

Test Report

Report No.: GZES200101032431

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: H150

Ratings: 24 V DC; 1080 mA; 25.92 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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Test Report

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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. Kept the all LEDs in panel (see the Photo documentation for reference) at light down direction when testing.	
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: Flexible 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: 24.0 V DC
 Input Current: 1.103 A
 Total Operating Time: 100 min
 Stabilization Time: 35 min
 Power: 26.472 W
 Total Luminous Flux: 3769.65 lm
 Luminous Efficacy : 142.4 lm/W
 Beam Angle : H: 118.4° ; V: 117.6°

ZONAL LUMEN SUMMARY

$\gamma(^{\circ})$	Zone lumens	$\gamma(^{\circ})$	Zone lumens
0-10	115.76	90-100	9.59
10-20	335.49	100-110	6.04
20-30	518.72	110-120	6.64
30-40	638.17	120-130	6.89
40-50	676.60	130-140	6.56
50-60	620.94	140-150	5.56
60-70	472.85	150-160	4.07
70-80	265.97	160-170	2.45
80-90	76.56	170-180	0.62

$\gamma(^{\circ})$	Zone lumens	% Lamp	$\gamma(^{\circ})$	Zone lumen	% Lamp
0-30	969.97	18.40%	60-90	815.38	0.00%
0-40	1608.14	32.96%	90-120	22.28	0.00%
0-60	2905.69	71.05%	90-130	29.16	0.00%
0-90	3721.07	100.00%	90-150	41.28	0.00%
0-120	3743.35	100.00%	90-180	48.42	0.00%
0-180	3769.65	100.00%	0-62.11	3015.72	0.00%

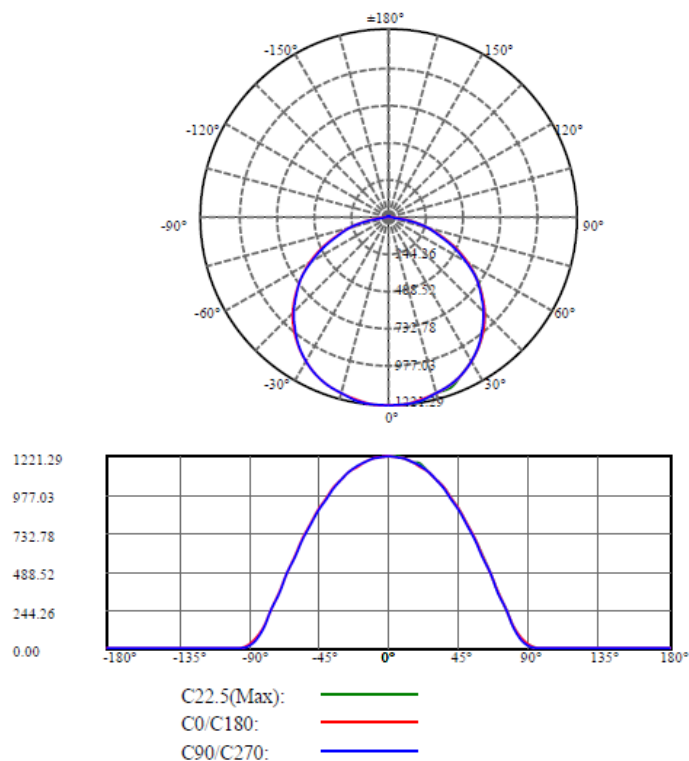


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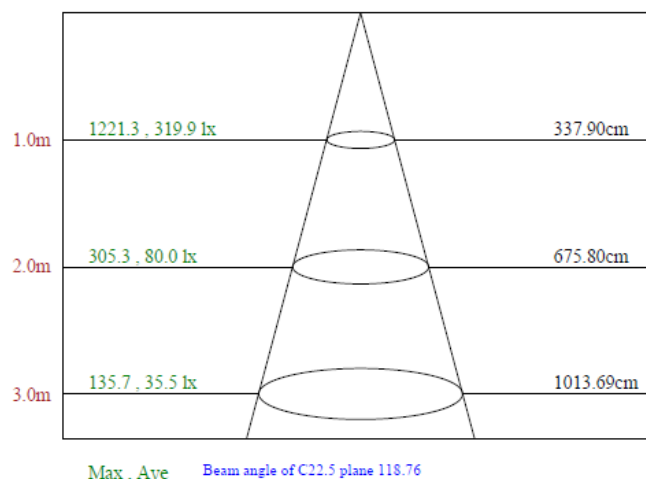
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Light distribution Curve [unit: cd]



Lux Distance Curve



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Intensity data (cd)

C/h(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1217.81	1211.43	1198.67	1174.30	1141.81	1101.19	1049.56	990.96	922.50
22.5	1218.39	1213.17	1200.99	1178.36	1148.77	1111.64	1061.16	1006.62	941.06
45.0	1217.81	1214.33	1202.73	1184.16	1156.89	1119.18	1072.19	1018.23	954.99
67.5	1217.81	1216.65	1206.21	1188.80	1159.79	1126.72	1079.73	1027.51	964.85
90.0	1221.29	1218.97	1209.69	1191.12	1163.85	1128.46	1082.05	1028.09	966.01
112.5	1221.87	1220.13	1210.27	1190.54	1163.27	1127.30	1082.63	1026.35	962.53
135.0	1220.13	1217.81	1207.37	1189.38	1162.69	1125.56	1079.15	1019.97	955.57
157.5	1224.19	1220.71	1207.95	1187.06	1156.31	1115.70	1070.44	1009.53	942.80
180.0	1217.81	1217.23	1209.69	1194.02	1168.50	1147.96	1103.40	1051.07	986.43
202.5	1218.39	1216.07	1206.79	1187.06	1243.92	1135.95	1088.72	1033.43	965.49
225.0	1217.81	1213.75	1202.73	1181.84	1159.56	1127.65	1074.85	1019.27	951.51
247.5	1217.81	1213.17	1199.83	1179.52	1160.66	1118.19	1067.14	1009.29	940.02
270.0	1221.29	1214.91	1200.99	1180.10	1160.49	1117.09	1065.75	1003.55	932.19
292.5	1221.87	1216.65	1203.89	1180.68	1160.84	1121.79	1072.77	1014.17	940.31
315.0	1220.13	1216.65	1206.21	1185.90	1159.91	1132.35	1081.41	1028.27	956.50
337.5	1224.19	1221.29	1211.43	1194.02	1165.60	1140.59	1095.97	1041.73	973.50
360.0	1217.81	1211.43	1198.67	1174.30	1141.81	1101.19	1049.56	990.96	922.50
C/h(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	845.33	758.88	656.19	552.92	438.62	324.90	215.89	115.17	48.27
22.5	867.38	783.25	686.36	585.99	472.85	353.91	247.39	143.19	67.13
45.0	883.62	798.34	706.67	608.62	500.70	388.15	275.59	168.54	82.56
67.5	889.43	813.42	717.69	619.64	512.89	393.95	323.74	180.09	89.12
90.0	894.07	808.78	717.11	618.48	511.72	399.17	306.74	177.19	85.06
112.5	890.01	808.78	713.05	613.26	503.60	390.47	304.48	166.80	75.60
135.0	880.72	791.96	702.61	597.01	486.78	373.06	263.29	148.70	62.37
157.5	865.64	774.55	676.50	570.32	457.19	342.89	224.71	128.69	49.66
180.0	913.74	831.58	739.04	630.84	519.85	404.91	282.67	170.23	82.91
202.5	895.05	805.82	710.84	606.82	486.78	370.33	252.50	148.99	66.49
225.0	870.98	783.66	687.00	581.12	466.01	341.96	226.16	125.61	48.45
247.5	862.27	767.30	667.27	559.82	442.57	318.23	203.53	105.30	35.45
270.0	852.53	762.31	662.46	554.31	436.59	312.31	196.34	98.28	27.97
292.5	861.58	771.88	673.77	559.01	442.80	326.30	208.75	106.87	34.17
315.0	879.80	787.37	691.70	586.39	473.20	357.28	238.17	127.47	48.10
337.5	900.91	816.90	723.14	621.26	503.43	387.91	269.79	155.26	71.19
360.0	845.33	758.88	656.19	552.92	438.62	324.90	215.89	115.17	48.27
C/h(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	15.03	6.32	6.27	6.73	7.25	7.77	8.24	8.76	9.17
22.5	21.93	7.37	6.27	6.61	7.14	7.72	8.18	8.70	9.11
45.0	29.01	7.72	5.86	6.21	6.73	7.31	7.83	8.35	8.70
67.5	30.11	7.31	5.28	5.57	6.15	6.61	7.14	7.66	8.18
90.0	25.12	7.31	4.76	5.11	5.57	6.09	6.67	7.14	7.66
112.5	20.48	6.09	4.64	4.99	5.45	5.92	6.38	6.90	7.43
135.0	17.00	5.11	4.82	5.11	5.57	5.98	6.44	6.96	7.43
157.5	13.11	5.22	4.93	5.28	5.74	6.21	6.61	7.14	7.54
180.0	27.04	7.25	5.92	6.27	6.73	7.31	7.77	8.30	8.76
202.5	19.15	6.27	5.80	6.21	6.67	7.19	7.66	8.12	8.59
225.0	10.97	5.69	5.63	5.98	6.44	6.90	7.43	7.89	8.30
247.5	6.85	4.99	5.16	5.63	6.15	6.61	7.08	7.54	8.01
270.0	5.69	4.58	4.87	5.34	5.86	6.38	6.90	7.37	7.83
292.5	6.85	4.64	4.82	5.28	5.80	6.32	6.85	7.37	7.83
315.0	11.66	5.11	5.05	5.34	5.92	6.44	6.96	7.48	7.89
337.5	22.98	6.09	4.87	5.28	5.80	6.38	6.96	7.43	7.89
360.0	15.03	6.32	6.27	6.73	7.25	7.77	8.24	8.76	9.17



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C/y(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	9.46	9.63	9.69	9.63	9.46	9.34	9.28	9.28	9.34
22.5	9.40	9.57	9.63	9.57	9.46	9.28	9.28	9.28	9.28
45.0	9.11	9.28	9.40	9.40	9.28	9.11	9.11	9.11	9.11
67.5	8.59	8.76	8.93	8.88	8.82	8.76	8.70	8.76	8.88
90.0	8.06	8.35	8.53	8.53	8.47	8.35	8.35	8.41	8.59
112.5	7.83	8.18	8.35	8.35	8.24	8.12	8.06	8.24	8.41
135.0	7.77	8.06	8.24	8.30	8.18	8.06	8.06	8.12	8.30
157.5	7.89	8.18	8.24	8.24	8.18	8.01	8.01	8.06	8.18
180.0	9.05	9.34	9.46	9.46	9.40	9.28	9.22	9.22	9.28
202.5	8.93	9.22	9.40	9.40	9.34	9.22	9.11	9.05	9.17
225.0	8.64	8.99	9.17	9.17	9.11	8.99	8.88	8.88	8.99
247.5	8.41	8.70	8.88	8.93	8.76	8.70	8.53	8.47	8.64
270.0	8.12	8.41	8.64	8.64	8.59	8.47	8.35	8.35	8.47
292.5	8.12	8.41	8.53	8.53	8.47	8.35	8.30	8.24	8.35
315.0	8.30	8.53	8.59	8.59	8.47	8.41	8.30	8.30	8.30
337.5	8.24	8.47	8.59	8.53	8.41	8.35	8.18	8.18	8.18
360.0	9.46	9.63	9.69	9.63	9.46	9.34	9.28	9.28	9.34
C/y(°)	180.0								
0.0	9.34								
22.5	9.28								
45.0	9.11								
67.5	8.82								
90.0	8.59								
112.5	8.41								
135.0	8.35								
157.5	8.24								
180.0	8.18								
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	9.34								



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Test Report

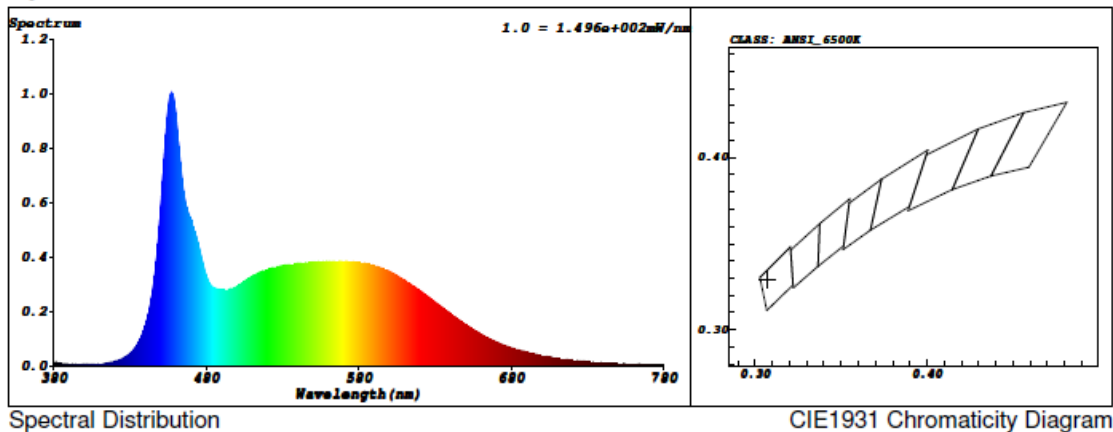
Report No.: GZES200101032431

Date: 2020-06-01

II) Color Characteristics

Test Voltage:	24 V DC
Input Current:	1.100 A
Total Operating Time:	74 min
Stabilization Time:	62 min
Power:	26.4 W
Chromaticity Coordinate:	$x=0.3071$; $y=0.3289$ $u'=0.1940$; $v'=0.4674$
Duv :	6.01×10^{-3}
Correlated Color Temperature:	6816 K
Color Render Index Ra:	84.2
R9:	16

Spectrum



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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)
GZE003-16	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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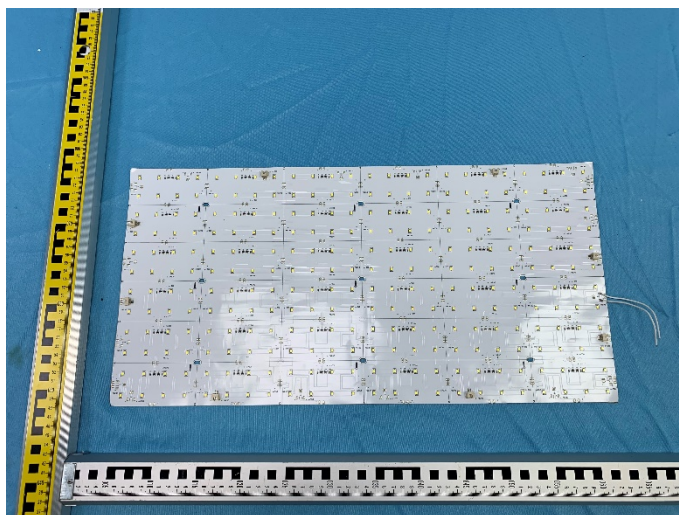
Date: 2020-06-01

Photo documentation:

Details of: View of the product

View:

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



--- End of Report ---



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