

Test Report

Report No.: GZES200101033431

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 3 LED waterproof white injection LED module

Trade Mark/Brand: —

Model/Type reference: STL-H-3

Ratings: 12 V DC; 100 mA; 1.08 W; 4500 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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Copy of marking plate	
N/A	
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 2020-01-16	
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: 12.0 V DC
 Input Current: 0.087 A
 Total Operating Time: 69 min
 Stabilization Time: 42 min
 Power: 1.044 W
 Total Luminous Flux: 162.17 lm
 Luminous Efficacy : 155.3 lm/W
 Beam Angle : H: 170.6° ; V: 170.4°

ZONAL LUMEN SUMMARY

$\gamma(^{\circ})$	Zone lumens	$\gamma(^{\circ})$	Zone lumens
0-10	1.09	90-100	1.58
10-20	3.54	100-110	0.27
20-30	6.76	110-120	0.10
30-40	11.34	120-130	0.07
40-50	17.56	130-140	0.05
50-60	26.46	140-150	0.04
60-70	41.32	150-160	0.02
70-80	41.65	160-170	0.01
80-90	10.29	170-180	0.00

$\gamma(^{\circ})$	Zone lumens	% Lamp	$\gamma(^{\circ})$	Zone lumen	% Lamp
0-30	11.40	7.03%	60-90	93.27	57.51%
0-40	22.74	14.02%	90-120	1.94	1.20%
0-60	66.76	41.17%	90-130	2.01	1.24%
0-90	160.03	98.68%	90-150	2.10	1.29%
0-120	161.98	99.88%	90-180	2.14	1.32%
0-180	162.17	100.00%	0-74.47	129.73	80.00%



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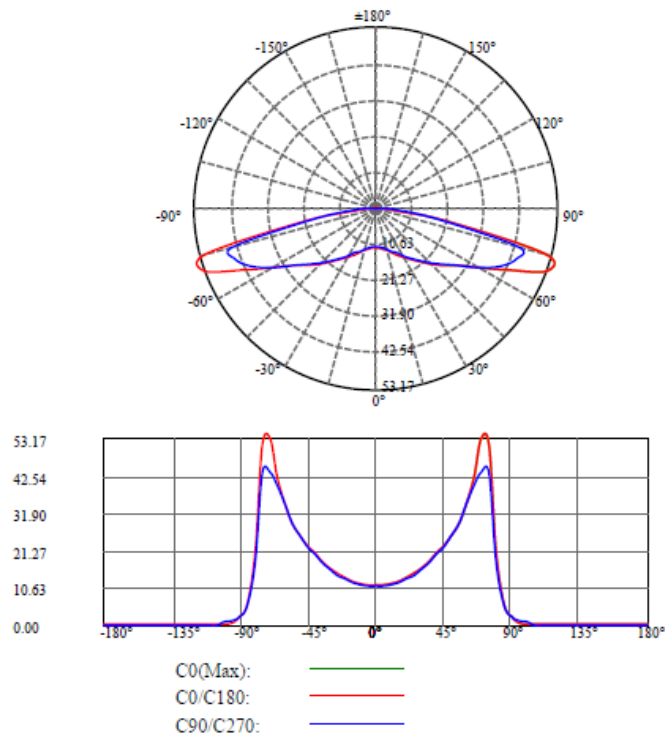
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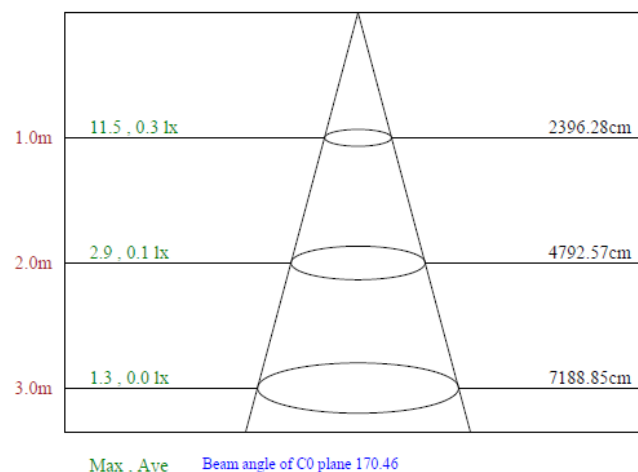
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Light distribution Curve [unit: cd]



Lux Distance Curve



Max , Ave Beam angle of C0 plane 170.46



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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	11.49	11.95	12.71	13.69	15.03	16.59	18.45	20.54	22.86
22.5	11.26	11.60	12.24	13.17	14.33	15.90	17.75	19.78	22.11
45.0	11.26	11.66	12.36	13.29	14.56	16.07	17.93	20.02	22.34
67.5	11.08	11.31	11.84	12.53	13.58	14.91	16.59	18.68	21.00
90.0	11.08	11.26	11.72	12.36	13.29	14.45	16.07	17.93	20.25
112.5	11.20	11.14	11.26	11.72	12.30	13.29	14.56	16.36	18.39
135.0	11.02	10.91	11.02	11.31	11.84	12.65	13.92	15.49	17.46
157.5	11.08	10.79	10.62	10.73	11.08	11.66	12.59	13.98	15.72
180.0	11.49	11.26	11.31	11.60	12.13	12.94	14.21	16.01	18.04
202.5	11.26	11.14	11.20	11.55	12.13	13.05	14.45	16.13	18.16
225.0	11.26	11.02	11.14	11.49	12.07	13.00	14.27	15.84	17.87
247.5	11.08	11.08	11.31	11.84	12.65	13.69	15.14	17.00	19.03
270.0	11.08	11.20	11.60	12.18	13.05	14.27	15.78	17.70	19.96
292.5	11.20	11.49	12.13	13.00	14.04	15.49	17.41	19.55	21.93
315.0	11.02	11.55	12.24	13.34	14.62	16.19	18.16	20.19	22.74
337.5	11.08	11.78	12.65	13.81	15.37	17.17	19.20	21.52	23.79
360.0	11.49	11.95	12.71	13.69	15.03	16.59	18.45	20.54	22.86
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	25.30	28.14	31.85	37.48	44.09	52.04	55.00	26.92	8.30
22.5	24.54	27.33	31.04	35.28	42.24	50.82	56.57	34.87	10.68
45.0	25.01	27.91	31.50	36.55	44.44	53.26	55.81	27.15	8.88
67.5	23.38	26.05	29.36	34.29	41.19	50.01	55.76	36.03	10.91
90.0	22.74	25.35	28.72	33.24	40.09	50.01	54.19	28.95	9.69
112.5	20.71	23.27	26.17	30.23	36.20	45.83	56.28	39.92	13.46
135.0	19.67	22.28	25.41	29.47	35.62	45.20	54.77	34.06	11.60
157.5	17.93	20.19	23.03	26.40	31.50	41.08	53.38	44.91	14.39
180.0	20.42	22.98	26.11	31.04	40.73	54.31	47.46	15.67	3.66
202.5	20.48	22.92	26.05	31.74	42.88	56.51	41.48	13.40	5.45
225.0	20.02	22.51	25.88	30.98	40.56	53.90	48.85	16.83	6.96
247.5	21.23	24.02	28.14	35.04	45.49	57.21	36.78	8.24	3.42
270.0	22.22	25.18	29.18	35.33	39.68	37.31	32.37	7.43	1.62
292.5	24.60	27.97	32.20	39.63	44.67	25.18	21.18	3.71	0.00
315.0	25.41	28.72	33.53	40.09	45.25	51.52	5.69	0.12	0.00
337.5	26.75	30.58	35.91	42.88	50.71	55.12	26.63	2.90	0.58
360.0	25.30	28.14	31.85	37.48	44.09	52.04	55.00	26.92	8.30
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	2.90	0.81	0.29	0.35	0.41	0.41	0.35	0.35	0.29
22.5	4.29	2.03	0.93	0.23	0.23	0.23	0.17	0.12	0.12
45.0	3.77	2.09	1.16	0.29	0.23	0.12	0.12	0.06	0.00
67.5	4.58	2.38	1.28	0.35	0.00	0.00	0.00	0.00	0.00
90.0	4.06	2.03	1.10	0.12	0.00	0.00	0.00	0.00	0.00
112.5	5.40	2.44	1.16	0.06	0.00	0.00	0.00	0.00	0.00
135.0	4.53	1.86	0.23	0.00	0.00	0.00	0.00	0.00	0.00
157.5	4.53	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.45	0.46	0.41	0.41	0.41	0.35	0.35	0.29	0.29
202.5	2.49	1.04	0.29	0.35	0.35	0.35	0.29	0.23	0.23
225.0	3.02	1.10	0.52	0.23	0.23	0.17	0.12	0.12	0.12
247.5	1.74	0.87	0.52	0.12	0.06	0.00	0.00	0.00	0.00
270.0	0.70	0.81	0.70	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.29	0.93	0.29	0.06	0.00	0.00	0.00	0.00	0.00
315.0	0.81	0.29	0.00	0.06	0.00	0.00	0.00	0.00	0.00
337.5	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	2.90	0.81	0.29	0.35	0.41	0.41	0.35	0.35	0.29



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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	0.29	0.29	0.29	0.29	0.23	0.23	0.29	0.23	0.29
22.5	0.12	0.12	0.06	0.12	0.06	0.06	0.06	0.06	0.06
45.0	0.06	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.06
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	0.29	0.29	0.29	0.23	0.23	0.17	0.23	0.17
202.5	0.23	0.23	0.23	0.23	0.17	0.17	0.17	0.17	0.12
225.0	0.06	0.06	0.06	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	0.29	0.29	0.29	0.29	0.23	0.23	0.29	0.23	0.29

C/γ(°)	180.0
0.0	0.17
22.5	0.06
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	0.17
202.5	0.06
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	0.17



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Test Report

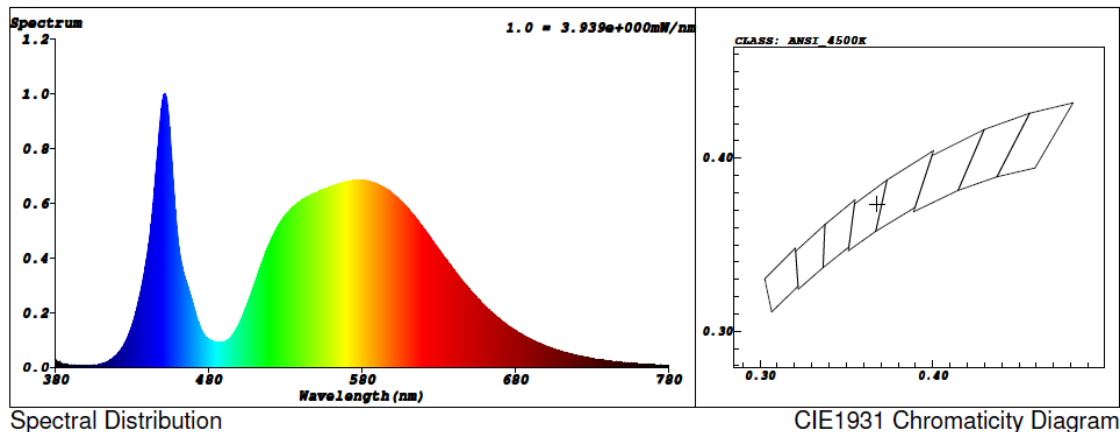
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II) Color Characteristics

Test Voltage: 12 V DC
 Input Current: 0.0869 A
 Total Operating Time: 65 min
 Stabilization Time: 49 min
 Power: 1.0428 W
 Chromaticity Coordinate: $x=0.3678$; $y=0.3733$
 $u'=0.2181$; $v'=0.4982$
 Duv : 2.31×10^{-3}
 Correlated Color Temperature: 4339 K
 Color Render Index Ra: 72.1
 R9: 0

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram



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Test Report

Report No.: GZES200101033431

Date: 2020-06-01

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)
GZE003-17	AC/DC Power supply	2020/12/15
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
GZE012-53	True RMS Multimeter	2020/2/25



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Photo documentation:

Details of: View of the product

View:

☒ general

☐ front

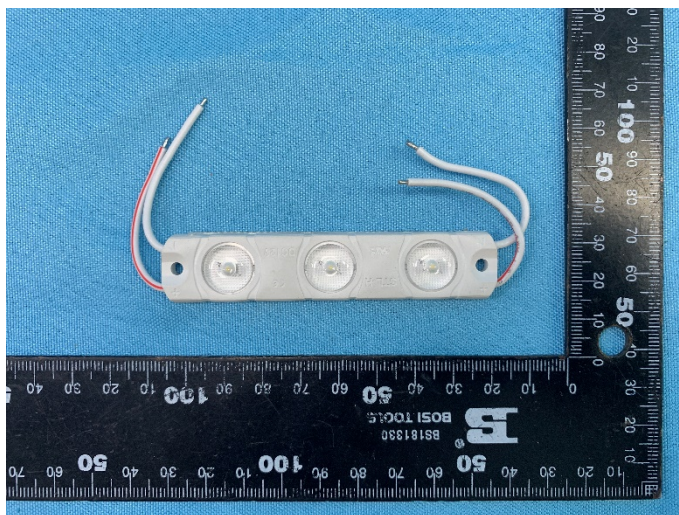
☐ rear

☐ right

☐ left

☐ top

☐ bottom



--- End of Report ---



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