



AUTOMOTIVE MANUFACTURERS EQUIPMENT  
COMPLIANCE AGENCY, INC.

## AMECA NOTICE OF EQUIPMENT COMPLIANCE™

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

Notification Number: 201458

Test Report Date: October 26, 2020

Expiration Date: January 1, 2024

Item: "20-GM001/20-GM002" - Combination Turn Signal, Parking, Headlamp, Side Marker And Daytime Running Lamp With Reflex Reflector - White And Yellow In Color

Use: On 2014-2019 Model Years GMC Sierra Motor Vehicles

Jurisdictional Compliance Standard(S)

Identical To: United States FMVSS 571.108 Photometric Only

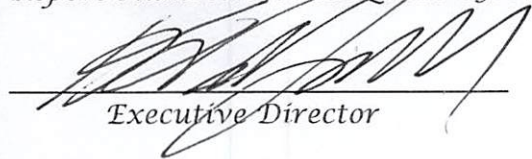
Item Markings: Lens: LOGO DOT SAE HL I5 A P2 DRL P 20  
VOL 20-GM001 (Or GM002)

Housing: 12V

Lightsource: Turn Signal Lamp:	9 LED's, 12.8V
Parking Lamp:	24 LED's, 12.8V
Lower Beam Headlamp:	4 LED's, 12.8V
Upper Beam Headlamp:	4 LED's, 12.8V
Daytime Running Lamp:	24 LED's, 12.8V
Side Marker Lamp:	3 LED's, 12.8V

Test Lab: ISOQA Technical Service Co., Ltd.

Report Number: 108-ISOQA-20-0580

  
Executive Director



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**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting



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## **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**

*Archer Chang*



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Signature of Responsible Laboratory Official

Title: Laboratory Manager

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Approval Date

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

## PRODUCT INFORMATION

Test Component	20-GM001/20-GM002
Applicant	Morimoto Lighting
Manufacturer	same as Applicant
Trade Mark	MORIMOTO
Lens Material	Chimei Corporation WONDERLITE PC-110L Polycarbonate N-102 Clear \$
Coating of Exterior Lens	UVHC 3000
Inner Lens Material	Chimei Corporation WONDERLITE PC-110L Polycarbonate N-102 Clear \$ Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate A-202 Yellow
Reflex Reflector Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate A-202 Yellow
Applicable Vehicle	GMC Sierra 2014-2019
Rated Voltage	12 V
Marking on Lens	RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO
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	Reflex Reflector	Front Turn Signal Lamp	Parking Lamp	Daytime Running Lamp	Side Marker Lamp	
Requirements	FMVSS 108 SAE J594	FMVSS 108 SAE J588	FMVSS 108 SAE J222	FMVSS 108 SAE J2087	FMVSS 108 SAE J592	
Identification Code of SAE J759	A	I5	P	DRL	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	-	Clear	Clear	Clear	Yellow	
Color of Light Emitted	Yellow	Yellow	White	White	Yellow	
Light Source Designation	N/A	LED × 9	LED × 24	LED × 24	LED × 3	
Design Voltage	N/A	12.8 V	12.8 V	12.8 V	12.8 V	
Rated Mean Spherical Candlepower	N/A	-	-	-	-	
Effective projected illuminated area of lens (mm <sup>2</sup> )	N/A	2224	N/A	4887	N/A	
Method of determination	N/A	Projected	N/A	Projected	N/A	
Test Item	Inspector	Date	Number of Tested			
Physical Inspection	Bo Yang Lee	2020/10/14	2	2	2	2
Photometry Test	Bo Yang Lee	2020/10/14	2	2	2	2
Color Test	Bo Yang Lee	2020/10/14	2	2	2	2



**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

Functions			Headlamp - Upper Beam	Headlamp - Lower Beam			
Requirements			FMVSS 108	FMVSS 108			
Identification Code of SAE J759			HL	HL			
Number of Compartments or Lamps			1	1			
Color of External Lens			Clear	Clear			
Color of Inner Lens or Filter			-	-			
Color of Light Emitted			White	White			
Light Source type and Trade Number			LED × 4	LED × 4			
Design Voltage			12.8 V	12.8 V			
Rated Mean Spherical Candlepower			-	-			
Effective Projected Luminous Lens Area (cm <sup>2</sup> )			N/A	N/A			
Method of determination			N/A	N/A			
Test Item	Inspector	Date	Number of Tested				
Physical Inspection	Bo Yang Lee	2020/10/14	2	2			
Photometry Test	Bo Yang Lee	2020/10/14	2	2			
Color Test	Bo Yang Lee	2020/10/14	2	2			

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting



## REFLEX REFLECTOR TEST REPORT

Test Component	20-GM001/20-GM002
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2020/10/14
Report Number	108-ISOQA-20-0580
Number of devices tested	See below
Light source Designation	N/A

### 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: : October 26, 2020

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

**PHYSICAL INSPECTION**

Inspection Performed by : Bo Yang Lee Date : 2020/10/14

Marking on Lens	RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO	
Marking on Housing	12V	
Reflex Reflector Material	Chimei Corporation ACRYREX CM-205 Polymethyl Methacrylate A-202 Yell	
Coating of External Lens	UVHC 3000	
Light Sources Used	Trade No/ Designation	N/A
	Quantity	N/A
	Rated Voltage	N/A

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





**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

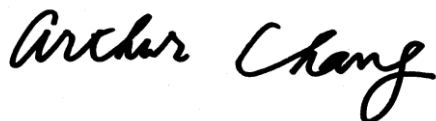
**TURN SIGNAL LAMP TEST REPORT**

Test Component	20-GM001/20-GM002
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2020/10/14
Report Number	108-ISOQA-20-0580
Number of devices tested	See below
Light source Designation	LED × 9

**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 : The DRL is optically combined with the turn signal lamp and will be automatically deactivated as a DRL when the turn signal lamp is activated, and automatically reactivated as a DRL when the turn signal lamp is deactivated.



Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : October 26, 2020

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

**PHYSICAL INSPECTION**

Inspection Performed by : Bo Yang Lee Date : 2020/10/14

Marking on Lens	RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO		
Marking on Housing	12V		
Lens Material	Chimei Corporation WONDERLITE PC-110L Polycarbonate N-102 Clear \$		
Coating of External Lens	UVHC 3000		
Light Sources Used	Trade No/ Designation	LED	
	Quantity	9	
	Rated Voltage	12 V	

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

**EFFECTIVE PROJECTED LUMINOUS LENS AREA**

Test Performed by : Bo Yang Lee Date : 2020/10/14

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	2224	PASSED

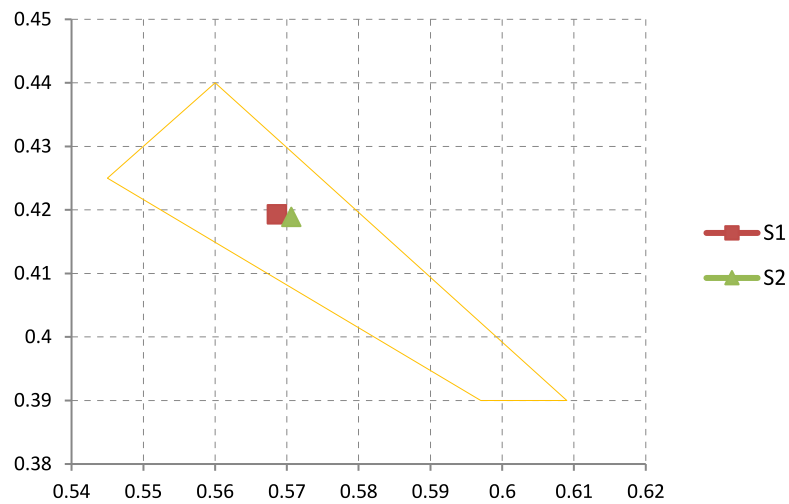
Remarks : \_\_\_\_\_



COLOR TEST

Test Performed by : Bo Yang Lee                      Date : 2020/10/14  
Test distance(m) : 3.073 m                      Light Source Designation : LED x 9  
Color of Light Emitted : Yellow

Color emitted from HV point	Sample 1 (LHM)		Sample 2 (RHM)
	x=	0.5686	0.5706
	y=	0.4193	0.4189



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



**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

**PHYSICAL INSPECTION**

Inspection Performed by : Bo Yang Lee Date : 2020/10/14

Marking on Lens	RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO	
Marking on Housing	12V	
Lens Material	Chimei Corporation WONDERLITE PC-110L Polycarbonate N-102 Clear \$	
Coating of External Lens	UVHC 3000	
Light Sources Used	Trade No/ Designation	LED
	Quantity	24
	Rated Voltage	12 V

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

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

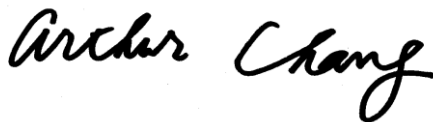
## PARKING LAMP TEST REPORT

Test Component	20-GM001/20-GM002
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2020/10/14
Report Number	108-ISOQA-20-0580
Number of devices tested	See below
Light source Designation	LED × 24

### 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: : October 26, 2020







**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

**PHYSICAL INSPECTION**

Inspection Performed by : Bo Yang Lee Date : 2020/10/14

Marking on Lens	RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO		
Marking on Housing	12V		
Lens Material	Chimei Corporation WONDERLITE PC-110L Polycarbonate N-102 Clear \$		
Coating of External Lens	UVHC 3000		
Light Sources Used	Trade No/ Designation	LED	
	Quantity	24	
	Rated Voltage	12 V	

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

**Unobstructed Effective Projected Luminous Lens Area**

Test Performed by : Bo Yang Lee Date : 2020/10/14

Vehicle Type	Passenger cars, multipurpose passenger vehicles, trucks, trailers, and buses of less than 2032 mm in overall width		
Method of determination	Projected		
Unobstructed effective projected luminous lens area (mm <sup>2</sup> )	Requirement	Value	Result
	2500	4887	PASSED

Remarks : Required by SAE J2087 \_\_\_\_\_

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

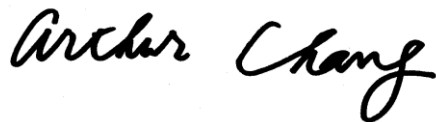
## DAYTIME RUNNING LAMP TEST REPORT

Test Component	20-GM001/20-GM002
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2020/10/14
Report Number	108-ISOQA-20-0580
Number of devices tested	See below
Light source Designation	LED × 24

### 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 : The DRL is optically combined with the turn signal lamp and will be automatically deactivated as a DRL when the turn signal lamp is activated, and automatically reactivated as a DRL when the turn signal lamp is deactivated.



Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : October 26, 2020

## PHOTOMETRY TEST

Test Performed by	: Bo Yang Lee	Date	: 2020/10/14
Test distance(m)	: 3.167 m	Light Source Designation	: LED × 24
Test Voltage	: 12.8 V	Lighted Sections	: N/A

Steady Burning at H-V (according to SAE J1889)	Sample 1 (LHM)			Sample 2 (RHM)		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
		955.0	938.0	1.02	1043.0	1022.0

Test Points	Zone	Minimum (cd)	Maximum (cd)	Sample 1 (LHM)	Sample 2 (RHM)
				Measured <sup>(1)</sup>	Measured <sup>(1)</sup>
5U - V	1	350	2500	685.400	734.200
H - 5L	1	450	2500	1066.000	810.000
H - V	1	500	2500	938.000	1022.000
H - 5R	1	450	2500	700.900	1043.000
5D - V	1	350	2500	786.500	848.000
5U - 10L	2	100	2500	614.000	447.900
H - 20L	2	50	2500	377.700	249.300
H - 10L	2	350	2500	823.000	616.700
5D - 10L	2	100	2500	663.900	495.800
5U - 10R	3	100	2500	381.500	574.500
H - 10R	3	350	2500	500.200	780.000
H - 20R	3	50	2500	228.600	307.000
5D - 10R	3	100	2500	417.300	607.900

### Zone Total Luminous Intensity

Zone	Minimum (cd)	Sample 1 (LHM)	Sample 2 (RHM)
1	2100.0	4176.800	4457.200
2	600.0	2478.600	1809.700
3	600.0	1527.600	2269.400

(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-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

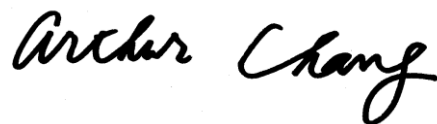
## SIDE MARKER LAMP TEST REPORT

Test Component	20-GM001/20-GM002
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2020/10/14
Report Number	108-ISOQA-20-0580
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: : October 26, 2020

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

**PHYSICAL INSPECTION**

Inspection Performed by : Bo Yang Lee Date : 2020/10/14

Marking on Lens	RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO	
Marking on Housing	12V	
Lens Material	Chimei Corporation WONDERLITE PC-110L Polycarbonate N-102 Clear \$	
Coating of External Lens	UVHC 3000	
Light Sources Used	Trade No/ Designation	LED
	Quantity	3
	Rated Voltage	12 V

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







**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

## HEADLAMP TEST REPORT

Test Component	20-GM001/20-GM002
Applicant	Morimoto Lighting
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2020/10/14
Report Number	108-ISOQA-20-0580
Number of devices tested	See below
Light source Designation	Upper Beam - LED × 4 Lower Beam - LED × 4

### SUMMARY

Test Description	Test Results	
	Number Passed	Number Failed
- Physical Inspection	2	-
- Photometry Test	2	-
- Color Test	2	-
- Dust Test	Not Tested	-
- Corrosion Test	Not Tested	-
- Vibration Test	Not Tested	-
- Abrasion Test	Not Tested	-
- Chemical Resistance Test	Not Tested	-
- Temp. Cycle Test	Not Tested	-
- Internal Heat Test	Not Tested	-
- Humidity Test	Not Tested	-

Remarks : The headlamps designed to provide alternately a driving-beam and a passing-beam

*Archer Chang*

Signature of Responsible Laboratory Official

Title : Laboratory Manager

Date: : October 26, 2020

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

**PHYSICAL INSPECTION**

Inspection Performed by : Bo Yang Lee Date : 2020/10/14

Marking on Lens	RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO		
Marking on Housing	12V		
Lens Material	Chimei Corporation WONDERLITE PC-110L Polycarbonate N-102 Clear \$		
Coating of External Lens	UVHC 3000		
Light Sources Used	Function	Upper Beam	Lower Beam
	Trade No/ Designation	LED	LED
	Quantity	4	4
	Rated Voltage	12 V	12 V

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

**PHOTOMETRY TEST**

Test Performed by : Bo Yang Lee                      Date : 2020/10/14  
 Test distance(m) : 25 m                              Test Voltage : 12.8 V  
 Light Source Designation : Upper Beam - LED × 4 / Lower Beam - LED × 4

Steady Burning at H - V (according to SAE J2650)	Sample 1 (LHM)			Sample 2 (RHM)		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	65430.0	60740.0	1.08	54760.0	49790.0	1.10

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

Test Points	Minimum (cd)	Maximum (cd)	Sample 1 (LHM)	Sample 2 (RHM)
			Measured	Measured
2U - V	1500	-	11010.000	5718.000
1U - 3L	5000	-	33040.000	34380.000
1U - 3R	5000	-	27050.000	27570.000
H - V	40000	75000	60740.000	49790.000
H - 3L	15000	-	36570.000	40490.000
H - 3R	15000	-	32230.000	31190.000
H - 6L	5000	-	20040.000	16310.000
H - 6R	5000	-	12070.000	12310.000
H - 9L	3000	-	6555.000	5937.000
H - 9R	3000	-	5053.000	5071.000
H - 12L	1500	-	2779.000	2939.000
H - 12R	1500	-	2312.000	2349.000
1.5D - V	5000	-	23440.000	25350.000
1.5D - 9L	2000	-	3940.000	4260.000
1.5D - 9R	2000	-	4054.000	3774.000
2.5D - V	2500	-	9770.000	9940.000
2.5D - 12L	1000	-	2402.000	2198.000
2.5D - 12R	1000	-	2209.000	2094.000
4D - V	-	12000	3934.000	3996.000

**Report No. : 108-ISOQA-20-0580**

Test Component : 20-GM001/20-GM002

Applicant : Morimoto Lighting

Steady Burning at 1.5D - 2R (according to SAE J2650)	Sample 1 (LHM)			Sample 2 (RHM)		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	24000	21070	1.14	25860	22160	1.17

## LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Sample 1 (LHM)	Sample 2 (RHM)
			Measured	Measured
10U to 90U	-	125	49.490	42.676
4U - 8L	64	-	111.200	87.300
4U - 8R	64	-	83.900	108.900
2U - 4L	135	-	261.200	181.000
1.5U - 1R to 3R	200	-	608.442	528.416
1.5U - 1R to R	-	1400	661.127	560.531
1U - 1.5L to L	-	700	540.976	414.336
0.5U - 1.5L to L	-	1000	807.011	639.299
0.5U - 1R to 3R	500	2700	(1510.319)	(1629.98)
			1802.825	2041.696
H - 4L	135	-	794.000	891.000
H - 8L	64	-	629.800	533.700
0.6D - 1.3R	10000	-	38340.000	38870.000
0.86D - V	4500	-	36960.000	39760.000
0.86D - 3.5L	1800	12000	4181.000	9330.000
1.5D - 2R	15000	-	21070.000	22160.000
2D - 9L	1250	-	3559.000	3553.000
2D - 9R	1250	-	3602.000	3324.000
2D - 15L	1000	-	1915.000	1777.000
2D - 15R	1000	-	1720.000	1570.000
4D - 4R	-	12500	3377.000	3196.000
4D - 20L	300	-	779.000	590.000
4D - 20R	300	-	555.800	629.400





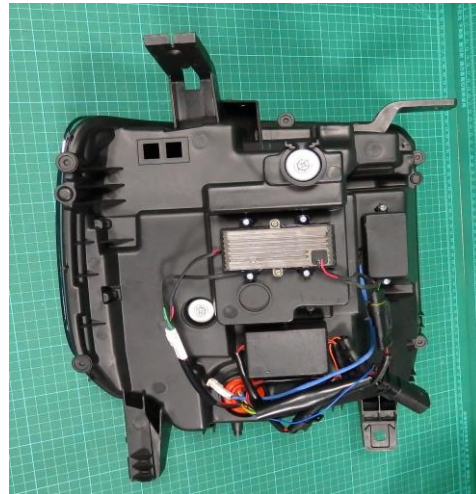
Front View



Side View



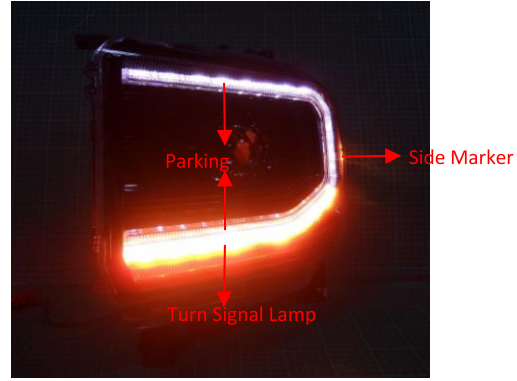
Top View



Rear View



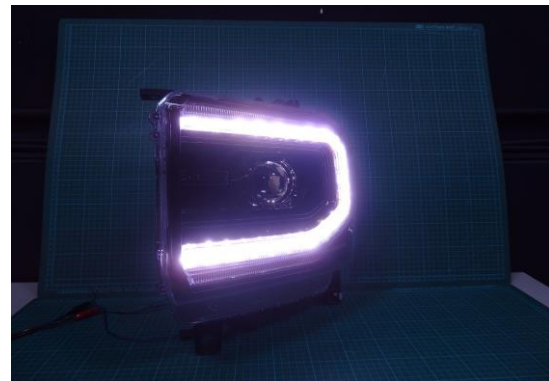
Turn Signal Lamp



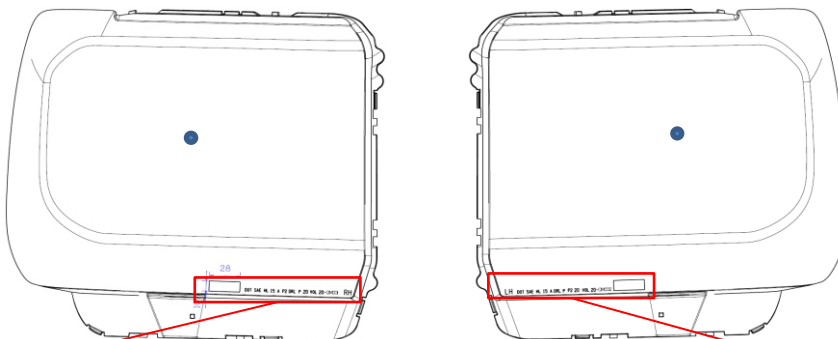
Turn Signal Lamp / Parking Lamp / Side marker lamp



Parking Lamp / Side marker lamp



DRL



12V

LOGO



RH: **LOGO** DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001  
 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 **LOGO**

RH: LOGO DOT SAE HL I5 A P2 DRL P 20 VOL 20-GM001  
 LH: DOT SAE HL I5 A DRL P P2 20 VOL 20-GM002 LOGO

**Marking**