



AUTOMOTIVE MANUFACTURERS EQUIPMENT COMPLIANCE AGENCY, INC.

AMECA NOTICE OF EQUIPMENT COMPLIANCE™

This notice verifies that the item described below has been tested by an accredited laboratory and has been found to be in compliance with the jurisdictional standard(s) listed below where applicable. The issuance of this AMECA Notice of Equipment Compliance™ does not denote or imply any endorsement or recommendation of the item described below. AMECA does not warranty or guaranty parts. Parts warranties/guaranties are between the buyer and seller and can vary by state and jurisdictions involved.

Notification Number: 211338

Test Report Date: August 27, 2021

Expiration Date: January 1, 2025

Item: "511-NS006" - Combination Turn Signal, Tail, Stop, Backup And Side Marker Lamp With Reflex Reflector - Red, White And Yellow In Color

Use: On 2008+Model Years Nissan 370Z Motor Vehicles

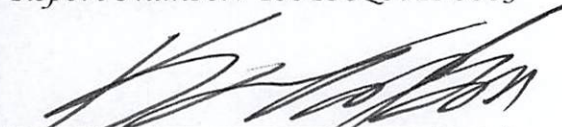
Jurisdictional Compliance Standard(S)

Identical To: United States FMVSS 571.108 Photometric Only

Markings	
Lens	Housing
LOGO DOT SAE S T I R P2 A 20 511-NS006	12V

Light Source: Turn Signal Lamp: 18 LED's, 12.8V
 Stop/Tail Lamp: 14 LED's, 12.8V
 Backup Lamp: 8 LED's, 12.8V
 Side Marker Lamp: 3 LED's, 12.8V

Test Lab: ISOQA Technical Service Co., Ltd.
 Report Number: 108-ISOQA-21-0605


 Executive Director



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

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



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

TEST 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. The laboratory does not responsible for implement sampling.

Arthur Chang



Signature of Responsible Laboratory Official

Title: Laboratory Manager

Approval Date

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

TABLE OF CONTENTS

Contents	Number of page in each report
Cover Page	1
Contents	1
Product information	2
Rear Turn Signal Lamp	4
Tail Lamp	4
Stop Lamp	4
Backup Lamp	4
Side Marker Lamp	4
Reflex Reflector	4
Drawing	1
<hr/>	
Total Pages	29


Report Prepared By : Lisa Liu
 Review By : Julie Wu
 Approval By : Arthur Chang

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

PRODUCT INFORMATION

Test Component	511-NS006
Applicant	Morimoto Lighting
Manufacturer	same as Applicant
Trade Mark	
Lens Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate N-000 Clear
Coating of Exterior Lens	-
Inner Lens Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate S-001 smoke Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylat R-003 Red
Reflex Reflector Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylat R-003 Red
Applicable Vehicle	NISSAN FAIRLADY 370Z 2008+
Rated Voltage	12 V
Marking on Lens	LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO RH: LOGO DOT SAE S T I R P2 A 20 511-NS006
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	Rear Turn Signal Lamp	Tail Lamp	Stop Lamp	Backup Lamp	Side Marker Lamp	
Requirements	FMVSS 108 SAE J588	FMVSS 108 SAE J585	FMVSS 108 SAE J586	FMVSS 108 SAE J593	FMVSS 108 SAE J592	
Identification Code of SAE J759	I	T	S	R	P2	
Number of Compartments or Lamps	1	1	1	1	1	
Color of External Lens	Clear	Clear	Clear	Clear	Clear	
Color of Inner Lens or Filter	Smoke	Smoke	Smoke	-	Red	
Color of Light Emitted	Yellow	Red	Red	White	Red	
Light Source Designation	LED × 18	LED × 14	LED × 14	LED × 8	LED × 3	
Design Voltage	12.8 V	12.8 V	12.8 V	12.8 V	12.8 V	
Rated Mean Spherical Candlepower	N/A	N/A	N/A	N/A	N/A	
Effective projected illuminated area of lens (mm ²)	5100	N/A	7100	N/A	N/A	
Method of determination	Projected	N/A	Projected	N/A	N/A	
Test Item	Inspector	Date	Number of Tested			
Physical Inspection	Bo Yang Lee	2021/8/24	2	2	2	2
Photometry Test	Bo Yang Lee	2021/8/24	2	2	2	2
Color Test	Bo Yang Lee	2021/8/24	2	2	2	2

Report No. : 108-ISOQA-21-0605*Test Component* : 511-NS006*Applicant* : Morimoto Lighting

Functions			Reflex Reflector (Rear / Side)				
Requirements			FMVSS 108 SAE J594				
Identification Code of SAE J759			A				
Number of Compartments or Lamps			1				
Color of External Lens			Clear				
Color of Inner Lens or Filter			-				
Color of Light Emitted			Red				
Light Source type and Trade Number			N/A				
Design Voltage			N/A				
Rated Mean Spherical Candlepower			N/A				
Effective Projected Luminous Lens Area (mm ²)			N/A				
Method of determination			N/A				
Test Item	Inspector	Date	Number of Tested				
Physical Inspection	Bo Yang Lee	2021/8/24	2 of each				
Photometry Test	Bo Yang Lee	2021/8/24	2 of each				
Color Test	Bo Yang Lee	2021/8/24	2 of each				

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



TURN SIGNAL LAMP TEST REPORT

Test Component	511-NS006
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2021/8/24
Report Number	108-ISOQA-21-0605
Number of devices tested	See below
Light source Designation	LED × 18

SUMMARY

Test Description	Test Results	
	Number Passed	Number Failed
- Physical Inspection	2	-
- Photometry Test	2	-
- Color Test	2	-
- Dust Test	Not Tested	-
- Moisture Test	Not Tested	-
- Corrosion Test	Not Tested	-
- Vibration Test	Not Tested	-

Remarks : _____

A handwritten signature in black ink that reads 'Arthur Chang' in a cursive style.

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : August 27, 2021

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

PHYSICAL INSPECTION

Inspection Performed by : Bo Yang Lee Date : 2021/8/24

Marking on Lens	LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO RH: LOGO DOT SAE S T I R P2 A 20 511-NS006	
Marking on Housing	12V	
Lens Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate N-000 Clear	
Coating of External Lens	-	
Light Sources Used	Trade No/ Designation	LED
	Quantity	18
	Rated Voltage	12 V

Remarks : _____

EFFECTIVE PROJECTED LUMINOUS LENS AREA

Test Performed by : Bo Yang Lee Date : 2021/8/24

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 ²)	Requirement	Value	Result
	5000	5100	PASSED

Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

PHOTOMETRY TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
 Test distance(m) : 3.167 m Light Source Designation : LED × 18
 Tested Voltage : 12.8 V Lighted Sections : 3

Steady Burning at H-V (according to SAE J1889)	Sample 1 (LH)			Sample 2 (RH)		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	427.7	416.7	1.03	415.1	406.4	1.02

Test Points	Zone	Rto.	Minimum (cd)	Maximum (cd)	Sample 1 (LH)		Sample 2 (RH)	
		Tail Lamp			Rto	Measured ⁽¹⁾	Rto	Measured ⁽¹⁾
5U - 20L	1	3	25	900	25.9	396.500	36.4	198.200
5D - 20L	1	3	25	900	32.4	432.200	21.2	175.000
10U - 5L	1	3	35	900	31.7	381.200	34.0	250.900
5U - 10L	2	3	65	900	27.4	525.600	30.0	259.100
H - 10L	2	3	90	900	28.4	617.000	22.7	269.500
5D - 10L	2	3	65	900	27.0	492.700	20.8	228.800
5U - V	3	5	150	900	25.4	410.700	27.2	395.700
H - 5L	3	5	175	900	23.4	514.800	21.0	319.000
H - V	3	5	175	900	22.0	416.700	21.5	406.400
H - 5R	3	5	175	900	18.0	318.800	24.7	532.000
5D - V	3	3	150	900	18.3	336.400	22.3	364.900
5U - 10R	4	3	65	900	21.7	258.900	29.6	499.000
H - 10R	4	3	90	900	16.9	269.400	28.1	578.100
5D - 10R	4	3	65	900	14.6	222.200	33.7	510.900
10U - 5R	5	3	35	900	28.7	256.500	37.4	377.000
5U - 20R	5	3	25	900	43.5	207.400	27.5	383.400
5D - 20R	5	3	25	900	30.6	174.900	36.0	433.200
Visibility			0.3	900	-	(16.647) 595.143	-	(18.098) 562.933

Zone Total Luminous Intensity

Zone	Minimum (cd)	Sample 1 (LH)	Sample 2 (RH)
1	120	1209.900	624.100
2	220	1635.300	757.400
3	825	1997.400	2018.000
4	220	750.500	1588.000
5	120	638.800	1193.600

(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.

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

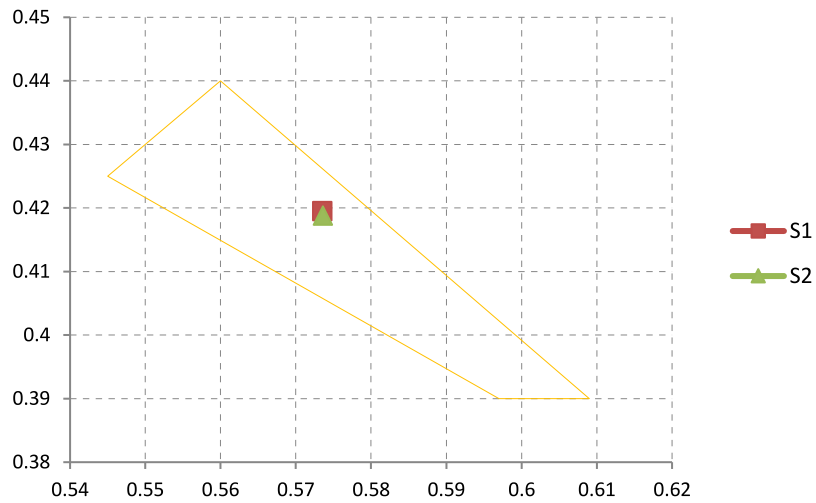
Applicant : Morimoto Lighting



COLOR TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
Test distance(m) : 3.073 m Light Source Designation : LED × 18
Color of Light Emitted : Yellow

Color emitted from HV point		Sample 1 (LH)	Sample 2 (RH)
	x=	0.5735	0.5736
	y=	0.4195	0.4188



Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

TAIL LAMP TEST REPORT

Test Component	511-NS006
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2021/8/24
Report Number	108-ISOQA-21-0605
Number of devices tested	See below
Light source Designation	LED × 14

SUMMARY

Test Description	Test Results	
	Number Passed	Number Failed
- Physical Inspection	2	-
- Photometry Test	2	-
- Color Test	2	-
- Dust Test	Not Tested	-
- Moisture Test	Not Tested	-
- Corrosion Test	Not Tested	-
- Vibration Test	Not Tested	-

Remarks : _____

Arthur Chang

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : August 27, 2021

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant :



PHYSICAL INSPECTION

Inspection Performed by : Bo Yang Lee Date : 2021/8/24

Marking on Lens	LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO RH: LOGO DOT SAE S T I R P2 A 20 511-NS006	
Marking on Housing	12V	
Lens Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate N-000 Clear	
Coating of External Lens	-	
Light Sources Used	Trade No/ Designation	LED
	Quantity	14
	Rated Voltage	12 V

Remarks : _____

PHOTOMETRY TEST

Test Performed by	: Bo Yang Lee	Date	: 2021/8/24
Test distance(m)	: 3.167 m	Light Source Designation	: LED × 14
Tested Voltage	: 12.8 V	Lighted Sections	: 3

Steady Burning at H-V (according to SAE J1889)	Sample 1 (LH)			Sample 2 (RH)		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
		20.63	18.91	1.09	20.55	18.93

Test Points	Zone	Minimum (cd)	Maximum (cd)	Sample 1 (LH)		Sample 2 (RH)	
				Measured ⁽¹⁾	Measured ⁽¹⁾	Measured ⁽¹⁾	Measured ⁽¹⁾
5U - 20L	1	0.7	25	15.290	5.446		
5D - 20L	1	0.7	-	13.330	8.270		
10U - 5L	1	1	25	12.020	7.373		
5U - 10L	2	2	25	19.210	8.650		
H - 10L	2	2	25	21.700	11.870		
5D - 10L	2	2	-	18.240	11.020		
5U - V	3	4.5	25	16.170	14.530		
H - 5L	3	5	25	22.040	15.220		
H - V	3	5	25	18.910	18.930		
H - 5R	3	5	25	17.700	21.520		
5D - V	3	4.5	-	18.360	16.400		
5U - 10R	4	2	25	11.920	16.880		
H - 10R	4	2	25	15.910	20.570		
5D - 10R	4	2	-	15.250	15.180		
10U - 5R	5	1	25	8.950	10.090		
5U - 20R	5	0.7	25	4.768	13.950		
5D - 20R	5	0.7	-	5.710	12.050		
Visibility below HH		0.05	-	0.198	0.446		
Visibility on or above HH		0.05	25	(0.162) 22.588	(0.236) 21.987		

Zone Total Luminous Intensity

Zone	Minimum (cd)	Sample 1 (LH)	Sample 2 (RH)
1	3.5	40.640	21.089
2	6	59.150	31.540
3	24	93.180	86.600
4	6	43.080	52.630
5	3.5	19.428	36.090

(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.

Report No. : 108-ISOQA-21-0605

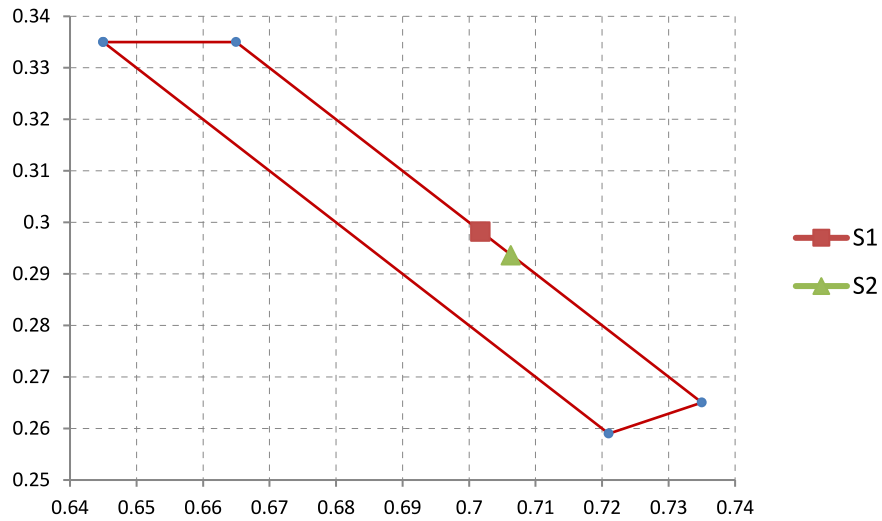
Test Component : 511-NS006

Applicant : Morimoto Lighting

COLOR TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
Test distance(m) : 3.073 m Light Source Designation : LED × 14
Color of Light Emitted : Red

Color emitted from HV point		Sample 1 (LH)	Sample 2 (RH)
	x=	0.7017	0.7063
	y=	0.2982	0.2936



Remarks :

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

STOP LAMP TEST REPORT

Test Component	511-NS006
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2021/8/24
Report Number	108-ISOQA-21-0605
Number of devices tested	See below
Light source Designation	LED × 14

SUMMARY

Test Description	Test Results	
	Number Passed	Number Failed
- Physical Inspection	2	-
- Photometry Test	2	-
- Color Test	2	-
- Dust Test	Not Tested	-
- Moisture Test	Not Tested	-
- Corrosion Test	Not Tested	-
- Vibration Test	Not Tested	-

Remarks : _____

Archer Chang

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : August 27, 2021

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

PHYSICAL INSPECTION

Inspection Performed by : Bo Yang Lee Date : 2021/8/24

Marking on Lens	LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO RH: LOGO DOT SAE S T I R P2 A 20 511-NS006		
Marking on Housing	12V		
Lens Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate N-000 Clear		
Coating of External Lens	-		
Light Sources Used	Trade No/ Designation	LED	
	Quantity	14	
	Rated Voltage	12 V	

Remarks : _____

EFFECTIVE PROJECTED LUMINOUS LENS AREA

Test Performed by : Bo Yang Lee Date : 2021/8/24

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 ²)	Requirement	Value	Result
	5000	7100	PASSED

Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

PHOTOMETRY TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
 Test distance(m) : 3.167 m Light Source Designation : LED × 14
 Tested Voltage : 12.8 V Lighted Sections : 3

Steady Burning at H-V (according to SAE J1889)	Sample 1			Sample 2		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	133.4	109.5	1.22	117.5	104.0	1.13

Test Points	Zone	Rto.	Minimum (cd)	Maximum (cd)	Sample 1 (LH)		Sample 2 (RH)	
		Tail Lamp			Rto	Measured ⁽¹⁾	Rto	Measured ⁽¹⁾
5U - 20L	1	3	15	420	5.5	84.300	5.2	28.560
5D - 20L	1	3	15	420	5.2	69.770	5.0	41.750
10U - 5L	1	3	22	420	6.0	72.700	5.4	39.570
5U - 10L	2	3	40	420	5.4	104.500	5.2	44.950
H - 10L	2	3	55	420	6.0	130.800	5.2	61.180
5D - 10L	2	3	40	420	5.4	97.900	5.2	56.980
5U - V	3	5	95	420	5.5	89.500	6.3	91.600
H - 5L	3	5	110	420	5.8	128.700	6.6	99.800
H - V	3	5	110	420	5.8	109.500	5.5	104.000
H - 5R	3	5	110	420	5.5	97.300	6.2	133.000
5D - V	3	3	95	420	5.4	99.800	5.9	97.100
5U - 10R	4	3	40	420	5.7	67.400	5.1	86.900
H - 10R	4	3	55	420	5.5	87.000	5.2	106.400
5D - 10R	4	3	40	420	5.2	79.960	5.3	80.700
10U - 5R	5	3	22	420	5.9	52.890	5.4	54.790
5U - 20R	5	3	15	420	5.8	27.810	5.2	72.570
5D - 20R	5	3	15	420	5.4	30.740	5.1	61.460
Visibility			0.3	420	-	(6.420) 126.791	-	(3.765) 115.102

Zone Total Luminous Intensity

Zone	Minimum (cd)	Sample 1 (LH)	Sample 2 (RH)
1	70	226.770	109.880
2	135	333.200	163.110
3	520	524.800	525.500
4	135	234.360	274.000
5	70	111.440	188.820

(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.

Report No. : 108-ISOQA-21-0605

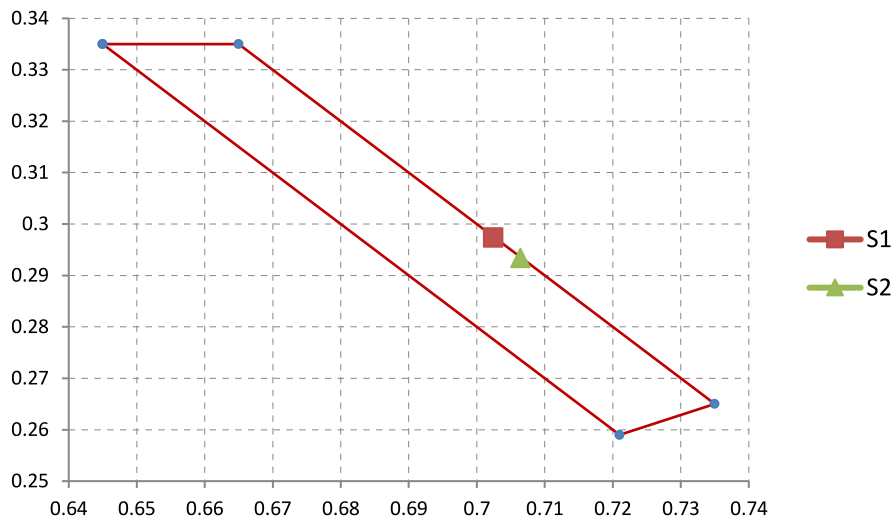
Test Component : 511-NS006

Applicant : Morimoto Lighting

COLOR TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
Test distance(m) : 3.073 m Light Source Designation : LED × 14
Color of Light Emitted : Red

Color emitted from HV point		Sample 1 (LH)	Sample 2 (RH)
	x=	0.7024	0.7064
	y=	0.2974	0.2934



Remarks :

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



BACKUP LAMP TEST REPORT

Test Component	511-NS006
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2021/8/24
Report Number	108-ISOQA-21-0605
Number of devices tested	See below
Light source Designation	LED × 8

SUMMARY

Test Description	Test Results	
	Number Passed	Number Failed
- Physical Inspection	2	-
- Photometry Test	2	-
- Color Test	2	-
- Dust Test	Not Tested	-
- Moisture Test	Not Tested	-
- Corrosion Test	Not Tested	-
- Vibration Test	Not Tested	-

Remarks : _____

A handwritten signature in black ink that reads 'Archer Chang' in a cursive style.

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : August 27, 2021

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



PHYSICAL INSPECTION

Inspection Performed by : Bo Yang Lee Date : 2021/8/24

Marking on Lens	LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO RH: LOGO DOT SAE S T I R P2 A 20 511-NS006	
Marking on Housing	12V	
Lens Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate N-000 Clear	
Coating of External Lens	-	
Light Sources Used	Trade No/ Designation	LED
	Quantity	8
	Rated Voltage	12 V

Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

**PHOTOMETRY TEST**

Test Performed by : Bo Yang Lee Date : 2021/8/24
 Test distance(m) : 3.167 m Light Source Designation : LED × 8
 Tested Voltage : 12.8 V Lighted Sections : -

Steady Burning at H-V (according to SAE J1889)	Sample 1 (LH)			Sample 2 (RH)		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	223.7	215.8	1.04	207.7	200.4	1.04

Test Points	Zone	Two Lamps System		Sample 1 (LH)	Sample 2 (RH)
		Minimum (cd)	Maximum (cd)	Measured	Measured
5U - 45L	1	15	300	53.180	10.050
H - 45L	1	15	300	67.720	22.030
5D - 45L	1	15	-	74.550	24.290
H - 30L	2	25	300	131.200	137.000
5D - 30L	2	25	-	150.600	155.700
10U - 10L	3	10	300	137.000	123.000
10U - V	3	15	300	138.200	139.400
10U - 10R	3	10	300	117.200	137.900
5U - 10L	3	20	300	184.500	157.900
5U - V	3	25	300	183.700	186.500
5U - 10R	3	20	300	154.100	186.800
H - 10L	4	50	300	224.100	170.500
H - V	4	80	300	215.800	200.400
H - 10R	4	50	300	182.300	210.800
5D - 10L	4	50	-	263.400	205.700
5D - V	4	80	-	262.200	240.600
5D - 10R	4	50	-	210.100	233.200
H - 30R	5	25	300	123.100	125.400
5D - 30R	5	25	-	140.700	138.100
5U - 45R	6	15	300	9.880	47.580
H - 45R	6	15	300	21.520	58.470
5D - 45R	6	15	-	26.930	63.070
Maximum		-	300	228.317	214.407

Zone Total Luminous Intensity

Zone	Minimum (cd)	Sample 1 (LH)	Sample 2 (RH)
1	45	195.450	56.370
2	50	281.800	292.700
3	100	914.700	931.500
4	360	1357.900	1261.200
5	50	263.800	263.500
6	45	58.330	169.120

(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.

Report No. : 108-ISOQA-21-0605

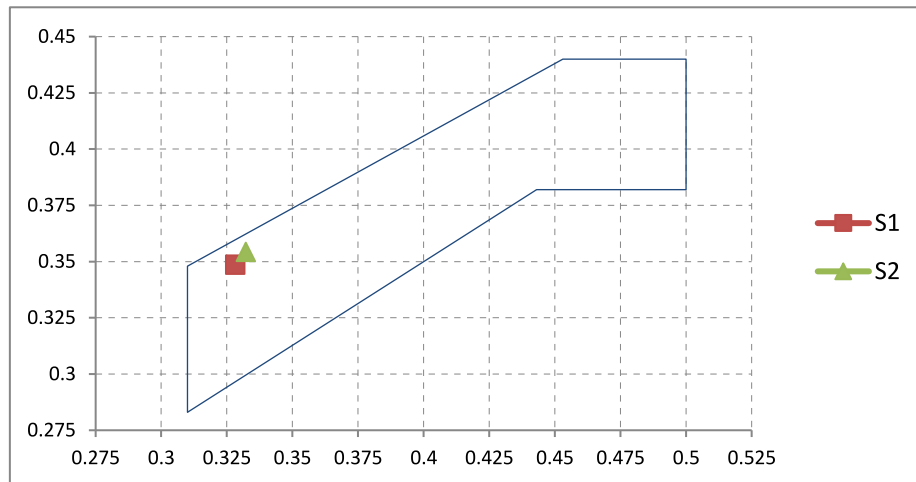
Test Component : 511-NS006

Applicant : Morimoto Lighting

COLOR TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
Test distance(m) : 3.073 m Light Source Designation : LED × 8
Color of Light Emitted : White

Color emitted from HV point		Sample 1 (LH)	Sample 2 (RH)
	x=	0.3283	0.3323
	y=	0.3486	0.3543



Remarks :

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



SIDE MARKER LAMP TEST REPORT

Test Component	511-NS006
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2021/8/24
Report Number	108-ISOQA-21-0605
Number of devices tested	See below
Light source Designation	LED × 3

SUMMARY

Test Description	Test Results	
	Number Passed	Number Failed
- Physical Inspection	2	-
- Photometry Test	2	-
- Color Test	2	-
- Dust Test	Not Tested	-
- Moisture Test	Not Tested	-
- Corrosion Test	Not Tested	-
- Vibration Test	Not Tested	-

Remarks : _____

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : August 27, 2021

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



PHYSICAL INSPECTION

Inspection Performed by : Bo Yang Lee Date : 2021/8/24

Marking on Lens	LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO RH: LOGO DOT SAE S T I R P2 A 20 511-NS006	
Marking on Housing	12V	
Lens Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate N-000 Clear	
Coating of External Lens	-	
Light Sources Used	Trade No/ Designation	LED
	Quantity	3
	Rated Voltage	12 V

Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006
 Applicant : Morimoto Lighting

**PHOTOMETRY TEST**

Test Performed by : Bo Yang Lee Date : 2021/8/24
 Test distance(m) : 3.167 m Light Source Designation : LED × 3
 Tested Voltage : 12.8 V

Steady Burning at H-V (according to SAE J1889)	Sample 1 (LH)			Sample 2 (RH)		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	8.290	6.689	1.24	8.610	7.079	1.22

Test Points		Minimum (cd)		Sample 1 (LH)	Sample 2 (RH)
LHM	RHM	FMVSS 108	SAE J2042	Measured	Measured
H - V	H - V	0.25	-	6.689	7.079
10U - 45L	10U - 45L	0.25	-	5.186	1.908
10U - V	10U - V	0.25	-	6.209	6.494
10U - 45R	10U - 45R	0.25	-	1.288	4.868
H - 45L	H - 45L	0.25	-	4.776	1.776
H - 45R	H - 45R	0.25	-	1.445	4.977
5D - 45L	5D - 45L	0.25	-	5.003	1.782
5D - V	5D - V	0.25	-	6.672	7.060
5D - 45R	5D - 45R	0.25	-	1.452	4.836

Report No. : 108-ISOQA-21-0605

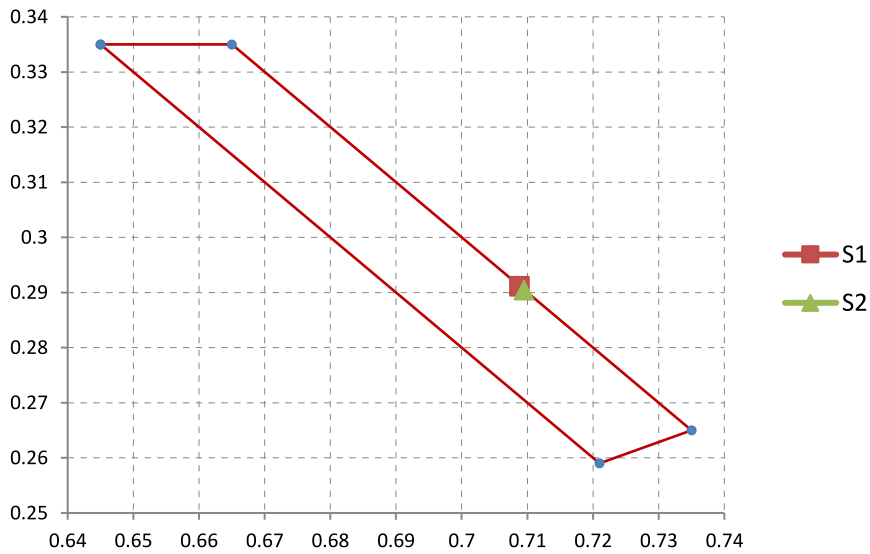
Test Component : 511-NS006
Applicant : Morimoto Lighting



COLOR TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
Test distance(m) : 3.073 m Light Source Designation : LED × 3
Color of Light Emitted : Red

Color emitted from HV point	Sample 1 (LH)		Sample 2 (RH)
	x=	0.7088	0.7095
	y=	0.2911	0.2904



Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting

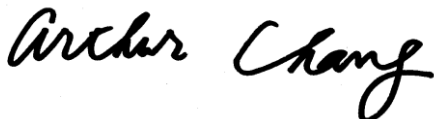
(REAR / SIDE) REFLEX REFLECTOR TEST REPORT

Test Component	511-NS006
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2021/8/24
Report Number	108-ISOQA-21-0605
Number of devices tested	See below
Light source Designation	N/A

SUMMARY

Test Description	Test Results	
	Number Passed	Number Failed
- Physical Inspection	2 of each	-
- Photometry Test	2 of each	-
- Color Test	2 of each	-
- Dust Test	Not Tested	-
- Moisture Test	Not Tested	-
- Corrosion Test	Not Tested	-
- Vibration Test	Not Tested	-

Remarks : _____



Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : August 27, 2021

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



PHYSICAL INSPECTION

Inspection Performed by : Bo Yang Lee Date : 2021/8/24

Marking on Lens	LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO RH: LOGO DOT SAE S T I R P2 A 20 511-NS006	
Marking on Housing	12V	
Reflex Reflector Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylat R-003 Red	
Coating of External Lens	-	
Light Sources Used	Trade No/ Designation	N/A
	Quantity	N/A
	Rated Voltage	N/A

Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



PHOTOMETRY TEST - REAR REFLEX REFLECTOR

Test Performed by : Bo Yang Lee Date : 2021/8/24
Test distance(m) : 100 ft Color of Light Emitted : Red

Observe Angle	Entrance Angle	Minimum (Mcd/ Lux)	Sample 1 (LH)	Sample 2 (RH)
0.2	H V	420	737.000	987.000
0.2	H 10U	280	589.000	693.000
0.2	H 10D	280	618.000	896.000
0.2	20L V	140	316.000	702.000
0.2	20R V	140	468.000	434.000
1.5	H V	6	14.700	17.800
1.5	H 10U	5	10.500	13.700
1.5	H 10D	5	11.200	14.400
1.5	20L V	3	7.100	9.700
1.5	20R V	3	8.500	9.200

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



PHOTOMETRY TEST - SIDE REFLEX REFLECTOR

Test Performed by : Bo Yang Lee Date : 2021/8/24
Test distance(m) : 100 ft Color of Light Emitted : Red

Observe Angle	Entrance Angle	Minimum (Mcd/ Lux)	Sample 1 (LH)	Sample 2 (RH)
0.2	H V	420	636.000	503.000
0.2	H 10U	280	532.000	454.000
0.2	H 10D	280	624.000	471.000
0.2	20L V	140	736.000	160.800
0.2	20R V	140	152.800	782.000
1.5	H V	6	10.800	9.700
1.5	H 10U	5	10.600	8.300
1.5	H 10D	5	11.100	7.900
1.5	20L V	3	13.100	4.000
1.5	20R V	3	3.600	10.700

COLOR TEST

Test Performed by : Bo Yang Lee Date : 2021/8/24
Color of Light Emitted : Red

Requirement (Visual Method)	PASS	FAILED
Red. Red is not acceptable if it is less saturated (paler), yellow, or bluer than the limit standards.	x	

Remarks : _____

Report No. : 108-ISOQA-21-0605

Test Component : 511-NS006

Applicant : Morimoto Lighting



Front View



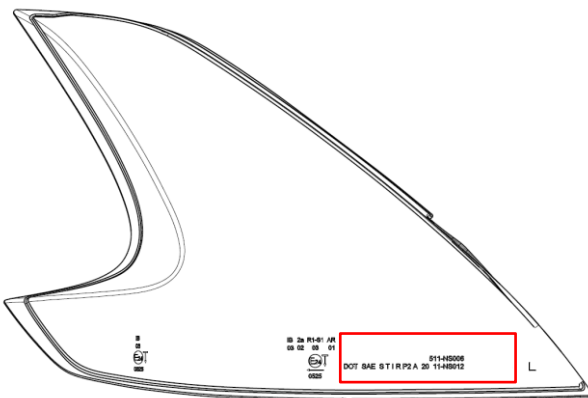
Side View



Top View



Rear View



12



LH: DOT SAE S T I R P2 A 20 511-NS006 LOGO
RH: LOGO DOT SAE S T I R P2 A 20 511-NS006

Marking