

Test Report

Report No.: GZES200301332731

Date: 2020-03-27

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: 3535 side light strip

Trade Mark/Brand: —

Model/Type reference: BPS300

Ratings: 24 V DC; 21.6 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



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Copy of marking plate									
N/A									
Summary of testing: The Unit Under Test operated at constant 24 V DC and measured Light Distribution, total luminous flux, luminous efficacy, CCT and colour rendering index.									
Test item particulars: <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	—								
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.....: 2020-03-19 Date (s) of performance of tests.....: 2020-03-19 to 2020-03-27									
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: 24 V DC
 Input Current: 0.867 A
 Total Operating Time: 100 min
 Stabilization Time: 62 min
 Power: 21.498 W
 Total Luminous Flux: 2096.68 lm
 Luminous Efficacy : 97.5 lm/W
 Beam Angle : H: 8.4° ; V: 18.4°

ZONAL LUMEN SUMMARY

$\gamma(^{\circ})$	Zone lumens	$\gamma(^{\circ})$	Zone lumens
0-10	1100.38	90-100	16.24
10-20	631.81	100-110	13.40
20-30	99.95	110-120	11.64
30-40	45.36	120-130	9.49
40-50	35.96	130-140	6.51
50-60	35.07	140-150	3.80
60-70	33.93	150-160	2.61
70-80	27.07	160-170	2.02
80-90	20.70	170-180	0.55

$\gamma(^{\circ})$	Zone lumens	% Lamp	$\gamma(^{\circ})$	Zone lumen	% Lamp
0-30	1832.14	87.38%	90-120	41.27	1.97%
0-40	1877.50	89.55%	90-130	50.77	2.42%
0-60	1948.52	92.93%	90-150	61.09	2.91%
0-90	2030.22	96.83%	90-180	66.28	3.16%
0-120	2071.50	98.80%	0-18.29	1677.34	80.00%
0-180	2096.68	100.00%			
60-90	81.70	3.90%			

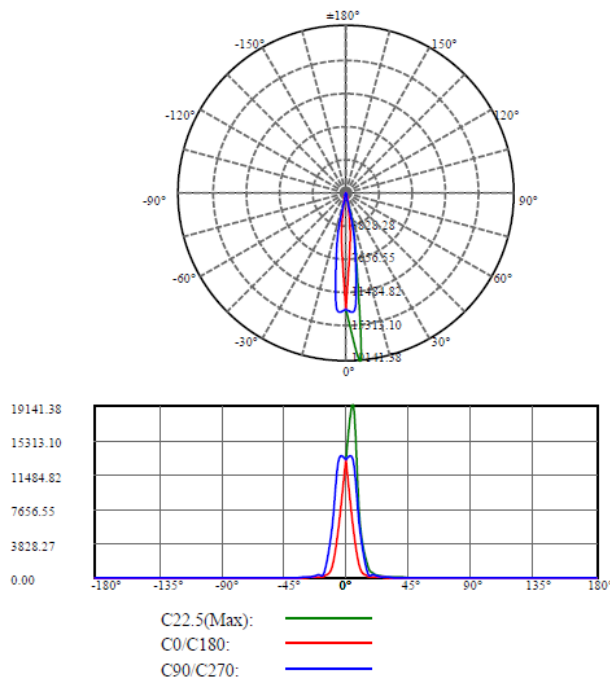


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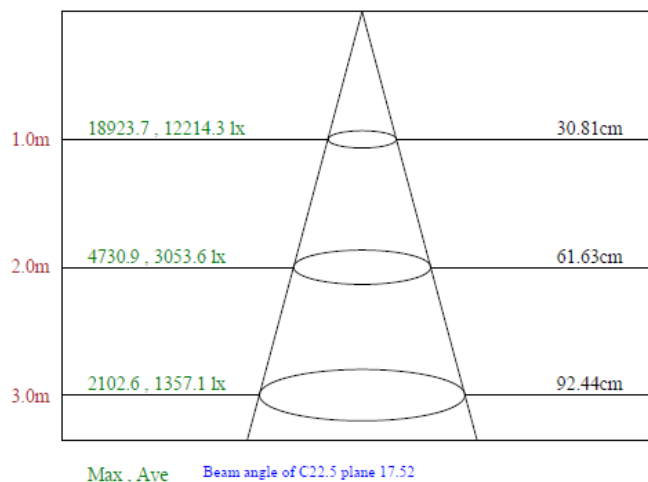
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Light distribution Curve [unit: cd]



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	13244.77	3458.27	582.04	232.75	119.93	59.50	38.54	28.30	22.01
22.5	13244.77	3664.68	902.33	332.86	183.51	89.38	55.14	39.94	32.02
45.0	13244.77	5496.92	1476.97	621.77	271.66	146.11	91.57	69.87	58.34
67.5	13244.77	16292.26	10413.47	3818.89	512.92	225.21	114.20	78.94	62.96
90.0	13244.77	21131.51	9694.20	969.23	421.57	171.92	90.47	58.53	44.05
112.5	13244.77	40196.62	24253.73	5316.20	1025.69	532.29	201.35	123.02	86.23
135.0	13244.77	25031.94	5160.39	1058.80	427.42	195.28	99.40	69.35	52.92
157.5	13244.77	51348.86	18117.09	4963.07	1001.85	670.58	213.34	140.67	106.38
180.0	13244.77	7422.82	1787.68	305.39	177.43	64.13	41.69	29.42	23.19
202.5	13244.77	19400.81	5694.63	296.40	283.24	142.66	71.60	49.71	36.91
225.0	13244.77	23534.08	17495.42	4439.48	765.38	274.02	142.62	94.22	71.92
247.5	13244.77	9777.14	2993.01	917.34	306.13	160.85	96.70	71.51	57.53
270.0	13244.77	4827.28	1258.36	388.34	192.31	96.38	63.89	46.97	38.89
292.5	13244.77	1805.53	905.43	448.72	218.37	144.69	98.21	75.77	63.70
315.0	13244.77	3632.83	578.76	350.70	138.51	85.21	62.90	47.72	39.04
337.5	13244.77	2151.14	926.73	431.81	216.96	144.64	107.66	81.77	69.17
360.0	13244.77	3458.27	582.04	232.75	119.93	59.50	38.54	28.30	22.01

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.77	17.12	15.97	14.73	13.42	12.17	10.43	9.03	8.41
22.5	28.50	26.14	24.92	23.07	20.94	18.59	14.84	13.57	12.53
45.0	52.72	50.68	48.55	46.20	42.71	38.08	32.70	31.03	26.48
67.5	52.16	46.66	46.53	47.92	47.19	42.68	30.95	17.10	13.26
90.0	37.40	32.84	31.60	30.26	28.57	25.89	22.67	18.70	16.96
112.5	69.68	60.84	54.95	51.34	48.20	43.54	38.60	31.56	27.47
135.0	41.96	35.88	33.34	31.92	30.06	27.08	23.61	19.21	17.23
157.5	80.37	68.35	60.77	57.86	55.52	53.42	48.41	39.43	33.24
180.0	19.40	17.47	16.44	15.41	13.98	12.64	10.96	9.06	8.28
202.5	31.44	27.95	26.23	24.74	22.71	20.26	17.37	14.20	12.85
225.0	60.23	53.63	51.89	50.15	47.57	43.92	38.61	33.46	31.18
247.5	49.18	46.20	46.99	47.59	43.01	32.81	15.51	10.67	7.69
270.0	33.23	31.55	30.11	28.22	25.59	22.67	19.10	17.81	15.77
292.5	56.57	52.48	49.25	44.68	39.93	33.94	28.52	26.24	24.53
315.0	35.01	32.91	31.11	28.45	25.28	21.94	18.47	17.35	16.36
337.5	61.35	58.67	55.64	53.19	47.82	39.43	34.06	32.19	30.68
360.0	18.77	17.12	15.97	14.73	13.42	12.17	10.43	9.03	8.41

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	7.97	7.53	7.10	6.85	6.63	6.57	6.69	6.66	6.32
22.5	11.90	11.26	10.40	9.41	9.05	8.96	8.19	6.74	5.38
45.0	21.39	13.96	11.23	9.48	7.74	6.60	5.84	5.16	4.63
67.5	8.75	5.77	4.84	4.97	5.17	4.51	4.11	3.84	3.71
90.0	15.03	13.44	10.96	9.33	8.68	7.94	6.94	5.90	4.91
112.5	25.19	23.58	22.53	21.49	20.63	20.25	20.63	20.44	18.63
135.0	15.93	15.00	14.32	13.76	13.26	13.01	12.95	13.08	13.26
157.5	30.79	28.81	27.41	26.13	25.08	24.61	24.26	24.15	24.61
180.0	7.63	7.19	6.82	6.51	6.35	6.54	6.66	6.66	6.35
202.5	11.85	10.95	9.82	8.96	8.96	9.14	9.05	8.05	6.65
225.0	24.58	18.43	12.59	11.23	9.71	8.42	7.43	6.60	5.92
247.5	4.97	4.51	4.18	4.11	4.04	3.98	3.98	3.78	3.65
270.0	14.19	11.76	9.52	8.48	7.24	6.25	5.31	4.41	3.72
292.5	23.20	22.15	21.39	21.01	20.82	20.63	19.30	16.35	12.83
315.0	15.68	14.25	13.88	13.76	13.82	14.07	14.25	13.45	11.59
337.5	29.16	26.83	26.36	26.24	26.36	26.13	25.66	24.96	22.51
360.0	7.97	7.53	7.10	6.85	6.63	6.57	6.69	6.66	6.32



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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	5.39	4.17	3.14	2.52	2.43	3.27	3.55	3.67	3.64
22.5	4.25	3.48	3.03	3.17	3.89	4.57	4.98	5.11	4.52
45.0	4.25	4.02	4.25	5.08	6.14	7.21	7.81	7.81	7.59
67.5	3.45	3.38	3.45	3.78	4.37	5.50	6.43	6.89	6.83
90.0	4.12	3.67	3.27	3.17	3.42	4.17	5.21	5.65	5.31
112.5	15.78	12.64	9.89	7.99	6.94	7.42	9.70	11.79	11.98
135.0	12.64	10.97	8.55	6.38	5.02	4.77	6.63	7.75	8.68
157.5	24.38	22.28	18.20	13.88	10.50	8.98	11.31	14.23	14.11
180.0	5.54	4.42	3.42	2.68	2.40	2.83	3.55	3.86	3.86
202.5	5.47	4.43	3.66	3.26	3.44	4.16	4.98	5.29	5.11
225.0	5.31	4.86	4.63	4.63	5.31	6.14	7.36	7.89	8.12
247.5	3.51	3.45	3.65	4.11	4.90	5.70	6.50	6.76	7.03
270.0	3.27	3.03	2.88	3.32	4.12	4.76	5.26	5.36	5.11
292.5	9.89	7.70	6.56	6.94	8.94	10.27	11.03	10.93	9.70
315.0	9.05	6.88	5.33	4.59	5.52	7.13	7.44	7.75	7.06
337.5	18.08	13.76	10.26	8.75	11.55	14.00	14.93	16.10	12.36
360.0	5.39	4.17	3.14	2.52	2.43	3.27	3.55	3.67	3.64

C/γ(°)	180.0
0.0	7.50
22.5	7.50
45.0	7.50
67.5	7.50
90.0	7.50
112.5	7.50
135.0	7.50
157.5	7.50
180.0	7.50
202.5	7.50
225.0	7.50
247.5	7.50
270.0	7.50
292.5	7.50
315.0	7.50
337.5	7.50
360.0	7.50



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Test Report

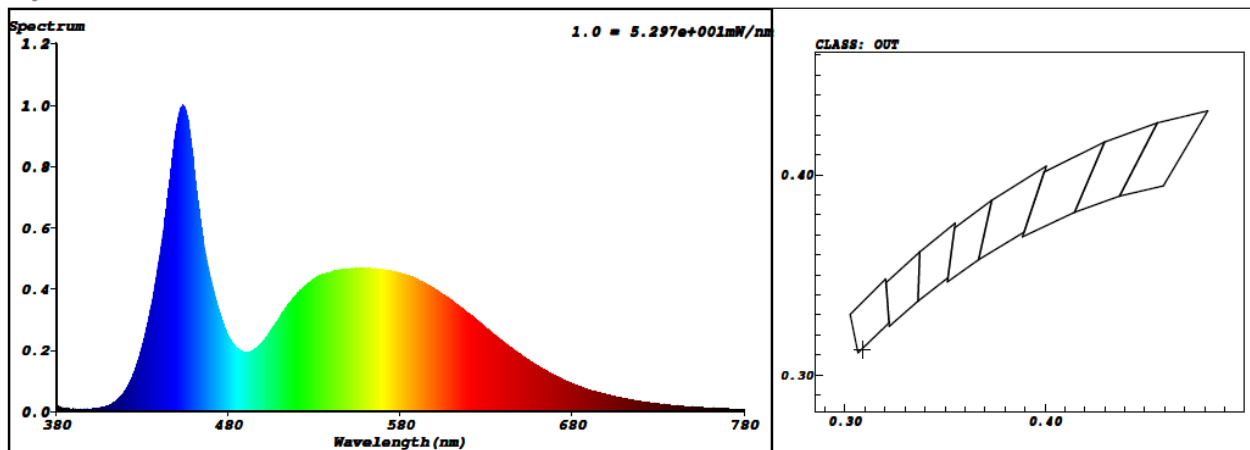
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Date: 2020-03-27

II) Color Characteristics

Test Voltage: 24 V DC
 Input Current: 0.0606 A
 Total Operating Time: 70 min
 Stabilization Time: 60 min
 Power: 21.11 W
 Chromaticity Coordinate: $x=0.3088$; $y=0.3129$
 $u'=0.2013$; $v'=0.4588$
 Duv : 3.25×10^{-3}
 Correlated Color Temperature: 6893 K
 Color Render Index Ra: 82.7
 R9: 19

Spectrum



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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	2021/3/19
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



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Test Report

Report No.: GZES200301332731

Date: 2020-03-27

Photo documentation:

Details of: View of the product

View:

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



Details of: View of the product

View:

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



--- End of Report ---



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