

**Report No.** : 108-ISOQA-23-0739 **Rev.** : 00

**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



## SAFETY COMPLIANCE TESTING FOR FMVSS 108

Lamps, Reflective Devices, and Associated Equipment

\* \* \* \* \*

### ISOQA Technical Service Co., Ltd.

60, Yong Long Road,  
Da-Li, Taichung, 41257  
Taiwan



## FINAL REPORT

- This report becomes effective when the signatory signs it and affixed the seal to the document.
- No part of this report may be altered and may not be reproduced except in full without the written approval of the test laboratory.
- The specification and basic data of this test report are provided by the applicant. The applicant shall be responsible for it if the information provided is incorrect and effects the test results.
- The test results only apply to the test sample(s) received.
- The test samples are selected and provided by the applicant or manufacturer. The laboratory does not responsible for implement sampling.
- The decision rule is inherent in the requested specification or standard, a further consideration of the level of risk and MU is not necessary.



Signature of Responsible Laboratory Official

Title: Laboratory Manager

Approval Date

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Report Prepared By : Jenny Zhou  
Review By : Arthur Chang  
Approval By : Julie Wu

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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



## PRODUCT INFORMATION

|                               |  |
|-------------------------------|--|
| Test Component                | 5769-123   |
| Applicant                     | AAC Enterprises LLC<br>4401 Division St. Metairie, LA 70002,0, USA |
| Trade Mark                    | ORACLE   |
| Lens Material                 | Covestro Makrolon AL2447 Polycarbonate 550012 Clear #              |
| Coating of Exterior Lens      | UVHC 3000  |
| Inner Lens Material           | Covestro Makrolon AL2447 Polycarbonate 550012 Clear #              |
| Reflex Reflector Material     | ---  |
| Applicable Vehicle            | on Motor Vehicles  |
| Rated Voltage                 | 12 V   |
| Marking on Lens               | (Trade mark) DOT SAE VOR HL P I5 5769-123 24                       |
| Marking on Housing            | 12V  |
| Method of Mounting to Vehicle | bolted   |

\* Above-mentioned information is provided by the applicant ('---' = not applicable or no information provided)

| Functions   | Front Turn Signal Lamp | Parking Lamp | Headlamp - Lower Beam | Headlamp - Upper Beam |   |   |
|---|------------------------|--------------|-----------------------|-----------------------|---|---|
| Requirements  | FMVSS 108              | FMVSS 108    | FMVSS 108             | FMVSS 108             |   |   |
| SAE Standards for Reference                                     | SAE J588               | SAE J222     | ---                   | ---                   |   |   |
| Identification Code of SAE J759                                 | I5                     | P            | HL                    | HL                    |   |   |
| Number of Compartments or Lamps                                 | 1                      | 1            | 1                     | 1                     |   |   |
| Color of External Lens  | Clear                  | Clear        | Clear                 | Clear                 |   |   |
| Color of Inner Lens or Filter                                   | Clear                  | Clear        | Clear                 | Clear                 |   |   |
| Color of Light Emitted  | Yellow                 | White        | White                 | White                 |   |   |
| Light Source Designation  | LED x 72               | LED x 72     | LED x 6               | LED x 9               |   |   |
| Design Voltage  | 12.8 V                 | 12.8 V       | 12.8 V                | 12.8 V                |   |   |
| Rated Mean Spherical Candlepower                                | N/A                    | N/A          | N/A                   | N/A                   |   |   |
| Effective projected illuminated area of lens (mm <sup>2</sup> ) | 3200                   | N/A          | N/A                   | N/A                   |   |   |
| Method of determination   | Projected              | N/A          | N/A                   | N/A                   |   |   |
| Test Item   | Inspector              | Date         | Number of Tested      |                       |   |   |
| Physical Inspection   | Tan Liao               | 2024/1/19    | 2                     | 2                     | 2 | 2 |
| Photometry Test   | Tan Liao               | 2024/1/19    | 2                     | 2                     | 2 | 2 |
| Color Test  | Tan Liao               | 2024/1/19    | 2                     | 2                     | 2 | 2 |
| Moisture Test   | John Lai               | 2024/2/6     | 1                     | 1                     | 1 | 1 |
| Corrosion Test  | Elton Li               | 2023/9/28    | 1                     | 1                     | 1 | 1 |
| Vibration Test  | Elton Li               | 2023/9/26    | 1                     | 1                     | 1 | 1 |
| Dust Test   | John Lai               | 2024/2/2     | 1                     | 1                     | 1 | 1 |
| Abrasion Test   | John Lai               | 2024/2/5     | ---                   | ---                   | 1 | 1 |
| Chemical Resistance Test  | John Lai               | 2024/2/5     | ---                   | ---                   | 1 | 1 |
| Temp. Cycle Test  | John Lai               | 2024/2/16    | ---                   | ---                   | 1 | 1 |
| Internal Heat Test  | John Lai               | 2024/2/16    | ---                   | ---                   | 1 | 1 |
| Humidity Test   | John Lai               | 2024/2/20    | ---                   | ---                   | 1 | 1 |

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



## TURN SIGNAL LAMP TEST REPORT

|                          |                                   |
|--------------------------|-----------------------------------|
| Test Component           | 5769-123                          |
| Applicant                | AAC Enterprises LLC               |
| Test Laboratory          | ISOQA Technical Service Co., Ltd. |
| Test Date                | 2023/9/26 - 2024/2/20             |
| Report Number            | 108-ISOQA-23-0739                 |
| Number of devices tested | See below                         |
| Light source Designation | LED x 72                          |

### SUMMARY

| Test Description      | Test Results  |               |
|-----------------------|---------------|---------------|
|                       | Number Passed | Number Failed |
| - Physical Inspection | 2             | -             |
| - Photometry Test     | 2             | -             |
| - Color Test          | 2             | -             |
| - Dust Test           | 1             | -             |
| - Moisture Test       | 1             | -             |
| - Corrosion Test      | 1             | -             |
| - Vibration Test      | 1             | -             |

Remarks : \_\_\_\_\_

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : March 1, 2024

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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



**PHYSICAL INSPECTION**

Inspection Performed by : Tan Liao Date : 2024/1/19

|                          |   |      |  |
|--------------------------|---|------|--|
| Marking on Lens          | (Trade mark) DOT SAE VOR HL P I5 5769-123 24          |      |  |
| Marking on Housing       | 12V   |      |  |
| Lens Material            | Covestro Makrolon AL2447 Polycarbonate 550012 Clear # |      |  |
| Coating of External Lens | UVHC 3000   |      |  |
| Light Sources Used       | Trade No/ Designation                                 | LED  |  |
|                          | Quantity  | 72   |  |
|                          | Rated Voltage   | 12 V |  |

Remarks : \_\_\_\_\_

**EFFECTIVE PROJECTED LUMINOUS LENS AREA**

Test Performed by : Tan Liao Date : 2024/1/19

|   |  |       |        |
|---|--|-------|--------|
| Vehicle Type  | Passenger cars, multipurpose passenger vehicles, trucks, trailers, and buses of less than 2032 mm in overall width |       |        |
| Method of determination   | Projected  |       |        |
| Effective projected illuminated area of lens (mm <sup>2</sup> ) | Requirement  | Value | Result |
|   | 2200   | 3200  | PASSED |

Remarks : \_\_\_\_\_

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



### PHOTOMETRY TEST

Test Performed by : Tan Liao Date : 2024/1/19  
 Test distance(m) : 3.182 m Light Source Designation : LED x 72  
 Tested Voltage : 12.8 V Lighted Sections : 3

| Steady Burning at H-V<br>(according to SAE J1889) | Sample 1 |          |       | Sample 2 |          |       |
|---|----------|----------|-------|----------|----------|-------|
|   | 1 min.   | Steady   | Ratio | 1 min.   | Steady   | Ratio |
|   | 1452.000 | 1150.000 | 1.263 | 1515.000 | 1177.000 | 1.287 |

| Test Points | Zone | Rto.<br>Parking<br>Lamp | Minimum<br>(cd) | Maximum<br>(cd) | Sample 1 |                         | Sample 2 |                         |
|-------------|------|-------------------------|-----------------|-----------------|----------|-------------------------|----------|-------------------------|
|             |      |                         |                 |                 | Rto      | Measured <sup>(1)</sup> | Rto      | Measured <sup>(1)</sup> |
| 5U - 20L    | 1    | 3                       | 87.5            | -               | 33.5     | 504.900                 | 35.7     | 532.900                 |
| 5D - 20L    | 1    | -                       | 87.5            | -               | 38.0     | 509.000                 | 37.2     | 527.300                 |
| 10U - 5L    | 1    | 3                       | 137.5           | -               | 53.4     | 900.000                 | 51.2     | 928.000                 |
| 10D - 5L    | 1    | -                       | 137.5           | -               | 58.4     | 896.000                 | 49.7     | 834.000                 |
| 5U - 10L    | 2    | 3                       | 250             | -               | 54.2     | 912.000                 | 51.7     | 934.000                 |
| H - 10L     | 2    | 3                       | 350             | -               | 57.6     | 1001.000                | 53.8     | 994.000                 |
| 5D - 10L    | 2    | -                       | 250             | -               | 56.1     | 931.000                 | 54.2     | 959.000                 |
| 5U - V      | 3    | 5                       | 587.5           | -               | 58.1     | 1128.000                | 57.6     | 1132.000                |
| H - 5L      | 3    | 5                       | 687.5           | -               | 59.8     | 1096.000                | 58.6     | 1136.000                |
| H - V       | 3    | 5                       | 687.5           | -               | 62.7     | 1150.000                | 61.9     | 1177.000                |
| H - 5R      | 3    | 5                       | 687.5           | -               | 60.5     | 1106.000                | 59.9     | 1150.000                |
| 5D - V      | 3    | -                       | 587.5           | -               | 60.6     | 1103.000                | 60.4     | 1116.000                |
| 5U - 10R    | 4    | 3                       | 250             | -               | 54.5     | 976.000                 | 52.3     | 972.000                 |
| H - 10R     | 4    | 3                       | 350             | -               | 57.4     | 1024.000                | 54.7     | 1030.000                |
| 5D - 10R    | 4    | -                       | 250             | -               | 57.7     | 999.000                 | 54.2     | 971.000                 |
| 10U - 5R    | 5    | 3                       | 137.5           | -               | 52.5     | 909.000                 | 50.9     | 932.000                 |
| 10D - 5R    | 5    | -                       | 137.5           | -               | 57.6     | 878.000                 | 55.7     | 941.000                 |
| 5U - 20R    | 5    | 3                       | 87.5            | -               | 36.5     | 539.000                 | 33.7     | 501.300                 |
| 5D - 20R    | 5    | -                       | 87.5            | -               | 39.9     | 546.500                 | 35.1     | 484.400                 |
| Visibility  |      |                         | 0.3             | -               | -        | (0.814)                 | -        | (0.883)                 |

#### Zone Total Luminous Intensity

| Zone | Minimum (cd) | Sample 1 | Sample 2 |
|------|--------------|----------|----------|
| 1    | 450          | 2809.900 | 2822.200 |
| 2    | 850          | 2844.000 | 2887.000 |
| 3    | 3237.5       | 5583.000 | 5711.000 |
| 4    | 850          | 2999.000 | 2973.000 |
| 5    | 450          | 2872.500 | 2858.700 |

(1) The measured values at each individual test point shall not be less than 60% of the required minimum value shown for that individual test point location. The sum of the luminous intensity measurements at each test point within a zone shall not be less than the Zone Total Luminous Intensity shown.

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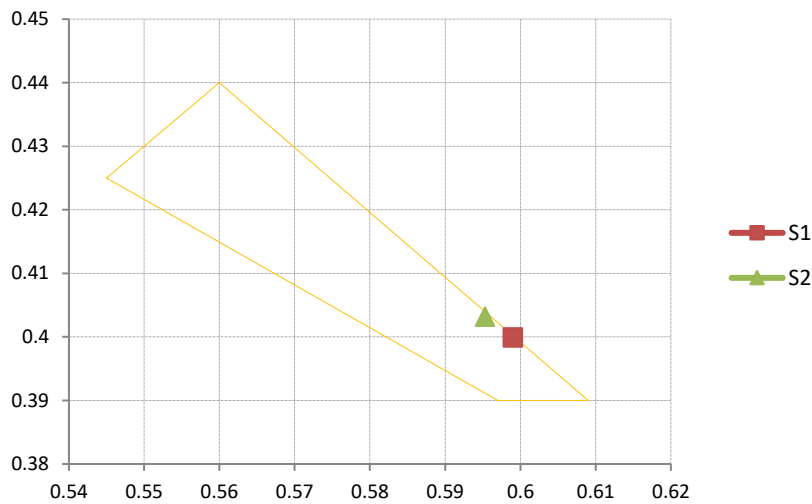
Test Component : 5769-123

Applicant : AAC Enterprises LLC

### COLOR TEST

Test Performed by : Tan Liao Date : 2024/1/19  
Test distance(m) : 3.182 m Light Source Designation : LED x 72  
Color of Light Emitted : Yellow

| Color emitted from HV point | Sample 1 |        | Sample 2 |
|-----------------------------|----------|--------|----------|
|                             | x=       | 0.5990 | 0.5953   |
|                             | y=       | 0.3999 | 0.4032   |



Remarks : \_\_\_\_\_

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



### MOISTURE TEST

Inspection Performed by : John Lai Date : 2024/2/6

| Requirement   | Yes | No |
|---|-----|----|
| The device(s) accumulated less than 2 cc of moisture. | x   |    |
| Necessary to rephotometer test                        |     | x  |
| Additional photometric data sheet added to report     |     | x  |

Remarks : \_\_\_\_\_

### DUST TEST

Inspection Performed by : John Lai Date : 2024/2/2

| Requirement   | Yes | No |
|---|-----|----|
| At completion of test, the maximum candlepower of the device(s) was within 10% of those prior to Dust Test. | x   |    |
| Necessary to rephotometer test  |     | x  |
| Additional photometric data sheet added to report   |     | x  |

| Maximum photometric intensity (cd) | Before the Test | After the Test | Ratio |
|------------------------------------|-----------------|----------------|-------|
|                                    | 1150.000        | 1106.000       | 3.8%  |

Remarks : \_\_\_\_\_



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**Applicant** : AAC Enterprises LLC



**CORROSION TEST**

Inspection Performed by : Elton Li Date : 2023/9/28

| Requirement  | Yes | No |
|--|-----|----|
| The device(s) completed the test without evidence of corrosion which could impair proper functioning of the device(s). | x   |    |
| Necessary to rephotometer test   |     | x  |
| Additional photometric data sheet added to report  |     | x  |

Remarks : \_\_\_\_\_

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



## PARKING LAMP TEST REPORT

|                          |                                   |
|--------------------------|-----------------------------------|
| Test Component           | 5769-123                          |
| Applicant                | AAC Enterprises LLC               |
| Test Laboratory          | ISOQA Technical Service Co., Ltd. |
| Test Date                | 2023/9/26 - 2024/2/20             |
| Report Number            | 108-ISOQA-23-0739                 |
| Number of devices tested | See below                         |
| Light source Designation | LED x 72                          |

### SUMMARY

| Test Description      | Test Results  |               |
|-----------------------|---------------|---------------|
|                       | Number Passed | Number Failed |
| - Physical Inspection | 2             | -             |
| - Photometry Test     | 2             | -             |
| - Color Test          | 2             | -             |
| - Dust Test           | 1             | -             |
| - Moisture Test       | 1             | -             |
| - Corrosion Test      | 1             | -             |
| - Vibration Test      | 1             | -             |

Remarks : \_\_\_\_\_

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : March 1, 2024

**Report No.** : 108-ISOQA-23-0739 **Rev.** : 00

**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



**PHYSICAL INSPECTION**

Inspection Performed by : Tan Liao Date : 2024/1/19

|                          |   |      |
|--------------------------|---|------|
| Marking on Lens          | (Trade mark) DOT SAE VOR HL P I5 5769-123 24          |      |
| Marking on Housing       | 12V   |      |
| Lens Material            | Covestro Makrolon AL2447 Polycarbonate 550012 Clear # |      |
| Coating of External Lens | UVHC 3000   |      |
| Light Sources Used       | Trade No/ Designation                                 | LED  |
|                          | Quantity  | 72   |
|                          | Rated Voltage   | 12 V |

Remarks : \_\_\_\_\_

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



### PHOTOMETRY TEST

Test Performed by : Tan Liao Date : 2024/1/19  
 Test distance(m) : 3.182 m Light Source Designation : LED x 72  
 Tested Voltage : 12.8 V

| Steady Burning at H-V<br>(according to SAE J1889) | Sample 1 |        |       | Sample 2 |        |       |
|---|----------|--------|-------|----------|--------|-------|
|   | 1 min.   | Steady | Ratio | 1 min.   | Steady | Ratio |
|   | 18.460   | 18.340 | 1.007 | 19.210   | 19.010 | 1.011 |

| Test Points               | Zone | Minimum<br>(cd) | Maximum<br>(cd) | Sample 1                | Sample 2                |
|---------------------------|------|-----------------|-----------------|-------------------------|-------------------------|
|                           |      |                 |                 | Measured <sup>(1)</sup> | Measured <sup>(1)</sup> |
| 5U - 20L                  | 1    | 0.4             | 125             | 15.090                  | 14.920                  |
| 5D - 20L                  | 1    | 0.4             | 250             | 13.400                  | 14.170                  |
| 10U - 5L                  | 1    | 0.8             | 125             | 16.840                  | 18.140                  |
| 10D - 5L                  | 1    | 0.8             | 250             | 15.340                  | 16.770                  |
| 5U - 10L                  | 2    | 0.8             | 125             | 16.840                  | 18.070                  |
| H - 10L                   | 2    | 1.4             | 125             | 17.380                  | 18.470                  |
| 5D - 10L                  | 2    | 0.8             | 250             | 16.600                  | 17.690                  |
| 5U - V                    | 3    | 2.8             | 125             | 19.400                  | 19.640                  |
| H - 5L                    | 3    | 3.6             | 125             | 18.330                  | 19.390                  |
| H - V                     | 3    | 4               | 125             | 18.340                  | 19.010                  |
| H - 5R                    | 3    | 3.6             | 125             | 18.290                  | 19.210                  |
| 5D - V                    | 3    | 2.8             | 250             | 18.200                  | 18.470                  |
| 5U - 10R                  | 4    | 0.8             | 125             | 17.900                  | 18.600                  |
| H - 10R                   | 4    | 1.4             | 125             | 17.850                  | 18.820                  |
| 5D - 10R                  | 4    | 0.8             | 250             | 17.320                  | 17.930                  |
| 10U - 5R                  | 5    | 0.8             | 125             | 17.330                  | 18.310                  |
| 10D - 5R                  | 5    | 0.8             | 250             | 15.240                  | 16.890                  |
| 5U - 20R                  | 5    | 0.4             | 125             | 14.780                  | 14.890                  |
| 5D - 20R                  | 5    | 0.4             | 250             | 13.680                  | 13.820                  |
| Visibility on or above HH |      | 0.05            | 125             | (0.077)<br>19.481       | (0.101)<br>19.771       |
| Visibility below HH       |      | 0.05            | 250             | (0.058)<br>18.621       | (0.069)<br>19.392       |

#### Zone Total Luminous Intensity

| Zone | Minimum (cd) | Sample 1 | Sample 2 |
|------|--------------|----------|----------|
| 1    | 2.4          | 60.670   | 64.000   |
| 2    | 3.0          | 50.820   | 54.230   |
| 3    | 16.8         | 92.560   | 95.720   |
| 4    | 3.0          | 53.070   | 55.350   |
| 5    | 2.4          | 61.030   | 63.910   |

(1) The measured values at each individual test point shall not be less than 60% of the required minimum value shown for that individual test point location. The sum of the luminous intensity measurements at each test point within a zone shall not be less than the Zone Total Luminous Intensity shown.

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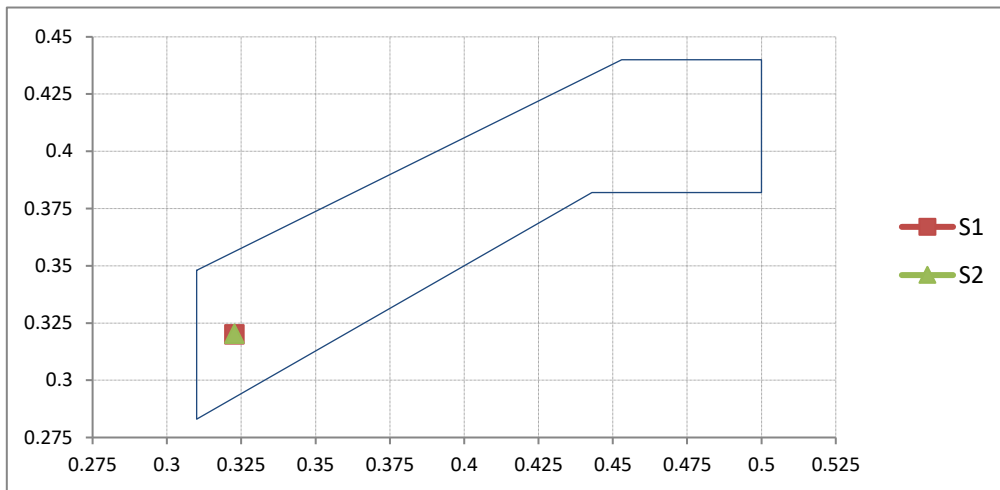
Test Component : 5769-123

Applicant : AAC Enterprises LLC

### COLOR TEST

Test Performed by : Tan Liao Date : 2024/1/19  
Test distance(m) : 3.182 m Light Source Designation : LED x 72  
Color of Light Emitted : White

| Color emitted from HV point | Sample 1 |        | Sample 2 |  |
|-----------------------------|----------|--------|----------|--|
|                             | x=       | 0.3227 | 0.3227   |  |
|                             | y=       | 0.3201 | 0.3203   |  |



Remarks :

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Applicant : AAC Enterprises LLC



### MOISTURE TEST

Inspection Performed by : John Lai Date : 2024/2/6

| Requirement   | Yes | No |
|---|-----|----|
| The device(s) accumulated less than 2 cc of moisture. | x   |    |
| Necessary to rephotometer test                        |     | x  |
| Additional photometric data sheet added to report     |     | x  |

Remarks : \_\_\_\_\_

### DUST TEST

Inspection Performed by : John Lai Date : 2024/2/2

| Requirement   | Yes | No |
|---|-----|----|
| At completion of test, the maximum candlepower of the device(s) was within 10% of those prior to Dust Test. | x   |    |
| Necessary to rephotometer test  |     | x  |
| Additional photometric data sheet added to report   |     | x  |

| Maximum photometric intensity (cd) | Before the Test | After the Test | Ratio |
|------------------------------------|-----------------|----------------|-------|
|                                    | 18.340          | 18.070         | 1.5%  |

Remarks : \_\_\_\_\_

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**Applicant** : AAC Enterprises LLC



**CORROSION TEST**

Inspection Performed by : Elton Li Date : 2023/9/28

| Requirement  | Yes | No |
|--|-----|----|
| The device(s) completed the test without evidence of corrosion which could impair proper functioning of the device(s). | x   |    |
| Necessary to rephotometer test   |     | x  |
| Additional photometric data sheet added to report  |     | x  |

Remarks : \_\_\_\_\_

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



## HEADLAMP TEST REPORT

|                          |  |
|--------------------------|--|
| Test Component           | 5769-123                                     |
| Applicant                | AAC Enterprises LLC                          |
| Test Laboratory          | ISOQA Technical Service Co., Ltd.            |
| Test Date                | 2023/9/26 - 2024/2/20                        |
| Report Number            | 108-ISOQA-23-0739                            |
| Number of devices tested | See below                                    |
| Light source Designation | Upper Beam - LED x 9<br>Lower Beam - LED x 6 |

### SUMMARY

| Test Description           | Test Results  |               |
|----------------------------|---------------|---------------|
|                            | Number Passed | Number Failed |
| - Physical Inspection      | 2             | -             |
| - Photometry Test          | 2             | -             |
| - Color Test               | 2             | -             |
| - Dust Test                | 1             | -             |
| - Corrosion Test           | 1             | -             |
| - Vibration Test           | 1             | -             |
| - Abrasion Test            | 1             | -             |
| - Chemical Resistance Test | 1             | -             |
| - Temp. Cycle Test         | 1             | -             |
| - Internal Heat Test       | 1             | -             |
| - Humidity Test            | 1             | -             |

Remarks : \_\_\_\_\_

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : March 1, 2024



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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



**PHYSICAL INSPECTION**

Inspection Performed by : Tan Liao Date : 2024/1/19

|                          |   |            |            |
|--------------------------|---|------------|------------|
| Marking on Lens          | (Trade mark) DOT SAE VOR HL P I5 5769-123 24          |            |            |
| Marking on Housing       | 12V   |            |            |
| Lens Material            | Covestro Makrolon AL2447 Polycarbonate 550012 Clear # |            |            |
| Coating of External Lens | UVHC 3000   |            |            |
| Light Sources Used       | Function  | Upper Beam | Lower Beam |
|                          | Trade No/ Designation                                 | LED        | LED        |
|                          | Quantity  | 9          | 6          |
|                          | Rated Voltage   | 12 V       | 12 V       |

Remarks : The light source(s) of the lower beam will remain activated when the upper beam is activated.

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**PHOTOMETRY TEST**

Test Performed by : Tan Liao Date : 2024/1/19  
 Test distance(m) : 25 m Test Voltage : 12.8 V  
 Light Source Designation : Upper Beam - LED x 9 / Lower Beam - LED x 6

| Vertical Aim        | Requirement          | Sample 1 | Sample 2 |
|---------------------|----------------------|----------|----------|
| Maximum Gradient    | G ≥ 0.13             | 0.16     | 0.13     |
| Maximum Inclination | within ± 0.20 degree | 0.01°    | 0.11°    |

| Steady Burning at H - V<br>(according to SAE J2650) | Sample 1  |           |       | Sample 2  |           |       |
|---|-----------|-----------|-------|-----------|-----------|-------|
|   | 1 min.    | Steady    | Ratio | 1 min.    | Steady    | Ratio |
|   | 47005.040 | 41193.180 | 1.141 | 53257.040 | 43663.970 | 1.220 |

**UB2 - Upper Beam Photometric Test Point Values**

| Test Points | Minimum<br>(cd) | Maximum<br>(cd) | Sample 1  | Sample 2  |
|-------------|-----------------|-----------------|-----------|-----------|
|             |                 |                 | Measured  | Measured  |
| 2U - V      | 1500            | -               | 7293.333  | 6336.027  |
| 1U - 3L     | 5000            | -               | 36721.750 | 33010.560 |
| 1U - 3R     | 5000            | -               | 50446.140 | 47435.180 |
| H - V       | 40000           | 75000           | 41193.180 | 43663.970 |
| H - 3L      | 15000           | -               | 40382.920 | 36701.740 |
| H - 3R      | 15000           | -               | 43143.800 | 39382.600 |
| H - 6L      | 5000            | -               | 29529.450 | 26428.460 |
| H - 6R      | 5000            | -               | 31179.970 | 25788.250 |
| H - 9L      | 3000            | -               | 10133.240 | 8252.640  |
| H - 9R      | 3000            | -               | 12003.840 | 9983.193  |
| H - 12L     | 1500            | -               | 1648.527  | 2125.680  |
| H - 12R     | 1500            | -               | 2827.905  | 2777.889  |
| 1.5D - V    | 5000            | -               | 20696.620 | 20106.430 |
| 1.5D - 9L   | 2000            | -               | 4792.533  | 4729.513  |
| 1.5D - 9R   | 2000            | -               | 6679.137  | 7458.386  |
| 2.5D - V    | 2500            | -               | 18335.870 | 19806.340 |
| 2.5D - 12L  | 1000            | -               | 2818.902  | 4476.432  |
| 2.5D - 12R  | 1000            | -               | 3827.224  | 4484.435  |
| 4D - V      | -               | 12000           | 2947.943  | 3443.102  |

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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



| Steady Burning at 1.5D - 2R<br>(according to SAE J2650) | Sample 1  |           |       | Sample 2  |           |       |
|---|-----------|-----------|-------|-----------|-----------|-------|
|   | 1 min.    | Steady    | Ratio | 1 min.    | Steady    | Ratio |
|   | 22267.120 | 21006.720 | 1.060 | 17835.710 | 17445.580 | 1.022 |

LB2V - Lower Beam Photometric Test Point Values

| Test Points      | Minimum<br>(cd) | Maximum<br>(cd) | Sample 1               | Sample 2            |
|------------------|-----------------|-----------------|------------------------|---------------------|
|                  |                 |                 | Measured               | Measured            |
| 10U to 90U       | -               | 125             | 48.352                 | 62.996              |
| 4U - 8L          | 64              | -               | 74.924                 | 101.032             |
| 4U - 8R          | 64              | -               | 85.027                 | 113.336             |
| 2U - 4L          | 135             | -               | 187.960                | 221.871             |
| 1.5U - 1R to 3R  | 200             | -               | 241.986                | 336.119             |
| 1.5U - 1R to R   | -               | 1400            | 326.254                | 371.211             |
| 1U - 1.5L to L   | -               | 700             | 426.949                | 446.801             |
| 0.5U - 1.5L to L | -               | 1000            | 668.955                | 817.144             |
| 0.5U - 1R to 3R  | 500             | 2700            | (1147.503)<br>1256.259 | (872.10)<br>900.744 |
| H - 4L           | 135             | -               | 5376.720               | 3610.155            |
| H - 8L           | 64              | -               | 2749.880               | 1240.397            |
| 0.6D - 1.3R      | 10000           | -               | 18475.910              | 12193.900           |
| 0.86D - V        | 4500            | -               | 20136.440              | 14804.740           |
| 0.86D - 3.5L     | 1800            | 12000           | 11293.610              | 10583.390           |
| 1.5D - 2R        | 15000           | -               | 21006.720              | 17445.580           |
| 2D - 9L          | 1250            | -               | 4296.375               | 5263.684            |
| 2D - 9R          | 1250            | -               | 6539.092               | 7469.390            |
| 2D - 15L         | 1000            | -               | 1483.475               | 1646.527            |
| 2D - 15R         | 1000            | -               | 3240.036               | 4105.313            |
| 4D - 4R          | -               | 12500           | 1901.608               | 1626.520            |
| 4D - 20L         | 300             | -               | 2537.812               | 3268.045            |
| 4D - 20R         | 300             | -               | 1605.514               | 1630.522            |

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### COLOR TEST

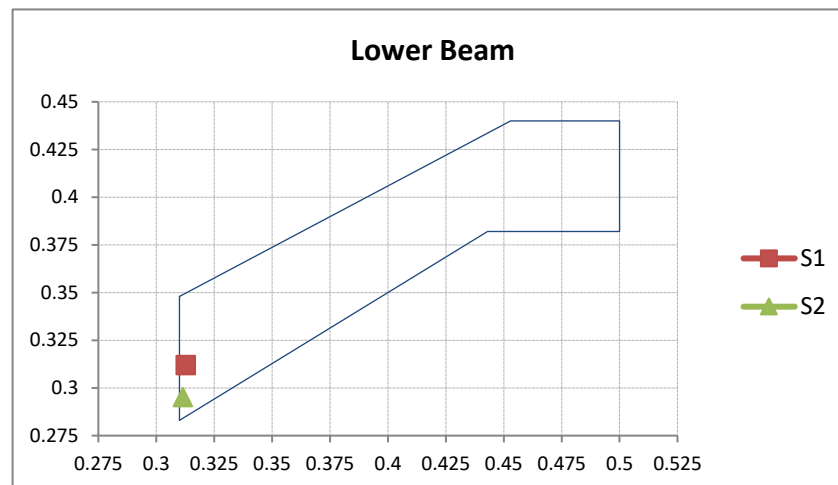
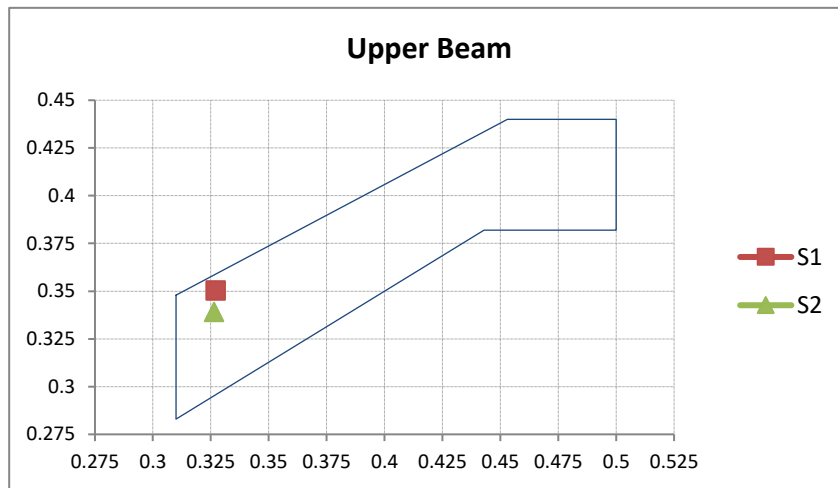
Test Performed by : Tan Liao

Date : 2024/1/19

Test distance(m) : 3.182 m

Color of Light Emitted : White

| Color emitted from HV point |    | Sample 1 | Sample 2 |
|-----------------------------|----|----------|----------|
| Upper Beam                  | x= | 0.3272   | 0.3264   |
|                             | y= | 0.3504   | 0.3392   |
| Lower Beam                  | x= | 0.3127   | 0.3115   |
|                             | y= | 0.3121   | 0.2952   |



Remarks :

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VIBRATION TEST

Inspection Performed by : Elton Li Date : 2023/9/26

| Requirement  | Yes | No |
|--|-----|----|
| After completion of the test, there must be no evidence of loose or broken parts, other than filaments, visible without magnification. | x   |    |
| Necessary to rephotometer test   |     | x  |
| Additional photometric data sheet added to report  |     | x  |

Remarks : \_\_\_\_\_

DUST TEST

Inspection Performed by : John Lai Date : 2024/2/2

| Requirement  | Yes | No |
|--|-----|----|
| After completion of the dust test, the sample headlamp must meet the requirements of the applicable photometry test. A 1/4° reaim is permitted in any direction at any test point. | x   |    |
| Necessary to rephotometer test   | x   |    |
| Additional photometric data sheet added to report  | x   |    |

Remarks : \_\_\_\_\_

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### CORROSION TEST

Inspection Performed by : Elton Li Date : 2023/9/28

| Requirement   | Yes | No |
|---|-----|----|
| After completion of the corrosion test, the sample headlamp must not have any observed corrosion which would result in the failure of any other applicable tests contained in S14.6 of FMVSS 108 and no corrosion of the headlamp mounting and aiming mechanism that would result in the failure of the aiming adjustment tests, inward force test, or torque deflection test of S14.6 of FMVSS 108 . | x   |    |
| Necessary to rephotometer test  |     | x  |
| Additional photometric data sheet added to report   |     | x  |

Remarks : \_\_\_\_\_

### TEMP. CYCLE TEST

Inspection Performed by : John Lai Date : 2024/2/16

| Requirement  | Yes | No |
|--|-----|----|
| After the test, the sample headlamp shall:<br>(a) show no evidence of delamination, fractures, entry of moisture, or deterioration of bonding material, color bleeding, warp or deformation visible without magnification;<br>(b) show no lens warpage greater than 3 mm when measured parallel to the optical axis at the point of intersection of the axis of each light source with the exterior surface of the lens; and<br>(c) meet the requirements of the applicable photometry test. A 1/4° reaim is permitted in any direction at any test point. | x   |    |
| Necessary to rephotometer test   | x   |    |
| Additional photometric data sheet added to report  | x   |    |

Remarks : \_\_\_\_\_

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Applicant : AAC Enterprises LLC



### HUMIDITY TEST

Inspection Performed by : John Lai Date : 2024/2/20

| Requirement  | Yes | No |
|--|-----|----|
| After completion of the test, the sample headlamp must show no evidence of interior delamination or moisture, fogging or condensation visible without magnification. | x   |    |
| Necessary to rephotometer test   |     | x  |
| Additional photometric data sheet added to report  |     | x  |

Remarks : \_\_\_\_\_

### ABRASION TEST

Inspection Performed by : John Lai Date : 2024/2/5

| Requirement  | Yes | No |
|--|-----|----|
| After completion of the test the sample headlamp must meet the requirements of the applicable photometry test. A 1/4° reaim is permitted in any direction at any test point. | x   |    |
| Necessary to rephotometer test   | x   |    |
| Additional photometric data sheet added to report  | x   |    |

Remarks : \_\_\_\_\_

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



### CHEMICAL RESISTANCE TEST

Inspection Performed by : John Lai Date : 2024/2/5

| Requirement  | Yes | No |
|--|-----|----|
| After completion of the chemical resistance test, the sample headlamp must have no surface deterioration, coating delamination, fractures, deterioration of bonding or sealing materials, color bleeding or color pickup visible without magnification and the headlamp must meet the requirements of the applicable photometry test(s). A 1/4° reaim is permitted in any direction at any test point. | x   |    |
| Necessary to rephotometer test   | x   |    |
| Additional photometric data sheet added to report  | x   |    |

Remarks : \_\_\_\_\_

### INTERNAL HEAT TEST

Inspection Performed by : John Lai Date : 2024/2/16

| Requirement  | Yes | No |
|--|-----|----|
| After the test, the sample headlamp shall:<br>(a) show no lens warpage greater than 3 mm when measured parallel to the optical axis at the point of intersection of the axis of each light source with the exterior surface of the lens; and<br>(b) meet the requirements of the applicable photometry test. A 1/4° reaim is permitted in any direction at any test point. | x   |    |
| Necessary to rephotometer test   | x   |    |
| Additional photometric data sheet added to report  | x   |    |

Remarks : \_\_\_\_\_



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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



PHOTOMETRY AFTER DUST TEST

UB2 - Upper Beam Photometric Test Point Values

| Test Points | Minimum (cd) | Maximum (cd) | Measured  | - |
|-------------|--------------|--------------|-----------|---|
| 2U - V      | 1500         | -            | 1859.000  | - |
| 1U - 3L     | 5000         | -            | 6429.000  | - |
| 1U - 3R     | 5000         | -            | 20140.000 | - |
| H - V       | 40000        | 75000        | 41070.000 | - |
| H - 3L      | 15000        | -            | 49540.000 | - |
| H - 3R      | 15000        | -            | 56410.000 | - |
| H - 6L      | 5000         | -            | 27260.000 | - |
| H - 6R      | 5000         | -            | 39810.000 | - |
| H - 9L      | 3000         | -            | 7840.000  | - |
| H - 9R      | 3000         | -            | 15490.000 | - |
| H - 12L     | 1500         | -            | 2805.000  | - |
| H - 12R     | 1500         | -            | 3255.000  | - |
| 1.5D - V    | 5000         | -            | 28590.000 | - |
| 1.5D - 9L   | 2000         | -            | 14820.000 | - |
| 1.5D - 9R   | 2000         | -            | 4151.000  | - |
| 2.5D - V    | 2500         | -            | 23710.000 | - |
| 2.5D - 12L  | 1000         | -            | 1974.000  | - |
| 2.5D - 12R  | 1000         | -            | 3858.000  | - |
| 4D - V      | -            | 12000        | 11300.000 | - |

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



LB2V - Lower Beam Photometric Test Point Values

| Test Points              | Minimum (cd) | Maximum (cd) | Measured  | - |
|--------------------------|--------------|--------------|-----------|---|
| 10U to 90U & 90L to 90 R | -            | 125          | 61.272    | - |
| 4U - 8L                  | 64           | -            | 96.900    | - |
| 4U - 8R                  | 64           | -            | 105.400   | - |
| 2U - 4L                  | 135          | -            | 210.400   | - |
| 1.5U - 1R to 3R          | 200          | -            | 312.794   | - |
| 1.5U - 1R to R           | -            | 1400         | 436.875   | - |
| 1U - 1.5L to L           | -            | 700          | 482.215   | - |
| 0.5U - 1.5L to L         | -            | 1000         | 709.669   | - |
| 0.5U - 1R to 3R          | 500          | 2700         | 1463.031  | - |
|                          |              |              | 1631.736  | - |
| H - 4L                   | 135          | -            | 5296.000  | - |
| H - 8L                   | 64           | -            | 2988.000  | - |
| 0.6D - 1.3R              | 10000        | -            | 19010.000 | - |
| 0.86D - V                | 4500         | -            | 21460.000 | - |
| 0.86D - 3.5L             | 1800         | 12000        | 11120.000 | - |
| 1.5D - 2R                | 15000        | -            | 20410.000 | - |
| 2D - 9L                  | 1250         | -            | 5371.000  | - |
| 2D - 9R                  | 1250         | -            | 4663.000  | - |
| 2D - 15L                 | 1000         | -            | 2167.000  | - |
| 2D - 15R                 | 1000         | -            | 2790.000  | - |
| 4D - 4R                  | -            | 12500        | 1612.000  | - |
| 4D - 20L                 | 300          | -            | 2487.000  | - |
| 4D - 20R                 | 300          | -            | 1497.000  | - |

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



PHOTOMETRY AFTER TEMP. CYCLE TEST

UB2 - Upper Beam Photometric Test Point Values

| Test Points | Minimum (cd) | Maximum (cd) | Measured  | - |
|-------------|--------------|--------------|-----------|---|
| 2U - V      | 1500         | -            | 3035.000  | - |
| 1U - 3L     | 5000         | -            | 9480.000  | - |
| 1U - 3R     | 5000         | -            | 11850.000 | - |
| H - V       | 40000        | 75000        | 45324.000 | - |
| H - 3L      | 15000        | -            | 29400.000 | - |
| H - 3R      | 15000        | -            | 26050.000 | - |
| H - 6L      | 5000         | -            | 18940.000 | - |
| H - 6R      | 5000         | -            | 16950.000 | - |
| H - 9L      | 3000         | -            | 9200.000  | - |
| H - 9R      | 3000         | -            | 5786.000  | - |
| H - 12L     | 1500         | -            | 2335.000  | - |
| H - 12R     | 1500         | -            | 2353.000  | - |
| 1.5D - V    | 5000         | -            | 19120.000 | - |
| 1.5D - 9L   | 2000         | -            | 11050.000 | - |
| 1.5D - 9R   | 2000         | -            | 3993.000  | - |
| 2.5D - V    | 2500         | -            | 18600.000 | - |
| 2.5D - 12L  | 1000         | -            | 3563.000  | - |
| 2.5D - 12R  | 1000         | -            | 4760.000  | - |
| 4D - V      | -            | 12000        | 7222.000  | - |

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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



LB2V - Lower Beam Photometric Test Point Values

| Test Points              | Minimum (cd) | Maximum (cd) | Measured  | - |
|--------------------------|--------------|--------------|-----------|---|
| 10U to 90U & 90L to 90 R | -            | 125          | 74.618    | - |
| 4U - 8L                  | 64           | -            | 88.900    | - |
| 4U - 8R                  | 64           | -            | 151.800   | - |
| 2U - 4L                  | 135          | -            | 220.800   | - |
| 1.5U - 1R to 3R          | 200          | -            | 373.018   | - |
| 1.5U - 1R to R           | -            | 1400         | 440.608   | - |
| 1U - 1.5L to L           | -            | 700          | 498.927   | - |
| 0.5U - 1.5L to L         | -            | 1000         | 858.142   | - |
| 0.5U - 1R to 3R          | 500          | 2700         | 920.752   | - |
|                          |              |              | 1022.765  | - |
| H - 4L                   | 135          | -            | 2028.000  | - |
| H - 8L                   | 64           | -            | 621.100   | - |
| 0.6D - 1.3R              | 10000        | -            | 11860.000 | - |
| 0.86D - V                | 4500         | -            | 15510.000 | - |
| 0.86D - 3.5L             | 1800         | 12000        | 10190.000 | - |
| 1.5D - 2R                | 15000        | -            | 18580.000 | - |
| 2D - 9L                  | 1250         | -            | 4058.000  | - |
| 2D - 9R                  | 1250         | -            | 11220.000 | - |
| 2D - 15L                 | 1000         | -            | 1971.000  | - |
| 2D - 15R                 | 1000         | -            | 4344.000  | - |
| 4D - 4R                  | -            | 12500        | 1665.000  | - |
| 4D - 20L                 | 300          | -            | 2415.000  | - |
| 4D - 20R                 | 300          | -            | 1414.000  | - |

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Applicant : AAC Enterprises LLC



PHOTOMETRY AFTER ABRASION TEST

UB2 - Upper Beam Photometric Test Point Values

| Test Points | Minimum (cd) | Maximum (cd) | Measured  | - |
|-------------|--------------|--------------|-----------|---|
| 2U - V      | 1500         | -            | 15680.000 | - |
| 1U - 3L     | 5000         | -            | 35590.000 | - |
| 1U - 3R     | 5000         | -            | 49850.000 | - |
| H - V       | 40000        | 75000        | 43180.000 | - |
| H - 3L      | 15000        | -            | 35920.000 | - |
| H - 3R      | 15000        | -            | 36880.000 | - |
| H - 6L      | 5000         | -            | 17930.000 | - |
| H - 6R      | 5000         | -            | 28150.000 | - |
| H - 9L      | 3000         | -            | 4893.000  | - |
| H - 9R      | 3000         | -            | 15680.000 | - |
| H - 12L     | 1500         | -            | 2398.200  | - |
| H - 12R     | 1500         | -            | 3743.000  | - |
| 1.5D - V    | 5000         | -            | 21230.000 | - |
| 1.5D - 9L   | 2000         | -            | 3425.000  | - |
| 1.5D - 9R   | 2000         | -            | 11910.000 | - |
| 2.5D - V    | 2500         | -            | 15940.000 | - |
| 2.5D - 12L  | 1000         | -            | 2890.000  | - |
| 2.5D - 12R  | 1000         | -            | 3824.000  | - |
| 4D - V      | -            | 12000        | 2150.000  | - |

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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



LB2V - Lower Beam Photometric Test Point Values

| Test Points              | Minimum (cd) | Maximum (cd) | Measured  | - |
|--------------------------|--------------|--------------|-----------|---|
| 10U to 90U & 90L to 90 R | -            | 125          | 66.040    | - |
| 4U - 8L                  | 64           | -            | 77.400    | - |
| 4U - 8R                  | 64           | -            | 126.400   | - |
| 2U - 4L                  | 135          | -            | 252.400   | - |
| 1.5U - 1R to 3R          | 200          | -            | 342.636   | - |
| 1.5U - 1R to R           | -            | 1400         | 461.929   | - |
| 1U - 1.5L to L           | -            | 700          | 570.510   | - |
| 0.5U - 1.5L to L         | -            | 1000         | 818.906   | - |
| 0.5U - 1R to 3R          | 500          | 2700         | 1432.270  | - |
|                          |              |              | 1606.008  | - |
| H - 4L                   | 135          | -            | 5020.000  | - |
| H - 8L                   | 64           | -            | 1452.000  | - |
| 0.6D - 1.3R              | 10000        | -            | 18240.000 | - |
| 0.86D - V                | 4500         | -            | 19270.000 | - |
| 0.86D - 3.5L             | 1800         | 12000        | 10320.000 | - |
| 1.5D - 2R                | 15000        | -            | 21700.000 | - |
| 2D - 9L                  | 1250         | -            | 3968.000  | - |
| 2D - 9R                  | 1250         | -            | 8960.000  | - |
| 2D - 15L                 | 1000         | -            | 1556.000  | - |
| 2D - 15R                 | 1000         | -            | 3349.000  | - |
| 4D - 4R                  | -            | 12500        | 1462.000  | - |
| 4D - 20L                 | 300          | -            | 2376.000  | - |
| 4D - 20R                 | 300          | -            | 1298.000  | - |

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Applicant : AAC Enterprises LLC



PHOTOMETRY AFTER CHEMICAL RESISTANCE TEST

UB2 - Upper Beam Photometric Test Point Values

| Test Points | Minimum (cd) | Maximum (cd) | Measured  | - |
|-------------|--------------|--------------|-----------|---|
| 2U - V      | 1500         | -            | 14250.000 | - |
| 1U - 3L     | 5000         | -            | 34200.000 | - |
| 1U - 3R     | 5000         | -            | 49580.000 | - |
| H - V       | 40000        | 75000        | 43960.000 | - |
| H - 3L      | 15000        | -            | 35790.000 | - |
| H - 3R      | 15000        | -            | 38290.000 | - |
| H - 6L      | 5000         | -            | 17670.000 | - |
| H - 6R      | 5000         | -            | 29770.000 | - |
| H - 9L      | 3000         | -            | 4358.000  | - |
| H - 9R      | 3000         | -            | 16930.000 | - |
| H - 12L     | 1500         | -            | 2360.200  | - |
| H - 12R     | 1500         | -            | 3789.000  | - |
| 1.5D - V    | 5000         | -            | 20660.000 | - |
| 1.5D - 9L   | 2000         | -            | 3226.000  | - |
| 1.5D - 9R   | 2000         | -            | 11860.000 | - |
| 2.5D - V    | 2500         | -            | 16720.000 | - |
| 2.5D - 12L  | 1000         | -            | 2803.000  | - |
| 2.5D - 12R  | 1000         | -            | 4026.000  | - |
| 4D - V      | -            | 12000        | 2162.000  | - |

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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



LB2V - Lower Beam Photometric Test Point Values

| Test Points              | Minimum (cd) | Maximum (cd) | Measured  | - |
|--------------------------|--------------|--------------|-----------|---|
| 10U to 90U & 90L to 90 R | -            | 125          | 61.890    | - |
| 4U - 8L                  | 64           | -            | 74.900    | - |
| 4U - 8R                  | 64           | -            | 126.000   | - |
| 2U - 4L                  | 135          | -            | 229.100   | - |
| 1.5U - 1R to 3R          | 200          | -            | 360.419   | - |
| 1.5U - 1R to R           | -            | 1400         | 495.466   | - |
| 1U - 1.5L to L           | -            | 700          | 592.941   | - |
| 0.5U - 1.5L to L         | -            | 1000         | 903.970   | - |
| 0.5U - 1R to 3R          | 500          | 2700         | 1798.080  | - |
|                          |              |              | 1978.355  | - |
| H - 4L                   | 135          | -            | 5935.000  | - |
| H - 8L                   | 64           | -            | 1715.000  | - |
| 0.6D - 1.3R              | 10000        | -            | 19180.000 | - |
| 0.86D - V                | 4500         | -            | 20540.000 | - |
| 0.86D - 3.5L             | 1800         | 12000        | 10210.000 | - |
| 1.5D - 2R                | 15000        | -            | 22920.000 | - |
| 2D - 9L                  | 1250         | -            | 3858.000  | - |
| 2D - 9R                  | 1250         | -            | 9000.000  | - |
| 2D - 15L                 | 1000         | -            | 1730.000  | - |
| 2D - 15R                 | 1000         | -            | 3295.000  | - |
| 4D - 4R                  | -            | 12500        | 1509.000  | - |
| 4D - 20L                 | 300          | -            | 2311.000  | - |
| 4D - 20R                 | 300          | -            | 1349.000  | - |



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Test Component : 5769-123

Applicant : AAC Enterprises LLC



PHOTOMETRY AFTER INTERNAL HEAT TEST

UB2 - Upper Beam Photometric Test Point Values

| Test Points | Minimum (cd) | Maximum (cd) | Measured  | - |
|-------------|--------------|--------------|-----------|---|
| 2U - V      | 1500         | -            | 4298.000  | - |
| 1U - 3L     | 5000         | -            | 21200.000 | - |
| 1U - 3R     | 5000         | -            | 38310.000 | - |
| H - V       | 40000        | 75000        | 42080.000 | - |
| H - 3L      | 15000        | -            | 35160.000 | - |
| H - 3R      | 15000        | -            | 42120.000 | - |
| H - 6L      | 5000         | -            | 21810.000 | - |
| H - 6R      | 5000         | -            | 31810.000 | - |
| H - 9L      | 3000         | -            | 7467.000  | - |
| H - 9R      | 3000         | -            | 16300.000 | - |
| H - 12L     | 1500         | -            | 5768.600  | - |
| H - 12R     | 1500         | -            | 6458.000  | - |
| 1.5D - V    | 5000         | -            | 18410.000 | - |
| 1.5D - 9L   | 2000         | -            | 4086.000  | - |
| 1.5D - 9R   | 2000         | -            | 8630.000  | - |
| 2.5D - V    | 2500         | -            | 19670.000 | - |
| 2.5D - 12L  | 1000         | -            | 4138.000  | - |
| 2.5D - 12R  | 1000         | -            | 4663.000  | - |
| 4D - V      | -            | 12000        | 4135.000  | - |

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**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



LB2V - Lower Beam Photometric Test Point Values

| Test Points              | Minimum (cd) | Maximum (cd) | Measured  | - |
|--------------------------|--------------|--------------|-----------|---|
| 10U to 90U & 90L to 90 R | -            | 125          | 73.277    | - |
| 4U - 8L                  | 64           | -            | 96.300    | - |
| 4U - 8R                  | 64           | -            | 130.700   | - |
| 2U - 4L                  | 135          | -            | 208.400   | - |
| 1.5U - 1R to 3R          | 200          | -            | 276.713   | - |
| 1.5U - 1R to R           | -            | 1400         | 300.288   | - |
| 1U - 1.5L to L           | -            | 700          | 338.498   | - |
| 0.5U - 1.5L to L         | -            | 1000         | 498.638   | - |
| 0.5U - 1R to 3R          | 500          | 2700         | 558.798   | - |
|                          |              |              | 604.024   | - |
| H - 4L                   | 135          | -            | 763.800   | - |
| H - 8L                   | 64           | -            | 355.900   | - |
| 0.6D - 1.3R              | 10000        | -            | 13428.000 | - |
| 0.86D - V                | 4500         | -            | 6681.000  | - |
| 0.86D - 3.5L             | 1800         | 12000        | 6179.000  | - |
| 1.5D - 2R                | 15000        | -            | 15680.000 | - |
| 2D - 9L                  | 1250         | -            | 3541.000  | - |
| 2D - 9R                  | 1250         | -            | 8970.000  | - |
| 2D - 15L                 | 1000         | -            | 1492.000  | - |
| 2D - 15R                 | 1000         | -            | 4151.000  | - |
| 4D - 4R                  | -            | 12500        | 2503.000  | - |
| 4D - 20L                 | 300          | -            | 3048.000  | - |
| 4D - 20R                 | 300          | -            | 1601.000  | - |

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Test Component : 5769-123

Applicant : AAC Enterprises LLC

PHOTOMETRY AFTER HUMIDITY TEST

UB2 - Upper Beam Photometric Test Point Values

| Test Points | Minimum (cd) | Maximum (cd) | Measured  | - |
|-------------|--------------|--------------|-----------|---|
| 2U - V      | 1500         | -            | 10640.000 | - |
| 1U - 3L     | 5000         | -            | 30950.000 | - |
| 1U - 3R     | 5000         | -            | 45450.000 | - |
| H - V       | 40000        | 75000        | 40180.000 | - |
| H - 3L      | 15000        | -            | 29070.000 | - |
| H - 3R      | 15000        | -            | 31370.000 | - |
| H - 6L      | 5000         | -            | 17900.000 | - |
| H - 6R      | 5000         | -            | 22980.000 | - |
| H - 9L      | 3000         | -            | 7541.000  | - |
| H - 9R      | 3000         | -            | 11370.000 | - |
| H - 12L     | 1500         | -            | 4056.000  | - |
| H - 12R     | 1500         | -            | 4193.000  | - |
| 1.5D - V    | 5000         | -            | 19890.000 | - |
| 1.5D - 9L   | 2000         | -            | 4085.000  | - |
| 1.5D - 9R   | 2000         | -            | 9980.000  | - |
| 2.5D - V    | 2500         | -            | 19490.000 | - |
| 2.5D - 12L  | 1000         | -            | 4581.000  | - |
| 2.5D - 12R  | 1000         | -            | 4156.000  | - |
| 4D - V      | -            | 12000        | 3683.000  | - |

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Test Component : 5769-123

Applicant : AAC Enterprises LLC



LB2V - Lower Beam Photometric Test Point Values

| Test Points              | Minimum (cd) | Maximum (cd) | Measured  | - |
|--------------------------|--------------|--------------|-----------|---|
| 10U to 90U & 90L to 90 R | -            | 125          | 93.182    | - |
| 4U - 8L                  | 64           | -            | 143.700   | - |
| 4U - 8R                  | 64           | -            | 193.000   | - |
| 2U - 4L                  | 135          | -            | 315.700   | - |
| 1.5U - 1R to 3R          | 200          | -            | 453.522   | - |
| 1.5U - 1R to R           | -            | 1400         | 497.183   | - |
| 1U - 1.5L to L           | -            | 700          | 531.733   | - |
| 0.5U - 1.5L to L         | -            | 1000         | 798.089   | - |
| 0.5U - 1R to 3R          | 500          | 2700         | 917.137   | - |
|                          |              |              | 993.644   | - |
| H - 4L                   | 135          | -            | 1242.000  | - |
| H - 8L                   | 64           | -            | 597.100   | - |
| 0.6D - 1.3R              | 10000        | -            | 16867.000 | - |
| 0.86D - V                | 4500         | -            | 11410.000 | - |
| 0.86D - 3.5L             | 1800         | 12000        | 10450.000 | - |
| 1.5D - 2R                | 15000        | -            | 18930.000 | - |
| 2D - 9L                  | 1250         | -            | 3984.000  | - |
| 2D - 9R                  | 1250         | -            | 8650.000  | - |
| 2D - 15L                 | 1000         | -            | 1671.000  | - |
| 2D - 15R                 | 1000         | -            | 4165.000  | - |
| 4D - 4R                  | -            | 12500        | 2001.000  | - |
| 4D - 20L                 | 300          | -            | 3049.000  | - |
| 4D - 20R                 | 300          | -            | 1513.000  | - |

## DRAWING / PHOTO



Front View



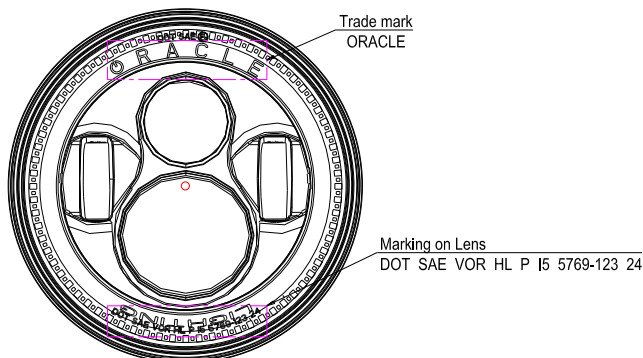
Side View



Top View

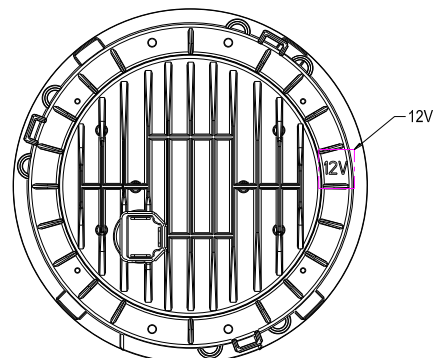


Rear View



(Trade mark) DOT SAE VOR HL P I5 5769-123 24

Marking on Lens



12V

Marking on Housing

**Report No.** : 108-ISOQA-23-0739 **Rev.** : 00

**Test Component** : 5769-123

**Applicant** : AAC Enterprises LLC



## REVISION HISTORY

| Version | Issued Date   | Description                       |
|---------|---------------|-----------------------------------|
| 00      | March 1, 2024 | Initial issue of the test report. |