-	-	-	Clear	-
Colour of light emitted		Red	Amber	Red	Red	White	Red

⁽¹⁾ Rear position lamp reciprocally incorporated with stop lamp.

⁽²⁾ Reversing lamp shall be installed in a pair of devices.

⁽³⁾ Rear fog lamp shall be installed in a pair of devices.

TECHNICAL DATA

Part		Material	Remark
Lens	Outer	PC	-
	Filter (Inner)	PC	-
Reflector		-	-
Housing		PC	-

MARKING

Marking		Location
Trade name or mark	LUCIDITY	See drawing
Approval marks	0745	See drawing



DRAWINGS	
Reference	Version
26023(LH)-5500-1	2016.03.29
26023-LAYOUT-5500-2	2016.03.29
26023(LH)-5500-3	2016.03.25
26023(RH)-5500-4	2016.03.25
26023-LAYOUT-5500-5	2016.03.29
26023(RH)-5500-6	2016.03.29

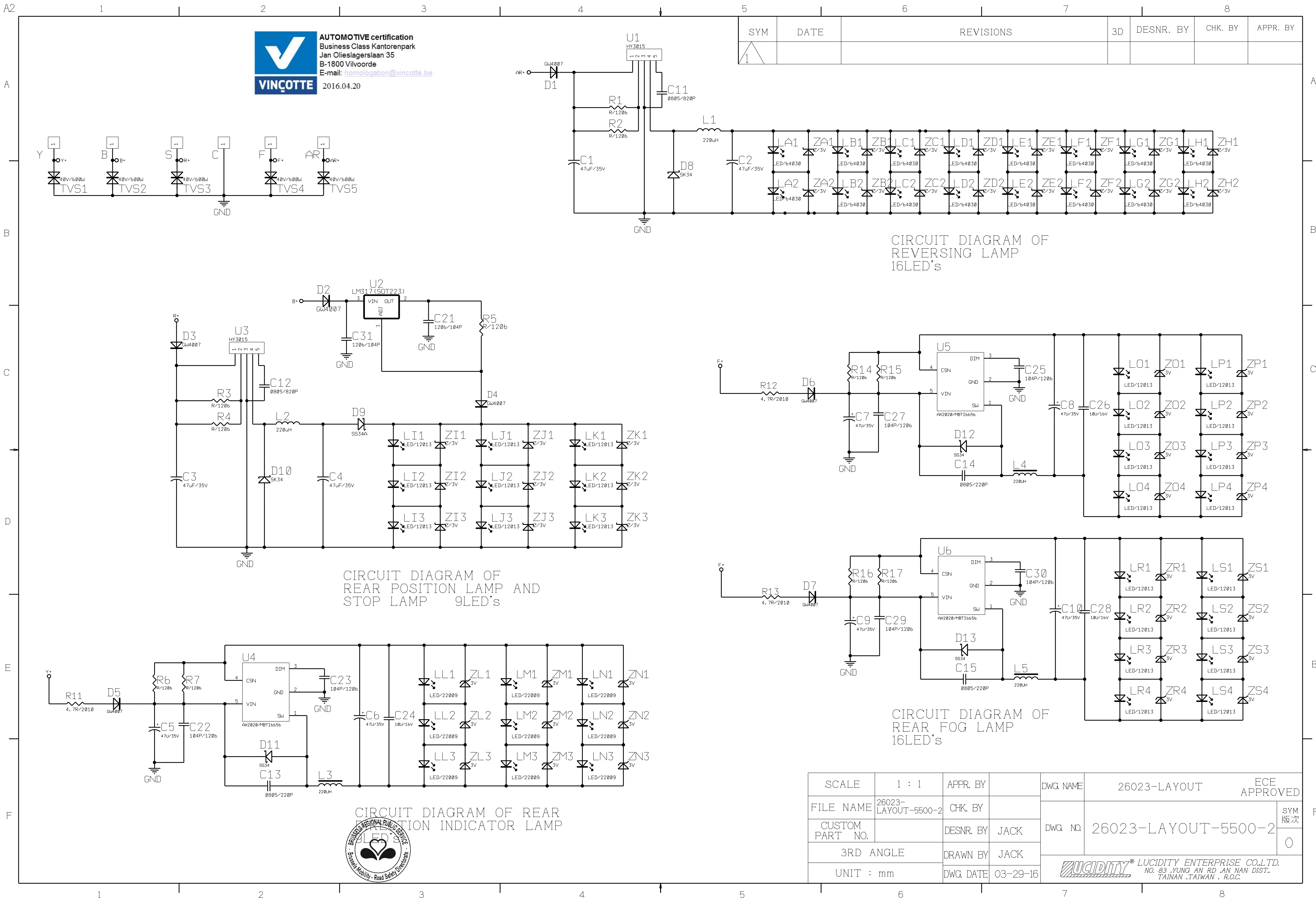
(Null below)

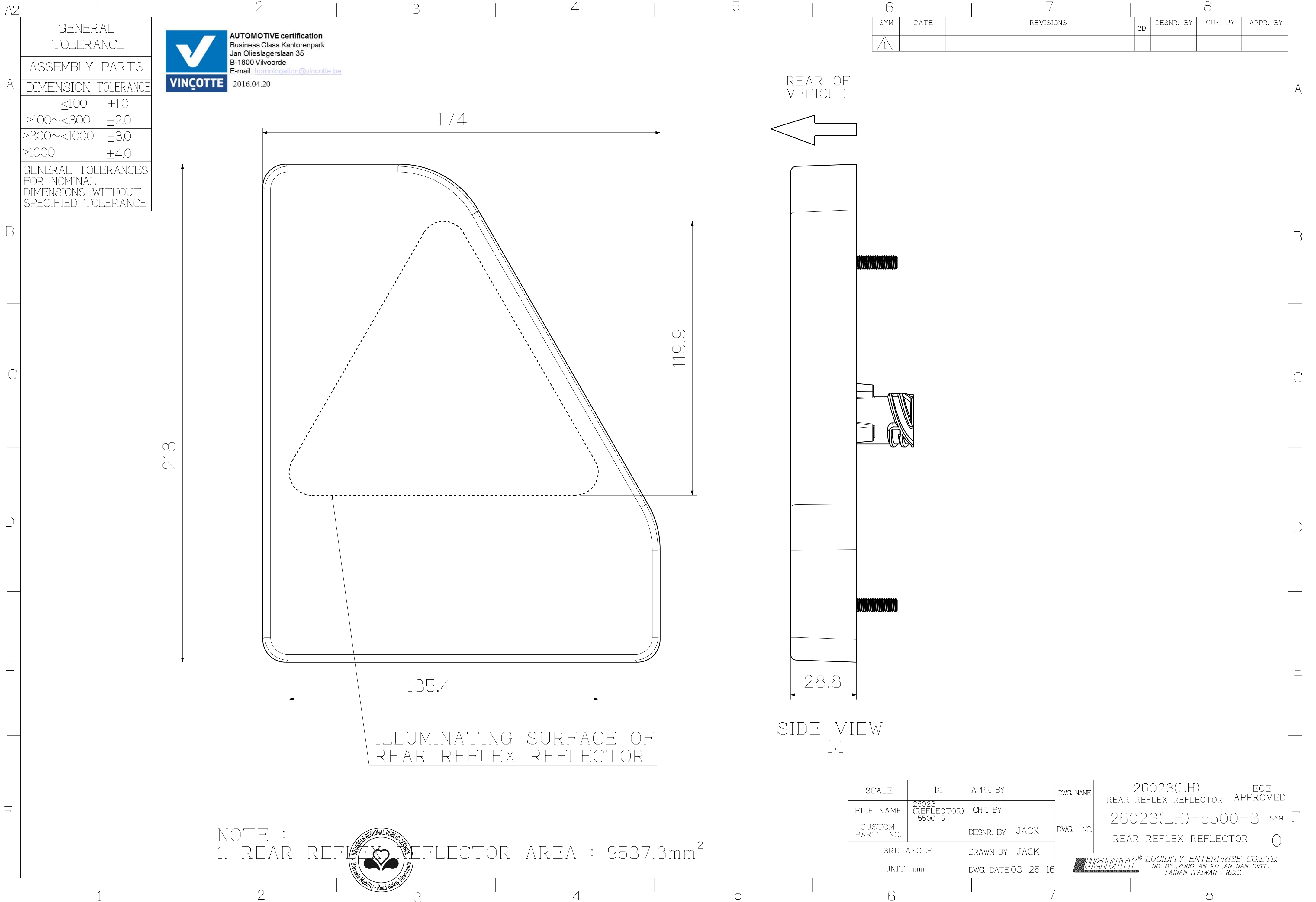


AUTOMOTIVE certification
Business Class Kantorenpark
Jan Olieslagerslaan 35
B-1800 Vilvoorde
E-mail: homologation@vincotte.be

2016.04.20









B



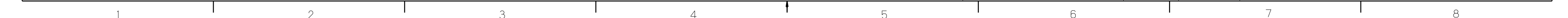
D



1



F



LUCIDITY[®] LUCIDITY ENTERPRISE CO.,LTD.
NO. 83 ,YUNG AN RD ,AN NAN DIST.,
TAINAN ,TAIWAN , R.O.C.

