



**THE NETHERLANDS
(N E D E R L A N D)**



COMMUNICATION

Concerning:

- approval granted
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of direction indicator pursuant to Regulation number 6.

Approval number: E4-6R-01 14979

Extension number: 00

- | | | |
|----|--|--|
| 1. | Trade name or mark of the device | : JUNYAN |
| 2. | Manufacturer's name for the type of device | : HU340-00-1 |
| 3. | Manufacturer's name and address | : JUN YAN INDUSTRIAL Company Limited
No.121, Wencheng Road,
Tainan,
Taiwan, Republic of China |
| 4. | If applicable, name and address of the manufacturer's representative | : -- |
| 5. | Submitted for approval on | : 10 November 2010 |
| 6. | Technical service responsible for conducting approval tests | : DEKRA Certification B.V. |
| 7. | Date of test report issued by that service | : 29 March 2011 |
| 8. | Number of test report issued by that service | : 2136982- PHO 10-116-57 |
| 9. | Concise description | : |
| | Category | : 1/1a/1b/2a/2b/3/4/5/6 |




Number, category and kind of light source(s)	: 1 x PY21W
Voltage and wattage	: 12V; 21W
Light source module specific identification code	: --
Only for installation on M1 and/or N1 category vehicles	: yes /no
Only for limited mounting height of equal to or less than 750 mm above the ground	: yes /no
Geometrical conditions of installation and relating variations, if any	: --
Application of an electronic light source control gear/variable intensity control	: --
(a) being part of the lamp	: yes /no
(b) being not part of the lamp	: yes /no
Input voltage(s) supplied by an electronic light source control gear/variable intensity control	: --
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	: --
Variable luminous intensity	: yes /no
10. Position of the approval mark	: See annexed drawing
11. Reason(s) for extension (if applicable)	: --
12. Approval	: granted/ extended / refused / withdrawn
13. Place	: Zoetermeer
14. Date	: 13-APR-2011



15. Signature

:



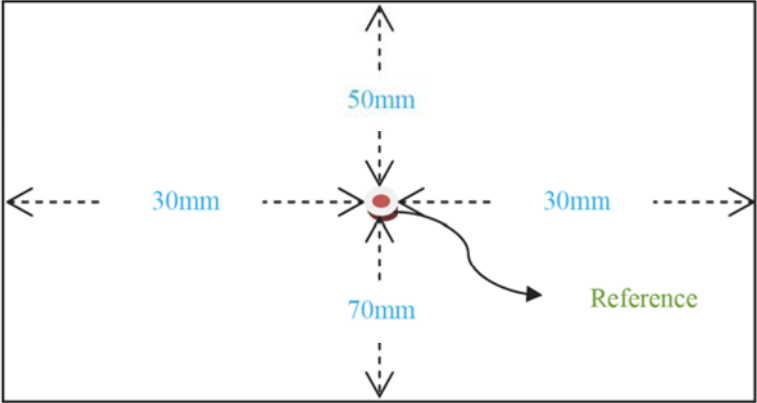
Ralph Clement

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.

- 2 Drawings: No. HU340-00-1 and Determination of the apparent surface (annexed).
- Test report as mentioned in item 8.

Determination of the apparent surface

HU340-00-1 : Front Direction Indicator Lamp



**THE NETHERLANDS
(N E D E R L A N D)****COMMUNICATION**

Concerning:

- approval granted
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of device pursuant to Regulation number 7.

Approval number: E4-7R-02 14979

Extension number: 00

1. Trade name or mark of the device : JUNYAN
2. Manufacturer's name for the type of device : HU340-00-1
3. Manufacturer's name and address : JUN YAN INDUSTRIAL Company Limited
No.121, Wencheng Road,
Tainan,
Taiwan, Republic of China
4. If applicable, name and address of the manufacturer's representative : --
5. Submitted for approval on : 10 November 2010
6. Technical service responsible for conducting approval tests : DEKRA Certification B.V.
7. Date of report issued by that service : 29 March 2011
8. Number of report issued by that service : 2136982- PHO 10-116-57
9. Concise description :
By category of lamp: A



- For mounting either outside ~~or inside~~
or both :
- Colour of light emitted : ~~red~~/white
- Number, category and kind of light source(s) : 2 x non-replaceable light source (LEDs) and 2 x W5W
- Voltage and wattage : 12V; 11W
- Light source module specific identification code : --
- Only for limited mounting height of equal to or less than 750 mm above the ground : ~~yes~~/no
- Geometrical conditions of installation and relating variations, if any : --
- Application of an electronic light source control gear/variable intensity control:
- (a) Being part of the lamp : ~~yes~~/no
- (b) Being not part of the lamp : ~~yes~~/no
- Input voltage(s) supplied by an electronic light source control gear/variable intensity control : 13.5V
- 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) : PANDAR TECH INCORPORATION
LDBCP-HU480
- Variable luminous intensity : ~~yes~~/no
10. Position of the approval mark : See annexed drawing.
11. Reason(s) for extension (if applicable) : --
12. Approval : ~~granted/extended/refused/withdrawn~~
13. Place : Zoetermeer
14. Date : 13 -APR- 2011



15. Signature :



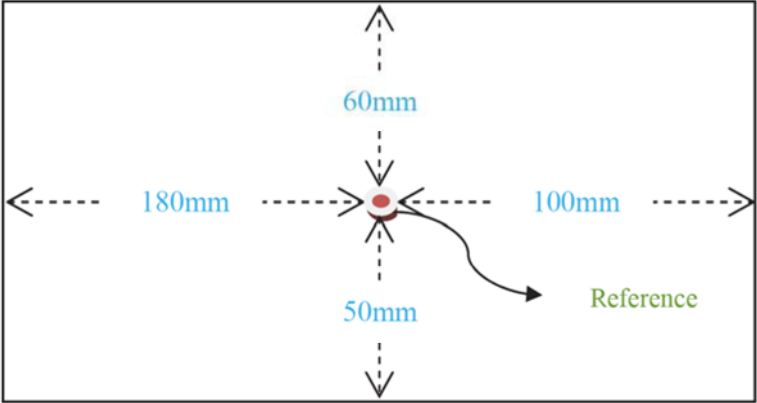
Ralph Clement

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.

- 2 Drawings: No. HU340-00-1 and Determination of the apparent surface (annexed).
- Test report as mentioned in item 8.

Determination of the apparent surface

HU340-00-1 : Front Position Lamp



**THE NETHERLANDS
(N E D E R L A N D)****COMMUNICATION**

Concerning

- approval granted
- ~~approval extended~~
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- ~~approval withdrawn~~
- ~~production definitely discontinued~~

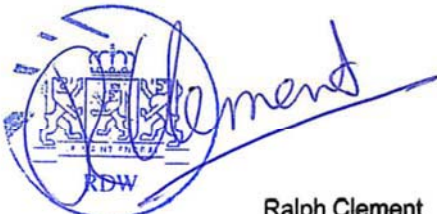
of a type of headlamp pursuant to Regulation number 112.

Approval number: E4-112R-00 14979

Extension number: 00

1. Trade name or mark of the device : JUNYAN
2. Manufacturer's name for the type of device : HU340-00-1
3. Manufacturer's name and address : JUN YAN INDUSTRIAL Company Limited
No.121, Wencheng Road,
Tainan,
Taiwan, Republic of China
4. If applicable, name and address of the manufacturer's representative : --
5. Submitted for approval on : 10 November 2010
6. Technical service responsible for conducting approval tests : DEKRA Certification B.V.
7. Date of report issued by that service :
29 March 2011
8. Number of report issued by that service : 2136982- PHO 10-116-57
9. Brief description:



- Category as described by the relevant marking : HCR PL
- Number and category(s) of filament lamp(s) : 1 x H1 for passing beam
1 x H1 for driving beam
- Measures according to paragraph 5.8. of this Regulation : Option (b)
Adjusted 0.5 degree vertically and no horizontal adjustment.
- Number and specific identification code(s) of LED module(s) : --
- Number and specific identification code(s) of electronic light source control gear(s) : --
- Total objective luminous flux as described in paragraph 5.9. exceeds 2,000 lumen : ~~yes/no~~/does not apply
- The adjustment of the cut-off has been determined at : 10 m/~~25 m~~/does not apply
- The determination of the minimum sharpness of the 'cut-off' has been carried out at : ~~10 m/25 m~~/does not apply
10. Approval mark position : See annexed drawing
11. Reason(s) for extension of approval : --
12. Approval : ~~granted/extended/refused/withdrawn~~
13. Place : Zoetermeer
14. Date : 13 -APR- 2011
15. Signature : 
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.
- 1 Drawing: No. HU340-00-1 (annexed)
 - Test report as mentioned in item 8.

Ralph Clement



2136982-PHO 10-116-57

**Approval testing of halogen headlamps with
trade mark JUNYAN and type name HU340-00-1**

Arnhem, 29 March 2011

Author H.M. van der Kolk
DEKRA Certification B.V. - Photometry

By order of Jun Yan Industrial Company Limited. Tainan, Taiwan.

author : H.M. van der Kolk 29-3-2011 reviewed : K. Meun 29-3-2011
B 28 pages 4 annexes GCM

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A blue ink signature, appearing to be 'K. Meun', written in a cursive style.

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SUMMARY

The tested samples of the class B halogen headlamps for right-hand traffic, marked JUNYAN type HU340-00-1 were found to comply with the requirements of ECE Regulation Nos. 06-01, 07-02, 112-00.

1 APPLICATION FOR APPROVAL TESTING

In the period from 10 November 2010 to 8 February 2011, samples of a halogen headlamp, trade name JUNYAN, type name HU340-00-1, manufactured by Jun Yan Industrial Company Limited. in Tainan, Taiwan were tested in the laboratory of ISOQA in Taiwan, photometric and color test were tested in ISOQA Tainan laboratory and rest testes were tested in ISOQA Taichung laboratory.

The passing beam and driving beam are both equipped with an H1 filament lamp emitting uncoloured light. The front direction indicator is equipped with an PY21W filament lamp emitting amber light and the the front position lamp is equipped with two LEDs and two W5W filament lamps which are connected together and controlled by one light source control gear. When one light source failed, the control gear will sense the change of total current of the lamp and make all light sources fail.

The lenses are made of plastic material GE LEXAN LS-2,111 with UVHC3000 coating.

A brief technical description and a drawing which were sufficiently detailed to permit identification of the model can be found in Annex 1 and 2 respectively.

The applicant desired an examination to check whether the front combination lamp is in compliance with the requirements of the ECE Regulation Nos. 06-01, 07-02 and 112-00.

2 EXAMINATION

The examination was carried out in accordance with the relevant clauses of the regulation concerned. The tests were performed taking into consideration the manufacturer's information concerning centre and axis of reference.

For the photometric tests of the halogen passing beam, driving beam and front direction indicator standard filament lamps for a rated voltage of 12V were used and adjusted so as to produce the prescribed luminous flux. For the photometric tests of the front position lamp a test voltage of 13.5 V was applied. For the tests concerning the stability of photometric performance production light sources with a test voltage of 13.2V were used.

The approval tests on lenses and/or samples of plastic material GE LEXAN LS-2,111 with UVHC3000 coating, in accordance with paragraphs 2.1 up to and including 2.5 of Annex 6 of Regulation No. 112-00 are described in ISOQA report No. 04-0686 dated 28 December 2004.

The distance of measurement was 25m for passing beam and driving beam, 3.2m for front direction indicator and front position lamp.

3 RESULTS OF EXAMINATION

The results of the tests are summarised in Annex 3. Detailed results of the tests of the lamps are presented in Annex 4, tables 1 up to 14.

4 SUPPLEMENTARY REMARKS

The approval number 14979 was assigned to the headlamps. The approval marking is shown in the drawing of Annex 2.

The reference number is 10.

Information Document

of Model Number- HU340-00-1
Approval Number: 14979

Manufacturer's Name and Address		JUN YAN INDUSTRIAL Company Limited No.121, Wencheng Road, Tainan, Taiwan, Republic of China
Trade name or mark		JUNYAN
Model Number		HU340-00-1
Material of lens		Plastic
Front Direction Indicator (Reg. 6)	Category	1a
	Light Source	PY21W*1, 12V, 21W
	Color of light	Amber
	Color of lens	Clear
Front Position Lamp (Reg.7)	Category	A
	Light Source	LED x 2+ W5W x 2, 12V, 11W (control via control gear; if anyone light source fails, all light source fail)
	Electronic light source control gear	LDBCP-HU480 of Pandar Tech Incorporation Output voltage : 13.5V (is part of the lamp but is not included into the lamp body)
	Color of light	White
	Color of lens	Clear

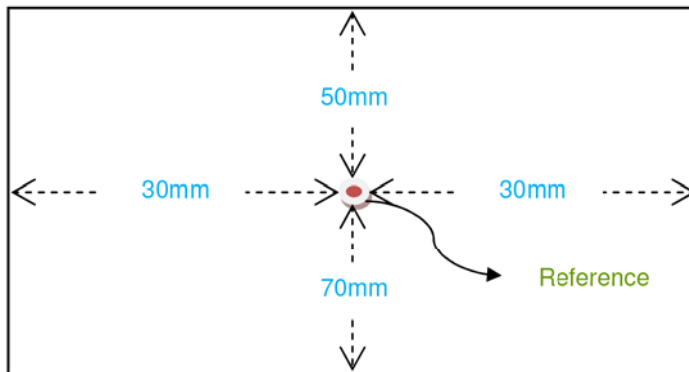
Information Document

of Model Number- HU340-00-1
Approval Number: 14979

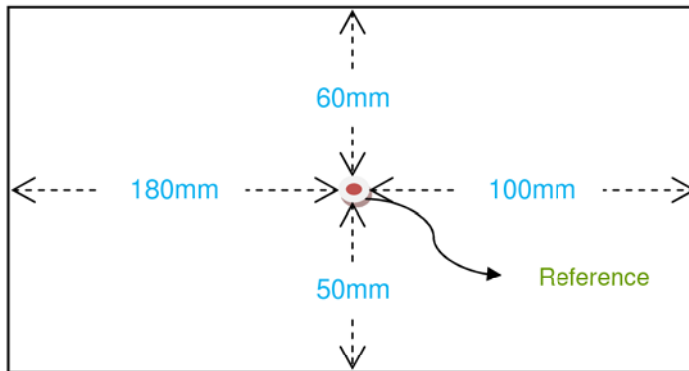
Manufacturer's Name and Address		JUN YAN INDUSTRIAL Company Limited No.121, Wencheng Road, Tainan, Taiwan, Republic of China
Trade name or mark		JUNYAN
Model Number		HU340-00-1
Material of lens		Plastic
Passing Beam (Reg.112)	Class	B
	Category	HC
	Light Source	H1*1, 12V, 55W
	Color of light	White
	Color of lens	Clear
Driving Beam (Reg.112)	Class	B
	Category	HR
	Light Source	H1*1, 12V, 55W
	Color of light	White
	Color of lens	Clear

Determination of the apparent surface

HU340-00-1 : Front Direction Indicator Lamp



HU340-00-1 : Front Position Lamp



Examination of the halogen headlamps HU340-00-1 for right-hand traffic carried out according to the relevant clauses of Regulation No. 112-00.

Clause No.	Subject of the relevant clause	Judgement of the headlamp	Remark
3	Markings: a trade name or mark b space reserved for approval mark, including symbols and number c indication of setting positions	complies complies does not apply	
4	Marking of the number 24 crossed out by an oblique cross	complies	
5	General specifications a illumination, dazzle, colour and discomfort of the beam(s) b maintenance of satisfactory operation and photometric characteristics c fixation and changing of the light sources d unambiguousness of settings and maintenance of them during use e stability of photometric performance and change of cut-off line f requirements on lenses of plastic material g Illumination configuration for different traffic conditions	see below complies complies does not apply complies complies complies	by visual inspection only see table 13 see table 14 (b) ¹

¹ Adjusted 0.5 degree vertically and no horizontal adjustment.

LH: Point 50L = 7.292 lux, Point B50R=0.469 lux, RH: Point 50L = 5.687 lux, Point B50R=0.503 lux

Clause No.	Subject of the relevant clause	Judgement of the headlamp	Remark
6	Photometric test		
	a road illumination and dazzle produced by the passing beam	complies	see tables 5 and 6 inclusive
	b road illumination produced by the driving beam	complies	see tables 7 and 8 inclusive
	c lateral variations in illumination in any of the zones	complies	
	d appearance of the cut-off line	complies	
	e adjustment of the headlamps during the test	complies	see tables 9 to 12
	f illumination values in zones "A" and "B"	complies	see tables 5 and 6
7	Colour of the light emitted	complies	²
8	Discomfort caused by the passing beam	complies	³

² Passing Beam emitting white light: LH : x=0.4283, y=0.4109 RH: x=0.4194, y=0.4049
Driving Beam emitting white light: LH : x=0.4306, y=0.4026 RH: x=0.4299, y=0.4046

³ For dazzle, the maximum illumination measured in any point of zone III and the illumination in point B50L may be referred to.

Examination of the front position lamp and front direction indicator as part of the headlamps type HU340-00-1 carried out in accordance with the relevant clauses of Regulations Nos. 6-01 and 7-02.

Clause No.	Subject of the relevant clause	Judgement of the device	Remark
3	Markings: a trade name or mark b indication of the recommended lamp type c space reserved for the approval mark, including number and symbol	complies complies complies	
5	General specifications: a intensity and colour of the light emitted b maintenance of satisfactory operation and of photometric characteristics	complies complies	see below under 6 and 8 by visual inspection only
6	Intensity of the light emitted	complies	see tables 1 up to 6 inclusive
8	Colour of the light	complies	⁴

⁴ Front Direction Indicator emitting amber light - LH: x=0.5679, y=0.4204 RH: x=0.5689, y=0.4197
 Front Position Lamp emitting white light – LH: x=0.4257, y=0.3741 RH: x=0.4015, y=0.3564

Front Direction Indicator-RH

ISOQA

PHOTOMETRIC RESULTS

Program:	01 (2011.1.26)	ECE R 6_1a (2011)
Front Direction Indicator for category 1a (2011)		
Name:	10-0686 HU-340 S103715 ECE6_1a RHM Front Direction Indicator Lamp	
Number:	L101132	
Test distance:	3.16 m	Meas.-no.:
Lamp type:	PY21W 0009	
Number:	PY21W 0009	
Flux:	280.700 lm	Operator: Giverny
Voltage:	13.319 V	Date: 2/8/2011 9:07:40 AM
Current:	1.952 A	Set value: Const. current
X-offset:	0.00°	Y-offset: 0.00°
Comment:		

ECE R 6_1a (2011)

Function	Min	Max	Value	H	V	N.O.K.
10U - 5L	50	1200	401.258	-5.00°	10.00°	
10U - 5R	50	1200	425.710	5.00°	10.00°	
5U - 20L	25	1200	45.106	-20.00°	5.00°	
5U - 10L	50	1200	224.380	-10.00°	5.00°	
5U - V	175	1200	490.348	0.00°	5.00°	
5U - 10R	50	1200	353.556	10.00°	5.00°	
5U - 20R	25	1200	59.397	20.00°	5.00°	
H - 10L	87.5	1200	219.569	-10.00°	0.00°	
H - 5L	225	1200	392.138	-5.00°	0.00°	
H - V	250	1200	488.845	0.00°	0.00°	
H - 5R	225	1200	444.250	5.00°	0.00°	
H - 10R	87.5	1200	406.569	10.00°	0.00°	
5D - 20L	25	1200	33.792	-20.00°	-5.00°	
5D - 10L	50	1200	116.349	-10.00°	-5.00°	
5D - V	175	1200	234.602	0.00°	-5.00°	
5D - 10R	50	1200	304.451	10.00°	-5.00°	
5D - 20R	25	1200	72.766	20.00°	-5.00°	
10D - 5L	50	1200	54.466	-5.00°	-10.00°	
10D - 5R	50	1200	88.690	5.00°	-10.00°	
Visibility	0.3	1200	(2.239) 509.669	(-45.00°) 0.75°	(-15.00°) 5.00°	

Front Direction Indicator-LH

ISOQA

PHOTOMETRIC RESULTS

Program:	01 (2011.1.26)	ECE R 6_1a (2011)
Front Direction Indicator for category 1a (2011)		
Name:	10-0686 HU-340 S103716 ECE6_1a LHM Front Direction Indicator Lamp	
Number:	L101132	
Test distance:	3.16 m	Meas.-no.:
Lamp type:	PY21W 0008	
Number:	PY21W 0008	
Flux:	280.100 lm	Operator: Giverny
Voltage:	14.434 V	Date: 2/8/2011 9:53:12 AM
Current:	1.864 A	Set value: Const. current
X-offset:	0.00°	Y-offset: 0.00°
Comment:		

ECE R 6_1a (2011)

Function	Min	Max	Value	H	V	N.O.K.
10U - 5L	50	1200	74.410	-5.00°	10.00°	
10U - 5R	50	1200	116.800	5.00°	10.00°	
5U - 20L	25	1200	47.600	-20.00°	5.00°	
5U - 10L	50	1200	181.200	-10.00°	5.00°	
5U - V	175	1200	274.500	0.00°	5.00°	
5U - 10R	50	1200	244.200	10.00°	5.00°	
5U - 20R	25	1200	98.000	20.00°	5.00°	
H - 10L	87.5	1200	250.900	-10.00°	0.00°	
H - 5L	225	1200	424.700	-5.00°	0.00°	
H - V	250	1200	384.000	0.00°	0.00°	
H - 5R	225	1200	356.000	5.00°	0.00°	
H - 10R	87.5	1200	271.400	10.00°	0.00°	
5D - 20L	25	1200	44.810	-20.00°	-5.00°	
5D - 10L	50	1200	267.300	-10.00°	-5.00°	
5D - V	175	1200	377.100	0.00°	-5.00°	
5D - 10R	50	1200	251.300	10.00°	-5.00°	
5D - 20R	25	1200	71.680	20.00°	-5.00°	
10D - 5L	50	1200	343.600	-5.00°	-10.00°	
10D - 5R	50	1200	282.800	5.00°	-10.00°	
Visibility	0.3	1200	(3.700) 436.262	(-80.00°) - 4.00°	(-15.00°) 0.00°	

Front Position Lamp-RH

ISOQA

PHOTOMETRIC RESULTS

Program:	02 (2005.01.12)	ECE R 7_FrontPositionLamp(LED)	
Front Position Lamp Incorporated in headlamp			
Name:	10-0686 HU-340 S103715 ECER7 RHM-Front-Position Lamp(LED) 30Min10 1110		
Number:	L101132		
Test distance:	3.194 m	Meas.-no.:	
Lamp type:	LED 13.5V		
Number:	LED		
Flux:	0.000 lm	Operator:	chen
Voltage:	13.494 V	Date:	11/10/2010 4:27:59 PM
Current:	0.814 A	Set value:	Const. voltage
X-offset:	0.00°	Y-offset:	0.00°
Comment:	LED+W5W+W5W		

ECE R 7_FrontPositionLamp(LED)

Function	Min	Max	Value	H	V	N.O.K.
H - V(1 min)	4	100	8.480	0.00°	0.00°	
H - V(30 min)	4	100	9.370	0.00°	0.00°	
10U - 5L	0.8	100	8.650	-5.00°	10.00°	
10U - 5R	0.8	100	9.420	5.00°	10.00°	
5U - 20R	0.4	100	12.050	20.00°	5.00°	
5U - 10R	0.8	100	11.050	10.00°	5.00°	
5U - V	2.8	100	9.320	0.00°	5.00°	
5U - 10L	0.8	100	13.240	-10.00°	5.00°	
5U - 20L	0.4	100	8.680	-20.00°	5.00°	
H - 10L	1.4	100	10.020	-10.00°	0.00°	
H - 5L	3.6	100	8.010	-5.00°	0.00°	
H - 5R	3.6	100	8.260	5.00°	0.00°	
H - 10R	1.4	100	9.760	10.00°	0.00°	
5D - 20R	0.4	100	8.150	20.00°	-5.00°	
5D - 10R	0.8	100	8.370	10.00°	-5.00°	
5D - V	2.8	100	7.446	0.00°	-5.00°	
5D - 10L	0.8	100	6.640	-10.00°	-5.00°	
5D - 20L	0.4	100	3.780	-20.00°	-5.00°	
10D - 5L	0.8	100	6.093	-5.00°	-10.00°	
10D - 5R	0.8	100	8.250	5.00°	-10.00°	
Visibility	0.05	100	(0.225) 14.797	(-45.00°) 15.00°	(-14.00°) 14.00°	

Front Position Lamp-LH

ISOQA

PHOTOMETRIC RESULTS

Program:	02 (2005.01.12)	ECE R 7_FrontPositionLamp(LED)	
Front Position Lamp Incorporated in headlamp			
Name:	10-0686 HU-340 S103716 ECER7 LHM-Front-Position Lamp(LED) 30Min 10 1110		
Number:	L101132		
Test distance:	3.194 m	Meas.-no.:	
Lamp type:	LED 13.5V		
Number:	LED		
Flux:	0.000 lm	Operator:	chen
Voltage:	13.494 V	Date:	11/10/2010 5:03:43 PM
Current:	0.815 A	Set value:	Const. voltage
X-offset:	0.00°	Y-offset:	0.00°
Comment:	LED+W5W+W5W		

ECE R 7_FrontPositionLamp(LED)

Function	Min	Max	Value	H	V	N.O.K.
H - V(1 min)	4	100	8.770	0.00°	0.00°	
H - V(30 min)	4	100	9.090	0.00°	0.00°	
10U - 5L	0.8	100	16.510	-5.00°	10.00°	
10U - 5R	0.8	100	13.020	5.00°	10.00°	
5U - 20R	0.4	100	3.997	20.00°	5.00°	
5U - 10R	0.8	100	9.410	10.00°	5.00°	
5U - V	2.8	100	10.330	0.00°	5.00°	
5U - 10L	0.8	100	16.490	-10.00°	5.00°	
5U - 20L	0.4	100	14.590	-20.00°	5.00°	
H - 10L	1.4	100	11.440	-10.00°	0.00°	
H - 5L	3.6	100	9.360	-5.00°	0.00°	
H - 5R	3.6	100	8.190	5.00°	0.00°	
H - 10R	1.4	100	7.731	10.00°	0.00°	
5D - 20R	0.4	100	2.642	20.00°	-5.00°	
5D - 10R	0.8	100	5.132	10.00°	-5.00°	
5D - V	2.8	100	7.631	0.00°	-5.00°	
5D - 10L	0.8	100	8.800	-10.00°	-5.00°	
5D - 20L	0.4	100	10.860	-20.00°	-5.00°	
10D - 5L	0.8	100	6.144	-5.00°	-10.00°	
10D - 5R	0.8	100	3.149	5.00°	-10.00°	
Visibility	0.05	100	(0.169) 22.242	(41.50°) - 12.75°	(-15.00°) 12.00°	

Passing Beam-RH

ISOQA

PHOTOMETRIC RESULTS

Program:	00 (2004.06.24)	ECE R 112 Class B Passing Beam R	
European asymmetric only dipped beam for right hand traffic			
Name:	10-0686 HU-340 S103715 ECER112 RHM Passing Beam 10_1110		
Number:	L101132		
Def. Pos:	-0.40°	Position:	0.00°
Gradient:	0.00	Cut-off:	LMT
Standard filament lamp			
Lamp type:	H1 ECE 0031		
Number:	ECE-0031 (2008.11.11)		
Flux:	1150.900 lm	Operator:	chen
Voltage:	13.731 V	Date:	11/10/2010 2:02:10 PM
Current:	4.469 A	Set value:	Const. current
X-offset:	0.00°	Y-offset:	0.00°
Comment:			

ECE R 112 Class B Passing Beam R

Function	Min	Max	Value	H	V	N.O.K
Point B50L(0.57U-3.43L)	-	0.4	0.116	-3.43°	0.57°	
Point 75R (0.57D-1.14R)	12	-	12.790	1.14°	-0.57°	
Point 75L (0.57D-3.43L)	-	12	2.805	-3.43°	-0.57°	
Point 50L (0.86D-3.43L)	-	15	4.134	-3.43°	-0.86°	
Point 50R (0.86D-1.72R)	12	-	12.808	1.72°	-0.86°	
Point 50V (H-0.86D)	6	-	12.306	0.00°	-0.86°	
Point 25L (1.72D-9.00L)	2	-	2.186	-9.00°	-1.72°	
Point 25R (1.72D-9.00R)	2	-	2.161	9.00°	-1.72°	
Point 1 (7.97L - 4U)	-	0.7	0.078	-7.97°	4.00°	
Point 2 (H - 4U)	-	0.7	0.136	0.00°	4.00°	
Point 3 (7.97R - 4U)	-	0.7	0.093	7.97°	4.00°	
Point 1 + Point 2 + Point 3 >=0.3						
Point 4 (4L - 2U)	-	0.7	0.251	-4.00°	2.00°	
Point 5 (H - 2U)	-	0.7	0.214	0.00°	2.00°	
Point 6 (4R - 2U)	-	0.7	0.202	4.00°	2.00°	
Point 4 + Point 5 + Point 6 >=0.6						
Point 7 (7.97L - V)	0.1	0.7	0.106	-7.97°	0.00°	
Point 8 (4L - V)	0.2	0.7	0.231	-4.00°	0.00°	
ECE-Zone III (15D)	-	0.7	0.515	0.10°	0.03°	
Zone IV	3	-	3.283	-5.14°	-1.72°	
Zone I (2 x E50R)	-	2 x E50R	10.447	0.30°	-1.72°	
Point 1 + 2 + 3	0.3	-	0.307			
Point 4 + 5 + 6	0.6	-	0.668			

Passing Beam-LH

ISOQA

PHOTOMETRIC RESULTS

Program:	00 (2004.06.24)		ECE R 112 Class B Passing Beam R	
European asymmetric only dipped beam for right hand traffic				
Name:	10-0686 HU-340 S103716 ECER112 LHM Passing Beam 10_1110			
Number:	L101132			
Def. Pos:	-0.40°	Position:	0.00°	
Gradient:	0.00	Cut-off:	LMT	
Standard filament lamp				
Lamp type:	H1 ECE 0031			
Number:	ECE-0031 (2008.11.11)			
Flux:	1150.900 lm	Operator:	chen	
Voltage:	13.635 V	Date:	11/10/2010 3:26:44 PM	
Current:	4.469 A	Set value:	Const. current	
X-offset:	0.00°	Y-offset:	0.00°	
Comment:				

ECE R 112 Class B Passing Beam R

Function	Min	Max	Value	H	V	N.O.K
Point B50L(0.57U-3.43L)	-	0.4	0.129	-3.43°	0.57°	
Point 75R (0.57D-1.14R)	12	-	18.781	1.14°	-0.57°	
Point 75L (0.57D-3.43L)	-	12	5.509	-3.43°	-0.57°	
Point 50L (0.86D-3.43L)	-	15	6.848	-3.43°	-0.86°	
Point 50R (0.86D-1.72R)	12	-	14.155	1.72°	-0.86°	
Point 50V (H-0.86D)	6	-	21.076	0.00°	-0.86°	
Point 25L (1.72D-9.00L)	2	-	2.524	-9.00°	-1.72°	
Point 25R (1.72D-9.00R)	2	-	2.440	9.00°	-1.72°	
Point 1 (7.97L - 4U)	-	0.7	0.138	-7.97°	4.00°	
Point 2 (H - 4U)	-	0.7	0.143	0.00°	4.00°	
Point 3 (7.97R - 4U)	-	0.7	0.066	7.97°	4.00°	
Point 1 + Point 2 + Point 3 >=0.3						
Point 4 (4L - 2U)	-	0.7	0.276	-4.00°	2.00°	
Point 5 (H - 2U)	-	0.7	0.244	0.00°	2.00°	
Point 6 (4R - 2U)	-	0.7	0.146	4.00°	2.00°	
Point 4 + Point 5 + Point 6 >=0.6						
Point 7 (7.97L - V)	0.1	0.7	0.137	-7.97°	0.00°	
Point 8 (4L - V)	0.2	0.7	0.253	-4.00°	0.00°	
ECE-Zone III (15D)	-	0.7	0.588	0.10°	0.03°	
Zone IV	3	-	4.495	5.14°	-1.72°	
Zone I (2 x E50R)	-	2 x E50R	20.861	-0.70°	-1.72°	
Point 1 + 2 + 3	0.3	-	0.347			
Point 4 + 5 + 6	0.6	-	0.666			

Driving Beam-RH

ISOQA

PHOTOMETRIC RESULTS

Program:	00	ECE R 112 class B Driving Beam	
European main beam			
Name:	10-0686 HU-340 S103715 ECER112 RHM Driving Beam 10_1110		
Number:	L101132		
Test distance:	25 m	Meas.-no.:	
Lamp type:	H1 ECE-0030		
Number:	ECE-0030 (2008.11.11)		
Flux:	1150.200 lm	Operator:	chen
Voltage:	12.960 V	Date:	11/10/2010 2:17:19 PM
Current:	4.448 A	Set value:	Const. current
X-offset:	0.00°	Y-offset:	0.00°
Comment:			

ECE R 112 class B Driving Beam

Function	Min	Max	Value	H	V	N.O.K.
Emax	48	240	49.996	0.55°	-0.75°	
H - V	0.8 x Emax	-	44.462	0.00°	0.00°	
H/2.57L - H/2.57R	24	-	27.860	-2.57°	0.00°	
H/5.14L - H/2.57L	6	-	11.247	-5.14°	0.00°	
H/2.57R - H/5.14R	6	-	12.574	5.12°	0.00°	

Driving Beam-LH

ISOQA

PHOTOMETRIC RESULTS

Program:	00	ECE R 112 class B Driving Beam	
European main beam			
Name:	10-0686 HU-340 S103716 ECER112 LHM Driving Beam 10_ 1110		
Number:	L101132		
Test distance:	25 m	Meas.-no.:	
Lamp type:	H1 ECE-0030		
Number:	ECE-0030 (2008.11.11)		
Flux:	1150.200 lm	Operator:	chen
Voltage:	12.963 V	Date:	11/10/2010 3:32:32 PM
Current:	4.448 A	Set value:	Const. current
X-offset:	0.00°	Y-offset:	0.00°
Comment:			

ECE R 112 class B Driving Beam

Function	Min	Max	Value	H	V	N.O.K.
E _{max}	48	240	53.038	-0.85°	0.50°	
H - V	0.8 x E _{max}	-	46.742	0.00°	0.00°	
H/2.57L - H/2.57R	24	-	24.693	2.57°	0.00°	
H/5.14L - H/2.57L	6	-	20.398	-5.14°	0.00°	
H/2.57R - H/5.14R	6	-	11.471	5.12°	0.00°	

Up 2D-RH

ISOQA

PHOTOMETRIC RESULTS

Program:	00 (2004.09.14)		ECE R 112 CB RHT 2D Adjust Test	
European asymmetric dipped and main beam for right hand traffic				
Name:	10-0686 HU-340 S103715 ECER112 R-Passing & Driving UP 2D 10_1110			
Number:	L101132			
Report:			Test no :	
	Low beam	High beam		
Lamp type:	H1 ECE 0031	H1 ECE 0030		
Number:	ECE-0031 (2008.11.11)	ECE-0030 (2008.11.11)		
Flux:	1150.900 lm	1150.200 lm	Operator:	chen
Voltage:	13.073 V	12.834 V	Date:	11/10/2010 3:01:26 PM
Current:	4.469 A	4.448 A	Set value:	Const. current
X-offset:	0.00°		Y-offset:	2.00°
Comment:				

ECE R 112 CB RHT 2D Adjust Test

Function	Min	Max	Value	H	V	N.O.K.
Point H-V (Passing Beam)	-	0.7	0.660	0.00°	0.00°	
Point 75R (0.57D-1.14R)	12	-	15.026	1.14°	-0.57°	
Emax (Driving Beam)	48	240	49.141	0.75°	-0.75°	
H - V	0.8 x Emax	-	43.882	0.00°	0.00°	

Up 2D-LH

ISOQA

PHOTOMETRIC RESULTS

Program:	00 (2004.09.14)		ECE R 112 CB RHT 2D Adjust Test	
European asymmetric dipped and main beam for right hand traffic				
Name:	10-0686 HU-340 S103716 ECER112 L-Passing & Driving UP 2D 10 1110			
Number:	L101132			
Report:		Test no :		
	Low beam	High beam		
Lamp type:	H1 ECE 0031	H1 ECE 0030		
Number:	ECE-0031 (2008.11.11)	ECE-0030 (2008.11.11)		
Flux:	1150.900 lm	1150.200 lm	Operator:	chen
Voltage:	12.909 V	12.834 V	Date:	11/10/2010 4:21:24 PM
Current:	4.469 A	4.448 A	Set value:	Const. current
X-offset:	0.00°		Y-offset:	2.00°
Comment:				

ECE R 112 CB RHT 2D Adjust Test

Function	Min	Max	Value	H	V	N.O.K.
Point H-V (Passing Beam)	-	0.7	0.454	0.00°	0.00°	
Point 75R (0.57D-1.14R)	12	-	12.019	1.14°	-0.57°	
Emax (Driving Beam)	48	240	48.606	-0.80°	0.50°	
H - V	0.8 x Emax	-	44.312	0.00°	0.00°	

Down 2D-RH

ISOQA

PHOTOMETRIC RESULTS

Program:	00 (2004.09.14)		ECE R 112 CB RHT 2D Adjust Test	
European asymmetric dipped and main beam for right hand traffic				
Name:	10-0686 HU-340 S103715 ECER112 R-Passing & Driving Down 2D 10_1110			
Number:	L101132			
Report:		Test no :		
	Low beam	High beam		
Lamp type:	H1 ECE 0031	H1 ECE 0030		
Number:	ECE-0031 (2008.11.11)	ECE-0030 (2008.11.11)		
Flux:	1150.900 lm	1150.200 lm	Operator:	chen
Voltage:	13.083 V	12.834 V	Date:	11/10/2010 2:55:46 PM
Current:	4.469 A	4.448 A	Set value:	Const. current
X-offset:	0.00°		Y-offset:	-2.00°
Comment:				

ECE R 112 CB RHT 2D Adjust Test

Function	Min	Max	Value	H	V	N.O.K.
Point H-V (Passing Beam)	-	0.7	0.655	0.00°	0.00°	
Point 75R (0.57D-1.14R)	12	-	12.648	1.14°	-0.57°	
Emax (Driving Beam)	48	240	51.545	-0.05°	-1.00°	
H - V	0.8 x Emax	-	41.723	0.00°	0.00°	

Down 2D-LH

ISOQA

PHOTOMETRIC RESULTS

Program:	00 (2004.09.14)		ECE R 112 CB RHT 2D Adjust Test	
European asymmetric dipped and main beam for right hand traffic				
Name:	10-0686 HU-340 S103716 ECER112 L-Passing & Driving Down 2D 10_1110			
Number:	L101132			
Report:			Test no :	
	Low beam	High beam		
Lamp type:	H1 ECE 0031	H1 ECE 0030		
Number:	ECE-0031 (2008.11.11)	ECE-0030 (2008.11.11)		
Flux:	1150.900 lm	1150.200 lm	Operator:	chen
Voltage:	12.882 V	12.834 V	Date:	11/10/2010 4:15:48 PM
Current:	4.469 A	4.448 A	Set value:	Const. current
X-offset:	0.00°		Y-offset:	-2.00°
Comment:				

ECE R 112 CB RHT 2D Adjust Test

Function	Min	Max	Value	H	V	N.O.K.
Point H-V (Passing Beam)	-	0.7	0.614	0.00°	0.00°	
Point 75R (0.57D-1.14R)	12	-	12.199	1.14°	-0.57°	
Emax (Driving Beam)	48	240	51.262	-1.00°	0.50°	
H - V	0.8 x Emax	-	45.122	0.00°	0.00°	

Stability of photometric performance on headlamps marked HU340-00-1, sample No. 1

		Illumination in lux on measuring points			
		E_{\max}	HV	E50R	B50L
A	Clean headlamp				
	Prior to the test	65.50	0.45	12.43	0.33
	After 12 hours ¹⁾	64.25	0.42	12.31	0.32
B	Dirty headlamp				
	After 1 hour ¹⁾	63.74	0.40	12.25	0.31

- ¹⁾ Using the following cycle during 12 hours for passing beam and driving beam:
- Passing beam continuously operating
 - Driving beam operating a cycle of 15 minutes off and 5 minutes lit.

After both tests the headlamp was inspected visually. No distortion, deformation, cracking or change in colour of the headlamp lens was noticeable.

The discrepancy of the photometric characteristics prior and after each test was not more than 10 per cent.

The vertical position of the cut-off line under the influence of heat approximately changed 0.17 mrad (maximum allowed 1 mrad)

Test on the complete headlamp incorporating a lens of plastic material on headlamps for right-hand traffic, sample No. 2

§ 2.6.1 Mechanical deterioration

Point on measuring screen	Illumination in lux on measuring points	
	After mechanical deterioration	Required min. or permissible max. value
B50L	0.51	0.52 max.
HV	0.87	0.91 max.
75R	11.28	10.8 min.

§ 2.6.2 Adherence of coatings

The impaired area was 6%, and did not exceed the permitted 15% of the gridded area.