

Report No. : 108-ISOQA-18-0161

Test Component : WIN-201

Applicant : GUANGZHOU EUROLITE TECHNOLOGY
LIMITED



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

Signature of Responsible Laboratory Official
Title: Laboratory Manager

April 18, 2018

Approval Date



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Report Prepared By : Renae Xu
 Review By : Lisa Liu
 Approval By : Arthur Chang



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Applicant : GUANGZHOU EUROLITE TECHNOLOGY LIMITED

PRODUCT INFORMATION

Test Component	WIN-201
Applicant	GUANGZHOU EUROLITE TECHNOLOGY LIMITED
Manufacturer	Same as Applicant
Trade Mark	sunpie
Lens Material	PC
Coating of External Lens	-
Inner Lens Material	PC
Reflex Reflector Material	-
Applicable Vehicle	on Motor Vehicles (Jeep Wrangler 1997-2017 Hummer H1 H2)
Rated Voltage	12 V
Marking on Lens	None
Marking on Housing	None
Method of Mounting to Vehicle	bolted

* Above-mentioned information is provided by the applicant

Functions			Headlamp - Lower Beam	Headlamp - Upper Beam			
Requirements			FMVSS 108	FMVSS 108			
Identification Code of SAE J759			HL	HL			
Number of Compartments or Lamps			1	1			
Color of Lens			Clear	Clear			
Color of Light Emitted			White	White			
Light Source Designation			LED × 10	LED × 14 (10 + 4) **			
Design Voltage			12.8 V	12.8 V			
Rated Mean Spherical Candlepower			-	-			
Effective projected illuminated area of lens (mm ²)			N/A	N/A			
Method of determination			N/A	N/A			
Test Item	Inspector	Date	Number of Tested				
Physical Inspection	Bo Yang Lee	2018/3/1	2	2			
Photometry Test	Bo Yang Lee	2018/3/1	2	2			
Color Test	Bo Yang Lee	2018/3/1	2	2			
Moisture Test	John Lai	2018/4/9	1	1			
Corrosion Test	John Lai	2018/4/11	1	1			
Vibration Test	May Chang	2018/3/30	1	1			
Dust Test	John Lai	2018/3/29	1	1			
Abrasion Test	John Lai	2018/4/3	1	1			
Chemical Resistance Test	John Lai	2018/4/11	1	1			
Temp. Cycle Test	John Lai	2018/4/3	1	1			
Internal Heat Test	John Lai	2018/4/3	1	1			
Humidity Test	John Lai	2018/4/9	1	1			

** There are 4 (out of 10) LEDs of lower beam light sources to remain activated when upper beams are activated.



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HEADLAMP TEST REPORT

Test Component	WIN-201
Applicant	GUANGZHOU EUROLITE TECHNOLOGY LIMITED
Test Laboratory	ISOQA Technical Service Co., Ltd.
Test Date	2018/3/1 - 2018/4/11
Report Number	108-ISOQA-18-0161
Number of devices tested	See below
Light Source Designation	Upper Beam - LED × 14 (10 + 4) Lower Beam - LED × 10

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 : April 18, 2018



Report No. : 108-ISOQA-18-0161*Test Component* : WIN-201*Applicant* : GUANGZHOU EUROLITE TECHNOLOGY
LIMITED**PHYSICAL INSPECTION**

Inspection Performed by : Bo Yang Lee

Date

: 2018/3/1

Marking on Lens	None		
Marking on Housing	None		
Lens Material	PC		
Coating of External Lens	-		
Light Sources Used	Function	Upper Beam	Lower Beam
	Trade No/Designation	LED	LED
	Quantity	14 (10 + 4)	10
	Rated Voltage	12 V	12 V

Remarks : _____



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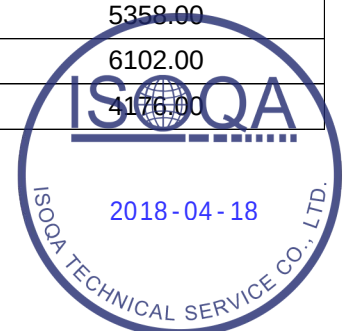
PHOTOMETRY TEST

Test Performed by : Bo Yang Lee Date : 2018/3/1
 Test Distance (m) : 25 m Test Voltage : 12.8 V
 Light Source Designation : Upper Beam - LED × 14 (10 + 4) / Lower Beam - LED × 10

Steady Burning at H - V (according to SAE J2650)	Sample 1			Sample 2		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	48550	45670	1.06	47730	44700	1.07

UB2 - Upper Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Sample 1	Sample 2
			Measured	Measured
2U - V	1500	-	40250.00	37600.00
1U - 3L	5000	-	23010.00	25430.00
1U - 3R	5000	-	19200.00	24170.00
H - V	40000	75000	45670.00	44700.00
H - 3L	15000	-	36250.00	33070.00
H - 3R	15000	-	32280.00	32510.00
H - 6L	5000	-	13640.00	11320.00
H - 6R	5000	-	12630.00	12450.00
H - 9L	3000	-	6795.00	5831.00
H - 9R	3000	-	6756.00	6651.00
H - 12L	1500	-	3991.00	3693.00
H - 12R	1500	-	3804.00	3257.00
1.5D - V	5000	-	11910.00	8930.00
1.5D - 9L	2000	-	6957.00	5172.00
1.5D - 9R	2000	-	5737.00	5831.00
2.5D - V	2500	-	5134.00	4860.00
2.5D - 12L	1000	-	5568.00	5358.00
2.5D - 12R	1000	-	6084.00	6102.00
4D - V	-	12000	4125.00	4176.00



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Steady Burning at 1.5D - 2R (according to SAE J2650)	Sample 1			Sample 2		
	1 min.	Steady	Ratio	1 min.	Steady	Ratio
	27900	27560	1.01	23110	22950	1.01

LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Sample 1	Sample 2
			Measured	Measured
10U to 90U	-	125	84.28	81.18
4U - 8L	64	-	74.30	76.20
4U - 8R	64	-	81.30	76.80
2U - 4L	135	-	139.90	151.70
1.5U - 1R to 3R	200	-	204.79	224.00
1.5U - 1R to R	-	1400	203.81	261.02
1U - 1.5L to L	-	700	188.93	222.29
0.5U - 1.5L to L	-	1000	279.49	314.89
0.5U - 1R to 3R	500	2700	(971.03) 1238.79	(840.92) 922.42
H - 4L	135	-	711.50	1024.00
H - 8L	64	-	201.50	377.90
0.6D - 1.3R	10000	-	19750.00	18760.00
0.86D - V	4500	-	20600.00	20540.00
0.86D - 3.5L	1800	12000	5633.00	6478.00
1.5D - 2R	15000	-	27560.00	22950.00
2D - 9L	1250	-	4510.00	4198.00
2D - 9R	1250	-	4841.00	5348.00
2D - 15L	1000	-	2207.00	2308.00
2D - 15R	1000	-	2675.00	2667.00
4D - 4R	-	12500	10990.00	9470.00
4D - 20L	300	-	4130.00	3636.00
4D - 20R	300	-	2989.00	2453.00



COLOR TEST

Test Performed by : Bo Yang Lee

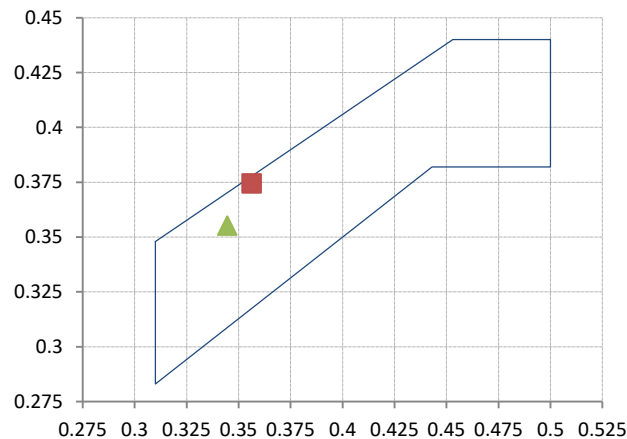
Date : 2018/3/1

Test Distance (m) : 3.073 m

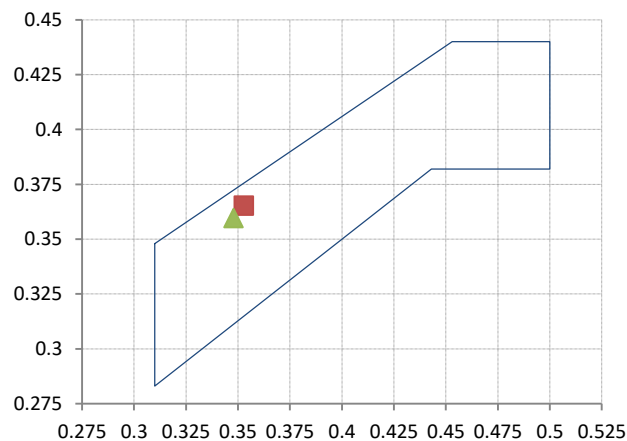
Color of Light Emitted : White

Color emitted from HV point		Sample 1	Sample 2
Upper Beam	x=	0.3564	0.3447
	y=	0.3744	0.3552
Lower Beam	x=	0.3529	0.3479
	y=	0.3652	0.3595

Upper Beam



Lower Beam



—■— S1
—▲— S2

—■— S1
—▲— S2



Remarks :

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LIMITED**DUST TEST**

Inspection Performed by : John Lai

Date

: 2018/3/29

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

Remarks : _____

CORROSION TEST

Inspection Performed by : John Lai

Date

: 2018/4/11

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 : _____



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Test Component : WIN-201

Applicant : GUANGZHOU EUROLITE TECHNOLOGY
LIMITED**VIBRATION TEST**

Inspection Performed by : May Chang

Date

: 2018/3/30

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 : _____

ABRASION TEST

Inspection Performed by : John Lai

Date

: 2018/4/3

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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Applicant : GUANGZHOU EUROLITE TECHNOLOGY
LIMITED**CHEMICAL RESISTANCE TEST**

Inspection Performed by : John Lai Date : 2018/4/11

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 : _____

TEMP. CYCLE TEST

Inspection Performed by : John Lai Date : 2018/4/3

Requirement	Yes	No
After the test, the sample headlamp shall: (a) show no evidence of delamination, fractures, entry of moisture, or deterioration of bonding material, color bleeding, warp or deformation visible without magnification; (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 (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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LIMITED**INTERNAL HEAT TEST**

Inspection Performed by : John Lai

Date

: 2018/4/3

Requirement	Yes	No
After the test, the sample headlamp shall: (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 (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 : _____

HUMIDITY TEST

Inspection Performed by : John Lai

Date

: 2018/4/9

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 : _____



PHOTOMETRY AFTER DUST TEST

UB2 - Upper Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
2U - V	1500	-	44320.00	-
1U - 3L	5000	-	21970.00	-
1U - 3R	5000	-	21740.00	-
H - V	40000	75000	50700.00	-
H - 3L	15000	-	33930.00	-
H - 3R	15000	-	37710.00	-
H - 6L	5000	-	12370.00	-
H - 6R	5000	-	14430.00	-
H - 9L	3000	-	6383.00	-
H - 9R	3000	-	7484.00	-
H - 12L	1500	-	3967.00	-
H - 12R	1500	-	4005.00	-
1.5D - V	5000	-	11330.00	-
1.5D - 9L	2000	-	6287.00	-
1.5D - 9R	2000	-	6100.00	-
2.5D - V	2500	-	5110.00	-
2.5D - 12L	1000	-	5753.00	-
2.5D - 12R	1000	-	6166.00	-
4D - V	-	12000	4148.00	-



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LIMITED

LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
10U to 90U & 90L to 90 R	-	125	90.19	-
4U - 8L	64	-	73.70	-
4U - 8R	64	-	82.30	-
2U - 4L	135	-	139.60	-
1.5U - 1R to 3R	200	-	207.94	-
1.5U - 1R to R	-	1400	204.74	-
1U - 1.5L to L	-	700	189.12	-
0.5U - 1.5L to L	-	1000	288.63	-
0.5U - 1R to 3R	500	2700	(946.00)	-
			1374.20	-
H - 4L	135	-	755.20	-
H - 8L	64	-	188.00	-
0.6D - 1.3R	10000	-	16400.00	-
0.86D - V	4500	-	15800.00	-
0.86D - 3.5L	1800	12000	4834.00	-
1.5D - 2R	15000	-	28440.00	-
2D - 9L	1250	-	4425.00	-
2D - 9R	1250	-	5513.00	-
2D - 15L	1000	-	2211.00	-
2D - 15R	1000	-	2538.00	-
4D - 4R	-	12500	12500.00	-
4D - 20L	300	-	4133.00	-
4D - 20R	300	-	3061.00	-



PHOTOMETRY AFTER ABRASION TEST

UB2 - Upper Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
2U - V	1500	-	42130.00	-
1U - 3L	5000	-	24520.00	-
1U - 3R	5000	-	19530.00	-
H - V	40000	75000	45140.00	-
H - 3L	15000	-	37060.00	-
H - 3R	15000	-	30710.00	-
H - 6L	5000	-	12500.00	-
H - 6R	5000	-	12080.00	-
H - 9L	3000	-	6172.00	-
H - 9R	3000	-	6649.00	-
H - 12L	1500	-	3866.00	-
H - 12R	1500	-	3398.00	-
1.5D - V	5000	-	10480.00	-
1.5D - 9L	2000	-	5351.00	-
1.5D - 9R	2000	-	6066.00	-
2.5D - V	2500	-	5119.00	-
2.5D - 12L	1000	-	5458.00	-
2.5D - 12R	1000	-	5789.00	-
4D - V	-	12000	4893.00	-



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LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
10U to 90U & 90L to 90 R	-	125	72.87	-
4U - 8L	64	-	66.20	-
4U - 8R	64	-	71.40	-
2U - 4L	135	-	136.10	-
1.5U - 1R to 3R	200	-	205.26	-
1.5U - 1R to R	-	1400	170.51	-
1U - 1.5L to L	-	700	177.98	-
0.5U - 1.5L to L	-	1000	219.84	-
0.5U - 1R to 3R	500	2700	(723.00) 873.395	- -
H - 4L	135	-	465.10	-
H - 8L	64	-	200.20	-
0.6D - 1.3R	10000	-	10080.00	-
0.86D - V	4500	-	9570.00	-
0.86D - 3.5L	1800	12000	4500.00	-
1.5D - 2R	15000	-	24830.00	-
2D - 9L	1250	-	3782.00	-
2D - 9R	1250	-	5349.00	-
2D - 15L	1000	-	2674.00	-
2D - 15R	1000	-	2434.00	-
4D - 4R	-	12500	12260.00	-
4D - 20L	300	-	3584.00	-
4D - 20R	300	-	3163.00	-



PHOTOMETRY AFTER CHEMICAL RESISTANCE TEST

UB2 - Upper Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
2U - V	1500	-	47790.00	-
1U - 3L	5000	-	19520.00	-
1U - 3R	5000	-	19560.00	-
H - V	40000	75000	49130.00	-
H - 3L	15000	-	31730.00	-
H - 3R	15000	-	38340.00	-
H - 6L	5000	-	11670.00	-
H - 6R	5000	-	14580.00	-
H - 9L	3000	-	6138.00	-
H - 9R	3000	-	7636.00	-
H - 12L	1500	-	4057.00	-
H - 12R	1500	-	4203.00	-
1.5D - V	5000	-	16630.00	-
1.5D - 9L	2000	-	6578.00	-
1.5D - 9R	2000	-	6700.00	-
2.5D - V	2500	-	5052.00	-
2.5D - 12L	1000	-	5601.00	-
2.5D - 12R	1000	-	6166.00	-
4D - V	-	12000	4675.00	-



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LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
10U to 90U & 90L to 90 R	-	125	95.56	-
4U - 8L	64	-	77.90	-
4U - 8R	64	-	88.80	-
2U - 4L	135	-	139.90	-
1.5U - 1R to 3R	200	-	203.77	-
1.5U - 1R to R	-	1400	208.73	-
1U - 1.5L to L	-	700	196.68	-
0.5U - 1.5L to L	-	1000	253.21	-
0.5U - 1R to 3R	500	2700	(552.00)	-
			861.847	-
H - 4L	135	-	497.40	-
H - 8L	64	-	169.00	-
0.6D - 1.3R	10000	-	12880.00	-
0.86D - V	4500	-	11950.00	-
0.86D - 3.5L	1800	12000	3528.00	-
1.5D - 2R	15000	-	28440.00	-
2D - 9L	1250	-	3901.00	-
2D - 9R	1250	-	5408.00	-
2D - 15L	1000	-	1928.00	-
2D - 15R	1000	-	2386.00	-
4D - 4R	-	12500	11710.00	-
4D - 20L	300	-	4412.00	-
4D - 20R	300	-	3264.00	-



PHOTOMETRY AFTER TEMP. CYCLE TEST

UB2 - Upper Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
2U - V	1500	-	46910.00	-
1U - 3L	5000	-	18100.00	-
1U - 3R	5000	-	24440.00	-
H - V	40000	75000	51610.00	-
H - 3L	15000	-	27370.00	-
H - 3R	15000	-	45270.00	-
H - 6L	5000	-	10800.00	-
H - 6R	5000	-	16850.00	-
H - 9L	3000	-	5829.00	-
H - 9R	3000	-	8350.00	-
H - 12L	1500	-	4027.00	-
H - 12R	1500	-	4517.00	-
1.5D - V	5000	-	14620.00	-
1.5D - 9L	2000	-	5852.00	-
1.5D - 9R	2000	-	6704.00	-
2.5D - V	2500	-	4932.00	-
2.5D - 12L	1000	-	5818.00	-
2.5D - 12R	1000	-	6111.00	-
4D - V	-	12000	4426.00	-



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LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
10U to 90U & 90L to 90 R	-	125	91.30	-
4U - 8L	64	-	73.10	-
4U - 8R	64	-	80.90	-
2U - 4L	135	-	139.40	-
1.5U - 1R to 3R	200	-	214.05	-
1.5U - 1R to R	-	1400	195.29	-
1U - 1.5L to L	-	700	283.84	-
0.5U - 1.5L to L	-	1000	345.05	-
0.5U - 1R to 3R	500	2700	(710.00)	-
			957.986	-
H - 4L	135	-	600.70	-
H - 8L	64	-	169.80	-
0.6D - 1.3R	10000	-	16380.00	-
0.86D - V	4500	-	16290.00	-
0.86D - 3.5L	1800	12000	4498.00	-
1.5D - 2R	15000	-	27680.00	-
2D - 9L	1250	-	4271.00	-
2D - 9R	1250	-	5036.00	-
2D - 15L	1000	-	2092.00	-
2D - 15R	1000	-	2435.00	-
4D - 4R	-	12500	12250.00	-
4D - 20L	300	-	4303.00	-
4D - 20R	300	-	3405.00	-



PHOTOMETRY AFTER INTERNAL HEAT TEST

UB2 - Upper Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
2U - V	1500	-	46210.00	-
1U - 3L	5000	-	15200.00	-
1U - 3R	5000	-	27730.00	-
H - V	40000	75000	50930.00	-
H - 3L	15000	-	23480.00	-
H - 3R	15000	-	49800.00	-
H - 6L	5000	-	9930.00	-
H - 6R	5000	-	20900.00	-
H - 9L	3000	-	5447.00	-
H - 9R	3000	-	9230.00	-
H - 12L	1500	-	3980.00	-
H - 12R	1500	-	4937.00	-
1.5D - V	5000	-	12880.00	-
1.5D - 9L	2000	-	5392.00	-
1.5D - 9R	2000	-	6882.00	-
2.5D - V	2500	-	5071.00	-
2.5D - 12L	1000	-	6028.00	-
2.5D - 12R	1000	-	6259.00	-
4D - V	-	12000	4511.00	-



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Test Component : WIN-201

Applicant : GUANGZHOU EUROLITE TECHNOLOGY
LIMITED

LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
10U to 90U & 90L to 90 R	-	125	91.92	-
4U - 8L	64	-	71.40	-
4U - 8R	64	-	88.30	-
2U - 4L	135	-	139.80	-
1.5U - 1R to 3R	200	-	206.50	-
1.5U - 1R to R	-	1400	208.65	-
1U - 1.5L to L	-	700	195.30	-
0.5U - 1.5L to L	-	1000	266.59	-
0.5U - 1R to 3R	500	2700	(801.59) 1901.299	- -
H - 4L	135	-	491.80	-
H - 8L	64	-	162.00	-
0.6D - 1.3R	10000	-	11060.00	-
0.86D - V	4500	-	10190.00	-
0.86D - 3.5L	1800	12000	3699.00	-
1.5D - 2R	15000	-	28150.00	-
2D - 9L	1250	-	3791.00	-
2D - 9R	1250	-	6539.00	-
2D - 15L	1000	-	2271.00	-
2D - 15R	1000	-	2901.00	-
4D - 4R	-	12500	10980.00	-
4D - 20L	300	-	4550.00	-
4D - 20R	300	-	15180.00	-



PHOTOMETRY AFTER HUMIDITY TEST

UB2 - Upper Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
2U - V	1500	-	30560.00	-
1U - 3L	5000	-	26860.00	-
1U - 3R	5000	-	33770.00	-
H - V	40000	75000	41790.00	-
H - 3L	15000	-	26220.00	-
H - 3R	15000	-	32460.00	-
H - 6L	5000	-	9190.00	-
H - 6R	5000	-	12240.00	-
H - 9L	3000	-	4972.00	-
H - 9R	3000	-	6551.00	-
H - 12L	1500	-	2907.00	-
H - 12R	1500	-	3519.00	-
1.5D - V	5000	-	5600.00	-
1.5D - 9L	2000	-	5072.00	-
1.5D - 9R	2000	-	6477.00	-
2.5D - V	2500	-	5022.00	-
2.5D - 12L	1000	-	5796.00	-
2.5D - 12R	1000	-	6369.00	-
4D - V	-	12000	3781.00	-



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Test Component : WIN-201

Applicant : GUANGZHOU EUROLITE TECHNOLOGY
LIMITED

LB2V - Lower Beam Photometric Test Point Values

Test Points	Minimum (cd)	Maximum (cd)	Measured	-
10U to 90U & 90L to 90 R	-	125	74.29	-
4U - 8L	64	-	73.00	-
4U - 8R	64	-	77.60	-
2U - 4L	135	-	138.00	-
1.5U - 1R to 3R	200	-	207.91	-
1.5U - 1R to R	-	1400	190.83	-
1U - 1.5L to L	-	700	188.92	-
0.5U - 1.5L to L	-	1000	239.56	-
0.5U - 1R to 3R	500	2700	(756.00) 851.57	- -
H - 4L	135	-	427.60	-
H - 8L	64	-	199.80	-
0.6D - 1.3R	10000	-	10980.00	-
0.86D - V	4500	-	11070.00	-
0.86D - 3.5L	1800	12000	4529.00	-
1.5D - 2R	15000	-	24460.00	-
2D - 9L	1250	-	3823.00	-
2D - 9R	1250	-	5362.00	-
2D - 15L	1000	-	2514.00	-
2D - 15R	1000	-	2476.00	-
4D - 4R	-	12500	11380.00	-
4D - 20L	300	-	3766.00	-
4D - 20R	300	-	2903.00	-





Front View



Side View



Top View



Rear View

