



BRUXELLES MOBILITÉ
BRUSSEL MOBILITEIT

SERVICE PUBLIC RÉGIONAL DE BRUXELLES
GEWESTELIJKE OVERHEIDSDIENST BRUSSEL

Directie Verkeersveiligheid, Vooruitgangstraat 80 bus 1, 1035 Brussel
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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>
38-00	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>	E6-38R-000745	BEVASYS :	201600158
Mise à jour n° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	20.04.2016

www.bruxellesmobilitate.irisnet.be

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COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE FEU-BROUILLARD
COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF REAR FOG LAMP
ARRIERE POUR LES VÉHICULES À MOTEUR ET LEURS REMORQUES
FOR POWER-DRIVEN VEHICLES AND THEIR TRAILERS
EN APPLICATION DU REGLEMENT N° 38-00
PURSUANT TO REGULATION NO. 38-00

N° d'homologation : E6-38R-000745
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 délivré par ce service: 20.04.2016
7. *Date of test report issued by that service*

8. Numéro du procès-verbal d'essai délivré par ce service : H1560495391/595
8. *Number of test report issued by that service*



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

Nombre et catégorie(s) de lampe(s) à incandescence : 16LEDs / 16 light sources
Number and category(ies) of filament lamp(s)

Tension et puissance : 12V, 2.2W / 24V, 2.3W
Voltage and wattage

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

Caractéristiques géométriques de montage et variantes éventuelles : voir fiche de renseignements
Geometrical 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~~ ¹
12. Approval granted / ~~extended~~ ¹

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. Est annexée la liste des pièces constituant le dossier d'homologation déposé au Service administratif ayant délivré homologation et pouvant être obtenu 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.*



**AIB-VINCOTTE 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 : REAR FOG LAMPS**

R38-00

2. REF. : Report number : **H1560495391/595**

No. of pages : 1 of 9

No. of annexes : -

Bevasys : 201600158

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. 38 incorporating supplement 16 to the original version.

The models presented comply with the requirements to be applied.

Date : 2016.04.20

Signature :

AIB-Vincotte International
LU Wan-Ching
Automotive Certification

2BH/LWC-DM-DRO

28A-AC

DESCRIPTION OF THE TESTED REAR FOG LAMP

Rear fog lamp type	:	Rear fog lamp <i>Rear fog lamp shall be installed in a pair of devices.</i>
Rear fog lamp category	:	F1
Category and kind of light source(s)	:	LED
Number of light source(s)	:	16LEDs / 16 light sources
Voltage and wattage	:	12V, 2.2W / 24V, 2.3W

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Each lamp shall be conform to the specifications of the paragraphs below.	5.1.	X	
Rear fog lamps shall be so designed and constructed that in normal use, despite the vibration to which they may then be subjected, they continue to function satisfactorily and retain the characteristics prescribed by this Regulation.	5.2.	X	
In the case of light source module(s), 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 the case of failure of the variable intensity control regulating the variable luminous intensity of a rear fog lamp of category F2 emitting more than the maximum value of category F or F1, requirements of steady luminous intensity of category F or F1 shall be fulfilled automatically.	5.4.		X
In the case of replaceable light sources:	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 the light source can be fixed in no 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 intensity of the light emitted by each of the two samples shall not be less than the minima and not greater than the maxima specified below and shall be measured in relation to the axis of reference in the directions shown below (expressed in degrees of angle with the axis of reference).	6.1.	X	
The intensity along the H and V axes, between 10° to the left and 10° to the right and between 5° up and 5° down, shall not be less than 150 cd.	6.2.	X	
The intensity of the light emitted in all directions in which the lamp(s) can be observed shall not exceed 300 cd for a device with steady luminous intensity (F or F1) and 840 cd for a device with variable luminous intensity (F2).	6.3.	X	
In the case of a single lamp containing more than one light source, the lamp shall comply with the minimum intensity required when any one light source has failed and when all light sources are illuminated the maximum intensities shall not be exceeded.	6.4.	X	
The variable intensity control shall not generate signals which cause luminous intensities:	6.5.		X
outside the range specified in paragraphs 6.2. and 6.3. above and	6.5.1.		
exceeding the category F or F1 maximum specified in § 6.3:	6.5.2.		
(a) for systems depending only on daytime and night time conditions: under night time conditions ;			
(b) for other systems : under standard conditions ¹			
The apparent surface in the direction of the reference axis shall not exceed 140 cm².	6.6.	X	
Annex 3 gives particulars of the measurement method to be used in case of doubt.	6.7.	X	

¹ Good visibility (meteorological optical range MOR > 2000 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
<p>All measurements, photometric and colorimetric, shall be made:</p> <p>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 uncolored or colored standard light source of the category prescribed for the device, supplied with the voltage:</p> <p>(a) In the case of filament lamp(s), that is necessary to produce the reference luminous flux required for that category of filament lamp,</p> <p>(b) In the case of LED light sources 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.</p> <p>In the case of a lamp equipped with non-replaceable light sources (filament lamps and other) shall be made at 6.75 V, 13.5 V or 28.0 V respectively.</p> <p>In the case of a system that use 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, 6.75V, 13.5V or 28.0V respectively.</p> <p>In the case of a system that use an electronic light source control gear or a variable intensity control, not being part of the lamp the voltage declared by the manufacturer shall be applied to the input terminals of the lamp.</p> <p>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.</p> <p>However in the case of a rear fog lamp of category F2 operated by a variable intensity control to obtain variable luminous intensity, photometric measurements shall be performed according to the applicant's description.</p> <p>The voltage to be applied to the lamp shall be noted in the communication for in Annex 1 of the Regulation.</p> <p>For any lamp 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 requirement. 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.</p> <p>The limits of the apparent surface in the direction of the reference axis of a light-signaling device shall be determined.</p>	<p>7.1.</p> <p>7.1.1.</p> <p>7.1.2.</p> <p>7.1.3.</p> <p>7.1.4.</p> <p>7.2.</p> <p>7.3.</p> <p>7.4.</p> <p>7.5.</p> <p>7.6.</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p>

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, from the lamp body but supplied by the lamp manufacturer as part of the lamp system.

HEAT RESISTANCE TEST

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
The lamp must be subjected to a 1-hour test of continuous operation following a warm-up period of 20 minutes. The ambient temperature shall be $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$. The lamp used shall be a lamp of the category prescribed for the lamp, and shall be supplied with a current at a voltage such that it gives the specified average power at the corresponding test voltage.	8.1.	X	
Where only the maximum power is specified, the test shall be carried out by regulating the voltage to obtain a power equal to 90 % of the specified power. The specified average or maximum power referred to above shall in all cases be chosen from the voltage range of 6, 12 or 24 V at which it reaches the highest value.	8.2.	X	
In the case of light sources operated by an electronic control gear to obtain variable luminous intensity, the test shall be carried out under the conditions given at minimum 90 % of the higher luminous intensity.	8.3.		X
After the lamp has been stabilised at the ambient temperature, no distortion, deformation, cracking or colour modification shall be perceptible.	8.4.	X	

COLOUR OF LIGHT EMITTED

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
The colour of the light emitted inside the field of the light distribution grid defined at § 3 of Annex 3, which shall be measured under conditions described in § 7. above, shall be red. Outside this field no sharp variation of colour shall be observed.	9.	X	
These requirements shall also apply within the range of variable luminous intensity produced by rear fog lamps of category F2.			
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 § 7.1. of this Regulation.			

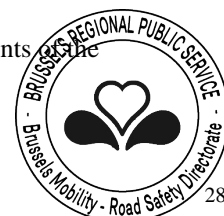
PHOTOMETRIC MEASUREMENTS (ANNEX 3)

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
When photometric measurements are taken, stray reflections shall be avoided by appropriate masking.	1.	X	
In the event that the results of measurements are challenged, measurements shall be taken in such a way as to meet the following requirements :	2.		
the distance of measurement shall be such that the law of the inverse of the square of the distance is applicable;	2.1.	X	
the measuring equipment shall be such that the angle subtended by the receiver from the reference centre of the lamp is between 10' and 1°;	2.2.	X	
the intensity requirement for a particular direction of observation shall be satisfied if the required intensity is obtained in a direction deviating by not more than one-quarter of a degree from the direction observation.	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.	3.		X
If visual examination of a lamp appears to reveal substantial local variations of intensity, a check shall be made to ensure that, outside the axes, no intensity measured within the rhombus defined by the extreme directions of measurement is below 75 cd (see diagram in § 4.)	4.	X	
Photometric measurement of lamps equipped with several light sources	5.	X	
The photometric performance shall be checked :			
For non-replaceable light sources (filament lamps and other) :	5.1.	X	
with the light sources present in the lamp, in accordance with § 7.1. of this Regulation			
For replaceable light source(s):	5.2.		X
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). When equipped with LED light source(s) at 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 value of the luminous flux found at the voltage applied.			
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.			

FACILITIES AND EQUIPMENT

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

Tested by Lucidity Enterprise Co., Ltd – Photometric Laboratory



Light sources : 16LEDs / 16 light sources ; Rated voltage and wattage : 12V, 2.2W / 24V, 2.3W

Lamp Function	: Rear fog lamp	Test Voltage	: 13.5 / 28 V
Category	: F1	Test Distance	: 3.16 m
Requirement	: ECE Reg. 38 Para. 6		

(Null below)

Light sources : 15LEDs /15 light sources (one light source (1LED) has failed)

Test Results of Photometric Measurement (Any one light source has failed)

Lamp Function : Rear fog lamp Test Voltage : 13.5 / 28 V
Category : F1 Test Distance : 3.16 m
Requirement : ECE Reg. 38 Para. 6

Measuring Screen	Requirement (cd)		Measurement (cd)	
	Min	Max	Sample RH (12V)	Sample RH (24V)
Horizontal Line Scan	150	-	189.0	198.5
	-	300	237.9	249.3
Vertical Line Scan	150	-	188.8	198.5
	-	300	220.6	231.5
Rhombus Area Scan	75	-	180.1	188.2
	-	300	234.6	244.7
Test Results	<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed			

Test Results of Colour Measurement

Lamp Function : Rear fog lamp
Requirement : ECE Reg. 38 Para.9
Light Emitted Color : Red
Color Boundaries - Limit towards yellow : $y \leq 0.335$
- Limit towards purple : $y \geq 0.980 - x$

Test Points	Sample LH (24V) Measurement		Sample RH (12V) Measurement	
	Colour x	Colour y	Colour x	Colour y
H - V	0.6977	0.3023	0.6933	0.3067
Test Results	<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed			

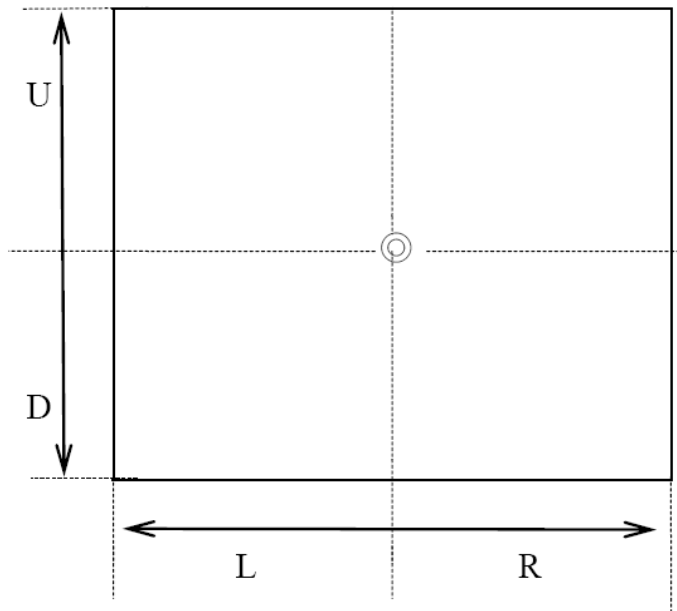
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TEST RESULTS : REAR FOG LAMP WITH OUTER LENS MEASUREMENT

Illuminating surface : Vertical and horizontal outlines of the illuminating surface of the light-signalling device in relation to the centre of reference.

Definition of the illuminating surface of the device

⊙ Center of reference



FUNCTION	UP SIDE BOUNDARY (U) mm	DOWN SIDE BOUNDARY (D) mm	LEFT SIDE BOUNDARY (L) mm	RIGHT SIDE BOUNDARY (R) mm	APPARENT SURFACE cm ²
REAR FOG LAMP	41.5	41.5	25	25	41.5

(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
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 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

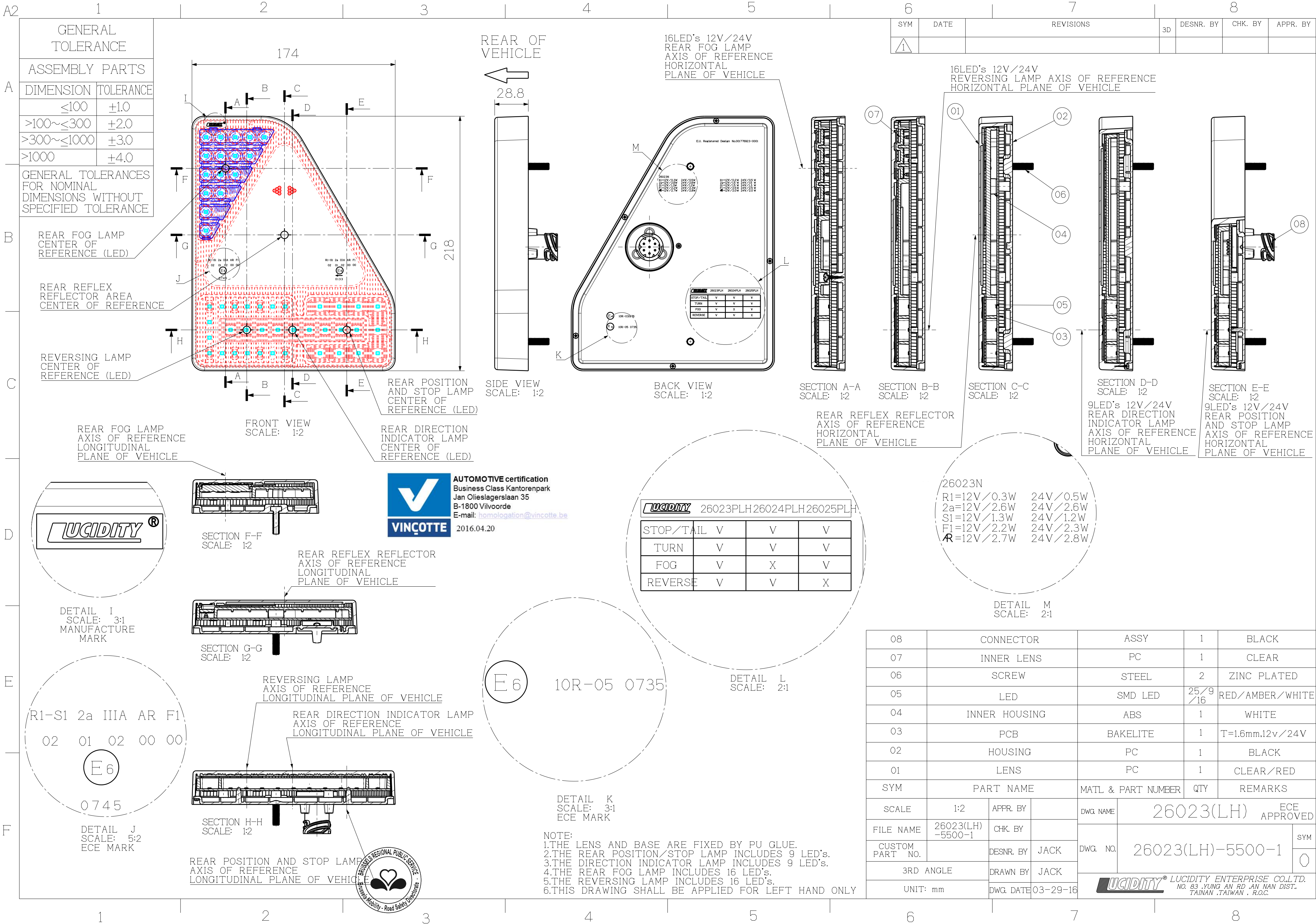
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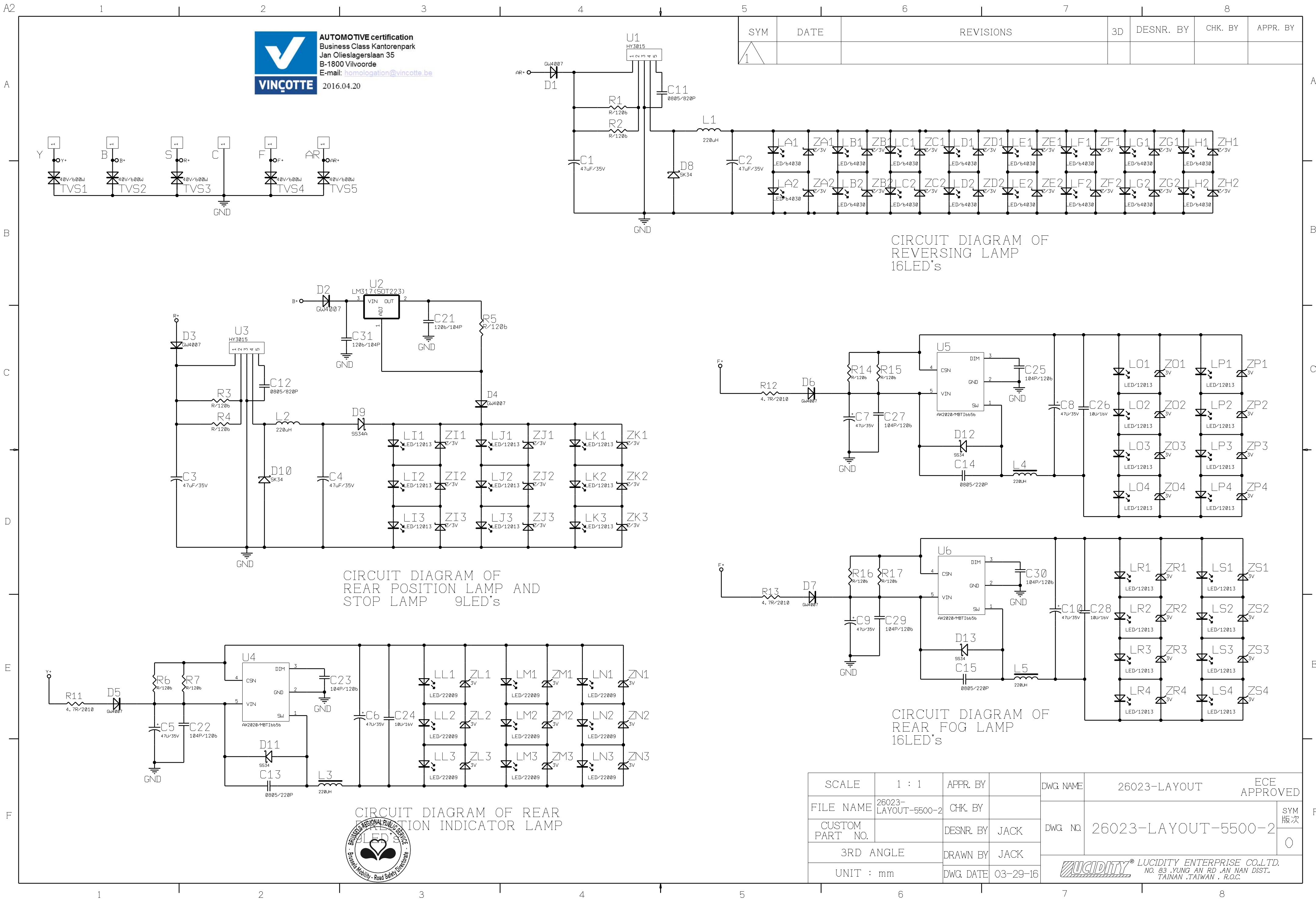


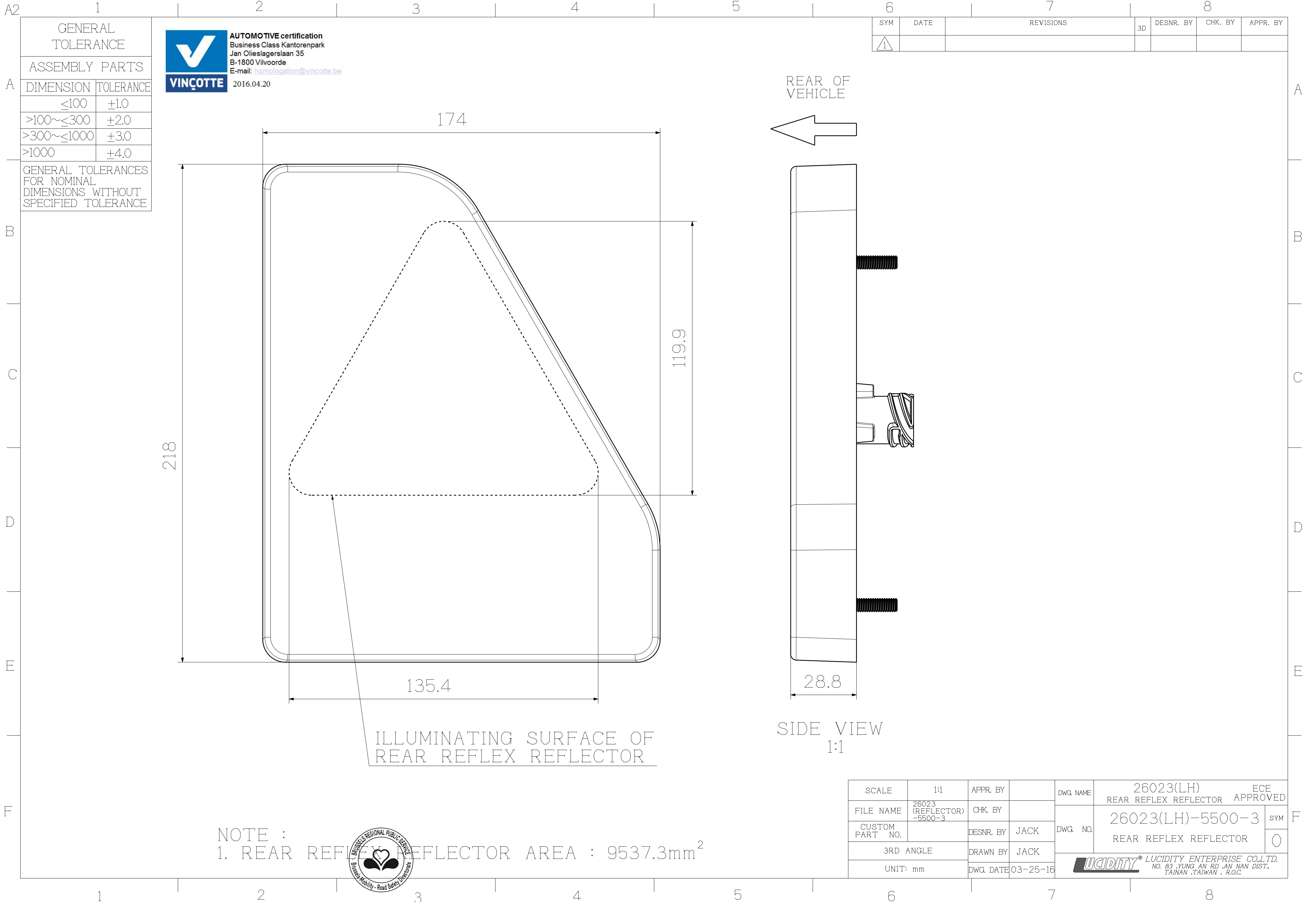
AUTOMOTIVE certification
 Business Class Kantorenpark
 Jan Olieslagerslaan 35
 B-1800 Vilvoorde
 E-mail: homologation@vincotte.be



2016.04.20









MATL & PART NUMBER		QTY	REMARKS	
DWG. NAME	26023(RH)		ECE APPROVED	
DWG. NO.	26023(RH)-5500-4		SYM	
				
 LUCIDITY® LUCIDITY ENTERPRISE CO.,LTD. NO. 83 ,YUNG AN RD ,AN NAN DIST. TAINAN ,TAIWAN , R.O.C.				

