

Test Report

Report No.: GZES200101035831

Date: 2020-01-13

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 3 LED waterproof white injection LED module

Trade Mark/Brand: —

Model/Type reference: ST2-HD

Ratings: 12 V DC; 60 mA; 0.72 W; 6500 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

Copy of marking plate

N/A



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Summary of testing:

The Unit Under Test operated at constant 12 V DC and measured Light Distribution, total luminous flux, luminous efficacy, CCT and colour rendering index.

Test item particulars

Lamp cap —
Lamp identification —
Ambient temperature 25 °C
IP number —

Possible test case verdicts:

- 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)

Testing

Date of receipt of test item..... 2020-01-07
Date (s) of performance of tests..... 2020-01-07 to 2020-01-13

General product information:

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 4π 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 V DC
 Input Current: 0.0606 A
 Total Operating Time: 98 min
 Stabilization Time: 33 min
 Power: 0.7272 W
 Total Luminous Flux: 65.76 lm
 Luminous Efficacy : 90.4 lm/W
 Beam Angle : H: 148.6° ; V: 148.8°

ZONAL LUMEN SUMMARY

$\gamma(^{\circ})$	Zone lumens	$\gamma(^{\circ})$	Zone lumens
0-10	1.30	90-100	0.00
10-20	3.99	100-110	0.00
20-30	6.81	110-120	0.00
30-40	9.57	120-130	0.00
40-50	11.92	130-140	0.00
50-60	13.13	140-150	0.00
60-70	11.99	150-160	0.00
70-80	6.46	160-170	0.00
80-90	0.59	170-180	0.00

$\gamma(^{\circ})$	Zone lumens	% Lamp	$\gamma(^{\circ})$	Zone lumen	% Lamp
0-30	12.10	18.40%	90-120	0.00	0.00%
0-40	21.67	32.96%	90-130	0.00	0.00%
0-60	46.72	71.05%	90-120	0.00	0.00%
0-90	65.76	100.00%	90-150	0.00	0.00%
0-120	65.76	100.00%	90-120	0.00	0.00%
0-180	65.76	100.00%	90-180	0.00	0.00%
60-90	19.04	28.95%	0-64.63	52.61	80.00%



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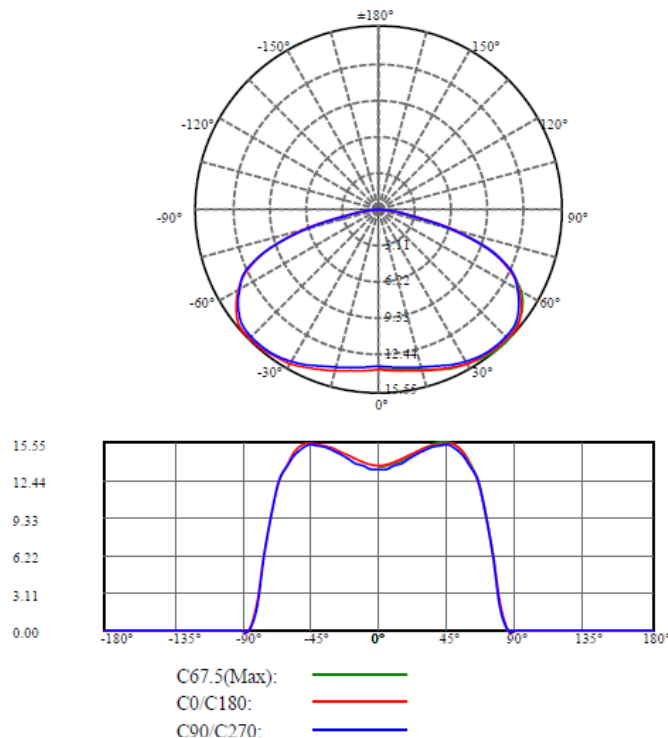
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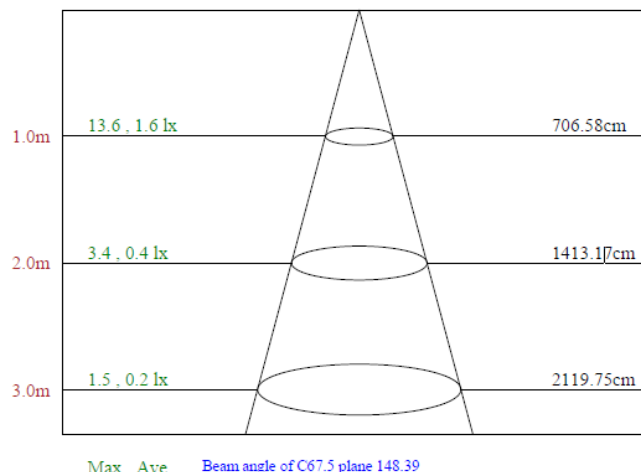
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Light distribution Curve [unit: cd]



Lux Distance Curve



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Intensity data (cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	13.58	13.69	13.87	14.16	14.45	14.77	15.09	15.26	15.35
22.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
45.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
67.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
90.0	13.29	13.37	13.58	13.84	14.16	14.56	14.85	15.14	15.29
112.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
135.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
157.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
180.0	13.58	13.69	13.87	14.16	14.45	14.77	15.09	15.26	15.35
202.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
225.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
247.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
270.0	13.29	13.37	13.58	13.84	14.16	14.56	14.85	15.14	15.29
292.5	13.49	13.58	13.79	14.04	14.40	14.82	15.10	15.35	15.51
315.0	13.46	13.55	13.75	14.00	14.37	14.71	15.03	15.26	15.46
337.5	13.52	13.58	13.78	14.06	14.39	14.68	14.98	15.17	15.36
360.0	13.58	13.69	13.87	14.16	14.45	14.77	15.09	15.26	15.35

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	15.43	15.35	14.74	13.72	12.33	9.92	6.27	2.29	0.00
22.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
45.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
67.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
90.0	15.32	15.11	14.53	13.66	12.45	9.92	6.18	1.92	0.00
112.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
135.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
157.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
180.0	15.43	15.35	14.74	13.72	12.33	9.92	6.27	2.29	0.00
202.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
225.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
247.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
270.0	15.32	15.11	14.53	13.66	12.45	9.92	6.18	1.92	0.00
292.5	15.55	15.32	14.82	13.92	12.37	9.97	6.18	1.90	0.00
315.0	15.43	15.22	14.80	13.82	12.29	9.81	6.27	2.39	0.00
337.5	15.42	15.26	14.80	13.82	12.33	9.86	6.22	2.32	0.00
360.0	15.43	15.35	14.74	13.72	12.33	9.92	6.27	2.29	0.00

C/γ(°)	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	0.00	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



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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

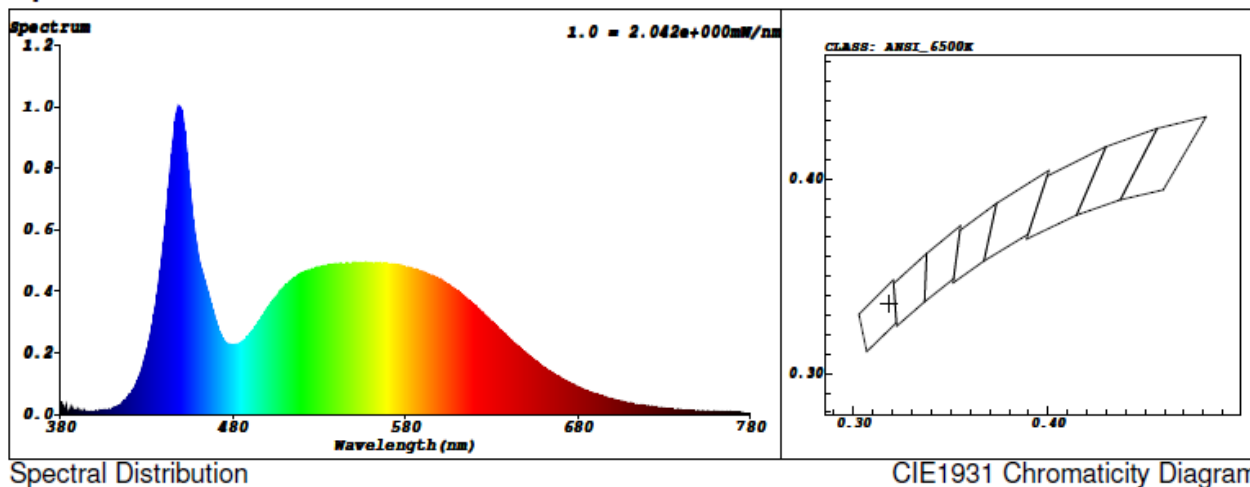
Report No.: GZES200101035831

Date: 2020-01-13

II) Color Characteristics

Test Voltage: 12 V DC
 Input Current: 0.0606 A
 Total Operating Time: 70 min
 Stabilization Time: 63 min
 Power: 0.7272 W
 Chromaticity Coordinate: $x=0.3182$; $y=0.3358$
 $u'=0.1991$; $v'=0.4727$
 Duv : 3.98×10^{-3}
 Correlated Color Temperature: 6180 K
 Color Render Index Ra: 82.4
 R9: 6

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram



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SGS-CS Standards Technical Services Co., Ltd.
 Guangzhou Branch Testing Center EEC Laboratory

No.198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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Test Report

Report No.: GZES200101035831

Date: 2020-01-13

3 Standard bulb used for system calibration

Model	D204H
Intensity Distribution Type	Omni-Directional Type
Calibration current(A)	5,0250
Reference voltage (V)	26,5
Calibration CCT (K)	3217
Calibration luminous Flux (lm)	3000



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4 List of equipment used

Registration No	Equipment name	Cal. Due Date (cycle in years)
GZE003-16	AC/DC Power supply	2020/6/13
GZE006-79	Digital power analyzer	2020/4/7
GZE126-12	Digital CC&CV DC power supply	2020/10/25
GZE126-13	Digital power analyzer	2020/10/30
GZE126-14	AC Testing power source	2020/10/25
GZE126-24	Standard light source	2020/6/25
GZE126-8	High accuracy array spectroradiometer	2020/10/29
GZE126-9	Integrating sphere	2022/12/29
GZE129-1	Goniophotometric system	2020/6/28
GZE012-54	True RMS Multimeter	2020/2/25



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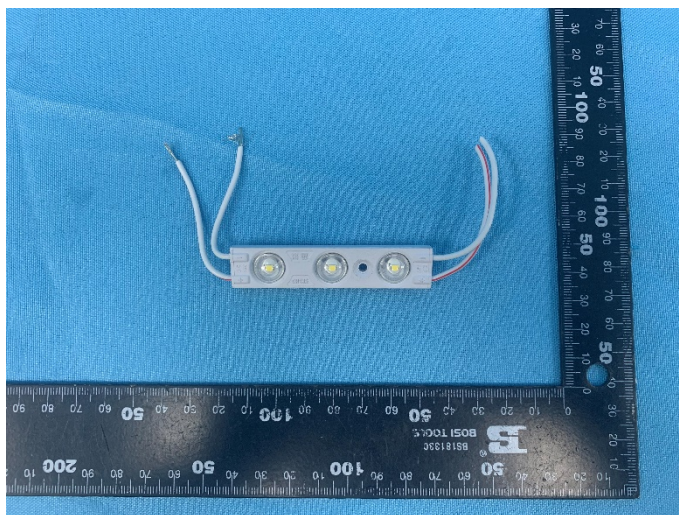
Date: 2020-01-13

Photo documentation:

Details of: View of the product

View:

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



Details of: View of the product

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--- End of Report ---



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