



AUTOMOTIVE MANUFACTURERS EQUIPMENT
COMPLIANCE AGENCY, INC.

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Notification Number: 231375

Test Report Date: June 29, 2023

Expiration Date: July 1, 2026

Applicant: Morimoto Lighting
2281 Defoor Hills Rd.
Atlanta GA 30318

Item: "LF738 (Or LF739)" - Combination Tail, Stop, Turn Signal, Backup And Side Marker Lamp With Side And Rear Reflex Reflectors; With Clear or Smoked Lens - Red, White Or Yellow In Colour

Use: On 2010-2023 Model Years Toyota 4Runner Motor Vehicles

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

| Markings | |
|--------------------------|-------------------------------|
| Lens | Housing |
| DOT SAE A(3)IP2R(3)ST 23 | MORIMOTO LF738 (Or LF739) 12V |

Light Source: Side Marker/Tail Lamp: 76 LED's, 12V
Stop Lamp: 47 LED's, 12V
Turn Signal Lamp: 47 LED's, 12V
Backup Lamp: 8 LED's, 12V

Test Lab: Zhejiang ATTC Automobile
Technology Service Co., Ltd.

Report Number: AT23XX1D66631


Executive Director



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Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

COMPLIANCE TEST REPORT

ACCORDING TO U.S. FMVSS 108

COVER PAGE



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

TEST DETAILS

APPLICANT'S NAME : Morimoto Lighting
ADDRESS : 2281 Defoor Hills Rd Atlanta GA 30318, United States

NO. OF DEVICES TESTED : 4 PCS
PART NUMBER : LF738; LF739
DESCRIPTION : Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
LIGHT SOURCE : LED

TEST LABORATORY : Zhejiang ATTC Automobile Technology Service Co., Ltd.
TEST PLACE : Building 3, Essence Adream of Space, No.350, Jinghua Road, Hi-tech Zone, Ningbo City, Zhejiang Province, P.R. China
TEST DATE: : June 19, 2023 –June 29, 2023

SUMMARY

| TEST DESCRIPTION | TEST RESULTS | |
|-------------------------------|---------------|---------------|
| | NUMBER PASSED | NUMBER FAILED |
| Physical Inspection | 4 | - |
| Photometric Test | 4 | - |
| Color Test | 4 | - |
| Vibration Test | 2 | - |
| Moisture Test | 2 | - |
| Dust Test | 2 | - |
| Corrosion Test | 2 | - |
| Plastic Optical Material Test | Not tested* | - |

REMARKS:

*: Plastic optical material test is not carried out for this application because the applicant used the material already listed in “AMECA-List-of-Acceptable-Plastics-for-Optical-Lenses-and-Reflex-Reflectors- March-10-2023”

NAME AND SIGNATURE : Zhang Xiaoning

张小平

TITLE : Test Engineer

DATE : June 29, 2023



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 1) PHYSICAL INSPECTION

TEST COMPONENT : LF738; LF739
MANUFACTURED BY : Zhejiang Hongguan Lighting Technology Co., Ltd.
MARKINGS :
- LENS : "DOT SAE A(3)IP2R(3)ST 23"
- HOUSING : "MORIMOTO", "LF738 or LF739"
"Tail/SML:12V 5.4W", "Turn:12V 40W",
"Backup:12V 3.5W", "Stop:12V 16.3W"
OUTER LENS :
- MATERIAL : LF738 Red lens:
Chimei Corporation Zhenjiang China ACRYREX CM-
205 Polymethyl Methacrylate Clear+Red
LF739 Smoke lens:
Chimei Corporation Zhenjiang China ACRYREX CM-
205 Polymethyl Methacrylate Clear+Smoke
- COATING : ---
- METHOD OF : Hot Plate Welding
MOUNTING TO HOUSING
HOUSING :
- MATERIAL : ABS
- METHOD OF : Screw
MOUNTING TO VEHICLE
- GASKET : None

LIGHT SOURCE USED:

| FUNCTION | QTY | TRADE NO. | RATED VOLTAGE |
|-----------------------|--------|-----------|---------------|
| Tail/SML Lamp | 76 pcs | LED | 12V |
| Stop Lamp | 47 pcs | LED | 12V |
| Rear Turn Signal Lamp | 47 pcs | LED | 12V |
| Backup Lamp | 8 pcs | LED | 12V |

INSPECTION PERFORMED BY: Cao Wei

DATE: June 19, 2023



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 2) COLOR OF LIGHT

TEST COMPONENT : LF738 (Red lens) (Stop lamp)

COLOR REQUIREMENT : RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.335$ (yellow boundary)

$y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS

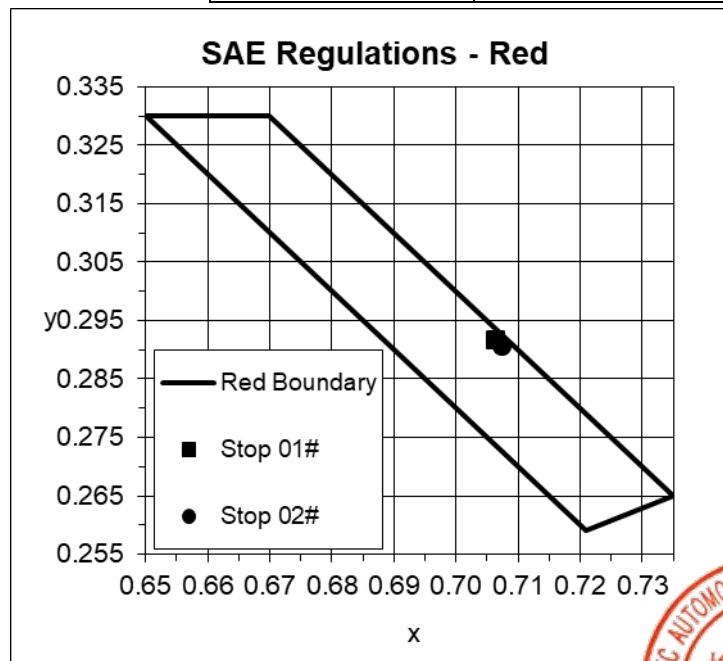
TEST PERFORMED BY : Cao Wei

DATE : June 19, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

| | | | |
|-----------|----------|--------------|--------------|
| RESULTS : | HV point | Coordinate x | Coordinate y |
| | Stop 01# | 0.7063 | 0.2916 |
| | Stop 02# | 0.7073 | 0.2906 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF739(Smoke Lens) (Stop lamp)

COLOR REQUIREMENT : RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.335$ (yellow boundary)

$y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS

TEST PERFORMED BY : Cao Wei

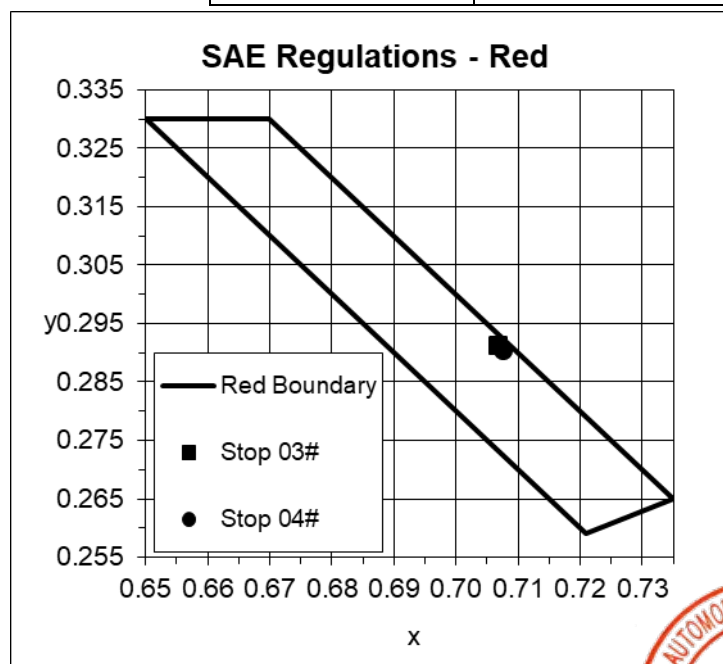
DATE : June 20, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

RESULTS :

| HV point | Coordinate x | Coordinate y |
|----------|--------------|--------------|
| Stop 03# | 0.7067 | 0.2913 |
| Stop 04# | 0.7076 | 0.2903 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF738(Red lens) (Tail Lamp)

COLOR REQUIREMENT : RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.335$ (yellow boundary)

$y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS

TEST PERFORMED BY : Cao Wei

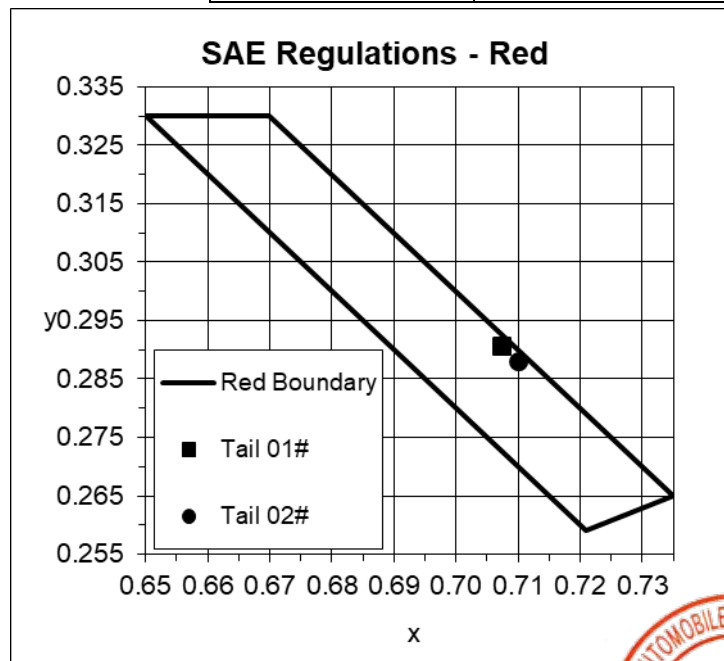
DATE : June 19, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

RESULTS :

| HV point | Coordinate x | Coordinate y |
|----------|--------------|--------------|
| Tail 01# | 0.7074 | 0.2905 |
| Tail 02# | 0.7100 | 0.2879 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF739(Smoke Lens) (Tail Lamp)

COLOR REQUIREMENT : RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.335$ (yellow boundary)

$y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS

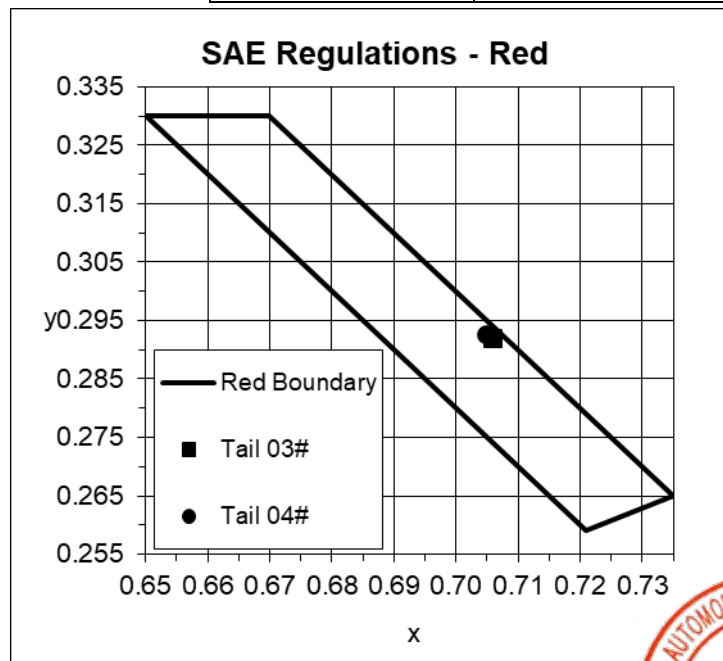
TEST PERFORMED BY : Cao Wei

DATE : June 20, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

| | | | |
|-----------|----------|--------------|--------------|
| RESULTS : | HV point | Coordinate x | Coordinate y |
| | Tail 03# | 0.7059 | 0.2920 |
| | Tail 04# | 0.7050 | 0.2925 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF738(Red lens) (Rear turn signal lamp)

COLOR REQUIREMENT : AMBER (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.390$ (red boundary)

$y = 0.790 - 0.670x$ (white boundary)

$y = x - 0.120$ (green boundary)

TEST METHOD : TRISTIMULOUS

TEST PERFORMED BY : Cao Wei

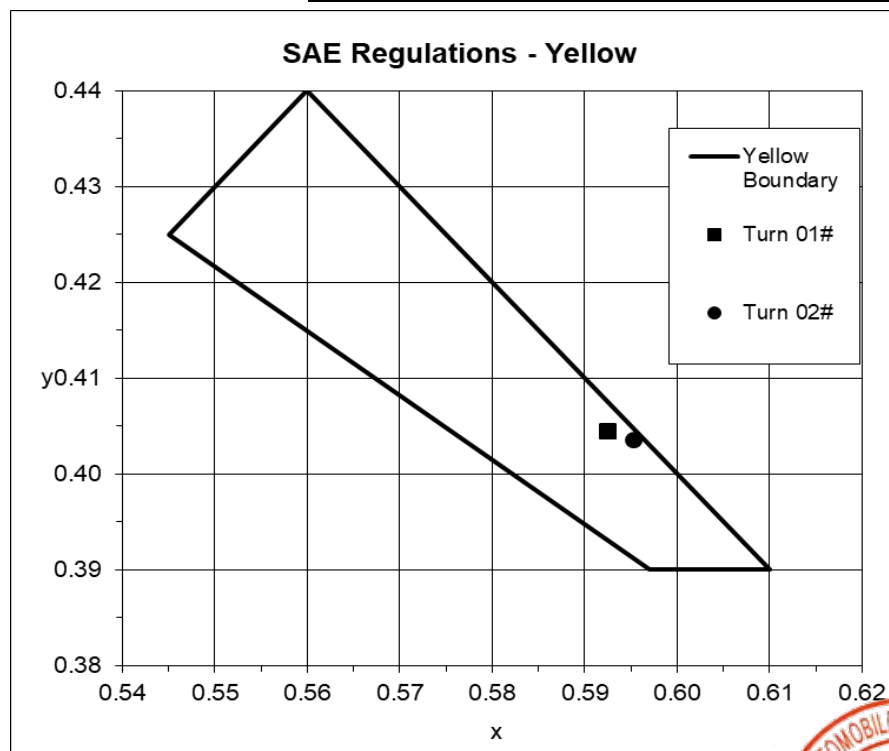
DATE : June 19, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

RESULTS :

| HV point | Coordinate x | Coordinate y |
|----------|--------------|--------------|
| Turn 01# | 0.5925 | 0.4045 |
| Turn 02# | 0.5953 | 0.4036 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF739(Smoke Lens) (Rear turn signal lamp)

COLOR REQUIREMENT : AMBER (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.390$ (red boundary)

$y = 0.790 - 0.670x$ (white boundary)

$y = x - 0.120$ (green boundary)

TEST METHOD : TRISTIMULOUS

TEST PERFORMED BY : Cao Wei

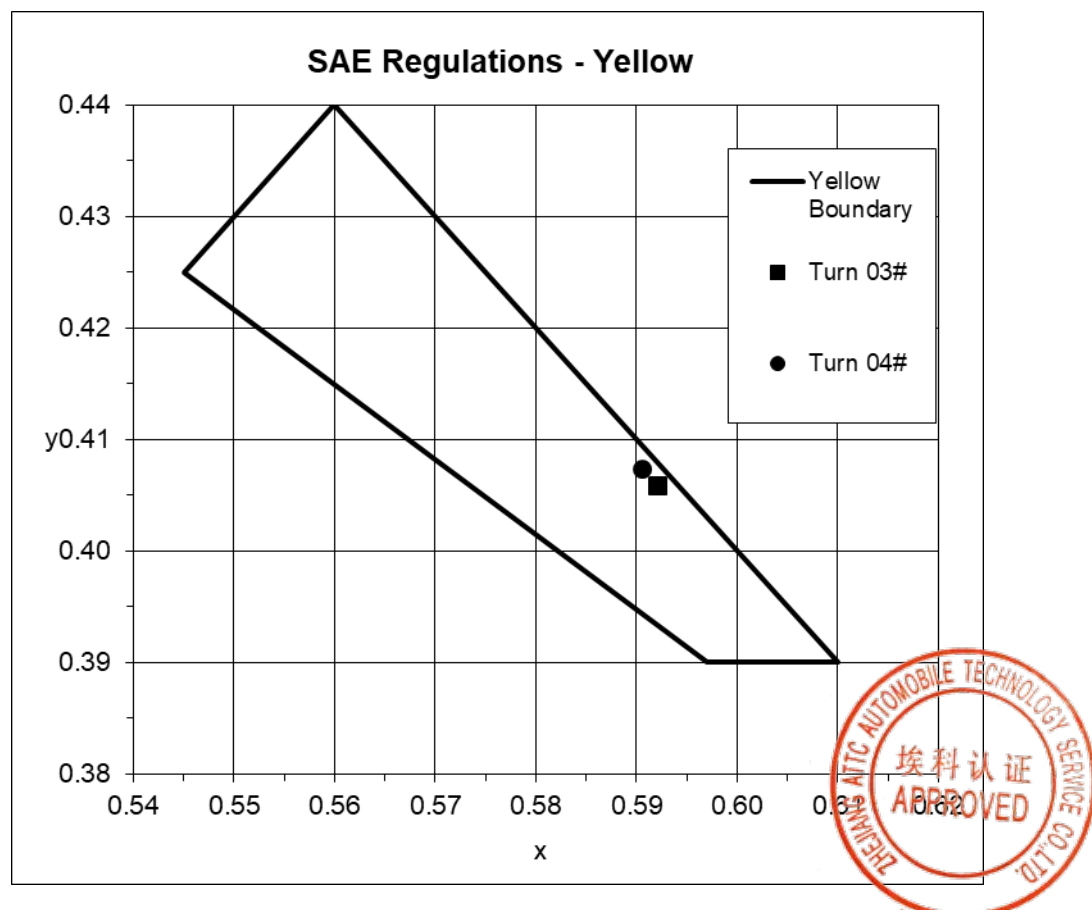
DATE : June 20, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

RESULTS :

| HV point | Coordinate x | Coordinate y |
|----------|--------------|--------------|
| Turn 03# | 0.5921 | 0.4058 |
| Turn 04# | 0.5906 | 0.4073 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF738(Red lens) (Backup Lamp)

COLOR REQUIREMENT : WHITE (CIE 1931)

the color of light emitted must fall within the following boundaries:

$x = 0.310$ (blue boundary)

$x = 0.500$ (yellow boundary)

$y = 0.150 + 0.640x$ (green boundary)

$y = 0.050 + 0.750x$ (purple boundary)

$y = 0.440$ (green boundary)

$y = 0.380$ (red boundary)

TEST METHOD : TRISTIMULOUS

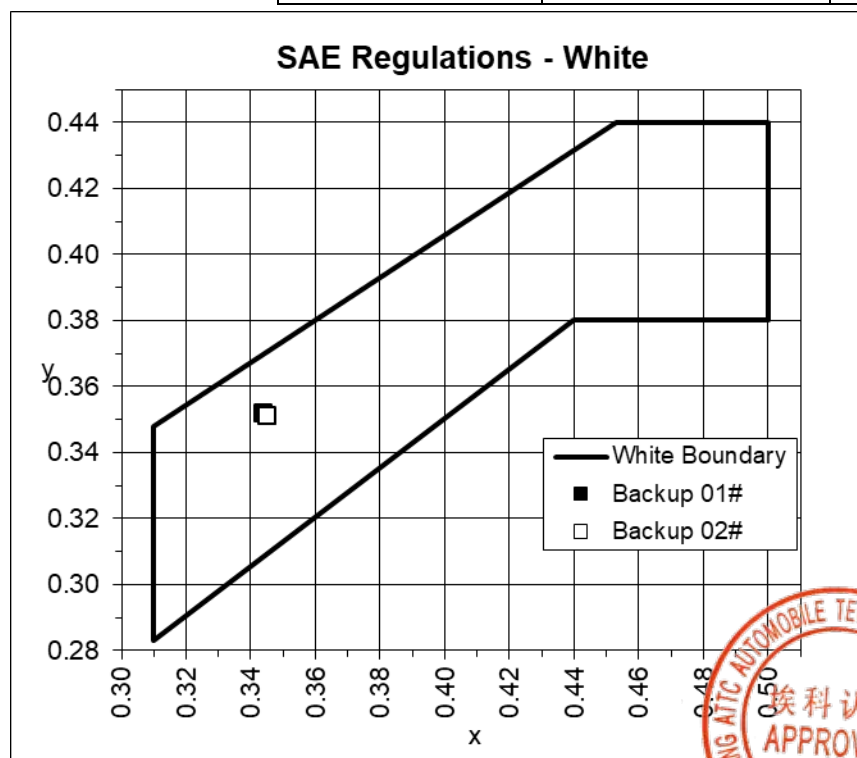
TEST PERFORMED BY : Cao Wei

DATE : June 19, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

| | | | |
|-----------|------------|--------------|--------------|
| RESULTS : | HV point | Coordinate x | Coordinate y |
| | Backup 01# | 0.3436 | 0.3521 |
| | Backup 02# | 0.3448 | 0.3514 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF739(Smoke Lens) (Backup Lamp)

COLOR REQUIREMENT : WHITE (CIE 1931)

the color of light emitted must fall within the following boundaries:

$x = 0.310$ (blue boundary)

$x = 0.500$ (yellow boundary)

$y = 0.150 + 0.640x$ (green boundary)

$y = 0.050 + 0.750x$ (purple boundary)

$y = 0.440$ (green boundary)

$y = 0.380$ (red boundary)

TEST METHOD : TRISTIMULOUS

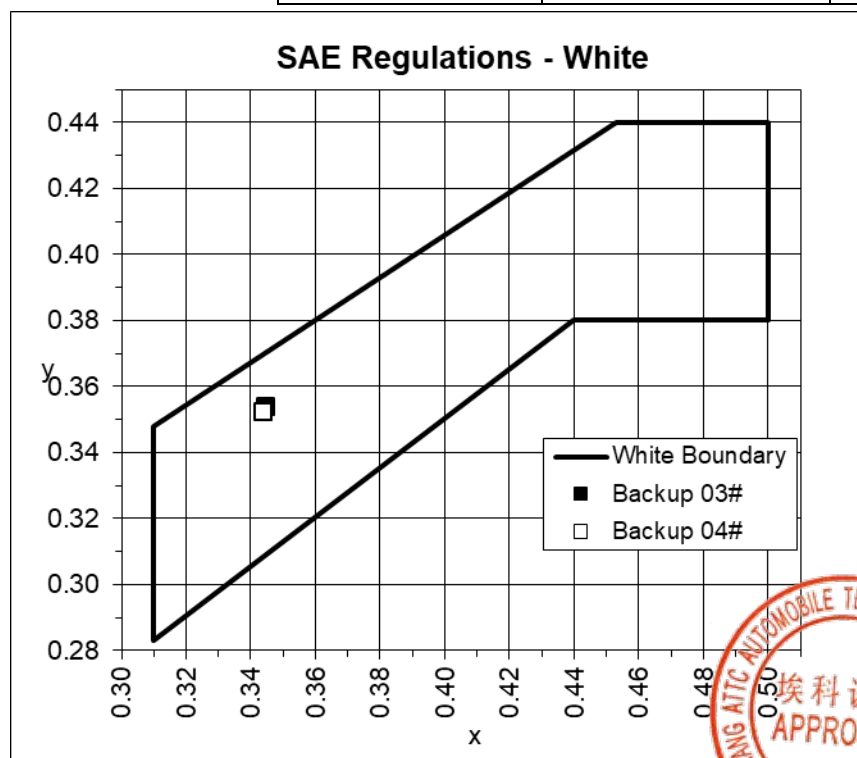
TEST PERFORMED BY : Cao Wei

DATE : June 20, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

| | | | |
|-----------|------------|--------------|--------------|
| RESULTS : | HV point | Coordinate x | Coordinate y |
| | Backup 03# | 0.3445 | 0.3539 |
| | Backup 04# | 0.3437 | 0.3524 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF738(Red lens) (Side Reflex Reflectors)

COLOR REQUIREMENT : RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.335$ (yellow boundary)

$y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS

TEST PERFORMED BY : Cao Wei

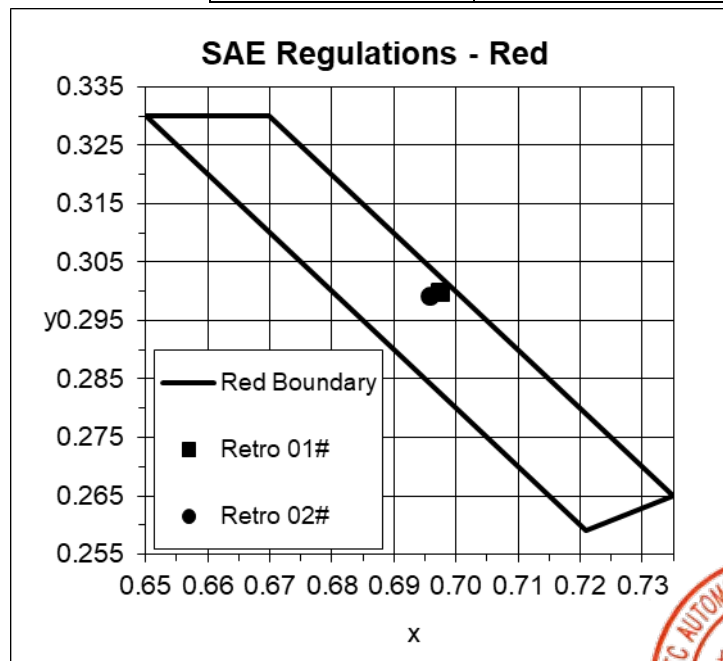
DATE : June 19, 2023

LAMP VOLTAGE : ---

TEST DISTANCE : 2m

RESULTS :

| HV point | Coordinate x | Coordinate y |
|-----------|--------------|--------------|
| Retro 01# | 0.6975 | 0.2998 |
| Retro 02# | 0.6958 | 0.2991 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF739(Smoke Lens) (Side Reflex Reflectors)

COLOR REQUIREMENT : RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.335$ (yellow boundary)

$y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS

TEST PERFORMED BY : Cao Wei

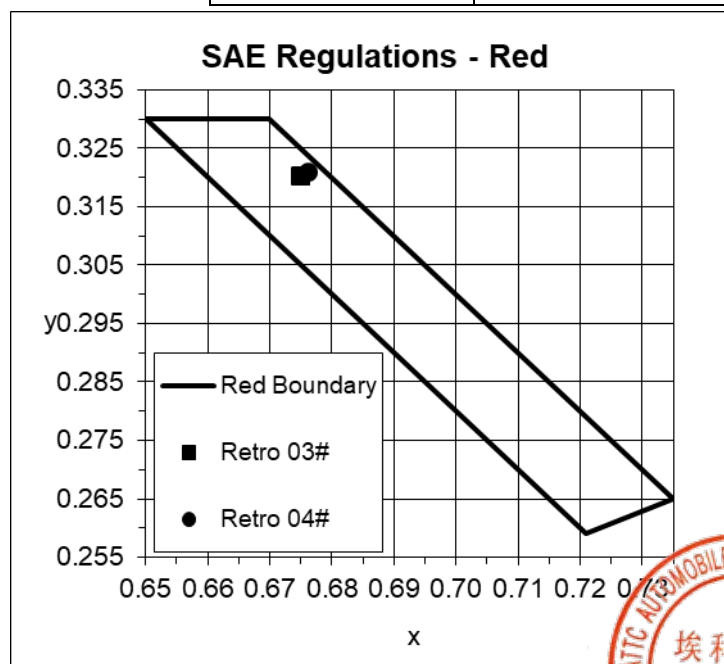
DATE : June 20, 2023

LAMP VOLTAGE : ---

TEST DISTANCE : 2m

RESULTS :

| HV point | Coordinate x | Coordinate y |
|-----------|--------------|--------------|
| Retro 03# | 0.6750 | 0.3203 |
| Retro 04# | 0.6763 | 0.3209 |



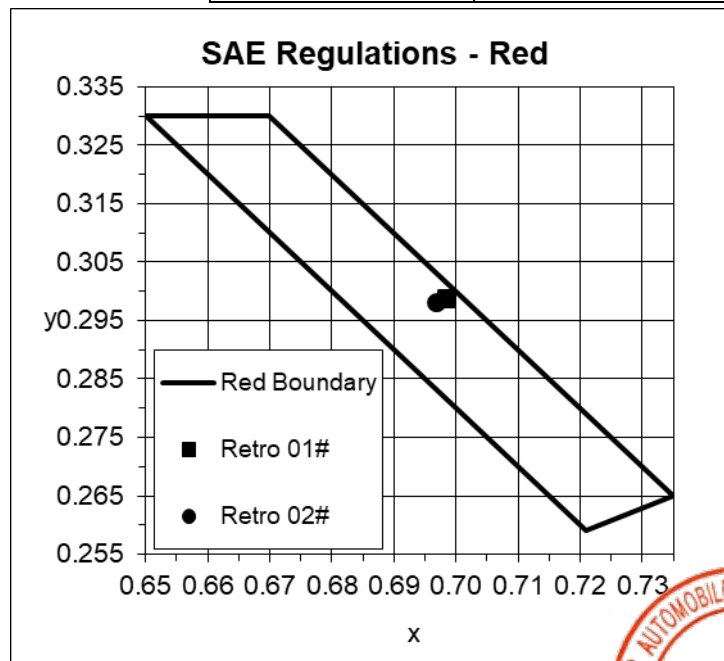
Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF738(Red lens) (Rear Reflex Reflectors)
COLOR REQUIREMENT : RED (CIE 1931)
the color of light emitted must fall within the following boundaries:
 $y = 0.335$ (yellow boundary)
 $y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS
TEST PERFORMED BY : Cao Wei
DATE : June 19, 2023

LAMP VOLTAGE : ---
TEST DISTANCE : 2m

| | | | |
|-----------|-----------|--------------|--------------|
| RESULTS : | HV point | Coordinate x | Coordinate y |
| | Retro 01# | 0.6985 | 0.2988 |
| | Retro 02# | 0.6968 | 0.2981 |



TEST COMPONENT

:

LF739(Smoke Lens) (Rear Reflex Reflectors)

COLOR REQUIREMENT

:

RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

y = 0.335 (yellow boundary)

y = 0.980 – x (purple boundary)

TEST METHOD

:

TRISTIMULOUS

TEST PERFORMED BY

:

Cao Wei

DATE

:

June 20, 2023

LAMP VOLTAGE

:

TEST DISTANCE

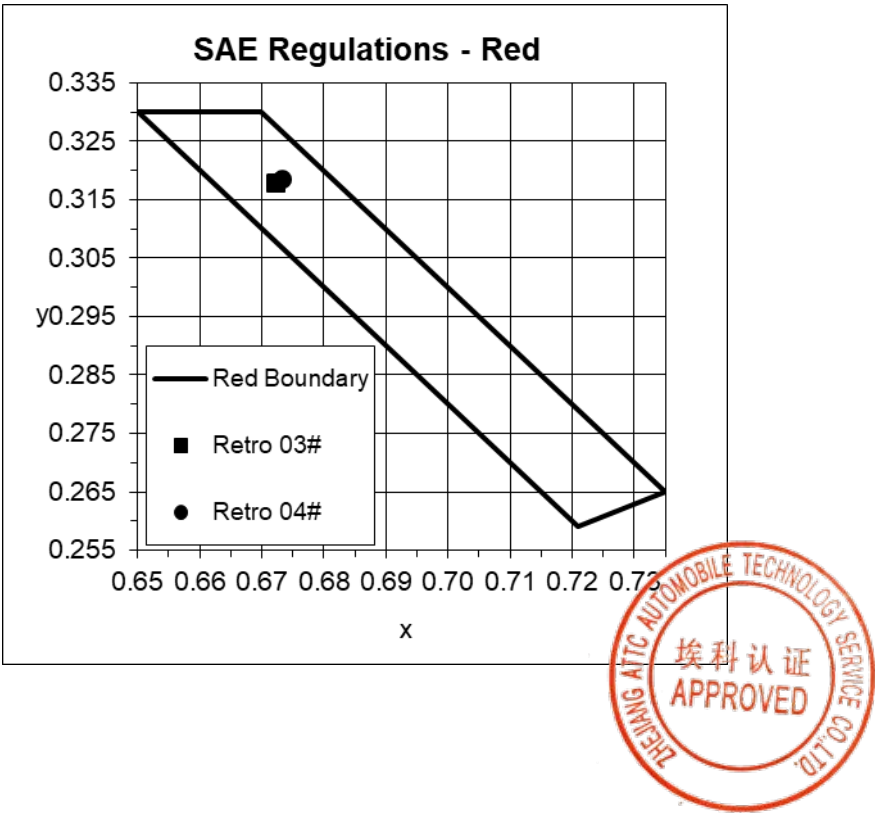
:

2m

RESULTS

:

| HV point | Coordinate x | Coordinate y |
|-----------|--------------|--------------|
| Retro 03# | 0.6722 | 0.3179 |
| Retro 04# | 0.6734 | 0.3186 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF738 (Red Lens) (Side Marker Lamp)

COLOR REQUIREMENT : RED (CIE 1931)

the color of light emitted must fall within the following boundaries:

$y = 0.335$ (yellow boundary)

$y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS

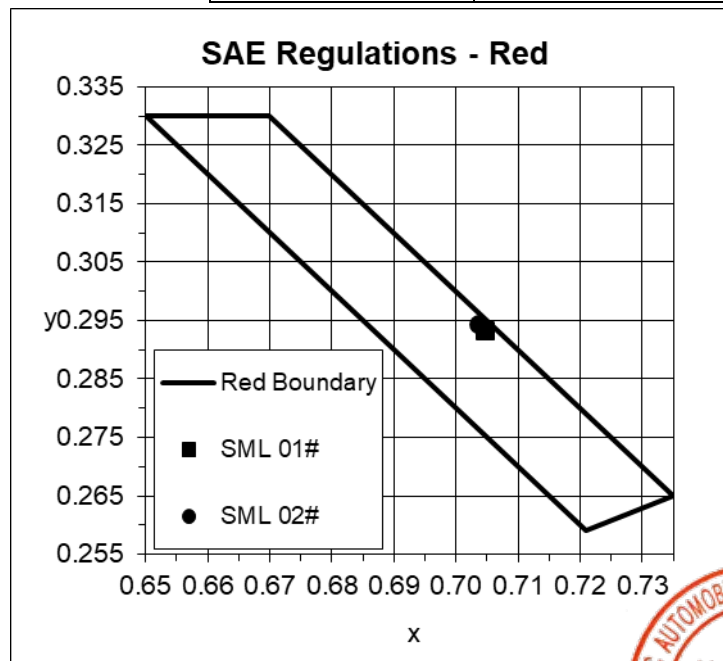
TEST PERFORMED BY : Cao Wei

DATE : June 19, 2023

LAMP VOLTAGE : 12.8V

TEST DISTANCE : 3.236m

| | | | |
|-----------|----------|--------------|--------------|
| RESULTS : | HV point | Coordinate x | Coordinate y |
| | SML 01# | 0.7047 | 0.2932 |
| | SML 02# | 0.7036 | 0.2944 |



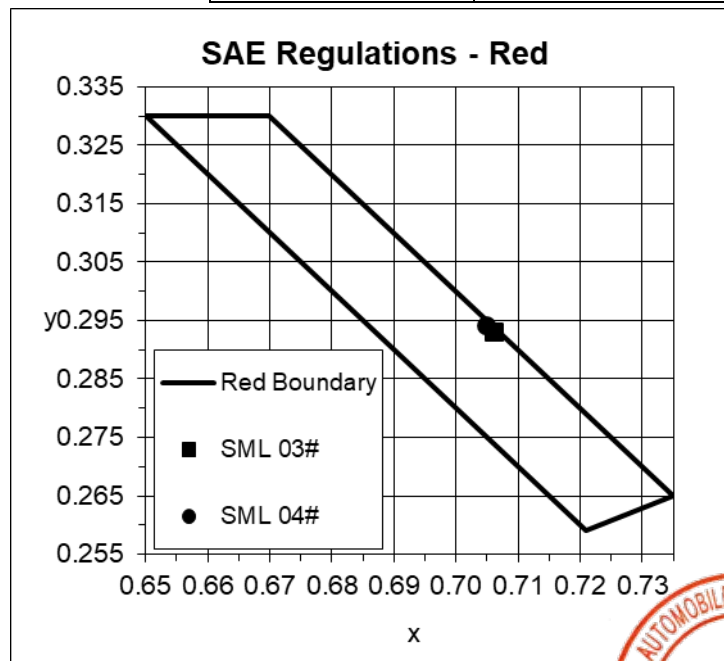
Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

TEST COMPONENT : LF739 (Smoke Lens) (Side Marker Lamp)
COLOR REQUIREMENT : RED (CIE 1931)
the color of light emitted must fall within the following boundaries:
 $y = 0.335$ (yellow boundary)
 $y = 0.980 - x$ (purple boundary)

TEST METHOD : TRISTIMULOUS
TEST PERFORMED BY : Cao Wei
DATE : June 20, 2023

LAMP VOLTAGE : 12.8V
TEST DISTANCE : 3.236m

| | | | |
|-----------|----------|--------------|--------------|
| RESULTS : | HV point | Coordinate x | Coordinate y |
| | SML 03# | 0.7061 | 0.2931 |
| | SML 04# | 0.7050 | 0.2942 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 3) EFFECTIVE PROJECTED LUMINOUS LENS AREA

TABLE IV—a.—EFFECTIVE PROJECTED LUMINOUS LENS AREA REQUIREMENTS

| Lighting device | Passenger cars, multipurpose passenger vehicles, trucks, trailers, and buses of less than 2032 MM in overall width—Minimum effective projected luminous lens area (sq mm) | | | Multipurpose passenger vehicles, trucks, trailers, and buses 2032mm or more in overall width— Minimum effective projected luminous lens area each lamp (sq mm) | Motorcycles— Minimum effective projected luminous lens area (sq mm) |
|-------------------|---|---|--------------------------------|--|---|
| | Single compartment lamp | Multiple compartment lamp or multiple lamps | | | |
| | | Each compartment or lamp | Combined compartments or lamps | | |
| Front turn signal | 2200 | --- | 2200 | 7500 | 2258 |
| Rear turn signal | 5000 | 2200 | 5000 | 7500 | 2258 |
| Stop lamp | 5000 | 2200 | 5000 | 7500 | ⁽¹⁾ 5000 |

(1) A motor driven cycle whose speed attainable in 1 mile is 30 mph or less may be equipped with a stop lamp whose minimum effective projected luminous lens area is not less than 2258 sq mm.

TEST COMPONENT : LF738/LF739
 REQUIREMENTS : Rear turn signal: 7500mm², Stop lamp: 7500mm²
 EPLLA : Rear turn signal: 8940mm², Stop lamp: 8940mm²
 :
 INSPECTION PERFORMED BY : Cao Wei
 DATE : June 19, 2023



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY

TEST COMPONENT : LF738(Red lens) (Stop lamp)
SAMPLE No : 01#, 02#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE : Toyota 4Runner 10-23
- NUMBER OF COMPARTMENTS : 3
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : 3

TEST PERFORMED BY : Cao Wei
DATE : June 19, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m
BULB TRADE NO. :
TEST VOLTAGE : 12.8V
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS




Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| STOP LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 01# | 174.5 | 167.3 | 1.043 | |
| 02# | 161.6 | 155.2 | 1.041 | |

| STOP LAMP PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION | | | | | | | | |
|---|-------------------------|--------------------|---|--------------|------------|---|------------|-------|
| (TABLE IX of FMVSS No. 108) | | | | | | | | |
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | |
| | | | | 3 | Sample 01# | | Sample 02# | 01# |
| 1 | 20L | 5U | 15 | 145.5 | 113.6 | 70 | 619.1 | 510.9 |
| | | 5D | 15 | 144.1 | 125.5 | | | |
| | 5L | 10U | 22 | 161.0 | 131.3 | | | |
| | | 10D ⁽³⁾ | 22 | 168.5 | 140.5 | | | |
| 2 | 10L | 5U | 40 | 168.3 | 130.6 | 135 | 511.2 | 404.3 |
| | | H | 55 | 173.7 | 136.3 | | | |
| | | 5D | 40 | 169.2 | 137.4 | | | |
| 3 | V | 5U | 95 | 170.0 | 146.9 | 520 | 856.9 | 756.7 |
| | 5L | H | 110 | 178.3 | 143.1 | | | |
| | V | | 110 | 174.5 | 161.6 | | | |
| | 5R | | 110 | 165.1 | 156.7 | | | |
| | V | 5D | 95 | 169.0 | 148.4 | | | |
| 4 | 10R | 5U | 40 | 149.0 | 145.0 | 135 | 463.2 | 445.7 |
| | | H | 55 | 156.9 | 151.0 | | | |
| | | 5D | 40 | 157.3 | 149.7 | | | |
| 5 | 5R | 10U | 22 | 144.7 | 137.0 | 70 | 562.1 | 524.3 |
| | | 10D ⁽³⁾ | 22 | 156.0 | 144.5 | | | |
| | 20R | 5U | 15 | 124.7 | 120.5 | | | |
| | | 5D | 15 | 136.7 | 122.3 | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽³⁾ | | | 420 | 182.3 | 165.7 | <div>ATTC AUTOMOBILE TECHNOLOGY SERVICE 埃科认证 APPROVED</div> | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| STOP LAMP PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION | | | | | | | | |
|---|-------------------------|--------------------|---|--------------|-------|---|----------|-------|
| (TABLE IX of FMVSS No. 108) | | | | | | | | |
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | |
| | | | | | | | | |
| 1 | 20L | 5U | 15 | 139.5 | 109.1 | 70 | 593.6 | 490.6 |
| | | 5D | 15 | 138.2 | 120.5 | | | |
| | 5L | 10U | 22 | 154.4 | 126.1 | | | |
| | | 10D ⁽³⁾ | 22 | 161.5 | 134.9 | | | |
| 2 | 10L | 5U | 40 | 161.4 | 125.4 | 135 | 490.1 | 388.3 |
| | | H | 55 | 166.5 | 130.9 | | | |
| | | 5D | 40 | 162.2 | 132.0 | | | |
| 3 | V | 5U | 95 | 163.0 | 141.1 | 520 | 821.5 | 726.7 |
| | 5L | H | 110 | 170.9 | 137.4 | | | |
| | V | | 110 | 167.3 | 155.2 | | | |
| | 5R | | 110 | 158.3 | 150.5 | | | |
| | V | 5D | 95 | 162.0 | 142.5 | | | |
| 4 | 10R | 5U | 40 | 142.9 | 139.3 | 135 | 444.1 | 428.1 |
| | | H | 55 | 150.4 | 145.0 | | | |
| | | 5D | 40 | 150.8 | 143.8 | | | |
| 5 | 5R | 10U | 22 | 138.7 | 131.6 | 70 | 539.0 | 503.6 |
| | | 10D ⁽³⁾ | 22 | 149.6 | 138.8 | | | |
| | 20R | 5U | 15 | 119.6 | 115.7 | | | |
| | | 5D | 15 | 131.1 | 117.5 | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽³⁾ | | | 420 | 174.8 | 159.1 |  | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF739(Smoke Lens) (Stop lamp)
SAMPLE No : 03#, 04#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : 3
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : 3

TEST PERFORMED BY : Cao Wei
DATE : June 20, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m
BULB TRADE NO. :
TEST VOLTAGE : 12.8V
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS




Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| STOP LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 03# | 149.6 | 142.6 | 1.049 | |
| 04# | 141.3 | 134.2 | 1.053 | |

| STOP LAMP PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION | | | | | | | | |
|---|-------------------------|--------------------|---|--------------|-------|---|----------|-------|
| (TABLE IX of FMVSS No. 108) | | | | | | | | |
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | |
| | | | | | | | | |
| 1 | 20L | 5U | 15 | 94.6 | 82.3 | 70 | 399.7 | 372.8 |
| | | 5D | 15 | 95.5 | 91.7 | | | |
| | 5L | 10U | 22 | 101.0 | 95.4 | | | |
| | | 10D ⁽³⁾ | 22 | 108.6 | 103.4 | | | |
| 2 | 10L | 5U | 40 | 107.6 | 95.5 | 135 | 330.9 | 296.6 |
| | | H | 55 | 112.7 | 100.1 | | | |
| | | 5D | 40 | 110.6 | 101.0 | | | |
| 3 | V | 5U | 95 | 104.1 | 106.2 | 520 | 635.6 | 608.5 |
| | 5L | H | 110 | 134.3 | 126.6 | | | |
| | V | | 110 | 149.6 | 141.3 | | | |
| | 5R | | 110 | 143.0 | 127.8 | | | |
| | V | | 5D | 95 | 104.6 | | | |
| 4 | 10R | 5U | 40 | 89.3 | 95.3 | 135 | 280.1 | 292.6 |
| | | H | 55 | 95.0 | 99.3 | | | |
| | | 5D | 40 | 95.8 | 98.0 | | | |
| 5 | 5R | 10U | 22 | 86.2 | 91.8 | 70 | 332.3 | 340.3 |
| | | 10D ⁽³⁾ | 22 | 96.2 | 98.8 | | | |
| | 20R | 5U | 15 | 71.0 | 74.2 | | | |
| | | 5D | 15 | 78.9 | 75.5 | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽³⁾ | | | 420 | 163.3 | 152.0 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| STOP LAMP PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION | | | | | | | | |
|---|-------------------------|--------------------|---|--------------|------------|---|------------|-------|
| (TABLE IX of FMVSS No. 108) | | | | | | | | |
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | |
| | | | | 3 | Sample 03# | | Sample 04# | 03# |
| 1 | 20L | 5U | 15 | 90.2 | 78.1 | 70 | 381.0 | 354.0 |
| | | 5D | 15 | 91.0 | 87.1 | | | |
| | 5L | 10U | 22 | 96.3 | 90.6 | | | |
| | | 10D ⁽³⁾ | 22 | 103.5 | 98.2 | | | |
| 2 | 10L | 5U | 40 | 102.6 | 90.7 | 135 | 315.4 | 281.7 |
| | | H | 55 | 107.4 | 95.1 | | | |
| | | 5D | 40 | 105.4 | 95.9 | | | |
| 3 | V | 5U | 95 | 99.2 | 100.9 | 520 | 605.8 | 577.9 |
| | 5L | H | 110 | 128.0 | 120.2 | | | |
| | V | | 110 | 142.6 | 134.2 | | | |
| | 5R | | 110 | 136.3 | 121.4 | | | |
| | V | 5D | 95 | 99.7 | 101.2 | | | |
| 4 | 10R | 5U | 40 | 85.1 | 90.5 | 135 | 267.0 | 277.9 |
| | | H | 55 | 90.6 | 94.3 | | | |
| | | 5D | 40 | 91.3 | 93.1 | | | |
| 5 | 5R | 10U | 22 | 82.2 | 87.2 | 70 | 316.8 | 323.2 |
| | | 10D ⁽³⁾ | 22 | 91.7 | 93.8 | | | |
| | 20R | 5U | 15 | 67.7 | 70.5 | | | |
| | | 5D | 15 | 75.2 | 71.7 | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽³⁾ | | | 420 | 155.7 | 144.4 |  | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF738(Red lens) (Tail lamp)

SAMPLE No : 01#, 02#

FMVSS No. 108 REQUIREMENT :

VEHICLE TYPE/SIZE :

- NUMBER OF COMPARTMENTS : 1

- NUMBER OF LAMPS : 1

- NUMBER OF LIGHTED SECTIONS : 1

TEST PERFORMED BY : Cao Wei

DATE : June 19, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m

BULB TRADE NO. :

TEST VOLTAGE : 12.8V

AIM NOTES : Reference center refer to the drawing on last page

OTHER NOTES : ---

RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| TAIL LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 01# | 17.45 | 16.81 | 1.038 | |
| 02# | 17.25 | 16.52 | 1.044 | |

| TAIL LAMP PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION | | | | | | | | | |
|---|----------------------------|-----|-----------------------------------|---------|-------------------|------------|--|----------|-------|
| (TABLE VIII of FMVSS No. 108) | | | | | | | | | |
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY(cd) | | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | | Calculated result | | Required Minimum | Measured | |
| | | | 1 | | Sample 01# | Sample 02# | | 01# | 02# |
| | | | MINIMUM | MAXIMUM | | | | | |
| 1 | 20L | 5U | 0.3 | 18 | 14.19 | 15.31 | 1.4 | 62.04 | 62.28 |
| | | 5D | 0.3 | - | 15.54 | 15.89 | | | |
| | 5L | 10U | 0.4 | 18 | 16.29 | 15.78 | | | |
| | | 10D | 0.4 | - | 16.02 | 15.30 | | | |
| 2 | 10L | 5U | 0.8 | 18 | 16.25 | 15.87 | 2.4 | 49.71 | 48.75 |
| | | H | 0.8 | 18 | 16.97 | 15.83 | | | |
| | | 5D | 0.8 | - | 16.49 | 17.05 | | | |
| 3 | V | 5U | 1.8 | 18 | 16.07 | 16.04 | 9.6 | 84.14 | 84.42 |
| | 5L | H | 2 | 18 | 16.64 | 17.08 | | | |
| | V | | 2 | 18 | 17.45 | 17.25 | | | |
| | 5R | | 2 | 18 | 17.30 | 17.14 | | | |
| | V | | 5D | 1.8 | - | 16.68 | | | |
| 4 | 10R | 5U | 0.8 | 18 | 15.99 | 16.81 | 2.4 | 46.23 | 49.67 |
| | | H | 0.8 | 18 | 15.01 | 16.78 | | | |
| | | 5D | 0.8 | - | 15.23 | 16.08 | | | |
| 5 | 5R | 10U | 0.4 | 18 | 16.29 | 15.40 | 1.4 | 60.35 | 56.08 |
| | | 10D | 0.4 | - | 14.93 | 13.99 | | | |
| | 20R | 5U | 0.3 | 18 | 15.01 | 14.11 | | | |
| | | 5D | 0.3 | - | 14.12 | 12.58 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| TAIL LAMP PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION (TABLE VIII of FMVSS No. 108) | | | | | | | | | |
|--|----------------------------|-----|-----------------------------------|---------|--------------|------------|--|----------|-------|
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY(cd) | | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | | Measurements | | Required Minimum | Measured | |
| | | | 1 | | Sample 01# | Sample 02# | | 01# | 02# |
| | | | MINIMUM | MAXIMUM | | | | | |
| 1 | 20L | 5U | 0.3 | 18 | 13.67 | 14.66 | 1.4 | 59.76 | 59.64 |
| | | 5D | 0.3 | - | 14.97 | 15.22 | | | |
| | 5L | 10U | 0.4 | 18 | 15.69 | 15.11 | | | |
| | | 10D | 0.4 | - | 15.43 | 14.65 | | | |
| 2 | 10L | 5U | 0.8 | 18 | 15.65 | 15.20 | 2.4 | 47.89 | 46.69 |
| | | H | 0.8 | 18 | 16.35 | 15.16 | | | |
| | | 5D | 0.8 | - | 15.89 | 16.33 | | | |
| 3 | V | 5U | 1.8 | 18 | 15.48 | 15.36 | 9.6 | 81.06 | 80.84 |
| | 5L | H | 2 | 18 | 16.03 | 16.36 | | | |
| | V | | 2 | 18 | 16.81 | 16.52 | | | |
| | 5R | | 2 | 18 | 16.67 | 16.41 | | | |
| | V | 5D | 1.8 | - | 16.07 | 16.19 | | | |
| 4 | 10R | 5U | 0.8 | 18 | 15.40 | 16.10 | 2.4 | 44.53 | 47.57 |
| | | H | 0.8 | 18 | 14.46 | 16.07 | | | |
| | | 5D | 0.8 | - | 14.67 | 15.40 | | | |
| 5 | 5R | 10U | 0.4 | 18 | 15.69 | 14.75 | 1.4 | 58.13 | 53.71 |
| | | 10D | 0.4 | - | 14.38 | 13.40 | | | |
| | 20R | 5U | 0.3 | 18 | 14.46 | 13.51 | | | |
| | | 5D | 0.3 | - | 13.60 | 12.05 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF739(Smoke Lens) (Tail lamp)
SAMPLE No : 03#, 04#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : 1
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : 1

TEST PERFORMED BY : Cao Wei
DATE : June 20, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m
BULB TRADE NO. :
TEST VOLTAGE : 12.8V
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| TAIL LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 03# | 16.47 | 15.76 | 1.045 | |
| 04# | 16.15 | 15.48 | 1.043 | |

| TAIL LAMP PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION (TABLE VIII of FMVSS No. 108) | | | | | | | | | |
|--|----------------------------|-----|-----------------------------------|---------|-------------------|------------|--|----------|-------|
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY(cd) | | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | | Calculated result | | Required Minimum | Measured | |
| | | | 1 | | Sample 03# | Sample 04# | | 03# | 04# |
| | | | MINIMUM | MAXIMUM | | | | | |
| 1 | 20L | 5U | 0.3 | 18 | 12.59 | 12.73 | 1.4 | 56.42 | 53.67 |
| | | 5D | 0.3 | - | 14.01 | 13.15 | | | |
| | 5L | 10U | 0.4 | 18 | 14.68 | 13.82 | | | |
| | | 10D | 0.4 | - | 15.14 | 13.97 | | | |
| 2 | 10L | 5U | 0.8 | 18 | 16.14 | 15.26 | 2.4 | 48.00 | 46.31 |
| | | H | 0.8 | 18 | 15.64 | 15.36 | | | |
| | | 5D | 0.8 | - | 16.22 | 15.69 | | | |
| 3 | V | 5U | 1.8 | 18 | 15.11 | 15.53 | 9.6 | 79.58 | 79.36 |
| | 5L | H | 2 | 18 | 16.32 | 15.99 | | | |
| | V | | 2 | 18 | 16.47 | 16.15 | | | |
| | 5R | | 2 | 18 | 16.23 | 15.94 | | | |
| | V | | 5D | 1.8 | - | 15.45 | | | |
| 4 | 10R | 5U | 0.8 | 18 | 14.69 | 14.46 | 2.4 | 43.75 | 42.93 |
| | | H | 0.8 | 18 | 14.39 | 14.44 | | | |
| | | 5D | 0.8 | - | 14.67 | 14.03 | | | |
| 5 | 5R | 10U | 0.4 | 18 | 12.15 | 15.98 | 1.4 | 49.14 | 51.14 |
| | | 10D | 0.4 | - | 12.74 | 15.25 | | | |
| | 20R | 5U | 0.3 | 18 | 12.81 | 9.95 | | | |
| | | 5D | 0.3 | - | 11.44 | 9.96 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| TAIL LAMP PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION (TABLE VIII of FMVSS No. 108) | | | | | | | | | |
|--|----------------------------|-----|-----------------------------------|---------|--------------|------------|--|----------|-------|
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY(cd) | | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | | Measurements | | Required Minimum | Measured | |
| | | | 1 | | Sample 03# | Sample 04# | | 03# | 04# |
| | | | MINIMUM | MAXIMUM | | | | | |
| 1 | 20L | 5U | 0.3 | 18 | 12.05 | 12.20 | 1.4 | 54.00 | 51.44 |
| | | 5D | 0.3 | - | 13.41 | 12.60 | | | |
| | 5L | 10U | 0.4 | 18 | 14.05 | 13.25 | | | |
| | | 10D | 0.4 | - | 14.49 | 13.39 | | | |
| 2 | 10L | 5U | 0.8 | 18 | 15.44 | 14.63 | 2.4 | 45.93 | 44.39 |
| | | H | 0.8 | 18 | 14.97 | 14.72 | | | |
| | | 5D | 0.8 | - | 15.52 | 15.04 | | | |
| 3 | V | 5U | 1.8 | 18 | 14.46 | 14.89 | 9.6 | 76.15 | 76.08 |
| | 5L | H | 2 | 18 | 15.62 | 15.33 | | | |
| | V | | 2 | 18 | 15.76 | 15.48 | | | |
| | 5R | | 2 | 18 | 15.53 | 15.28 | | | |
| | V | 5D | 1.8 | - | 14.78 | 15.10 | | | |
| 4 | 10R | 5U | 0.8 | 18 | 14.06 | 13.86 | 2.4 | 41.87 | 41.15 |
| | | H | 0.8 | 18 | 13.77 | 13.84 | | | |
| | | 5D | 0.8 | - | 14.04 | 13.45 | | | |
| 5 | 5R | 10U | 0.4 | 18 | 11.63 | 15.32 | 1.4 | 47.03 | 49.03 |
| | | 10D | 0.4 | - | 12.19 | 14.62 | | | |
| | 20R | 5U | 0.3 | 18 | 12.26 | 9.54 | | | |
| | | 5D | 0.3 | - | 10.95 | 9.55 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF738(Red lens) (Rear turn signal lamp)

SAMPLE No : 01#, 02#

FMVSS No. 108 REQUIREMENT :

VEHICLE TYPE/SIZE :

- NUMBER OF COMPARTMENTS : 3

- NUMBER OF LAMPS : 1

- NUMBER OF LIGHTED SECTIONS : 3

TEST PERFORMED BY : Cao Wei

DATE : June 19, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m

BULB TRADE NO. :

TEST VOLTAGE : 12.8V

AIM NOTES : Reference center refer to the drawing on last
page

OTHER NOTES : ---

RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| REAR (AMBER) TURN SIGNAL LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 01# | 249.5 | 237.2 | 1.052 | |
| 02# | 240.7 | 229.4 | 1.049 | |

| REAR (AMBER) TURN SIGNAL LAMP PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION (TABLE VII of FMVSS No. 108) ⁽⁶⁾ | | | | | | | | | | |
|--|-------------------------|--------------------|---|--------------|------------|---|------------|--------|-----|--|
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | | | |
| | | | | 3 | Sample 01# | | Sample 02# | 01# | 02# | |
| 1 | 20L ⁽⁶⁾ | 5U | 25 | 138.7 | 132.8 | 120 | 540.1 | 541.4 | | |
| | | 5D | 25 | 132.2 | 127.3 | | | | | |
| | 5L ⁽⁶⁾ | 10U | 35 | 134.8 | 146.1 | | | | | |
| | | 10D ⁽³⁾ | 35 | 134.4 | 135.2 | | | | | |
| 2 | 10L ⁽⁶⁾ | 5U | 65 | 137.1 | 125.4 | 220 | 414.5 | 405.6 | | |
| | | H | 90 | 139.8 | 136.8 | | | | | |
| | | 5D | 65 | 137.6 | 143.4 | | | | | |
| 3 | V | 5U | 150 | 200.5 | 186.7 | 825 | 1136.3 | 1080.2 | | |
| | 5L ⁽⁶⁾ | H | 175 | 239.2 | 234.9 | | | | | |
| | V | | 175 | 249.5 | 240.7 | | | | | |
| | 5R ⁽⁶⁾ | | 175 | 235.5 | 233.3 | | | | | |
| | V | 5D | 150 | 211.6 | 184.6 | | | | | |
| 4 | 10R ⁽⁶⁾ | 5U | 65 | 88.3 | 111.0 | 220 | 290.2 | 314.8 | | |
| | | H | 90 | 112.1 | 113.0 | | | | | |
| | | 5D | 65 | 89.8 | 90.8 | | | | | |
| 5 | 5R ⁽⁶⁾ | 10U | 35 | 92.8 | 73.9 | 120 | 312.7 | 288.0 | | |
| | | 10D ⁽³⁾ | 35 | 95.8 | 75.9 | | | | | |
| | 20R ⁽⁶⁾ | 5U | 25 | 61.5 | 69.7 | | | | | |
| | | 5D | 25 | 62.6 | 68.5 | | | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽⁴⁾ | | | 900 | 253.6 | 246.7 | | | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| REAR (AMBER) TURN SIGNAL LAMP PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION (TABLE VII of FMVSS No. 108) ⁽⁶⁾ | | | | | | | | |
|--|-------------------------|--------------------|---|--------------|------------|---|------------|--------|
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | |
| | | | | 3 | Sample 01# | | Sample 02# | 01# |
| 1 | 20L ⁽⁶⁾ | 5U | 25 | 131.9 | 126.6 | 120 | 513.6 | 516.0 |
| | | 5D | 25 | 125.7 | 121.3 | | | |
| | 5L ⁽⁶⁾ | 10U | 35 | 128.2 | 139.2 | | | |
| | | 10D ⁽³⁾ | 35 | 127.8 | 128.9 | | | |
| 2 | 10L ⁽⁶⁾ | 5U | 65 | 130.3 | 119.5 | 220 | 394.0 | 386.6 |
| | | H | 90 | 132.9 | 130.4 | | | |
| | | 5D | 65 | 130.8 | 136.7 | | | |
| 3 | V | 5U | 150 | 190.6 | 177.9 | 825 | 1080.3 | 1029.4 |
| | 5L ⁽⁶⁾ | H | 175 | 227.4 | 223.9 | | | |
| | V | | 175 | 237.2 | 229.4 | | | |
| | 5R ⁽⁶⁾ | | 175 | 223.9 | 222.3 | | | |
| | V | 5D | 150 | 201.2 | 175.9 | | | |
| 4 | 10R ⁽⁶⁾ | 5U | 65 | 83.9 | 105.8 | 220 | 275.9 | 300.0 |
| | | H | 90 | 106.6 | 107.7 | | | |
| | | 5D | 65 | 85.4 | 86.5 | | | |
| 5 | 5R ⁽⁶⁾ | 10U | 35 | 88.2 | 70.4 | 120 | 297.3 | 274.4 |
| | | 10D ⁽³⁾ | 35 | 91.1 | 72.3 | | | |
| | 20R ⁽⁶⁾ | 5U | 25 | 58.5 | 66.4 | | | |
| | | 5D | 25 | 59.5 | 65.3 | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽⁴⁾ | | | 900 | 241.1 | 235.1 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF739(Smoke Lens)
(Rear turn signal lamp)

SAMPLE No : 03#, 04#

FMVSS No. 108 REQUIREMENT :

VEHICLE TYPE/SIZE :

- NUMBER OF COMPARTMENTS : 3
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : 3

TEST PERFORMED BY : Cao Wei

DATE : June 20, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m

BULB TRADE NO. :

TEST VOLTAGE : 12.8V

AIM NOTES : Reference center refer to the drawing on last page

OTHER NOTES : ---

RESULTS : PASS



| |
|---|
| Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors) Reference standard: FMVSS 571.108 Report number: AT23XX1D66631, Date: June 29, 2023 |
|---|

| REAR (AMBER) TURN SIGNAL LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|--|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 03# | 213.5 | 203.9 | 1.047 | |
| 04# | 225.4 | 216.5 | 1.041 | |

| REAR (AMBER) TURN SIGNAL LAMP PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION (TABLE VII of FMVSS No. 108) ⁽⁶⁾ | | | | | | | | |
|--|-------------------------|--------------------|---|--------------|------------|---|------------|--------|
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | |
| | | | | 3 | Sample 03# | | Sample 04# | 03# |
| 1 | 20L ⁽⁶⁾ | 5U | 25 | 128.4 | 128.5 | 120 | 490.1 | 589.1 |
| | | 5D | 25 | 124.8 | 127.8 | | | |
| | 5L ⁽⁶⁾ | 10U | 35 | 117.5 | 164.1 | | | |
| | | 10D ⁽³⁾ | 35 | 119.4 | 168.7 | | | |
| 2 | 10L ⁽⁶⁾ | 5U | 65 | 118.9 | 146.2 | 220 | 362.8 | 444.2 |
| | | H | 90 | 122.1 | 148.8 | | | |
| | | 5D | 65 | 121.8 | 149.2 | | | |
| 3 | V | 5U | 150 | 187.1 | 166.4 | 825 | 1014.3 | 1038.7 |
| | 5L ⁽⁶⁾ | H | 175 | 203.3 | 210.3 | | | |
| | V | | 175 | 213.5 | 225.4 | | | |
| | 5R ⁽⁶⁾ | | 175 | 211.9 | 223.5 | | | |
| | V | 5D | 150 | 198.5 | 213.1 | | | |
| 4 | 10R ⁽⁶⁾ | 5U | 65 | 100.2 | 139.3 | 220 | 324.5 | 423.4 |
| | | H | 90 | 112.6 | 142.4 | | | |
| | | 5D | 65 | 111.7 | 141.7 | | | |
| 5 | 5R ⁽⁶⁾ | 10U | 35 | 92.7 | 130.2 | 120 | 336.2 | 513.1 |
| | | 10D ⁽³⁾ | 35 | 86.1 | 135.1 | | | |
| | 20R ⁽⁶⁾ | 5U | 25 | 77.9 | 126.3 | | | |
| | | 5D | 25 | 79.5 | 121.5 | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽⁴⁾ | | | 900 | 215.2 | 234.1 | <div><div>120</div><div>336.2</div><div>513.1</div></div> | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| REAR (AMBER) TURN SIGNAL LAMP PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION (TABLE VII of FMVSS No. 108) ⁽⁶⁾ | | | | | | | | |
|--|-------------------------|--------------------|---|--------------|------------|---|------------|-------|
| GROUP NUMBER | TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽²⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | Lighted Sections | Measurements | | Required Minimum | Measured | |
| | | | | 3 | Sample 03# | | Sample 04# | 03# |
| 1 | 20L ⁽⁶⁾ | 5U | 25 | 122.6 | 123.4 | 120 | 468.0 | 565.8 |
| | | 5D | 25 | 119.2 | 122.8 | | | |
| | 5L ⁽⁶⁾ | 10U | 35 | 112.2 | 157.6 | | | |
| | | 10D ⁽³⁾ | 35 | 114.0 | 162.0 | | | |
| 2 | 10L ⁽⁶⁾ | 5U | 65 | 113.6 | 140.4 | 220 | 346.5 | 426.6 |
| | | H | 90 | 116.6 | 142.9 | | | |
| | | 5D | 65 | 116.3 | 143.3 | | | |
| 3 | V | 5U | 150 | 178.7 | 159.8 | 825 | 968.8 | 997.7 |
| | 5L ⁽⁶⁾ | H | 175 | 194.2 | 202.0 | | | |
| | V | | 175 | 203.9 | 216.5 | | | |
| | 5R ⁽⁶⁾ | | 175 | 202.4 | 214.7 | | | |
| | V | 5D | 150 | 189.6 | 204.7 | | | |
| 4 | 10R ⁽⁶⁾ | 5U | 65 | 95.7 | 133.8 | 220 | 309.9 | 406.7 |
| | | H | 90 | 107.5 | 136.8 | | | |
| | | 5D | 65 | 106.7 | 136.1 | | | |
| 5 | 5R ⁽⁶⁾ | 10U | 35 | 88.5 | 125.1 | 120 | 321.0 | 492.9 |
| | | 10D ⁽³⁾ | 35 | 82.2 | 129.8 | | | |
| | 20R ⁽⁶⁾ | 5U | 25 | 74.4 | 121.3 | | | |
| | | 5D | 25 | 75.9 | 116.7 | | | |
| MAXIMUM PHOTOMETRIC INTENSITY ⁽⁴⁾ | | | 900 | 205.6 | 224.8 | <div>埃科认证 APPROVED</div> | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF738(Red lens) (Backup lamp)
SAMPLE No : 01#, 02#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : 1
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : N/A

TEST PERFORMED BY : Cao Wei
DATE : June 19, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m
BULB TRADE NO. :
TEST VOLTAGE : 12.8V
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



| |
|---|
| Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors) Reference standard: FMVSS 571.108 Report number: AT23XX1D66631, Date: June 29, 2023 |
|---|

| BACKUP LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 01# | 275.7 | 263.5 | 1.046 | |
| 02# | 283.6 | 270.1 | 1.050 | |

| BACKUP LAMP PHOTOMETRIY RESULT AFTER 1 MINUTE OF OPERATION(TABLE XII of FMVSS No. 108) | | | | | | | | | |
|--|-------------------------|-----|--|---|----------|-------|---|----------|--------|
| GROUP NUMBER | TEST POINT (degrees) | | MAXIMUM PHOTOMETRIC INTENSITY (cd) ANY SINGLE LAMP | TWO LAMP SYSTEM -EACH LAMP | | | MEASURED | | |
| | | | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽⁴⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | | Required Minimum | Measured | | Required Minimum | Measured | |
| | | | | | 01# | 02# | | 01# | 02# |
| 1 ⁽²⁾⁽³⁾ | 45L | 5U | 300 | 15 | 40.4 | 25.7 | 45 | 92.3 | 75.7 |
| | | H | 300 | 15 | 33.4 | 28.7 | | | |
| | | 5D | - | 15 | 18.5 | 21.3 | | | |
| 2 ⁽²⁾⁽³⁾ | 30L | H | 300 | 25 | 224.1 | 225.4 | 50 | 353.1 | 354.7 |
| | | 5D | - | 25 | 129.0 | 129.3 | | | |
| 3 | 10L | 10U | 300 | 10 | 161.3 | 197.3 | 100 | 1335.7 | 1301.9 |
| | | 5U | 300 | 20 | 265.0 | 244.4 | | | |
| | V | 10U | 300 | 15 | 191.4 | 184.6 | | | |
| | | 5U | 300 | 25 | 243.2 | 273.4 | | | |
| | 10R | 10U | 300 | 10 | 192.9 | 154.6 | | | |
| | | 5U | 300 | 20 | 281.9 | 247.6 | | | |
| 4 | 10L | H | 300 | 50 | 283.7 | 283.2 | 360 | 1590.1 | 1576.0 |
| | | 5D | - | 50 | 236.6 | 266.2 | | | |
| | V | H | 300 | 80 | 275.7 | 283.6 | | | |
| | | 5D | - | 80 | 274.8 | 262.2 | | | |
| | 10R | H | 300 | 50 | 264.5 | 236.9 | | | |
| | | 5D | - | 50 | 254.8 | 243.9 | | | |
| 5 ⁽²⁾⁽³⁾ | 30R | H | 300 | 25 | 219.5 | 224.5 | 50 | 385.5 | 373.9 |
| | | 5D | - | 25 | 166.0 | 149.4 | | | |
| 6 ⁽²⁾⁽³⁾ | 45R | 5U | 300 | 15 | 26.8 | 64.6 | 45 | 84.6 | 166.8 |
| | | H | 300 | 15 | 32.6 | 72.3 | | | |
| | | 5D | - | 15 | 25.2 | 29.9 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

BACKUP LAMP PHOTOMETRIY RESULT AFTER 30 MINUTES OF OPERATION (TABLE XII of FMVSS No. 108)

| GROUP NUMBER | TEST POINT (degrees) | | MAXIMUM PHOTOMETRIC INTENSITY (cd) ANY SINGLE LAMP | TWO LAMP SYSTEM -EACH LAMP | | | MEASURED | | |
|---------------------|-------------------------|-----|--|---|----------|-------|---|----------|--------|
| | | | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽⁴⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | | Required Minimum | Measured | | Required Minimum | Measured | |
| | | | | | 01# | 02# | | 01# | 02# |
| 1 ⁽²⁾⁽³⁾ | 45L | 5U | 300 | 15 | 38.6 | 24.5 | 45 | 88.2 | 72.1 |
| | | H | 300 | 15 | 31.9 | 27.3 | | | |
| | | 5D | - | 15 | 17.7 | 20.3 | | | |
| 2 ⁽²⁾⁽³⁾ | 30L | H | 300 | 25 | 214.2 | 214.7 | 50 | 337.5 | 337.8 |
| | | 5D | - | 25 | 123.3 | 123.1 | | | |
| 3 | 10L | 10U | 300 | 10 | 154.2 | 187.9 | 100 | 1276.6 | 1239.9 |
| | | 5U | 300 | 20 | 253.3 | 232.8 | | | |
| | V | 10U | 300 | 15 | 182.9 | 175.8 | | | |
| | | 5U | 300 | 25 | 232.4 | 260.4 | | | |
| | 10R | 10U | 300 | 10 | 184.4 | 147.2 | | | |
| | | 5U | 300 | 20 | 269.4 | 235.8 | | | |
| 4 | 10L | H | 300 | 50 | 271.1 | 269.7 | 360 | 1519.6 | 1500.9 |
| | | 5D | - | 50 | 226.1 | 253.5 | | | |
| | V | H | 300 | 80 | 263.5 | 270.1 | | | |
| | | 5D | - | 80 | 262.6 | 249.7 | | | |
| | 10R | H | 300 | 50 | 252.8 | 225.6 | | | |
| | | 5D | - | 50 | 243.5 | 232.3 | | | |
| 5 ⁽²⁾⁽³⁾ | 30R | H | 300 | 25 | 209.8 | 213.8 | 50 | 368.5 | 356.1 |
| | | 5D | - | 25 | 158.7 | 142.3 | | | |
| 6 ⁽²⁾⁽³⁾ | 45R | 5U | 300 | 15 | 25.6 | 61.5 | 45 | 80.9 | 158.9 |
| | | H | 300 | 15 | 31.2 | 68.9 | | | |
| | | 5D | - | 15 | 24.1 | 28.5 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF739(Smoke Lens) (Backup lamp)
SAMPLE No : 03#, 04#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : 1
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : N/A

TEST PERFORMED BY : Cao Wei
DATE : June 20, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m
BULB TRADE NO. :
TEST VOLTAGE : 12.8V
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



| |
|---|
| Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors) Reference standard: FMVSS 571.108 Report number: AT23XX1D66631, Date: June 29, 2023 |
|---|

| BACKUP LAMP PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 03# | 252.9 | 239.9 | 1.054 | |
| 04# | 262.8 | 250.3 | 1.050 | |

| BACKUP LAMP PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION (TABLE XII of FMVSS No. 108) | | | | | | | | | |
|--|-------------------------|-----|--|---|----------|-------|---|----------|--------|
| GROUP NUMBER | TEST POINT (degrees) | | MAXIMUM PHOTOMETRIC INTENSITY (cd) ANY SINGLE LAMP | TWO LAMP SYSTEM -EACH LAMP | | | MEASURED | | |
| | | | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽⁴⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | | Required Minimum | Measured | | Required Minimum | Measured | |
| | | | | | 03# | 04# | | 03# | 04# |
| 1 ⁽²⁾⁽³⁾ | 45L | 5U | 300 | 15 | 78.3 | 53.8 | 45 | 183.5 | 138.2 |
| | | H | 300 | 15 | 72.9 | 52.4 | | | |
| | | 5D | - | 15 | 32.3 | 32.0 | | | |
| 2 ⁽²⁾⁽³⁾ | 30L | H | 300 | 25 | 235.7 | 248.2 | 50 | 381.0 | 440.7 |
| | | 5D | - | 25 | 145.3 | 192.5 | | | |
| 3 | 10L | 10U | 300 | 10 | 179.2 | 132.9 | 100 | 1360.4 | 1091.6 |
| | | 5U | 300 | 20 | 240.1 | 234.0 | | | |
| | V | 10U | 300 | 15 | 215.3 | 141.2 | | | |
| | | 5U | 300 | 25 | 255.5 | 243.3 | | | |
| | 10R | 10U | 300 | 10 | 206.2 | 122.8 | | | |
| | | 5U | 300 | 20 | 264.1 | 217.4 | | | |
| 4 | 10L | H | 300 | 50 | 270.2 | 222.2 | 360 | 1583.4 | 1477.1 |
| | | 5D | - | 50 | 268.2 | 240.0 | | | |
| | V | H | 300 | 80 | 252.9 | 262.8 | | | |
| | | 5D | - | 80 | 253.1 | 242.6 | | | |
| | 10R | H | 300 | 50 | 266.1 | 250.3 | | | |
| | | 5D | - | 50 | 272.9 | 259.2 | | | |
| 5 ⁽²⁾⁽³⁾ | 30R | H | 300 | 25 | 198.7 | 217.1 | 50 | 311.1 | 364.8 |
| | | 5D | - | 25 | 112.4 | 147.7 | | | |
| 6 ⁽²⁾⁽³⁾ | 45R | 5U | 300 | 15 | 32.9 | 60.2 | 45 | 90.3 | 157.8 |
| | | H | 300 | 15 | 33.4 | 68.0 | | | |
| | | 5D | - | 15 | 24.0 | 29.6 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

BACKUP LAMP PHOTOMETRIY RESULT AFTER 30 MINUTES OF OPERATION (TABLE XII of FMVSS No. 108)

| GROUP NUMBER | TEST POINT (degrees) | | MAXIMUM PHOTOMETRIC INTENSITY (cd) ANY SINGLE LAMP | TWO LAMP SYSTEM -EACH LAMP | | | MEASURED | | |
|---------------------|-------------------------|-----|--|---|----------|-------|---|----------|--------|
| | | | | MINIMUM PHOTOMETRIC INTENSITY ⁽¹⁾⁽⁴⁾ (cd) | | | GROUP MINIMUM PHOTOMETRIC INTENSITY (cd) | | |
| | | | | Required Minimum | Measured | | Required Minimum | Measured | |
| | | | | | 03# | 04# | | 03# | 04# |
| 1 ⁽²⁾⁽³⁾ | 45L | 5U | 300 | 15 | 74.3 | 51.2 | 45 | 174.1 | 131.6 |
| | | H | 300 | 15 | 69.2 | 49.9 | | | |
| | | 5D | - | 15 | 30.6 | 30.5 | | | |
| 2 ⁽²⁾⁽³⁾ | 30L | H | 300 | 25 | 223.6 | 236.4 | 50 | 361.4 | 419.7 |
| | | 5D | - | 25 | 137.8 | 183.3 | | | |
| 3 | 10L | 10U | 300 | 10 | 170.0 | 126.6 | 100 | 1290.5 | 1039.8 |
| | | 5U | 300 | 20 | 227.8 | 222.9 | | | |
| | V | 10U | 300 | 15 | 204.2 | 134.5 | | | |
| | | 5U | 300 | 25 | 242.4 | 231.7 | | | |
| | 10R | 10U | 300 | 10 | 195.6 | 117.0 | | | |
| | | 5U | 300 | 20 | 250.5 | 207.1 | | | |
| 4 | 10L | H | 300 | 50 | 256.3 | 211.6 | 360 | 1502.0 | 1406.9 |
| | | 5D | - | 50 | 254.4 | 228.6 | | | |
| | V | H | 300 | 80 | 239.9 | 250.3 | | | |
| | | 5D | - | 80 | 240.1 | 231.1 | | | |
| | 10R | H | 300 | 50 | 252.4 | 238.4 | | | |
| | | 5D | - | 50 | 258.9 | 246.9 | | | |
| 5 ⁽²⁾⁽³⁾ | 30R | H | 300 | 25 | 188.5 | 206.8 | 50 | 295.1 | 347.5 |
| | | 5D | - | 25 | 106.6 | 140.7 | | | |
| 6 ⁽²⁾⁽³⁾ | 45R | 5U | 300 | 15 | 31.2 | 57.3 | 45 | 85.7 | 150.3 |
| | | H | 300 | 15 | 31.7 | 64.8 | | | |
| | | 5D | - | 15 | 22.8 | 28.2 | | | |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)

Reference standard: FMVSS 571.108

Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF738(Red lens) (Side Reflex Reflectors)

SAMPLE No : 01#, 02#

FMVSS No. 108 REQUIREMENT :

VEHICLE TYPE/SIZE :

- NUMBER OF COMPARTMENTS : ---

- NUMBER OF LAMPS : 1

- NUMBER OF LIGHTED SECTIONS : ---

TEST PERFORMED BY : Cao Wei

DATE : June 19, 2023

PHOTOMETRIC TEST DISTANCE : 30.5 m

BULB TRADE NO. : ---

TEST VOLTAGE : ---

AIM NOTES : Reference center refer to the drawing on last page

OTHER NOTES : ---

RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

REFLEX REFLECTOR PHOTOMETRY REQUIREMENTS
 (TABLE XVI-a of FMVSS No. 108)

| OBSERVATION ANGLE (degrees) | ENTRANCE ANGLE (degrees) | MINIMUM PHOTOMETRIC INTENSITY | Measurements | |
|--------------------------------|-----------------------------|-------------------------------|--------------|------------|
| | | RED | | |
| | | (mcd/lx) | Sample 01# | Sample 02# |
| 0.2 | 0 | 420 | 476.53 | 504.58 |
| | 10U | 280 | 327.67 | 327.14 |
| | 10D ⁽¹⁾ | 280 | 329.06 | 315.67 |
| | 20L | 140 | 188.39 | 188.33 |
| | 20R | 140 | 176.76 | 200.91 |
| 1.5 | 0 | 6 | 23.76 | 27.22 |
| | 10U | 5 | 12.22 | 17.90 |
| | 10D ⁽¹⁾ | 5 | 15.64 | 19.88 |
| | 20L | 3 | 14.12 | 12.36 |
| | 20R | 3 | 7.20 | 20.58 |

(1) Where reflex reflectors are mounted with their axis of reference less than 750 mm. above the road surface photometry requirements below 5° down may be met at 5° down rather than at the required specified downward angle.



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF739(Smoke Lens) (Side Reflex Reflectors)
SAMPLE No : 03#, 04#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : ---
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : ---

TEST PERFORMED BY : Cao Wei
DATE : June 20, 2023

PHOTOMETRIC TEST DISTANCE : 30.5 m
BULB TRADE NO. : ---
TEST VOLTAGE : ---
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| REFLEX REFLECTOR PHOTOMETRY REQUIREMENTS (TABLE XVI-a of FMVSS No. 108) | | | | |
|--|-----------------------------|-------------------------------|--------------|------------|
| OBSERVATION ANGLE (degrees) | ENTRANCE ANGLE (degrees) | MINIMUM PHOTOMETRIC INTENSITY | Measurements | |
| | | RED | | |
| | | (mcd/lx) | Sample 03# | Sample 04# |
| 0.2 | 0 | 420 | 456.23 | 464.34 |
| | 10U | 280 | 289.08 | 318.15 |
| | 10D ⁽¹⁾ | 280 | 309.92 | 290.80 |
| | 20L | 140 | 172.35 | 166.67 |
| | 20R | 140 | 160.31 | 194.97 |
| 1.5 | 0 | 6 | 16.83 | 29.43 |
| | 10U | 5 | 7.47 | 19.29 |
| | 10D ⁽¹⁾ | 5 | 9.85 | 22.18 |
| | 20L | 3 | 8.29 | 13.97 |
| | 20R | 3 | 5.10 | 22.03 |

(1) Where reflex reflectors are mounted with their axis of reference less than 750 mm. above the road surface photometry requirements below 5° down may be met at 5° down rather than at the required specified downward angle.



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF738(Red lens) (Rear Reflex Reflectors)
SAMPLE No : 01#, 02#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : ---
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : ---

TEST PERFORMED BY : Cao Wei
DATE : June 19, 2023

PHOTOMETRIC TEST DISTANCE : 30.5 m
BULB TRADE NO. : ---
TEST VOLTAGE : ---
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

REFLEX REFLECTOR PHOTOMETRY REQUIREMENTS
 (TABLE XVI-a of FMVSS No. 108)

| OBSERVATION ANGLE (degrees) | ENTRANCE ANGLE (degrees) | MINIMUM PHOTOMETRIC INTENSITY | Measurements | |
|--------------------------------|-----------------------------|-------------------------------|--------------|------------|
| | | RED | | |
| | | (mcd/lx) | Sample 01# | Sample 02# |
| 0.2 | 0 | 420 | 498.02 | 470.98 |
| | 10U | 280 | 308.11 | 365.31 |
| | 10D ⁽¹⁾ | 280 | 324.42 | 300.22 |
| | 20L | 140 | 193.99 | 176.95 |
| | 20R | 140 | 186.96 | 217.16 |
| 1.5 | 0 | 6 | 16.88 | 21.30 |
| | 10U | 5 | 15.16 | 20.97 |
| | 10D ⁽¹⁾ | 5 | 11.41 | 20.53 |
| | 20L | 3 | 9.49 | 18.68 |
| | 20R | 3 | 8.90 | 18.15 |

(1) Where reflex reflectors are mounted with their axis of reference less than 750 mm. above the road surface photometry requirements below 5° down may be met at 5° down rather than at the required specified downward angle.



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF739(Smoke Lens) (Rear Reflex Reflectors)
SAMPLE No : 03#, 04#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : ---
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : ---

TEST PERFORMED BY : Cao Wei
DATE : June 20, 2023

PHOTOMETRIC TEST DISTANCE : 30.5 m
BULB TRADE NO. : ---
TEST VOLTAGE : ---
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| REFLEX REFLECTOR PHOTOMETRY REQUIREMENTS (TABLE XVI-a of FMVSS No. 108) | | | | |
|--|-----------------------------|-------------------------------|--------------|------------|
| OBSERVATION ANGLE (degrees) | ENTRANCE ANGLE (degrees) | MINIMUM PHOTOMETRIC INTENSITY | Measurements | |
| | | RED | | |
| | | (mcd/lx) | Sample 03# | Sample 04# |
| 0.2 | 0 | 420 | 452.65 | 437.00 |
| | 10U | 280 | 299.95 | 326.83 |
| | 10D ⁽¹⁾ | 280 | 309.39 | 304.20 |
| | 20L | 140 | 176.22 | 162.13 |
| | 20R | 140 | 160.77 | 154.10 |
| 1.5 | 0 | 6 | 13.69 | 15.08 |
| | 10U | 5 | 10.17 | 17.63 |
| | 10D ⁽¹⁾ | 5 | 8.89 | 18.54 |
| | 20L | 3 | 7.75 | 16.96 |
| | 20R | 3 | 7.14 | 14.85 |

(1) Where reflex reflectors are mounted with their axis of reference less than 750 mm. above the road surface photometry requirements below 5° down may be met at 5° down rather than at the required specified downward angle.



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF738 (Red Lens) (Side Marker Lamp)
SAMPLE No : 01#, 02#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : ---
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : ---

TEST PERFORMED BY : Cao Wei
DATE : June 19, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m
BULB TRADE NO. : ---
TEST VOLTAGE : 12.8V
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| SIDE MARKER LAMPS PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 01# | 13.750 | 13.260 | 1.037 | |
| 02# | 9.276 | 8.925 | 1.039 | |

| SIDE MARKER LAMPS PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION (TABLE X OF FMVSS No. 108) | | | | |
|---|--------------------|--|--------------|------------|
| TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽²⁾ (cd) | Measurements | |
| | | RED LAMPS | Sample 01# | Sample 02# |
| 10U | 45L ⁽¹⁾ | 0.25 | 13.605 | 7.502 |
| | V | 0.25 | 13.823 | 9.616 |
| | 45R ⁽¹⁾ | 0.25 | 6.499 | 14.395 |
| H | 45L ⁽¹⁾ | 0.25 | 13.089 | 6.453 |
| | V | 0.25 | 13.750 | 9.276 |
| | 45R ⁽¹⁾ | 0.25 | 5.443 | 14.197 |
| 10D ⁽³⁾ | 45L ⁽¹⁾ | 0.25 | 14.165 | 5.421 |
| | V | 0.25 | 12.985 | 8.680 |
| | 45R ⁽¹⁾ | 0.25 | 4.423 | 14.426 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SIDE MARKER LAMPS PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION
(TABLE X OF FMVSS No. 108)

| TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽²⁾ (cd) | Measurements | |
|----------------------|--------------------|--|--------------|------------|
| | | | Sample 01# | Sample 02# |
| 10U | 45L ⁽¹⁾ | 0.25 | 13.120 | 7.218 |
| | V | 0.25 | 13.330 | 9.252 |
| | 45R ⁽¹⁾ | 0.25 | 6.267 | 13.850 |
| H | 45L ⁽¹⁾ | 0.25 | 12.623 | 6.209 |
| | V | 0.25 | 13.260 | 8.925 |
| | 45R ⁽¹⁾ | 0.25 | 5.249 | 13.660 |
| 10D ⁽³⁾ | 45L ⁽¹⁾ | 0.25 | 13.660 | 5.216 |
| | V | 0.25 | 12.522 | 8.352 |
| | 45R ⁽¹⁾ | 0.25 | 4.265 | 13.880 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 4) PHOTOMETRY(CONTINUED)

TEST COMPONENT : LF739 (Smoke Lens) (Side Marker Lamp)
SAMPLE No : 03#, 04#
FMVSS No. 108 REQUIREMENT :
VEHICLE TYPE/SIZE :
- NUMBER OF COMPARTMENTS : ---
- NUMBER OF LAMPS : 1
- NUMBER OF LIGHTED SECTIONS : ---

TEST PERFORMED BY : Cao Wei
DATE : June 20, 2023

PHOTOMETRIC TEST DISTANCE : 3.16 m
BULB TRADE NO. : ---
TEST VOLTAGE : 12.8V
AIM NOTES : Reference center refer to the drawing on last page
OTHER NOTES : ---
RESULTS : PASS



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

| SIDE MARKER LAMPS PHOTOMETRY TEST RESULT UPON TIME (AT H=0/V=0 POINT) | | | | |
|---|------------------------|--------|------------|--------|
| SAMPLE NO. | TEST RESULT (unit: cd) | | RATIO | REMARK |
| | 1 MIN | 30 MIN | 1MIN/30MIN | |
| 03# | 7.991 | 7.686 | 1.040 | |
| 04# | 9.825 | 9.510 | 1.033 | |

| SIDE MARKER LAMPS PHOTOMETRY RESULT AFTER 1 MINUTE OF OPERATION (TABLE X OF FMVSS No. 108) | | | | |
|---|--------------------|--|--------------|------------|
| TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽²⁾ (cd) | Measurements | |
| | | RED LAMPS | Sample 03# | Sample 04# |
| 10U | 45L ⁽¹⁾ | 0.25 | 12.383 | 5.379 |
| | V | 0.25 | 7.680 | 10.168 |
| | 45R ⁽¹⁾ | 0.25 | 3.256 | 13.658 |
| H | 45L ⁽¹⁾ | 0.25 | 13.360 | 4.349 |
| | V | 0.25 | 7.991 | 9.825 |
| | 45R ⁽¹⁾ | 0.25 | 4.283 | 13.172 |
| 10D ⁽³⁾ | 45L ⁽¹⁾ | 0.25 | 11.800 | 3.335 |
| | V | 0.25 | 7.888 | 9.221 |
| | 45R ⁽¹⁾ | 0.25 | 2.196 | 13.617 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SIDE MARKER LAMPS PHOTOMETRY RESULT AFTER 30 MINUTES OF OPERATION
(TABLE X OF FMVSS No. 108)

| TEST POINT (degrees) | | MINIMUM PHOTOMETRIC INTENSITY ⁽²⁾ (cd) | Measurements | |
|----------------------|--------------------|--|--------------|------------|
| | | | RED LAMPS | |
| | | | Sample 03# | Sample 04# |
| 10U | 45L ⁽¹⁾ | 0.25 | 11.910 | 5.207 |
| | V | 0.25 | 7.387 | 9.842 |
| | 45R ⁽¹⁾ | 0.25 | 3.132 | 13.220 |
| H | 45L ⁽¹⁾ | 0.25 | 12.850 | 4.210 |
| | V | 0.25 | 7.686 | 9.510 |
| | 45R ⁽¹⁾ | 0.25 | 4.120 | 12.750 |
| 10D ⁽³⁾ | 45L ⁽¹⁾ | 0.25 | 11.350 | 3.228 |
| | V | 0.25 | 7.587 | 8.925 |
| | 45R ⁽¹⁾ | 0.25 | 2.112 | 13.180 |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 5) PHYSICAL TESTS

VIBRATION TEST

| | YES | NO |
|---|-----|----|
| Devices completed test without evidence of material physical weakness or failure of parts which affects proper function | ✓ | |
| No evidence of lens or reflector rotation which affects proper function | ✓ | |
| Necessary to rephotometer test | | ✓ |
| Additional photometric Data Sheet added to report | | ✓ |

MOISTURE TEST

| | YES | NO |
|--|-----|----|
| Devices accumulated less than 2 cc of Moisture | ✓ | |

DUST TEST

| | YES | NO |
|--|-----|----|
| At completion of test, Max Candlepower Readings of Devices were within 10% of those prior to Dust Test | ✓ | |
| Necessary to rephotometer test | | ✓ |
| Additional photometric Data Sheet added to report | | ✓ |

CORROSION TEST

| | YES | NO |
|---|-----|----|
| Device completed test without evidence of Corrosion | ✓ | |
| Necessary to rephotometer test | | ✓ |
| Additional photometric Data Sheet added to report | | ✓ |

PLASTIC OPTICAL MATERIAL TEST

| | YES | NO |
|--|-----|-----|
| Device completed test and meets applicable performance requirements specified in Appendix H of this test procedure | N/A | N/A |



Subjects: Rear Group Lamp (Stop, Tail, Rear Turn Signal Lamp, Backup Lamp, Side Marker Lamp, Side Reflex Reflectors, Rear Reflex Reflectors)
Reference standard: FMVSS 571.108
Report number: AT23XX1D66631, Date: June 29, 2023

SECTION 6) PHOTOGRAPHS OF TEST SAMPLE

Variant A: LF738 (Red Lens)

FRONT VIEW



SIDE VIEW



REAR VIEW



SECTION 6) PHOTOGRAPHS OF TEST SAMPLE (CONTINUED)

Variant B: LF739 (Smoke Lens)

FRONT VIEW



SIDE VIEW



REAR VIEW



SECTION 7) DRAWINGS

