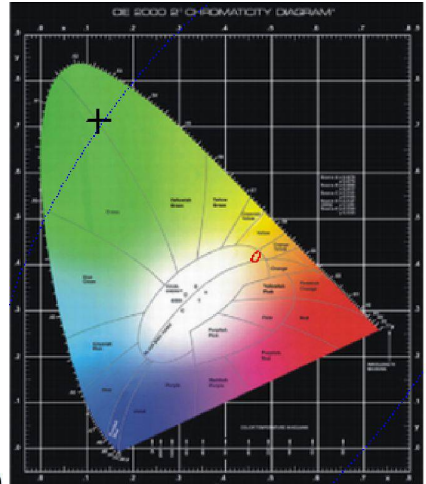
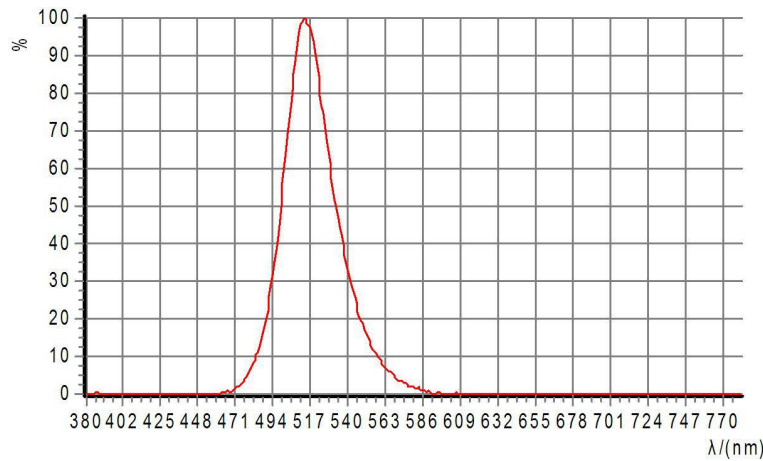


# LED Integrated Testing System test report

test item:	LED spectrum analyse		
equipment:	ZWL-600 Light Color Power Comprehensive Testing System		
Test Identifier	Product	RGB+CW+WW CCT 2in1	Manufacturer: Shenzhen QAS Lighting Limited
	Temperature	25 ° C	Humidity: 90 %
	Conner:		Date: 2017-11-22
	Organ:	Green	

curve of spectrum power distributing



Spectrum		Electrical		
λ p:	514.0 nm	I (warm-up):	1000.0 mA	
λ d:	518.4 nm	warm-up Time:	500 ms	
λ m:	501.5 nm	I (test):	104.100 mA	
λ c:	502.0 nm	V (Forward):	24.00 V	
Δ λ :	35.0 nm	Φ v:	106.673 lm	
Tc:	8728 K	Light Effi:	42.703 lm/w	
CIE(x, y):	0.1297, 0.7069	P:	2.498 W	
CIE(u, v):	0.0462, 0.3779	PF:		
Ra:	-26.8	R1:	-36.4	R2: -8.8      R3: -26.5
Purity:	0.751	R4:	-66.7	R5: -10.3      R6: -21.1
Light Power:	1383.5224 mw	R7:	-14.6	R8: -34.2      R9: -361.3
SDCM:	326.62	R10:	-107.8	R11: -50.5      R12: -31.5
DUV:	0.1668	R13:	-43.0	R14: 37.9      R15: -31.7

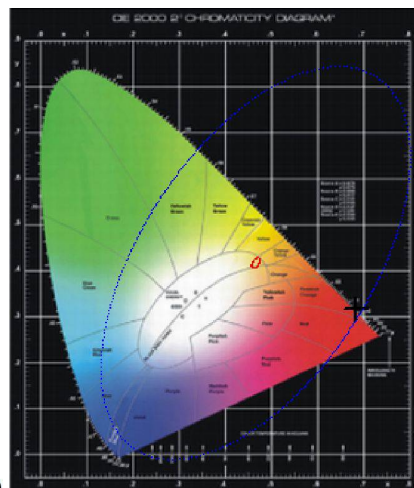
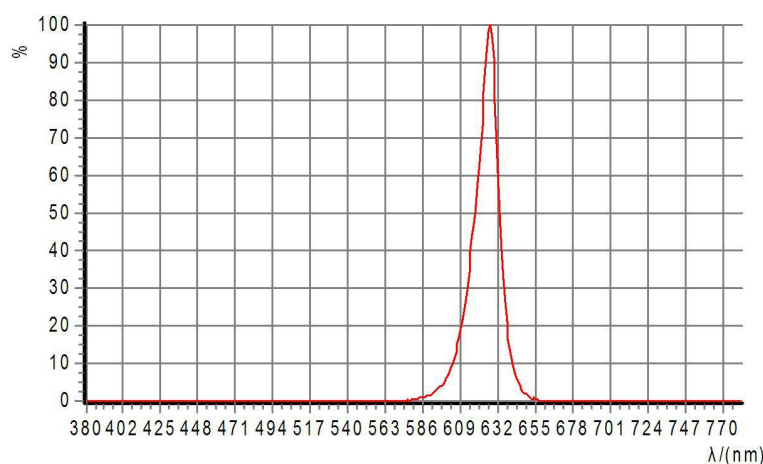
Remark:

5050RGB+PW+WW二合一60D-24V-G

# LED Integrated Testing System test report

test item:	LED spectrum analyse		
equipment:	ZWL-600 Light Color Power Comprehensive Testing System		
Test Identifier	Product	RGB+CW+WW CCT 2in1	Manufacturer: Shenzhen QAS Lighting Limited
	Temperature	25 ° C	Humidity: 90 %
	Conner:		Date: 2017-11-22
	Organ:	Red	

curve of spectrum power distributing



Spectrum		Electrical			
λ p:	627.0 nm	I (warm-up):	1000.0 mA		
λ d:	618.6 nm	warm-up Time:	500 ms		
λ m:	617.4 nm	I (test):	95.100 mA		
λ c:	619.0 nm	V (Forward):	24.00 V		
Δ λ :	16.0 nm	Φ v:	58.754 lm		
Tc:	4281 K	Light Effi:	25.747 lm/w		
CIE(x, y):	0.6883, 0.3114	P:	2.282 W		
CIE(u, v):	0.5136, 0.3486	PF:			
Ra:	0.5	R1:0.0	R2:0.0	R3:0.0	
Purity:	1.000	R4:0.0	R5:0.0	R6:0.0	
Light Power:	1858.8453 mw	R7:0.0	R8:0.0	R9:0.0	
SDCM:	186.07	R10:0.0	R11:0.0	R12:0.0	
DUV:	-0.0005	R13:0.0	R14:0.0	R15:0.0	

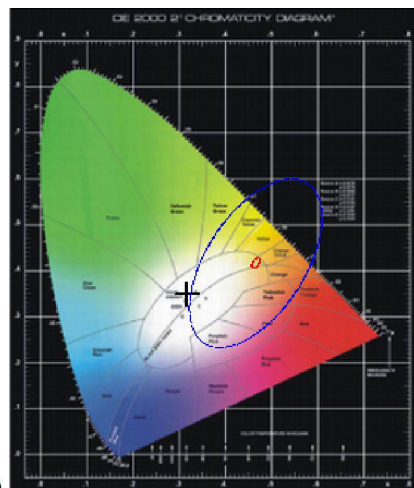
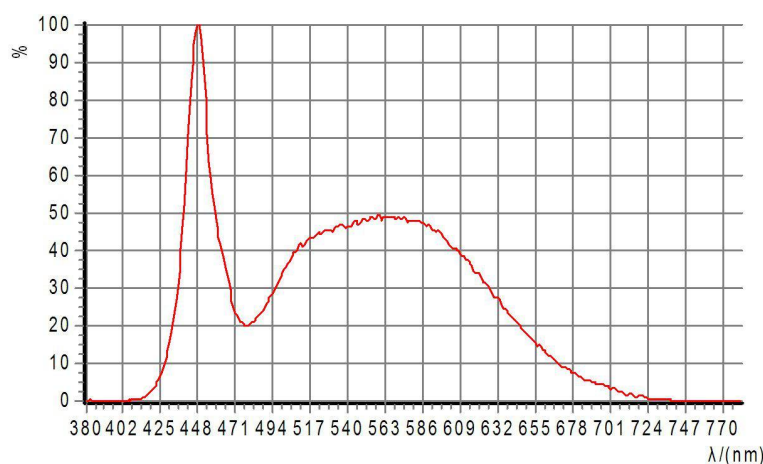
Remark:

5050RGB+PW+WW二合一60D-24V-R

# LED Integrated Testing System test report

test item:	LED spectrum analyse		
equipment:	ZWL-600 Light Color Power Comprehensive Testing System		
Test Identifier	Product	RGB+CW+WW CCT 2in1	Manufacturer: Shenzhen QAS Lighting Limited
	Temperature	25 ° C	Humidity: 90 %
	Conner:		Date: 2017-11-22
	Organ:	Cold white	

curve of spectrum power distributing



Spectrum		Electrical			
$\lambda_p$ :	449.0 nm	I (warm-up):	1000.0 mA		
$\lambda_d$ :	504.0 nm	warm-up Time:	500 ms		
$\lambda_m$ :	439.8 nm	I (test):	150.000 mA		
$\lambda_c$ :	441.0 nm	V (Forward):	24.00 V		
$\Delta \lambda$ :	20.0 nm	$\phi_v$ :	330.690 lm		
Tc:	5985 K	Light Effi:	91.858 lm/w		
CIE(x, y):	0.3216, 0.3440	P:	3.600 W		
CIE(u, v):	0.1984, 0.3183	PF:			
Ra:	80.5	R1:	76.8	R2:	83.8
Purity:	0.036	R4:	79.8	R5:	78.7
Light Power:	6113.4416 mw	R7:	86.5	R8:	64.4
SDCM:	79.75	R10:	62.8	R11:	84.8
DUV:	0.0064	R13:	78.0	R14:	94.3
		R9:	-12.0	R12:	55.7
				R15:	70.2

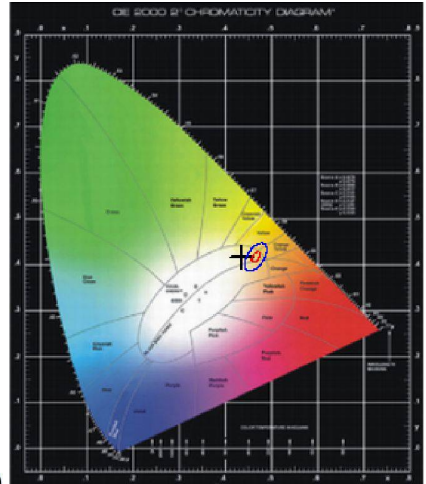
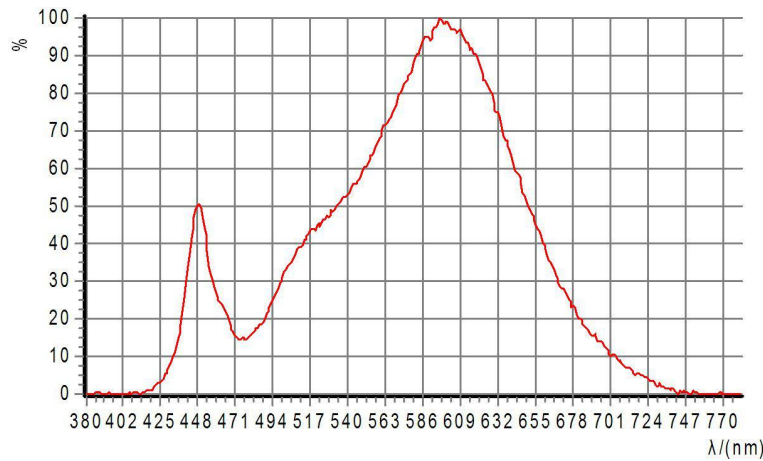
Remark:

5050RGB+PW+WW二合一60D-24V-W

# LED Integrated Testing System test report

test item:	LED spectrum analyse		
equipment:	ZWL-600 Light Color Power Comprehensive Testing System		
Test Identifier	Product	RGB+CW+WW CCT 2in1	Manufacturer: Shenzhen QAS Lighting Limited
	Temperature	25 ° C	Humidity: 90 %
	Conner:		Date: 2017-11-22
	Organ:	warm white	

curve of spectrum power distributing



Spectrum		Electrical			
$\lambda_p$ :	596.5 nm	I (warm-up):	1000.0 mA		
$\lambda_d$ :	581.9 nm	warm-up Time:	500 ms		
$\lambda_m$ :	551.3 nm	I (test):	150.100 mA		
$\lambda_c$ :	514.0 nm	V (Forward):	24.00 V		
$\Delta \lambda$ :	117.0 nm	$\phi_v$ :	321.308 lm		
Tc:	3010 K	Light Effi:	89.203 lm/w		
CIE(x, y):	0.4403, 0.4117	P:	3.602 W		
CIE(u, v):	0.2495, 0.3499	PF:			
Ra:	79.5	R1:	76.3	R2:	87.7
Purity:	0.558	R4:	76.8	R5:	76.3
Light Power:	5699.4423 mw	R7:	81.1	R8:	52.3
SDCM:	13.22	R10:	72.5	R11:	70.9
DUV:	0.0025	R12:	63.7	R13:	78.4
		R14:	98.5	R15:	67.4

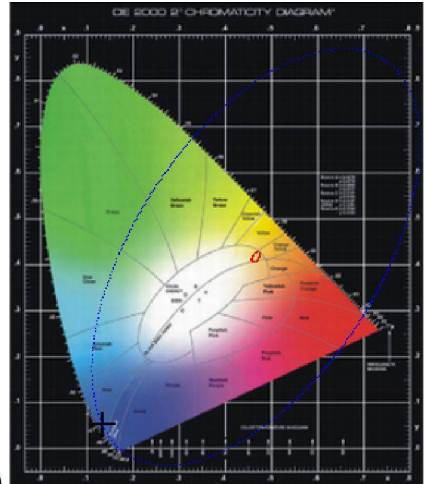
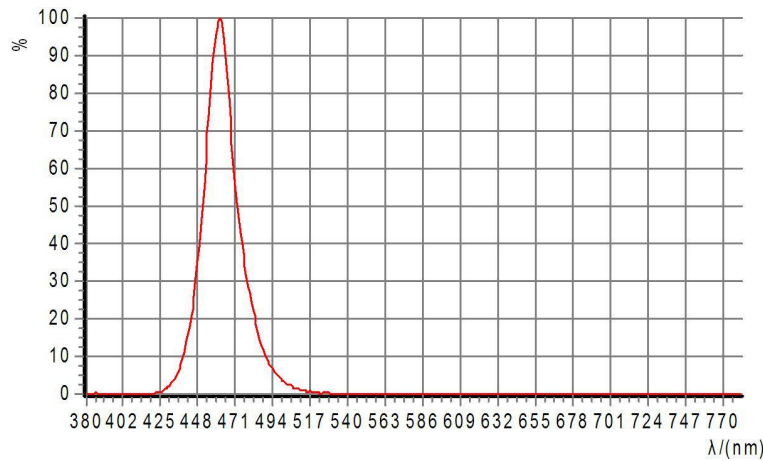
Remark:

5050RGB+PW+WW二合一60D-24V-W

# LED Integrated Testing System test report

test item:	LED spectrum analyse		
equipment:	ZWL-600 Light Color Power Comprehensive Testing System		
Test Identifier	Product	RGB+CW+WW CCT 2in1	Manufacturer: Shenzhen QAS Lighting Limited
	Temperature	25 ° C	Humidity: 90 %
	Conner:		Date: 2017-11-22
	Organ:	Blue	

curve of spectrum power distributing



Spectrum		Electrical			
$\lambda_p$ :	462.4 nm	I (warm-up):	1000.0 mA		
$\lambda_d$ :	465.5 nm	warm-up Time:	500 ms		
$\lambda_m$ :	452.9 nm	I (test):	90.600 mA		
$\lambda_c$ :	453.0 nm	V (Forward):	24.00 V		
$\Delta \lambda$ :	23.0 nm	$\Phi_v$ :	26.170 lm		
Tc:	1642 K	Light Effi:	12.038 lm/w		
CIE(x, y):	0.1384, 0.0468	P:	2.174 W		
CIE(u, v):	0.1685, 0.0855	PF:			
Ra:	0.5	R1:0.0	R2:0.0	R3:0.0	
Purity:	0.981	R4:0.0	R5:0.0	R6:0.0	
Light Power:	2150.9679 mw	R7:0.0	R8:0.0	R9:0.0	
SDCM:	197.24	R10:0.0	R11:0.0	R12:0.0	
DUV:	-0.1268	R13:0.0	R14:0.0	R15:0.0	

Remark:

5050RGB+PW+WW二合一60D-24V-B