



AUTOMOTIVE MANUFACTURERS EQUIPMENT
COMPLIANCE AGENCY, INC.

AMECA NOTICE OF EQUIPMENT COMPLIANCE™

This notice verifies that the item described below has been tested by an accredited laboratory and has been found to be in compliance with the jurisdictional standard(s) listed below where applicable. The issuance of this AMECA Notice of Equipment Compliance™ does not denote or imply any endorsement or recommendation of the item described below.

Notification Number: 170190

Test Report Date: January 24, 2017

Expiration Date: July 1, 2020

Applicant: Changzhou Xinyu Tianli Lighting Factory
Lujiaxiang, Niutang Town, Wujin District,
Changzhou City, Jiangsu
P.R.China

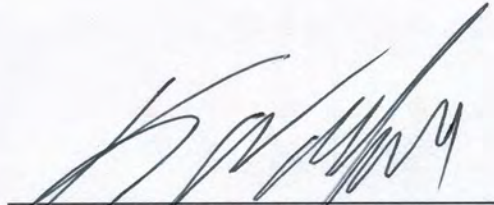
Item: "H11" - Replaceable Bulb Lightsource - White In Colour

Use: On Motor Vehicle Replaceable Bulb Headlamp Systems

Jurisdictional Compliance Standard(S)
Identical To: United States FMVSS 571.108

Item Markings: CG (trade mark) H11 DOT 12V 55W

Test Lab: ISOQA Technical Service Co., Ltd.
Report Number: 108-ISOQA-17-035



Executive Director



"AMECA"; "AMECA Edge Code" (for automotive brake friction material); and the AMECA Logo are trademarks registered with the US Patent & Trademark Office and with the US Department of Homeland Security - Customs and Border Patrol. These trademarks are solely owned by Automotive Manufacturers Equipment Compliance Agency, Inc. and may not be used without the express written permission of AMECA.

108-ISOQA-17-035

SAFETY COMPLIANCE TESTING FOR FMVSS108

ISOQA
60, Yong Long Rd,
Da-Li, Taichung
Taiwan, ROC



- Final Report -

Archer Chang

24 January 2017

Signature of Responsible Laboratory Official

Approval Date

Contents of Final Report	number of page in each report
Cover Page	1
Contents	1
Product information	1
Replaceable light source	9
Drawing	1

13 pages in total

Prepared By: J.Y Pan

Reviewed By: Julie Wu

PRODUCT INFORMATION

Test Component	H11
Manufacturer	Changzhou Xinyu Tianli Lighting Factory Lujiaxiang, Niutang Town, Wujin District, Changzhou City, Jiangsu, China
Report Number	108-ISOQA-17-035
Trade Mark	TAILI, Prestige USA, CG, AJUAN
Bulb Material	PLASTIC
Filament Material	Tungsten filament
Base Material	Plastic
Marking on Base	CG (trade mark) H11 DOT 12V 55W

* Above-mentioned information is provided by the applicant

Functions	Replaceable light source
Requirements	FMVSS 108
Color emitted	White
Light Source Category	H11
Rated Voltage / Design Voltage	12 V / 12.8 V
Wattage	55 W @ 12 V

Test Item	Inspector	Date	Number of Passed
Physical Inspection	Elton Li	2016/11/30	2
Marking	Elton Li	2016/12/15	2
Electrical Specifications	Elton Li	2016/12/15	2
Dimensional Specifications	Elton Li	2016/12/15	2
Deflection Test	Elton Li	2016/12/15	2

REPLACEABLE LIGHT SOURCE TEST REPORT

Test Component : H11
Manufacturer : Changzhou Xinyu Tianli Lighting Factory
Test Laboratory : ISOQA
Test Date : November 30, 2016 ~ December 15, 2016
Report Number : 108-ISOQA-17-035
Number of devices tested : see summary
Light Source Designation : H11

SUMMARY

Test Description	Test Result :	Number Passed	Number Failed
Physical Inspection		2	-
Markings		see below	-
Lumens Test		2	-
Wattage Test		2	-
Dimension Test		2	-
Deflection Test		2	-



Signature of Responsible Laboratory Official

Title : Lab Manager

Date 2017/1/24

REPLACEABLE LIGHT SOURCE PHYSICAL INSPECTION

Inspection Performed By : **Elton Li** Date : **2016/11/30**
Test Component : **H11**
Manufactured by : **Changzhou Xinyu Tianli Lighting Factory**
Markings : **see below**
Bulb Material : **Glass**
Coating : **N/A**
Base Material : **Plastic**

Remarks : _____

REPLACEABLE LIGHT SOURCE MARKINGS

Inspection Performed By : **Elton Li** Date : **2016/12/15**
Designation / HB Type : **on Base** **H11**
Manufacturer's Part Number : **Not Applicable**
DOT symbol : **on Base**
Trade Mark : **on Base** **CG (or TAILI, Prestige USA, AJUAN)**

Ballast marking

Trade Mark : **Not Applicable**
Ballast Part Number : **Not Applicable**
light source identification : **Not Applicable**
Rated laboratory life : **Not Applicable**
Warning Sentence : **Not Applicable**
Output Power : **Not Applicable**
Output Voltage : **Not Applicable**
DOT symbol : **Not Applicable**

Remarks : _____

REPLACEABLE LIGHT SOURCE ELECTRICAL SPECIFICATIONS

Test Performed By :

Elton Li

Date :

2016/12/15

Maximum power at 12.8 Volts

Filament	Max Value (W)	Sample 1	Sample 2
Single filament	59	58.7	58.1

Luminous Flux :

Filament	Rated Value (lm)	Sample 1	Sample 2
Single filament	1250 ± 150	1233	1224

Remarks : _____

REPLACEABLE LIGHT SOURCE DIMENSIONAL SPECIFICATIONS

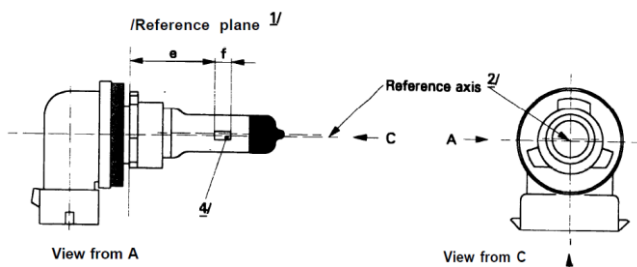
Test Performed By :

Elton Li

Date :

2016/12/15

Figure 1 Main drawing



Dimension	Rated Value (mm)	Sample 1	Sample 2
e ^{5) 6)}	25	PASS (checked by means of a "Box system")	
f ^{5) 6)}	4.5		

^{1)/} The reference plane is the plane formed by the underside of the bevelled lead-in flange of the cap.

^{2)/} The reference axis is perpendicular to the reference plane and passing through the centre of the 19 mm cap diameter.

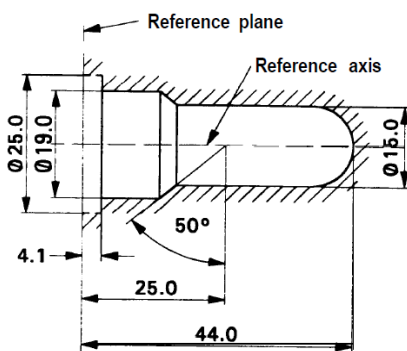
^{4)/} Notes concerning the filament diameter:

- No actual diameter restrictions apply but the objective for future developments is to have $d_{max} = 1,4$ mm.

- For the same manufacturer, the design diameter of standard (étalon) filament lamp and filament lamp of normal production shall be the same.

^{5)/} The end of the filaments are defined as the points where, when the viewing direction is direction A as shown in figure 1, the projection of the outside of the end turns crosses the filament axis.

Figure 2 Maximum lamp outline⁶⁾

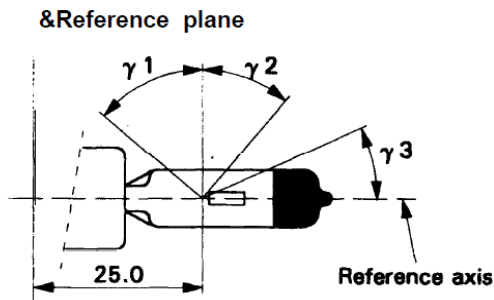


Dimension	Rated Value (mm)	Sample 1	Sample 2
Lamp outline	see Fig. 2	PASS	PASS

^{3)/} Glass bulb and supports shall not exceed the envelope as indicated in figure 2. The envelope is concentric to the reference axis.

^{6)/} See figure 6

Figure 3 Distortion free area ⁷⁾ and black top ⁸⁾



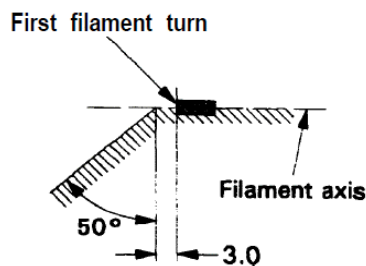
View from B

Dimension	Rated Value (mm)	Sample 1	Sample 2
γ1	50° min.	51.00°	52.00°
γ2	40° min.	65.50°	66.30°
γ3	30° min.	30.30°	31.00°

⁷⁾ The bulb shall be optically distortion free within the angles γ1 and γ2. This requirement applies to the whole bulb circumference within the angles γ1 and γ2.

⁸⁾ The obscuration shall extend at least to angle γ3 and shall extend at least to the cylindrical part of the bulb on the whole bulb top circumference.

Figure 4 Metal free zone ⁹⁾

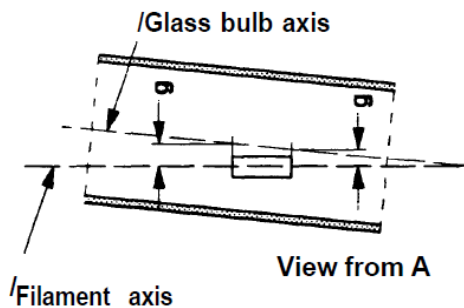


View from A

Dimension	Rated Value (mm)	Sample 1	Sample 2
Metal free zone	see Fig. 4	PASS	PASS

⁹⁾ The internal design of the lamp shall be such that the stray light images and reflections are only located above the filament itself seen from the horizontal direction. (View A as indicated in figure 1). No metal parts other than filament turns shall be located in the shaded area as seen in figure 4.

Figure 5 Glass bulb eccentricity ¹⁰⁾

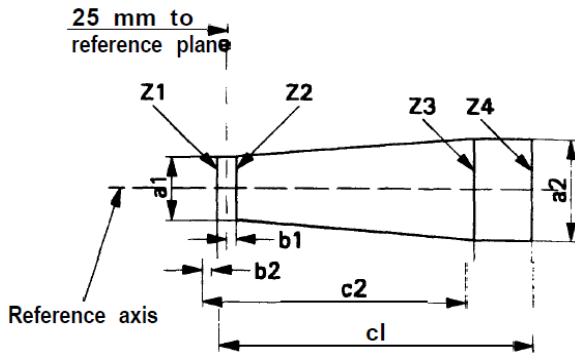


View from A

Dimension	Rated Value (mm)	Sample 1	Sample 2
g1	0.5 min.	1.83	1.58
g2	0.5 min.	1.96	1.62

¹⁰⁾ Eccentricity of glass bulb axis in relation to filament axis measured in two planes parallel to the reference plane where the projection of the outside of the end turns nearest to or furthest from the reference plane crosses the filament axis.

Figure 6 Filament Position ¹¹⁾



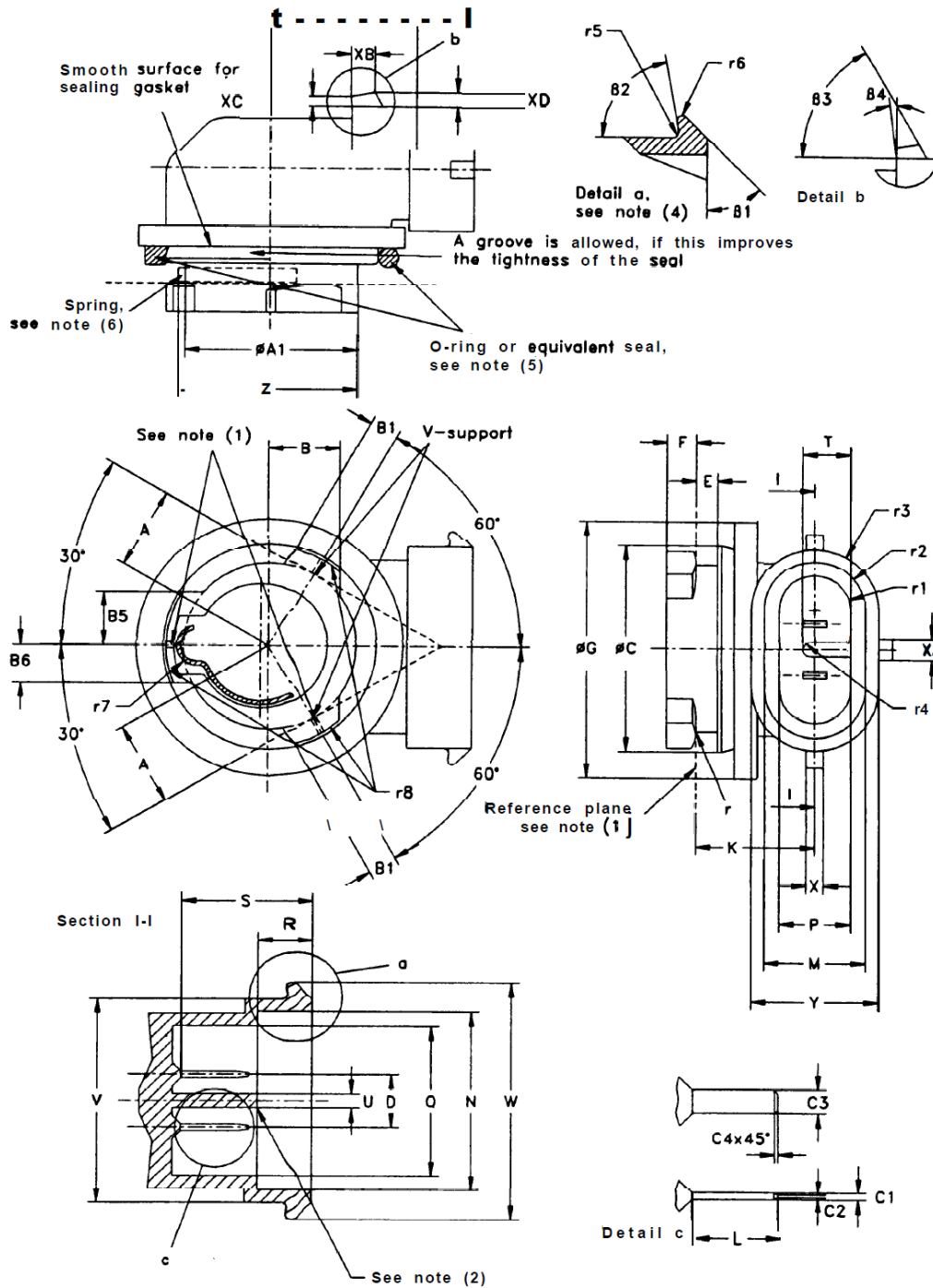
Dimension	Rated Value (mm)	Sample 1	Sample 2
d	1.44 max	1.3	1.3
a1	$d+0.3$	Pass	Pass
a2	$d+0.5$		
b1	0.2		
b2	0.2		
c1	5.0		
c2	4.0		

¹⁰⁾ The filament position is checked solely in directions A and B as shown on figure 1.

The filament shall lie entirely within the limits shown and the ends of the filament as defined in note 4), shall lie between lines Z1 and Z2 and between lines Z3 and Z4.

d = actual filament diameter.

Figure7 Base PGJ19-2



Dimensional specifications for Figure 7

Dimension	Rated Value (mm)		Sample 1	Sample 2	Dimension	Rated Value (mm)		Sample 1	Sample 2
	Min.	Max.				Min.	Max.		
A ⁸⁾	9.5		9.5	9.45	T	5.3	5.6	5.55	5.57
A1	--	19.0	18.8	18.76	U	1.55	1.85	1.58	1.62
B	7.8	8.0	7.81	7.89	V	24.0	24.6	24.4	24.44
B1	3.3	3.5	3.5	3.40	W	28.15	28.45	28.4	28.42
B5	5.95	6.05	5.96	5.99	X	1.85	2.15	2.04	2.12
B6	3.95	4.05	4	4.03	XA	2.4	2.6	2.46	2.46
C	25.1	25.5	25.32	25.4	XB	2.7	2.9	2.77	2.81
C1	0.77	0.84	0.83	0.79	XC	1.1	1.3	1.20	1.12
C2	0.3	0.5	0.49	0.47	XD	1.6	1.8	1.63	1.70
C3	2.7	2.9	2.87	2.85	Y	14.85	15.15	15.02	15.04
C4	0.3	0.6	0.51	0.57	Z	--	21.4 ⁷⁾	20.20	20.22
D	6.1		6	5.97	r	--	0.2	0.17	0.19
E	3.0	--	3.2	3.16	r1	P/2		4.2	4.17
F	--	4.0	1.07	1.01	r2	M/2		5.94	5.89
G	31.4	31.6	31.5	31.52	r3	Y/2		7.47	7.50
H	--	24	23.69	23.71	r4	U/2		0.84	0.86
K	14	15	14.44	14.72	r5	--	0.55	0.36	0.29
L	9.4	10.6	10.08	10.14	r6	--	0.55	0.50	0.47
M	11.75	12.05	11.92	11.92	r7	1.0	2.0	1.42	1.51
N	21.15	21.45	21.24	21.30	r8	12.15	12.25	12.23	12.20
P	8.2	8.5	8.3	8.34	β 1	Approx. 45°		46.0°	45.5°
Q	17.65	17.95	17.68	17.72	β 2	Approx. 80°		77.0°	79.0°
R	5.85	6.15	6.04	6.06	β 3	58°	62°	60.0°	61.5°
S	15.85	16.15	16.1	16.12	β 4	0°	7°	2.0°	2.0°

Deflection Test

Test performed by

Elton Li

Date :

December 15, 2016

After completion of the deflection test, a sample light source must have no permanent deflection of the glass envelope exceeding 0.13 mm in the direction of applied force.

Yes No

Remarks :



CG (trade mark) H11 DOT 12V 55W