

# Test Report

Report No.: GZES200101032531

Date: 2020-06-01

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant: Blueview Elec-optic Tech Co., Ltd  
No.1000, Section 2, 2nd Konggang Road, Southwest Aviation Industrial Development Zone, Chengdu, Sichuan, China

Manufacturer: Same as applicant

Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch  
198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China

Standard(s): IES LM-79-08

Test item description: 2835 LED waterproof white injection LED module

Trade Mark/Brand: —

Model/Type reference: SS9

Ratings: 12 V DC; 100 mA; 1.08 W; 10000 K

Test result: See Page 4-8.

Remark: When determining for test conclusion, measurement uncertainty of tests has been considered.



Alex Tan

Alex Tan  
Reviewer  
E&E Safety Laboratory

Justin Xie

Justin Xie  
Sr Project Engineer



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## Test Report

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Copy of marking plate									
N/A									
<b>Summary of testing:</b> The Unit Under Test operated at constant 12 V DC and measured Light Distribution, total luminous flux, luminous efficacy, CCT and colour rendering index.									
<b>Test item particulars</b> .....: <table border="0"> <tr> <td>Lamp cap .....</td> <td>—</td> </tr> <tr> <td>Lamp identification .....</td> <td>—</td> </tr> <tr> <td>Ambient temperature .....</td> <td>25 °C</td> </tr> <tr> <td>IP number .....</td> <td>—</td> </tr> </table>		Lamp cap .....	—	Lamp identification .....	—	Ambient temperature .....	25 °C	IP number .....	—
Lamp cap .....	—								
Lamp identification .....	—								
Ambient temperature .....	25 °C								
IP number .....	—								
<b>Possible test case verdicts:</b> - test case does not apply to the test object.....: N/A (not applicable) - test object does meet the requirement.....: P (Pass) - test object does not meet the requirement.....: F (Fail)									
<b>Testing</b> Date of receipt of test item.....: 2020-01-07 Date (s) of performance of tests.....: 2020-01-07 to 2020-01-16									
<b>General product information:</b> LED module.									



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## 1 Test conditions

Before measurements are taken, there is no seasoning for the LED luminaire(s), and the luminaire(s) was/were measured after reaching the stabilization. The sample was mounted at light down position. The ambient temperature during measurements was  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ .

The Total Luminous Flux and Light Distribution were measured by a calibrated Type C Goniophotometer, with photometric distance 7.30 m.

The Color Characteristics were measured by a calibrated 2m Integrating Sphere System which consists of an integrating sphere, spectroradiometer and software in  $2\pi$  geometry taken at least 5 nm intervals over the range of 380 to 780 nm. The coating reflectance is 98%.



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## 2 Test Results

### I) The Luminous Flux, Luminous Efficacy and Light Distribution

Test Voltage: 12.0 V DC  
 Input Current: 0.033 A  
 Total Operating Time: 65 min  
 Stabilization Time: 40 min  
 Power: 0.396 W  
 Total Luminous Flux: 32.66 lm  
 Luminous Efficacy : 82.5 lm/W  
 Beam Angle : H: 170.6° ; V: 170.4°

### ZONAL LUMEN SUMMARY

$\gamma(^{\circ})$	Zone lumens	$\gamma(^{\circ})$	Zone lumens
0-10	1.06	90-100	0.01
10-20	3.04	100-110	0.00
20-30	4.63	110-120	0.00
30-40	5.64	120-130	0.00
40-50	5.92	130-140	0.00
50-60	5.44	140-150	0.00
60-70	4.25	150-160	0.00
70-80	2.21	160-170	0.00
80-90	0.45	170-180	0.00

$\gamma(^{\circ})$	Zone lumens	% Lamp	$\gamma(^{\circ})$	Zone lumen	% Lamp
0-30	8.74	26.76%	60-90	6.91	21.17%
0-40	14.38	44.03%	90-120	0.01	0.04%
0-60	25.73	78.79%	90-130	0.01	0.04%
0-90	32.64	99.96%	90-150	0.01	0.04%
0-120	32.66	100.00%	90-180	0.01	0.04%
0-180	32.66	100.00%	0-60.85	26.13	80.00%

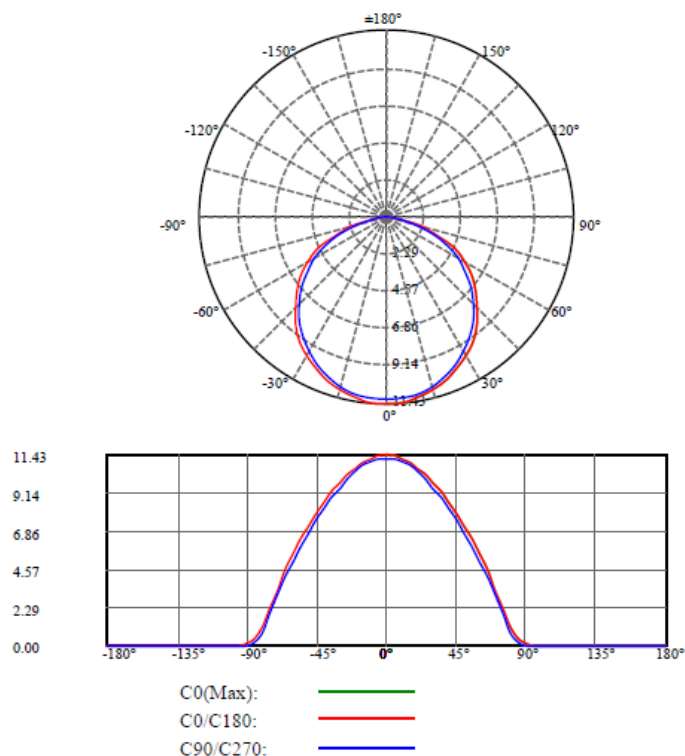


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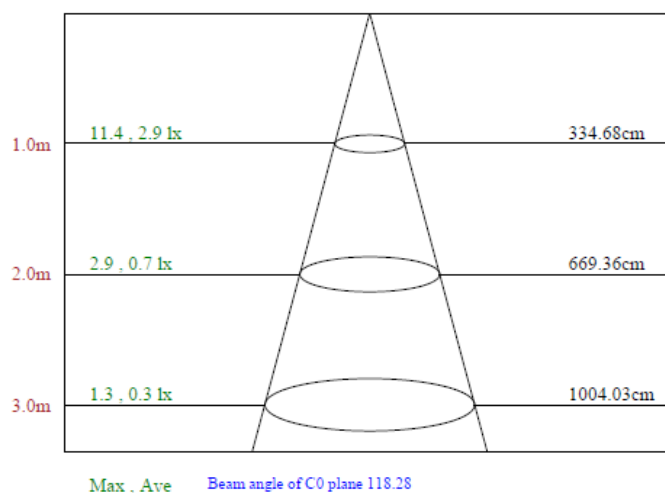
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Light distribution Curve [unit: cd]



Lux Distance Curve



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## Intensity data (cd)

C/y(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	11.43	11.37	11.14	10.85	10.50	10.10	9.57	9.05	8.41
22.5	11.20	11.20	10.97	10.73	10.39	9.92	9.40	8.88	8.24
45.0	11.14	11.14	10.97	10.73	10.33	9.92	9.34	8.70	8.12
67.5	11.20	11.14	10.97	10.62	10.33	9.81	9.34	8.59	7.89
90.0	11.14	11.08	10.91	10.62	10.21	9.69	9.11	8.53	7.83
112.5	11.14	11.08	10.85	10.56	10.15	9.81	9.22	8.53	7.83
135.0	11.14	10.97	10.85	10.62	10.27	9.81	9.17	8.53	7.83
157.5	11.37	11.20	10.91	10.68	10.27	9.86	9.17	8.53	7.83
180.0	11.43	11.37	11.20	10.97	10.68	10.33	9.92	9.40	8.76
202.5	11.20	11.14	10.91	10.68	10.39	10.10	9.81	9.28	8.70
225.0	11.14	11.14	10.97	10.68	10.39	10.10	9.81	9.34	8.70
247.5	11.20	11.14	11.02	10.79	10.50	10.15	9.81	9.40	8.76
270.0	11.14	11.20	11.14	10.97	10.62	10.21	9.69	9.28	8.70
292.5	11.14	11.14	11.14	10.91	10.62	10.33	9.86	9.28	8.64
315.0	11.14	11.14	11.14	10.91	10.62	10.33	9.92	9.40	8.82
337.5	11.37	11.43	11.31	11.08	10.85	10.50	10.04	9.52	8.93
360.0	11.43	11.37	11.14	10.85	10.50	10.10	9.57	9.05	8.41
C/y(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.72	7.02	6.27	5.45	4.47	3.13	1.86	0.75	0.23
22.5	7.60	6.79	6.15	5.28	4.29	3.07	1.68	0.70	0.23
45.0	7.48	6.79	5.98	5.05	4.18	2.96	1.45	0.58	0.12
67.5	7.14	6.32	5.51	4.76	3.83	2.61	1.10	0.35	0.00
90.0	7.02	6.09	5.28	4.47	3.54	2.49	1.04	0.23	0.00
112.5	7.14	6.21	5.34	4.35	3.48	2.49	1.10	0.35	0.00
135.0	7.02	6.15	5.28	4.41	3.60	2.55	1.28	0.52	0.12
157.5	7.02	6.15	5.40	4.41	3.66	2.61	1.45	0.64	0.17
180.0	8.01	7.25	6.50	5.63	4.64	3.60	2.61	1.45	0.64
202.5	7.95	7.19	6.32	5.40	4.47	3.48	2.55	1.28	0.52
225.0	8.06	7.25	6.32	5.40	4.47	3.48	2.55	1.28	0.41
247.5	8.06	7.31	6.38	5.51	4.53	3.54	2.55	1.22	0.35
270.0	8.06	7.37	6.44	5.57	4.70	3.77	2.73	1.33	0.41
292.5	8.06	7.37	6.56	5.69	4.93	4.06	2.84	1.57	0.52
315.0	8.24	7.48	6.79	5.98	5.22	4.29	3.07	1.74	0.64
337.5	8.30	7.54	6.90	6.09	5.34	4.35	3.02	1.86	0.70
360.0	7.72	7.02	6.27	5.45	4.47	3.13	1.86	0.75	0.23
C/y(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.00
22.5	0.00
45.0	0.00
67.5	0.00
90.0	0.00
112.5	0.00
135.0	0.00
157.5	0.00
180.0	0.00
202.5	0.00
225.0	0.00
247.5	0.00
270.0	0.00
292.5	0.00
315.0	0.00
337.5	0.00
360.0	0.00



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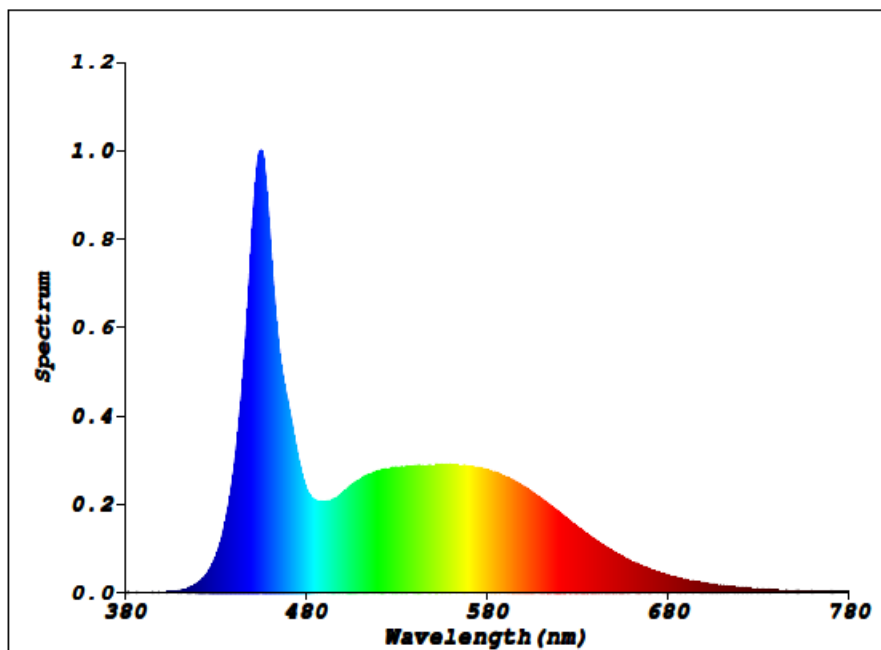
## Test Report

Report No.: GZES200101032531

Date: 2020-06-01

### II) Color Characteristics

Test Voltage:	12 V DC
Input Current:	0.033 A
Total Operating Time:	60 min
Stabilization Time:	40 min
Power:	0.396 W
Chromaticity Coordinate:	$x=0.2770$ ; $y=0.3832$ $u'=0.1896$ ; $v'=0.4361$
Duv :	$2.31 \times 10^{-3}$
Correlated Color Temperature:	10776 K
Color Render Index Ra:	85.2
R9:	23



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### 3 Standard bulb used for system calibration

Model	D062
Intensity Distribution Type	Omni-Directional Type
Calibration current(A)	1.5502
Reference voltage (V)	7.65
Calibration CCT (K)	2992
Calibration luminous Flux (lm)	120.4



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### 4 List of equipment used

Registration No	Equipment name	Cal. Due Date (cycle in years)
GZE003-17	AC/DC Power supply	2020/12/15
GZE006-79	Digital power analyzer	2020/4/7
GZE126-35	Programmable test power for LEDs	2020/11/12
GZE126-31	Standard light source	2020/8/30
GZE126-1	High accuracy array spectroradiometer	2020/12/19
GZE126-3	LED Integrating sphere	2022/12/29
GZE129-1	Goniophotometric system	2020/6/28
GZE012-53	True RMS Multimeter	2020/2/25



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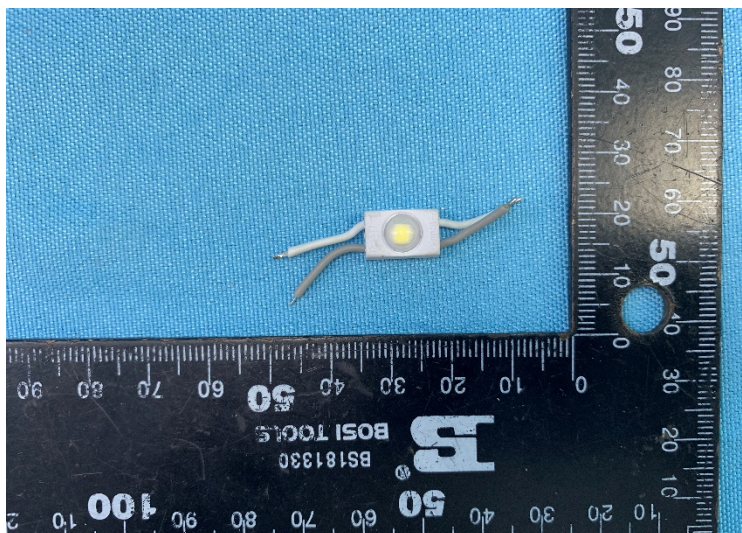
Date: 2020-06-01

## Photo documentation:

Details of: View of the product

View:

- ☒ general
- ☐ front
- ☐ rear
- ☐ right
- ☐ left
- ☐ top
- ☐ bottom



--- End of Report ---



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