



»»»» www.szgmled.com »»»»

深圳市光脉电子有限公司

SHENZHEN GUANGMAI ELECTRONICS CO.,LTD.

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LED灯珠

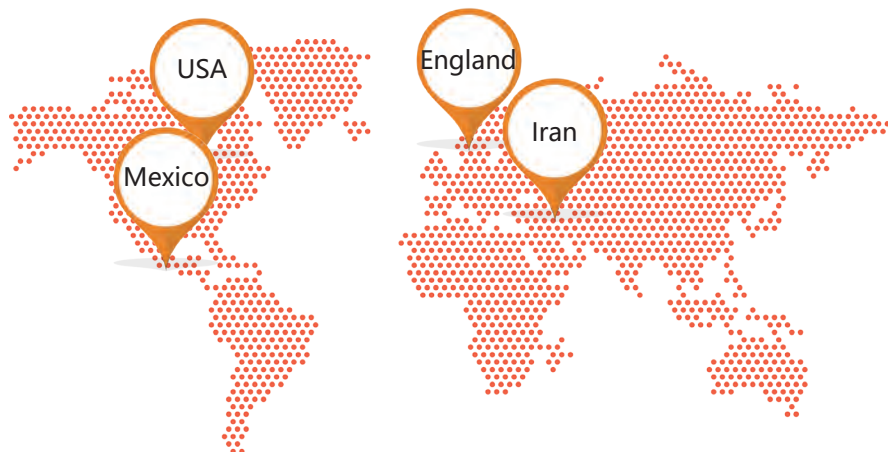
GMKJ LED

关于光脉 ABOUT GUANGMAI

深圳市光脉电子有限公司注册资金3000万，于2009年成立。在深圳拥有6000平方米的生产基地，专业研发生产LED光源。现有职员180人，其中研发团队多人拥有博士学位，高级工程师职称等，都具备丰富的半导体封装行业经验。光脉公司通过ISO9001管理体系，知识产权管理体系认证，同时拥有包含UV无机封装，VCSEL封装等几十项LED封装专利，是国家高新技术企业。

Shenzhen Guangmai Electronics Co., Ltd. registered capital of 30 million and was established in 2009. It has a production base of 6,000 square meters in Shenzhen, specializing in the research and development of LED light sources. The existing staff of 180 people, including many R & D team with doctoral degree, senior engineer title, etc., have a wealth of experience in the semiconductor packaging industry. Guangmai Company has passed ISO9001 management system and intellectual property management system certification. It also owns dozens of LED packaging patents including UV inorganic packaging and VCSEL packaging. It is a national high-tech enterprise.

全球代理 GLOBAL AGENT



公司荣誉 COMPANY HONOUR

- 中国LED首创企业单位 — The First LED Enterprises in China
- LED产品高工金球奖单位 — Golden Globe Award of LED Products in GG-LED Association
- 深圳半导体照明封装十佳企业 — Shenzhen Top 10 Semiconductor Lighting Package Enterprise
- 阿里巴巴橙功营最佳参观学习基地 — The Best Visiting and Learning Basement of Alibaba
- 世界照明灯饰行业优秀LED光源品牌企业 — Outstanding LED Lighting Brand Enterprise in World Lighting Industry
- 2010-至今，中国LED照明应用百强企业 — From 2010 to now, honored as top 100 in China LED lighting applications
- 深圳市照明与显示工程行业协会-会长单位 — Chairman of Shenzhen Lighting and Display Engineering Industry Association
- 深圳市半导体照明产业发展促进会-会长单位 — Chairman of Shenzhen Semiconductor Lighting Industry Development Association





- ▶ 01-16 景观亮化 Landscape Lighting
- ▶ 17-33 植物照明 Plant Grow Lighting
- ▶ 34-45 非视觉照明 Non Visual Lighting
- ▶ 46-63 通用照明 General Lighting

Landscape Lighting 景观亮化

陶瓷3535 | Ceramics 3535

3535单/双色/白光 | 3535 Color/White
3535 RGB/RGBW | 3535 RGB/RGBW

陶瓷5050 | Ceramics 5050

5050 RGB/RGBW | 5050 RGB/RGBW

仿流明 | K1 Power Led

仿流明 | K1 Power Led
仿流明 RGB/RGBW | K1 Power Led RGB/RGBW

集成彩光 | Intergrated Color

10W RGB集成 | 10W RGB High Power
30-100W RGB集成 | 30-100W RGB High Power

PCT 3030 | PCT 3030

3535单/双色/白光

3535 COLOR/WHITE

产品特征

- LM-80认证
- 角度30°/60°/90°/120°
- 高亮度, 高光效, 高可靠性
- 多种光谱组合方案, 颜色可选
- 颜色采用主流颜色为基础让人眼体验最佳的光品质
- 低热阻耐高电流驱动, 发光面积小, 使用功率高, 对照度有较高要求的最佳选择



洗墙灯
Wall Washer



舞台灯
Stage Lamp



彩灯
RGB

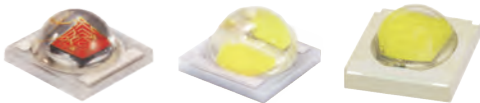


特殊照明效果
Special Effects
Lighting



Features

- LM80 Certificate
- $\angle 30^{\circ}/60^{\circ}/90^{\circ}/120^{\circ}$
- High luminous flux, high efficacy, high reliability
- A variety of spectrum available, color optional
- The color is based on mainstream color, allowing the eye to experience the best light quality
- Low thermal resistance, high current drive resistance, small light-emitting area, high power, the best choice for high contrast requirements



产品型号 LED Type	封装 Package	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	光通量 (lm) FLUX	发光颜色 Color
GT-3535B450-1CZ0-GH45M	陶瓷3535	1-3	350-700	3.0-3.6	450-470	20-35	B
GT-3535G520-1CZ0-GH45M	陶瓷3535	1-3	350-700	3.0-3.6	520-530	60-100	G
GT-3535Y590-1CC0-GH42M	陶瓷3535	1-3	350-700	2.0-2.6	585-600	30-55	Y
GT-3535R620-1CC0-GH42M	陶瓷3535	1-3	350-700	2.0-2.6	620-660	25-50	R
GT-3535W3W6-2BC0-JN27M	陶瓷3535	1	350	3.0-3.4	3000-3500K	110-160	W
					6000-7000K		W
GT-3535W300-1CZ0-PR45M	陶瓷3535	1	350	2.8-3.2	1700-6500K	120-160	W
GT-3535W600-1CC0-SA38匀光	陶瓷3535	3	700	3.2-3.4	2000-6500K	200-260	W

3535 RGB/RGBW

3535 RGB/RGBW

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洗墙灯
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GT-3535RGB-3BC0-SA26M	陶瓷3535	1	350	2.8-3.4	B 455-470	20-30	B
				2.8-3.4	G 520-530	90-110	G
				1.8-2.4	R 620-630	40-50	R
GT-3535RGBW6-4BC0-SA26M	陶瓷3535	1	350	3.0-3.4	B 455-470	20-30	B
				3.0-3.4	G 520-530	90-110	G
				2.0-2.4	R 620-630	40-50	R
				3.0-3.4	W 3000-7000K	100-130	W
GT-3535RGBW3-4BC0-SA26P	陶瓷3535	1	350	3.0-3.4	B 455-470	10-20	B
				3.0-3.4	G 520-530	50-60	G
				2.0-2.4	R 620-630	30-40	R
				3.0-3.4	W 3000-7000K	50-60	W

5050 RGBW/RGB

5050 RGBW/RGB

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Stage Lamp



彩灯
RGB

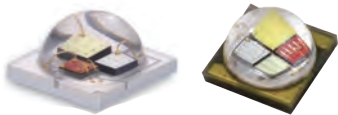


特殊照明效果
Special Effects
Lighting



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GD-5050RGBW6-4BC0-SA38M	陶瓷5050	3	700	3.0-3.6	B 460-470	30-40	B
				3.0-3.6	G 520-530	100-200	G
				2.0-2.4	R 620-630	60-100	R
				3.0-3.6	W 3000-7000K	200-260	W
GD-5050RGB-3BC0-SA38M	陶瓷5050	3	700	3.0-3.6	B 460-470	30-40	B
				3.0-3.6	G 520-530	100-200	G
				2.0-2.4	R 620-630	60-100	R

仿流明

K1 Power Led

产品特征

- LM-80认证
- 防紫外
- 红铜支架, 高导热性
- 减少光衰, 延长光源使用寿命
- 低阻抗, 高照度, 高光效, 高功率, 高可靠性



洗墙灯
Wall Washer



舞台灯
Stage Lamp



泛光灯
Flood Lamp



信号灯
Traffic Signal



Features

- LM80 Certificate
- Anti-UV
- Red copper heat sink, high thermal conductivity
- Reduce light attenuation and prolong the service life of light source
- Low impedance, high illumination, high light efficiency, high power and high reliability



产品型号 LED Type	芯片 CHIP	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温 (K) CCT	光通量 (lm) FLUX	发光颜色 Color
GZ-1408W600-1CZ1-JY33G	EPISTAR 33mil	1	350	3.0-3.4	2800-7000	110-130	W
GZ-1408W600-2BZ1-PR2345G	BRIDGELUX 23*45mil*2	1	350	3.0-3.4	2800-7000	150-170	W
GZ-1408W600-1CZ1-PR45G	BRIDGELUX 45mil	1	350	3.0-3.4	2800-7000	130-170	W
GZ-1408W600-3C2Z1-PR2630G	BRIDGELUX 26*30mil*6	1	120	8.5-9.0	2800-7000	170-200	W
GZ-1408W600-1CZ1-PR45G	BRIDGELUX 45mil	3	700	3.0-3.8	2800-7000	200-280	W
GZ-1408W600-2BZ1-PR2345G	BRIDGELUX 23*45mil*2	3	700	3.0-3.4	2800-7000	260-300	W
GZ-1408B460-1CZ1-GH35G	EPILEDs 35mil	1	350	3.0-3.4	460-470nm	20-40	B
GZ-1408G520-1CZ1-GH35G	EPILEDs 35mil	1	350	3.0-3.4	520-530nm	80-100	G
GZ-1408Y590-1CC1-GH38G	EPILEDs 38mil	1	350	2.0-2.4	590-595nm	40-60	Y
GZ-1408R620-1CC1-GH30G	EPILEDs 30mil	1	350	2.0-2.4	620-660nm	40-60	R

仿流明

K1 Power Led

产品特点

- LM-80认证
- 防紫外
- 红铜支架, 高导热性
- 使用灵活多样, 焊接方便
- 减少光衰, 延长光源使用寿命
- 使用范围广, 适应各种工作环境
- 低阻抗, 高照度, 高光效, 高功率, 高可靠性



洗墙灯
Wall Washer



舞台灯
Stage Lamp



泛光灯
Flood Lamp



信号灯
Traffic Signal



Features

- LM80 Certificate
- Anti-UV
- Red copper heat sink, high thermal conductivity
- Flexible use and convenient welding
- Reduce light attenuation and prolong the service life of light source
- Wide application range and adaptability to various working environments;
- Low impedance, high illumination, high light efficiency, high power and high reliability



产品型号 LED Type	芯片 CHIP	电流 (mA) Electricity	电压 (V) Voltage	光色 (nm) COLOR	光通量 (lm) FLUX
GZ-1408RGB-3BZ1-GH35G	EPILEDs 30mil	350	2.0-2.4	R 620-630	40-60
	EPILEDs 35mil	350	3.0-3.4	G 520-530	80-100
	EPILEDs 35mil	350	3.0-3.4	B 460-470	20-40
GZ-1408RGBW6-GH38M	EPILEDs 40mil	350	2.0-2.4	R 620-630	50-60
	EPILEDs 38mil	350	3.0-3.4	G 520-530	90-100
	EPILEDs 38mil	350	3.0-3.4	B 460-470	20-30
	EPILEDs 40mil	350	3.0-3.4	W 6000-8000K	100-120

10W RGB集成

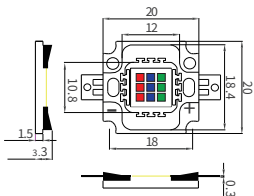
10W RGB High Power

产品特征

- LM-80认证
- 防紫外
- 红铜支架, 高导热性
- 低阻抗, 高照度, 高光效, 高功率, 高可靠性



泛光灯
Flood Lamp



Features

- LM80 Certificate
- Anti-UV
- Red copper heat sink, high thermal conductivity
- Low impedance, high illumination, high light efficiency, high power and high reliability



产品型号 LED Type	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	芯片 CHIP	波段(nm) WAVELENGTH	光通量(lm) FLUX	发光颜色 Color
GJZ-J010R620-3C3Z-GH30	10	1050	6-8	EPILEDs 30mil	620-630	220-280	R
GJZ-J010G520-3C3Z-GH35			9-11	EPILEDs 35mil	520-530	500-700	G
GJZ-J010B460-3C3Z-GH35			9-11	EPILEDs 35mil	460-470	160-200	B
GJZ-J010RGB-3C3Z-GH35	10	350	6-8	EPILEDs 30mil	620-630	90-130	R
			9-11	EPILEDs 35mil	520-530	150-200	G
			9-11	EPILEDs 35mil	460-470	50-70	B

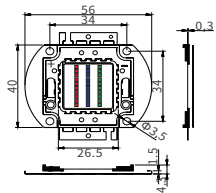
30-100W RGB High Power

产品特征

- LM-80认证
- 防紫外
- 红铜支架, 高导热性
- 低阻抗, 高照度, 高光效, 高功率, 高可靠性

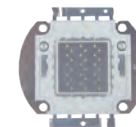


泛光灯
Flood Lamp



Features

- LM80 Certificate
- Anti-UV
- Red copper heat sink, high thermal conductivity
- Low impedance, high illumination, high light efficiency, high power and high reliability



产品型号 LED Type	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	芯片 CHIP	波段 (nm) WAVELENGTH	光通量 (lm) FLUX	发光颜色 Color
GJZ-J030R620-10C3Z-GH30	30	1050	18-22	EPILEDs 30mil	620-630	800-1200	R
GJZ-J030G520-10C3Z-GH35			28-32	EPILEDs 35mil	520-530	1500-2500	G
GJZ-J030B460-10C3Z-GH35				EPILEDs 35mil	460-470	300-500	B
GJZ-J030RGB-10C3Z-GH35	30	350	18-22	EPILEDs 30mil	620-630	350-450	R
			28-32	EPILEDs 35mil	520-530	500-700	G
				EPILEDs 35mil	460-470	140-180	B
GJZ-J050R620-10C5Z-GH30	50	1750	18-22	EPILEDs 30mil	620-630	1200-2000	R
GJZ-J050G520-10C5Z-GH35			28-32	EPILEDs 35mil	520-530	3000-4000	G
GJZ-J050B460-10C5Z-GH35				EPILEDs 35mil	460-470	500-1000	B

PCT 3030

PCT 3030

产品特征 | Features

- LM-80认证
- LM80 Certificate
- 高性价比户外光源
- Alternative solutions for outdoor lighting



洗墙灯
Wall Washer



舞台灯
Stage Lamp



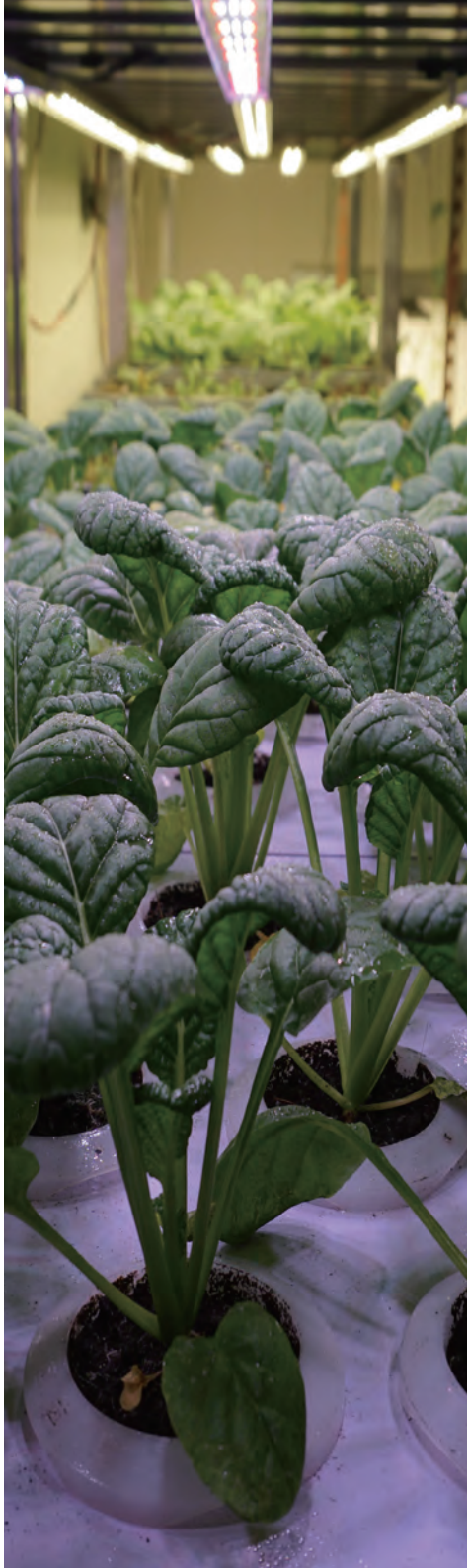
彩灯
RGB



特殊照明效果
Special Effects
Lighting



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	光色(nm) COLOR	光通量(lm) FLUX	发光颜色 Color
GC-3030B450-1CZ-GH38	PCT3030	1	350	2.8-3.4	450-470	15-35	B
GC-3030G520-1CZ-GH40	PCT3030	1	350	2.8-3.4	520-530	40-60	G
GC-3030Y590-1CC-GH38	PCT3030	1	350	2.0-2.4	590-595	20-40	Y
GC-3030Y620-1CC-GH38	PCT3030	1	350	2.0-2.4	620-660	20-30	R



Growing Fixtures Chips 植物灯光源

陶瓷 | Ceramics

陶瓷3535 | Ceramics 3535
陶瓷3030 | Ceramics 3030

3030 | 3030

2835 | 2835

EMC 3535 | EMC 3535

大功率 | Hi-Power

集成COB | Intergrated COB

植物灯光源-陶瓷3535/3030

Growing Fixtures chips-ceramics 3535/3030

产品特点

- 高PPF值、高PPE
- 发光角度:120°
- 基于光合光子通量 (PPF)分档及测试
- LM-80认证
- 红光产品PPE 4.5 μmol/J
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- 全光谱，可根据苗期、生长、开花、结果不同阶段定制服务



Features

- High PPF,High PPE
- Lighting degrees:120 degress
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
- LM80 Certificate
- Red led PPE 4.5 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- Full spectrum available;Customization services for different stages from seedling, Growth, Flowering to Fruiting



产品型号 LED Type	封装 Package	功率(w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	PPE (μmol/J) PPE	发光颜色 Color
GT-3535B450	陶瓷3535	1-3	350	3.0-3.4	450	2.0-2.8	B
GT-3535R660	陶瓷3535	1-3	350	2.0-2.2	660	3.0-4.5	DR
GT-3535R730	陶瓷3535	1-3	350	1.6-2.0	730	300mw	FR
GT-3535W400	陶瓷3535	1-3	350	3.0-3.4	4000K	2.8-3.1	W
GT-3535W600	陶瓷3535	1-3	350	3.0-3.4	6000K	2.8-3.2	W
GT-3535W300	陶瓷3535	1-3	350	3.0-3.4	3000K	2.8-3.1	W
GT-3535W600	陶瓷3535	1-3	350	3.0-3.4	6000K	2.8-3.1	W
GT-3030B450	陶瓷3030	1-3	350	3.0-3.4	450	2.0-3.0	B
GT-3030R660	陶瓷3030	1-3	350	2.0-2.2	660	3.0-4.5	DR
GT-3030R730	陶瓷3030	1-3	350	1.6-2.0	730	300mw	FR

植物灯光源-3030

Growing Fixtures chips-3030

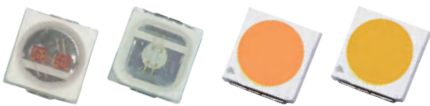
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- 发光角度:60-120°
- 基于光合光子通量 (PPF)分档及测试
- LM-80认证
- 红光产品PPE高达 3.6 $\mu\text{mol}/\text{J}$
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务



Features

- High PPF,High PPE
- Lighting degrees:60-120 degress
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
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- Fruiting Red led PPE 3.6 $\mu\text{mol}/\text{J}$
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- Full spectrum available;Customization services for different stages from seedling, Growth, Flowering to Fruiting



产品型号 LED Type	封装 Package	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	PPE ($\mu\text{mol}/\text{J}$) PPE	发光颜色 Color
GC-3030R660-1CC球头	PCT3030	0.2-1	300	2.0-2.2	660	3.0-3.6	DR
GC-3030R730-1CC球头	PCT3030	0.2-1	300	1.6-2.0	730	300-400mw	FR
GC-3030R660-1CC	PCT3030	0.2-1	300	2.0-2.2	660	2.8-3.1	DR
GC-3030B450-2BZ	PCT3030	0.2-1	300	3.0-3.4	450	2.0-2.5	B
GC-3030R730-1CC	PCT3030	0.2-1	300	1.6-2.0	730	200-300mw	FR
GC-3030W3000-3BZ	PCT3030	0.2-1	90	2.7-2.9	3000K	2.8-3.3	W
GC-3030W4000-3BZ	PCT3030	0.2-1	90	2.7-2.9	4000K	2.8-3.3	W
GC-3030W6000-3BZ	PCT3030	0.2-1	90	2.7-2.9	6000K	2.9-3.3	W

植物灯光源-2835

Growing Fixtures chips-2835

产品特征

- 高PPF值、高PPE
- 发光角度:120°
- 基于光合光子通量 (PPF)分档及测试
- LM-80认证
- 红光产品PPE 2.5 μmol/J
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- 0.2w, 0.5w, 1w三种不同功率
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务



Features

- High PPF,High PPE
- Lighting degrees:120 degrees
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
- LM80 Certificate
- Red led PPE 2.5 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- 0.2w, 0.5w, 1w to meet different lighting requirements
- Full spectrum available;Customization services for different stages from seedling, Growth, Flowering to Fruiting



产品型号 LED Type	封装 Package	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	PPE (μmol/J) PPE	发光颜色 Color
GC-2835B450	PCT2835	0.2	60	3.0-3.4	450	2.0-2.2	B
GC-2835R660	PCT2835	0.2	60	2.0-2.4	660	2.2-2.4	DR
GC-2835R730	PCT2835	0.2	60	1.6-2.0	730	50mw	FR
GC-2835B450	PCT2835	0.5	150	3.0-3.4	450	2.0-2.2	B
GC-2835R660	PCT2835	0.5	150	2.0-2.4	660	2.2-2.4	DR
GC-2835R730	PCT2835	0.5	150	1.6-2.0	730	100mw	FR
GC-2835B450	PCT2835	1	300	3.0-3.4	450	2.0-2.2	B
GC-2835R660	PCT2835	1	300	2.0-2.4	660	2.2-2.4	DR
GC-2835R730	PCT2835	1	300	1.6-2.0	730	200mw	FR

植物灯光源-EMC3535

Growing Fixtures chips-EMC3535

产品特点

- 高PPF值、高PPE
- 发光角度:60-120°
- 基于光合光子通量 (PPF)分档及测试
- LM-80认证
- 红光产品PPE 3.8 μmol/J
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务



Features

- High PPF,High PPE
- Lighting degrees:60-120 degress
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
- LM80 Certificate
- Red led PPE 3.8 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- Full spectrum available;Customization services for different stages from seedling, Growth, Flowering to Fruiting



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温/波长(nm) Wavelength	PPE(μmol/J) PPE	发光颜色 Color
GE-3535B450	EMC3535	1	350	3.0-3.4	450	2.0-2.8	B
GE-3535R660	EMC3535	1	350	2.0-2.2	660	3.0-3.8	DR
GE-3535R730	EMC3535	1	350	1.6-2.0	730	300mw	FR
GE-3535W400	EMC3535	1	350	3.0-3.4	4000K	2.8-3.1	W
GE-3535W600	EMC3535	1	350	3.0-3.4	6000K	2.8-3.1	W
GE-3535W300	EMC3535	1	350	3.0-3.4	3000K	2.8-3.1	W

植物灯光源-大功率

Growing Fixtures chips-Hi-power

产品特征

- 高PPF值、高PPE
- 发光角度:120°
- LM-80认证
- 红光产品PPE 4.0 μmol/J
- 精准提供植物吸收光子关键波长(蓝光450nm、深红660nm、远红光730nm)
- 全光谱,可根据苗期、生长、开花、结果不同阶段定制服务



Features

- High PPF,High PPE
- Lighting degrees:120 degrees
- LM80 Certificate
- Fruiting Red led PPE 4.0 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- Full spectrum available;Customization services for different stages from seedling, Growth, Flowering to Fruiting



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温/波长(nm) Wavelength	PPE(μmol/J) PPE	发光颜色 Color
GZ-1408B450	K1	1-3	350	3.0-3.4	450	3.0-3.4	B
GZ-1408R660	K1	1-3	350	2.0-2.2	660	2.0-2.4	DR
GZ-1408R730	K1	1-3	350	1.6-2.0	730	1.6-2.0	FR
GZ-1408	K1	1-3	350	3.0-3.4	全光谱	3.0-3.4	P
GZ-1408W3000	K1	1-3	350	3.0-3.4	3000K	3.0-3.4	W
GZ-1408W6000	K1	1-3	350	3.0-3.4	6000K	3.0-3.4	W

植物灯光源-集成COB

Growing Fixtures chips-Integrated COB

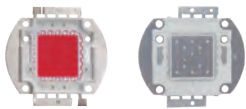
产品特征

- 高PPF值、高PPE
- 发光角度:120°
- LM-80认证
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- COB封装可以满足不同灯具和不同场景的需求
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务



Features

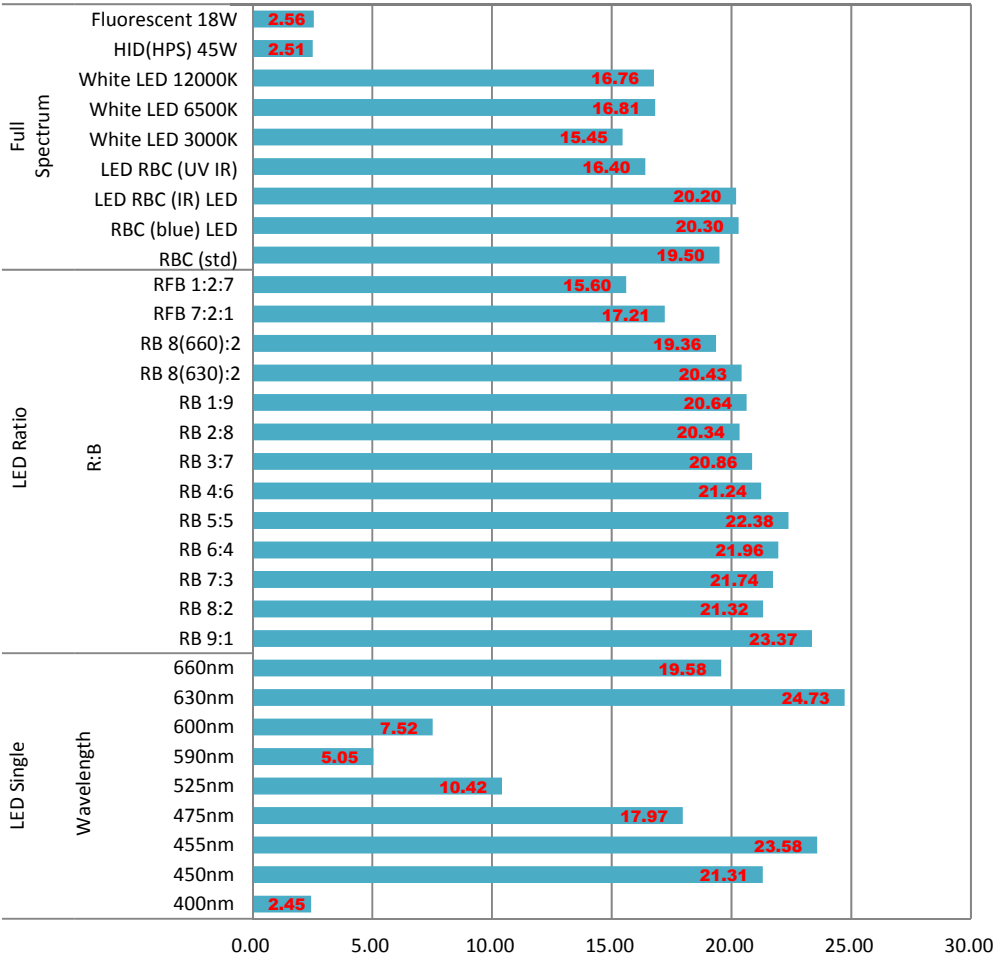
- High PPF,High PPE
- Lighting degrees:120 degrees
- LM80 Certificate
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- COB with different scenes to meet different lighting requirements
- Full spectrum available;Customization services for different stages from seedling, Growth, Flowering to Fruiting



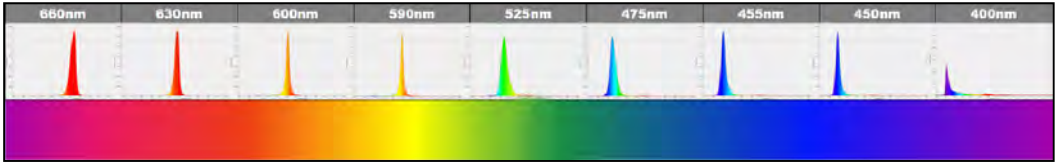
产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温/波长(nm) Wavelength	发光颜色 Color
GJZ-J100	COB	100	3000	30-34	全光谱	P

附件1

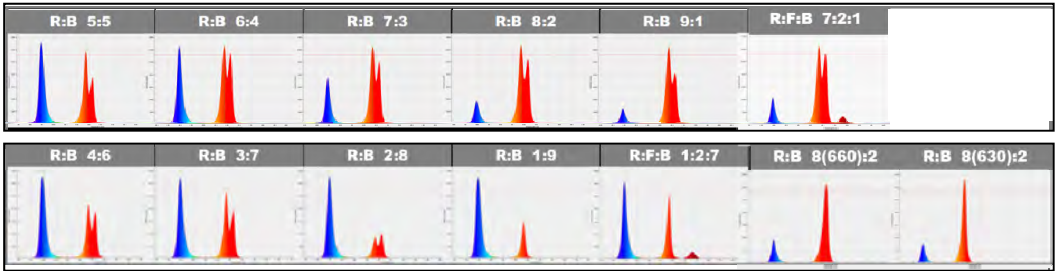
PPFD / Watt



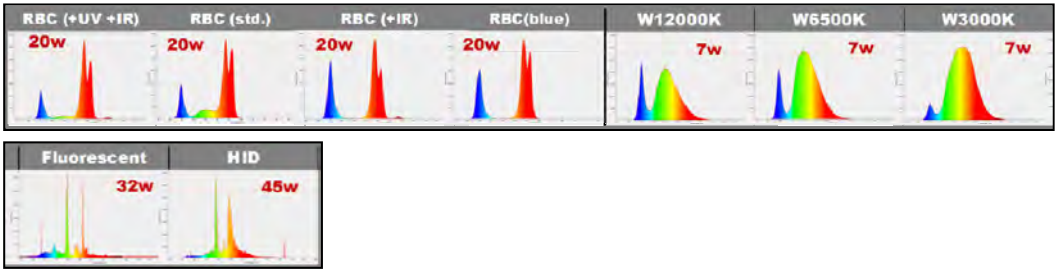
LED Single Wavelength



LED Ratio Red : Blue

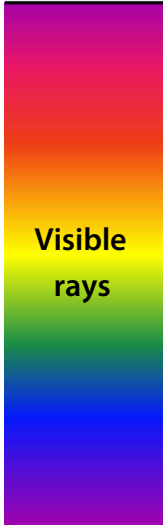


Full Spectrum



附件2

An operation effect a wavelength having on to a plant

wavelength (nm)			Activity effect
Infrared rays	IR-A	1400~1000	No activity detected on plants at this wavelength. Only heat effect.
		780	Stimulate the growth of the plant.
 Visible rays	red	700	Blocks germination (730nm). Photosynthesis operation at 670nm maximum.
	Red-yellow	660	Chlorophyll operation at 655nm maximum. Germination operation and flower bud formation and leaf distribution (660nm).
		610	No benefit on photosynthesis but prevention of harmful insects (580-650nm).
	green - yellow	510	Little absorption by yellow pigments (485nm).
	blue	430~440	Photosynthesis operation at 430nm maximum. Chlorophyll operation at 440nm maximum. Prevention of harmful insects.
Ultraviolet rays	UV-A	400 ~ 315	Leaves of plants can be thickened. Ager promotion operation of pigment. Prevention of harmful insects.
	UV-B	280	Operation highly affecting plants processes, like the immunity formation, etc. May be harmful on plants if this wavelength is too intense.
	UV-C	100	Operation rapidly drying plants.

Non Visual Light Source

非视觉光源

IR | IR

IR | IR
IR 陶瓷 | IR Ceramics

红外激光VCSEL | IR VCSEL

UVA | UVA

UVB | UVB

UVC | UVC



IR
IR

产品特征 | Features

- LM-80认证
- LM80 Certificate



安防监控
Security monitor



红外摄像机
Infrared camera



遥控器
Controller



虹膜识别
Pupil recognition



无人驾驶
Unmanned



工业检测
Industrial inspection

	产品型号 LED Type	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	波长(nm) WAVELENGTH	辐射通量(mw) Flux
	GP-7060R850-1CC-LS45M	1	350mA-1A	1.4-2.0	850	200-600
		3			940	
	GZ-1408R850-1CC1-LS45M	1	350mA (MAX:1A)	1.4-2.0	810 850	200-600



IR-陶瓷

IR-Ceramics

产品特征

- LM-80认证
- 陶瓷封装
- 低热阻, 高可靠性



安防监控
Security monitor



红外摄像机
Infrared camera



遥控器
Controller



虹膜识别
Pupil recognition



无人驾驶
Unmanned



工业检测
Industrial inspection



Features

- LM80 Certificate
- Ceramic package
- Low thermal resistance, high reliability

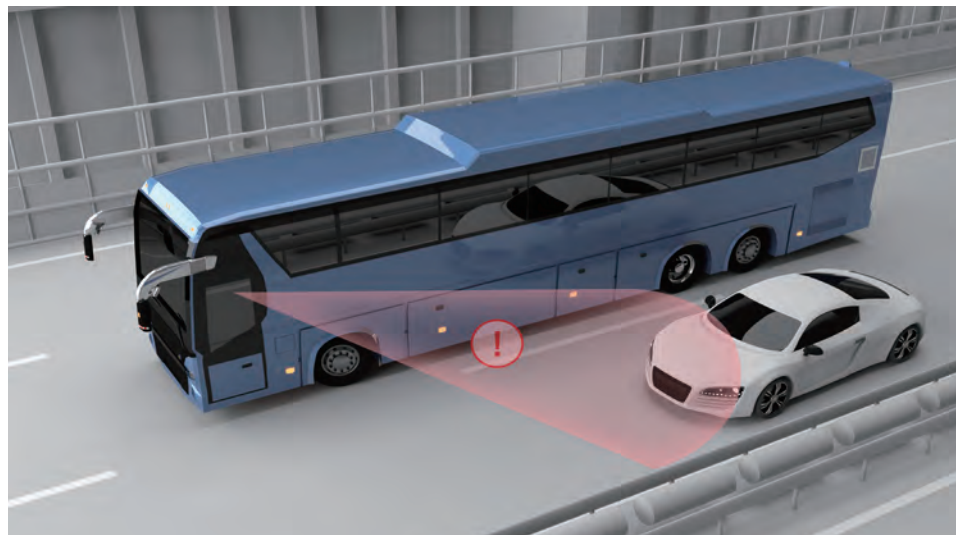
	产品型号 LED Type	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	波长(nm) WAVELENGTH	辐射通量(mw) Flux
	GT-3535R850-1CC0-LG45M	1-3	350mA-1A	1.4-2.0	810 850 940	200-600
	GT-3535R62W60-2BC0-JN36M	1-3	R 350 W 350	R 1.4-2.0 W 3.0-3.4	R 850 W 6000-7000k	R 300 W 90-120lm
	GD-5050R850-4BC0-LS45M	1-8	2A (MAX:4A)	2.8-3.4	810 850 940	1000-3000

红外激光VCSEL

IR VCSEL

产品特征

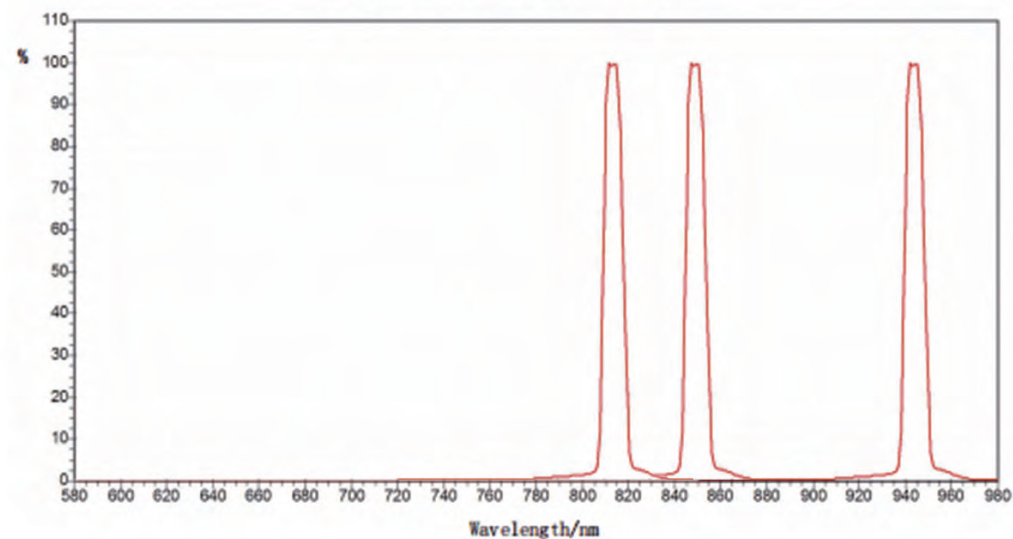
- 光医疗美容
- TOF雷达, 测距
- 工业传感器领域
- 远距安防红外摄像, 红外瞄准仪
- 3D感测, 如无人机无人驾驶领域等
- 心率血氧, 人脸识别等生物识别领域



Features

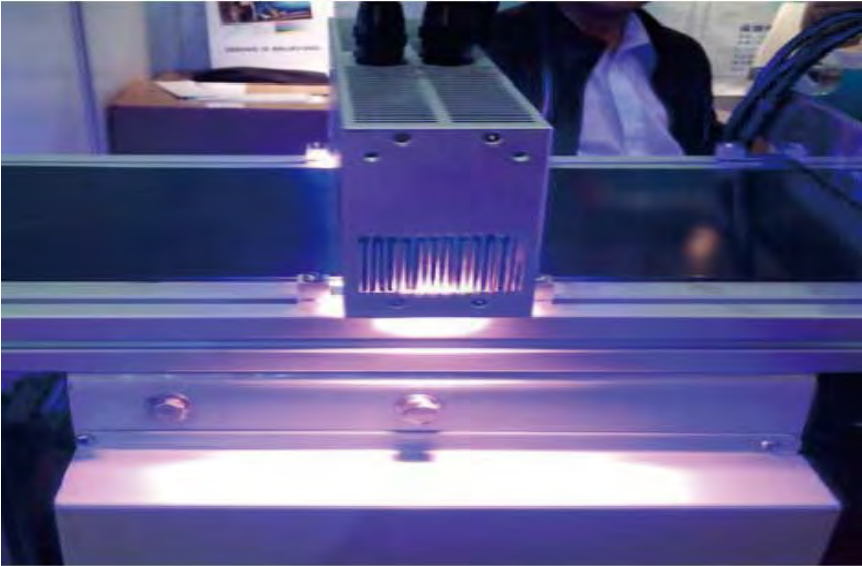
- Light medical beauty
- TOF radar, ranging
- Industrial sensor field
- Remote security infrared camera, infrared sight
- 3D sensing, such as unmanned aerial vehicles, etc
- Heart rate blood oxygen, face recognition and other biometric fields

LED光色电测试系统测试报告

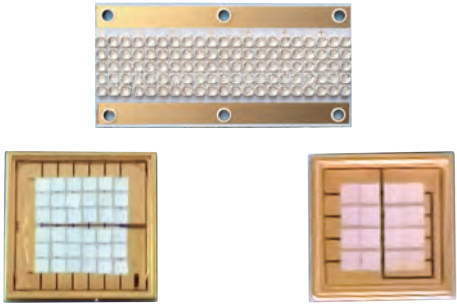


产品特征 | Features

- 低热阻, 低光衰
- 高辐射能量, 高可靠性
- 长波UVA, 波长介于320~410纳米, 又称为长波黑斑效应紫外线
- 主要应用: 油墨印刷、电子PCB、地板油漆、装潢、光钎、汽车、矿石鉴定、验钞
- Low thermal resistance, low light decay
- High radiation energy, high reliability
- Long-wave UVA with a wavelength between 320 and 410 nm, also known as long-wave black spot effect
- Main applications: ink printing, electronic PCB, floor paint, decoration, Light soldering, car, ore identification, currency detecting



模组定制 | Module Customization



	产品型号 LED Type	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	波长 (nm) WAVELENGTH	辐射通量 (mw) Flux
	GT-3535B39P36-2BC0-LG45M	2	500	3.4-4.0	390-405 365-370	800-1400 600-1200
	GD-5050B39P36-2C2Z0-LG45M	7	2A	3.4-4.0	390-405 365-370	3500-5000 2500-4000
	GZ-1408P390-1CC1-LG45M	2	500	3.4-4.0	390-405 365-370	800-1200 600-1000
	GD-3535P365-1CC0-LG45B	4	1A	3.2-3.6	365-370	1000-1200
	GD-6868P365-2C2C0-LG45B	14	2A	6.8-7.2	365-370	1700-3000
	GD-8585P400-8C2D-JY45B	40	1400	28	400-410	14000-18000
	GD-1212P400-12C3D-JY45B	88	2100	42	400-410	30000-35000

UVB

UVB

产品特点

- 高辐射能量, 共晶工艺, 高可靠性
- 内置ESD静电保护, 抗静电能力强
- 波长介于280~320纳米
- 主要应用: 紫外线保健灯、植物生长灯、医学光照疗法 (白癜风)、蛋白质分析及药物研究



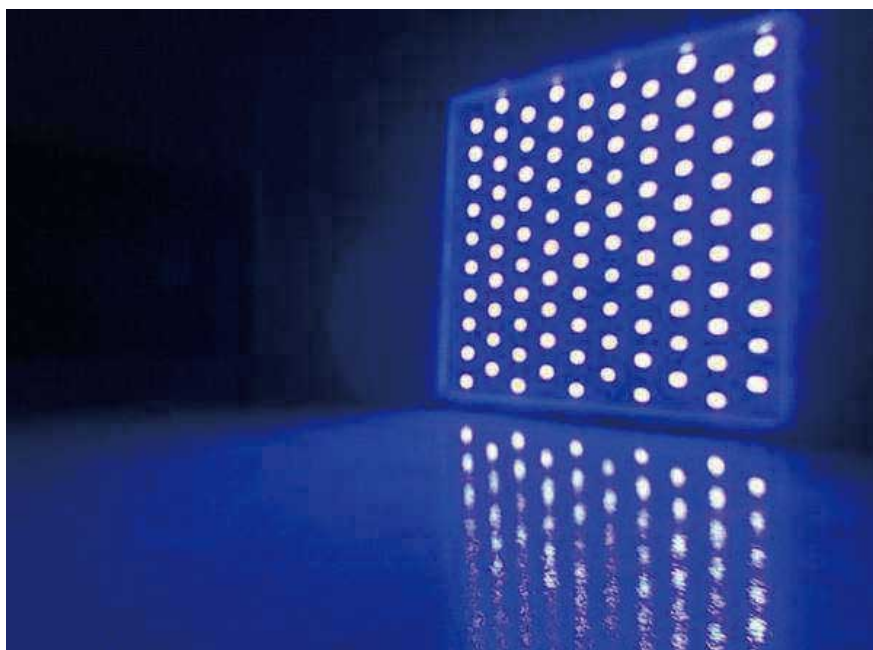
Features

- Eutectic process, high radiation energy, high reliability
- Built in ESD protection, strong antistatic ability
- Long-wave with a wavelength between 280 and 320 nm
- Main applications: Ultraviolet health lamp, plant growth lamp, medical light therapy (vitiligo), protein analysis and drug research

	产品型号 LED Type	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	波长 (nm) WAVELENGTH	辐射通量 (mw) Flux
	GD-3535U300-1CD	1	150	5.0-7.0	300-320	10-20
	GD-3535U300-1CD6-PW20B	1	150	5.0-7.0	300-320	10-20

产品特点

- 共晶工艺, 高辐射能量, 高可靠性
- 内置ESD静电保护, 抗静电能力强
- 波长介于200~280纳米
- 主要应用: 表面杀菌、空气杀菌、水杀菌



Features

- Eutectic process, high radiation energy, high reliability
- Built in ESD protection, strong antistatic ability
- Long-wave with a wavelength between 200 and 280 nm
- Main applications: ink printing, electronic PCB, floor paint, decoration, Light soldering, car, ore identification, currency detecting

	产品型号 LED Type	功率(w) Power	电流 (mA) Electricity	电压 (V) Voltage	波长 (nm) WAVELENGTH	辐射通量(mw) Flux
	GD-3535U255-1CD	0.2	40	5.0-7.0	255-280	2-12
	GD-3535U25P39-2BD	0.12 0.25	40	5.0-7.0 3.0-3.4	255-280 395-400	2-12 40-60
	GD-4040U255-1CD	1	150	5.0-7.0	255-280	8-12
	GD-6868U255-4CD	4	150	20-28	255-280	40-60
	GD-3535U270-1CD6	1	150	5.0-7.0	255-280	8-12

General Lighting 通用照明

2835 | 2835

白光全光谱 | Full Spectrum Of White Light

陶瓷 | Ceramics

陶瓷3535/3030 | Ceramics 3535/3030

陶瓷5050 | Ceramics 5050

陶瓷7070 | Ceramics 7070

EMC | EMC

3030 | 3030

5050 | 5050

仿流明 | K1 Power Led

集成 | Integrated

直流倒装 | DC Flip Chip

集成模块 | Integrated Module

COB | COB

2835白光全光谱 2835 Full Spectrum Of White Light

产品特征 | Features

- LM-80认证
- 全功率范围:0.2W-1W
- R1-R5均大于90
- 为室内健康照明提供LED光源解决方案
- LM80 Certificate
- Power:0.2W-1W
- CRI:R1-R5>90
- Provide LED light source solutions for indoor health lighting



灯管
Tube Light



平板灯
Panel Light



筒灯
Down Light



球泡灯
Bulb



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	显指 Ra	色温(K) CCT	光通量(lm) FLUX	发光颜色 Color
GC-2835W3/6-1CZ-L20-RQ9	PCT2835	0.2	60	3.0-3.4	96	2800-7000	20-30	W
GC-2835W3/6-1CZ-L50-RQ9	PCT2835	0.5	150	3.0-3.4	96	2800-7000	50-70	W

陶瓷3535/3030

Ceramics 3535/3030

产品特点

- LM-80认证
- 角度30°/60°/90°/120°
- 支持表面贴装技术 (SMT)
- 低热阻耐高电流驱动, 发光面积小, 使用功率高, 对照度有较高要求的最佳选择
- 抗冷热变化能力极强, 耐高温和耐低温能力最佳选择适用在极端的恶劣的环境下使用



工业照明
Industrial
Lighting



体育场馆照明
Stadium
Lighting



工矿灯
High Bay



舞台灯
Stage Lamp



车灯
Auto Lamp

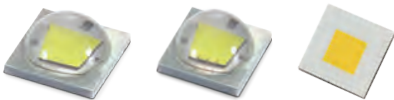


便携式照明
Portable Light



Features

- LM80 Certificate
- $\angle 30^{\circ}/60^{\circ}/90^{\circ}/120^{\circ}$
- Support Surface Mount Technology (SMT)
- Low thermal resistance, high current drive resistance, small light-emitting area, high power, the best choice for high contrast requirements
- Extremely strong resistance to cold and heat changes, the best choice for high temperature and low temperature resistance, suitable for use in extreme harsh environments



产品型号 LED Type	封装 Package	功率(w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温 (K) CCT	光通量(lm) Flux	发光颜色 Color
GT-3535W300-1CC0-OSR40M	陶瓷3535	1	350	2.8-3.4	2800-7000	130-160	W
	陶瓷3535	3	700	3.2-3.6	2800-7000	220-270	W
GT-3535W300-1CD0-SA55M	共晶3535	1	350	2.8-3.4	2800-7000	170-210	W
	共晶3535	5	1500	3.2-3.6	2800-7000	500-800	W
GD-3535W300-1CD0-DH43M	陶瓷3535	1	350	2.8-3.4	2800-7000	150-180	W
	陶瓷3535	3	700	3.2-3.6	2800-7000	220-270	W
GT-3030W300-1CC0-OSR40M	陶瓷3030	1	350	2.8-3.4	2800-7000	150-180	W
	陶瓷3030	3	700	3.2-3.6	2800-7000	220-270	W
GD-3535W300-1CD-SL77P	陶瓷3535	10	3000	3.0-3.4	2800-7000	1000-1500	W

陶瓷5050

Ceramics 5050

产品特征

- LM-80认证
- 高亮度, 高光效, 高可靠性
- 高电流密度输出非常便于紧凑型, 便携式灯具设计使用
- 颜色采用主流颜色为基础让人眼体验最佳的光品质
- 低热阻耐高电流驱动, 发光面积小, 使用功率高, 对照度有较高要求的最佳选择



便携式照明
Portable Light



舞台灯
Stage Lamp



投影仪
Projector

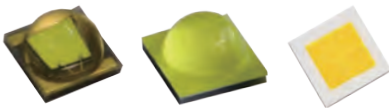


特殊照明效果
Special Effects
Lighting



Features

- LM80 Certificate
- High luminous flux, high efficacy, high reliability
- High current density output is very convenient for compact, portable lighting designs
- The color is based on mainstream color, allowing the eye to experience the best light quality
- Low thermal resistance, high current drive resistance, small light-emitting area, high power, the best choice for high contrast requirements



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温/波长(nm) Wavelength	光通量(lm) FLUX	发光颜色 Color
GD-5050W600-1CC0-05763M	陶瓷5050	10	3000	3.2-3.8	3000-7000K	800-1000	W
GD-5050W600-4BC0-SA38M	垂直四芯5050	10	3000	3.2-3.8	3000-7000K	800-1000	W
GD-5050W600-4BD0-SA55G	共晶四芯5050	20	6000	3.2-3.8	3000-7000K	1500-2000	W
GS-5050W300-4BD-SA55P	陶瓷5050	20	6000	3.2-3.8	3000-7000K	1400-1600	W

陶瓷7070

Ceramics 7070

产品特点

- LM-80认证
- 高亮度, 高光效, 高可靠性
- 高电流密度输出非常便于紧凑型, 便携式灯具设计使用
- 颜色采用主流颜色为基础让人眼体验最佳的光品质
- 低热阻耐高电流驱动, 发光面积小, 使用功率高, 对照度有较高要求的最佳选择



便携式照明
Portable Light



舞台灯
Stage Lamp



投影仪
Projector

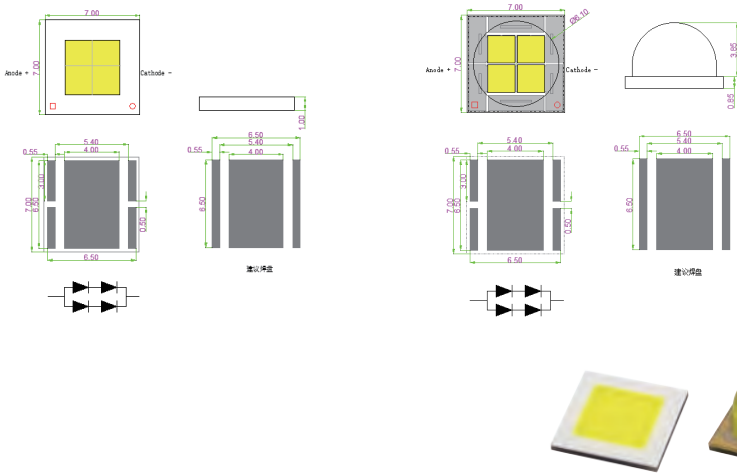


特殊照明效果
Special Effects
Lighting



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产品型号 LED Type	封装 Package	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温 (K) CCT	光通量 (lm) FLUX	发光颜色 Color
GD-7070W600-2C2D-SL77P	陶瓷7070	40	6000	6.0-6.4	3000-7000	5000-7000	W
GD-7070W600-2C2D0-SL77M	陶瓷7070	40	6000	6.0-6.4	3000-7000	5000-7000	W

3030

3030

产品特点 | Features

- LM-80认证
- 高光效可达230lm/w
- 高性价比户外光源替代方案
- 出色的抗UV表现
- LM80 Certificate
- High flux efficiency up to 230lm/w
- Alternative solutions for outdoor lighting
- Excellent Anti-UV performance



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温(K) CCT	光通量(lm) FLUX	发光颜色 Color
GC-3030W600-2CZ-PR2630	PCT3030	1	150	5.8-6.4	2800-7000	120-170	W
GC-3030W600-2BZ-JC2235	PCT3030	1	350	3.0-3.4	2800-7000	130-180	W
GE-3030W600-2BZ-JC2235	EMC3030	1	350	3.0-3.4	2800-7000	130-180	W



5050EMC

5050EMC

产品特点 | Features

- LM-80认证
- 1-5W功率选择
- 整灯180lm/w光效方案
- 工程项目补贴首选
- 采用低电流驱动芯片定做, 让光效极致化
- 采用对称焊盘, 散热更彻底, 光型更均匀
- LM80 Certificate
- Power: 1-5W
- Lamp Efficiency can up to 180lm/w
- Perfect choice for lighting project
- Customized with low current drive chip to maximize the light effect
- Using symmetrical pads, the heat dissipation is more thorough, and the light pattern is more uniform



产品型号 LED Type	显指 Ra	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温(K) CCT	光效(lm/w) FLUX	发光颜色 Color
GE-5050W600-4C2Z-JC2240-R70	70	1-5	180-850	5.8-6.2	2800-7000K	220	W
GE-5050W600-4C2Z-PR2240-R80	80	1-5	180-850	5.8-6.2	2800-7000K	190	W
GE-5050W600-4C2Z-PR2240-R90	90	1-5	180-850	5.8-6.2	2800-7000K	140	W
GE-5050W600-3C3Z-PR2240-R90	90	1-5	180-850	5.8-6.2	2800-7000K	140	W
GE-5050W600-8C1Z-PR2240-R90	90	1-5	180-850	5.8-6.2	2800-7000K	140	W



仿流明

K1 Power Led

产品特征

- LM-80认证
- 防紫外
- 红铜支架, 高导热性
- 使用灵活多样, 焊接方便
- 减少光衰, 延长光源使用寿命
- 使用范围广, 适应各种工作环境
- 低阻抗, 高照度, 高光效, 高功率, 高可靠性



路灯
Street Light



射灯
Spot Light



特殊照明效果
Special Effects
Lighting



Features

- LM80 Certificate
- Anti-UV
- Red copper heat sink, high thermal conductivity
- Flexible use and convenient welding
- Reduce light attenuation and prolong the service life of light source
- Wide application range and adaptability to various working environments;
- Low impedance, high illumination, high light efficiency, high power and high reliability



产品型号 LED Type	芯片 CHIP	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温(K) CCT	光通量(lm) FLUX	发光颜色 Color
GZ-1408W600-1CZ1-JY33G	EPISTAR 33mil	1	350	3.0-3.4	2800-7000	110-130	W
GZ-1408W600-1CZ1-PR35G	BRIDGELUX 35mil	1	350	3.0-3.4	2800-7000	140-160	W
GZ-1408W600-2BZ1-PR35G	BRIDGELUX 26*30mil*2	1	350	3.0-3.4	2800-7000	160-180	W
GZ-1408W600-3C2Z1-PR2630G	BRIDGELUX 26*30mil*6	1	120	8.5-9.0	2800-7000	170-200	W
GZ-1408W600-1CZ1-PR45G	BRIDGELUX 45mil	3	700	3.0-3.8	2800-7000	200-280	W
GZ-1408W600-1CZ1-JP45G	JP 45mil	3	700	3.0-3.4	2800-7000	250-300	W

直流倒装

DC FLIP CHIP

产品特征 | Features

- LM-80认证
- 过温, 过压, 过流保护
- 无金线封装工艺
- 高PF,可过CE等认证
- 颜色一致性好, 高显色
- 散热好, 寿命长
- LM80 Certificate
- With OTP, OVP, OCP
- No gold wire design
- High PF, CE certificate
- Good color consistency, High CRI
- Good heat dissipation, Long lifespan



路灯
Street Light



泛光灯
Flood Light



特殊照明效果
Special Effects
Lighting



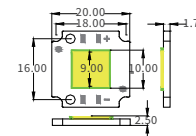
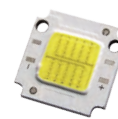
高棚灯
High Bay Light



工矿灯
High Bay



筒灯
Down Light



产品型号
LED Type

功率 (w)
Power

电流 (mA)
Electricity

电压 (V)
Voltage

色温 (K)
CCT

光通量 (lm)
FLUX

GJZ-J010W600-3C6D

10

900

9-11

2600-7000

1000-2000

GJZ-J020W600-10C4D

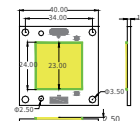
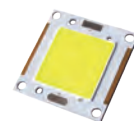
20

600

28-34

2600-7000

2000-2400



产品型号
LED Type

功率 (w)
Power

电流 (mA)
Electricity

电压 (V)
Voltage

色温 (K)
CCT

光通量 (lm)
FLUX

GJZ-J020W600-10C4D

20

600

28-34

2600-7000

2000-2400

GJZ-J100W600-10C10D

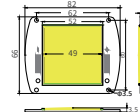
100

3000

28-34

2600-7000

10000-12000



产品型号
LED Type

功率 (w)
Power

电流 (mA)
Electricity

电压 (V)
Voltage

色温 (K)
CCT

光通量 (lm)
FLUX

GJZ-J150W600-10C30D

150

4500

28-34

2600-7000

15000-17000

GJZ-J300W600-10C60D

300

9000

28-34

2600-7000

30000-36000

集成模块

Integrated module

产品特点 | Features

- LM-80认证
- 5W-500W方案可选
- 更大热通道, 更低散热需求
- 紫铜支架, 更高的热流明
- 更小体积, 更大功率, 更强照度
- LM80 Certificate
- Power:5W-500W
- Larger hot channels, lower thermal resistance
- Red copper substrate, High stabilized performance
- Smaller volume, greater power, greater illumination



泛光灯
Flood Lamp



隧道灯
Tunnel Light



舞台灯
Stage Lamp



路灯
Street Light



高棚灯
High Bay Light



特殊照明效果
Special Effects
Lighting



产品型号 LED Type	芯片 CHIP	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温(K) CCT	光通量(lm) FLUX
GJZ-J005W600-2C2Z-JY33	EPISTAR 33*33mil	5	700	6-7	2800-7000	450-500
GJZ-J005W600-2C4Z-PR2345	BRIDGELUX 23*45mil*2	5	700	6-7	2800-7000	600-650
GJZ-J010W600-3C3Z-JY33	EPISTAR 33*33mil	10	1050	9-11	2800-7000	900-1000
GJZ-J010W600-3C6Z-PR2345	BRIDGELUX 23*45mil*2	10	1050	9-11	2800-7000	1100-1200
GJZ-J010W600-3C3Z-JY33	EPISTAR 33*33mil	10	1050	9-11	2800-7000	900-1000
GJZ-J010W600-3C6Z-PR2345	BRIDGELUX 23*45mil*2	10	1050	9-11	2800-7000	1100-1200
GJZ-J020W600-4C5Z-JY33	EPISTAR 33*33mil	20	1750	12-14	2800-7000	1900-2000
GJZ-J020W600-4C10Z-PR2345	BRIDGELUX 23*45mil*2	20	1750	12-14	2800-7000	2150-2350
GJZ-J080W600-10C8Z-JY33	EPISTAR 33*33mil	80	2800	30-34	2800-7000	7500-8000
GJZ-J080W600-10C16Z-PR2345	BRIDGELUX 23*45mil*2	80	2800	30-34	2800-7000	8600-9400
GJZ-J080W600-10C8Z-PR45	BRIDGELUX 45mil	80	2800	30-34	2800-7000	8000-8500
GJZ-J100W600-10C10Z-JY33	EPISTAR 33*33mil	100	3500	30-34	2800-7000	9000-10000
GJZ-J100W600-10C20Z-PR2345	BRIDGELUX 23*45mil*2	100	3500	30-34	2800-7000	10800-14000
GJZ-J100W600-10C10Z-PR45	BRIDGELUX 45mil	100	3500	30-34	2800-7000	10000-13000
GJZ-J200W600-15C13Z-JY33	EPISTAR 33*33mil	200	4550	45-50	2800-7000	18000-20000
GJZ-J200W600-15C26Z-PR2345	BRIDGELUX 23*45mil*2	200	4550	45-50	2800-7000	22000-28000
GJZ-J200W600-15C13Z-PR45	BRIDGELUX 45mil	200	4550	45-50	2800-7000	20000-26000
GJZ-J300W600-15C20Z-JY33	EPISTAR 33*33mil	300	7000	45-50	2800-7000	28000-30000
GJZ-J300W600-15C40Z-PR2345	BRIDGELUX 23*45mil*2	300	7000	45-50	2800-7000	32000-42000
GJZ-J300W600-15C20Z-PR45	BRIDGELUX 45mil	300	7000	45-50	2800-7000	30000-39000

COB

产品特征 | Features

- LM-80认证
- 光学控制, 实现精确光控
- 高显指, 高光效
- 光源标准化或定制化, 应对不同的灯具需要
- LM80 Certificate
- Precision optical control
- High color rendering index and high light efficiency
- Standardization and customization

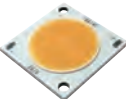
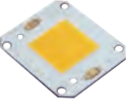
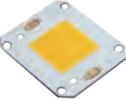
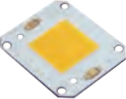


筒灯
Down Light



球泡灯
Bulb



	产品型号 LED Type	芯片 CHIP	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温 (K) CCT	光通量 (lm/w) FLUX
	GF-3W-0302-20STAR	China Sanan 1530*2 flip chip	3	300	9-11	2800-7000	120-130
	GF-5W-0502-20STAR	China Sanan 1530*2 flip chip	5	300	15-17	2800-7000	120-130
	GF-7W-0702-20STAR	China Sanan 1530*2 flip chip	7	300	21-24	2800-7000	120-130
	GF-10W-1002-20STAR	China Sanan 1530*2 flip chip	10	300	30-34	2800-7000	120-130
	GF-3W-0302-1414	China Sanan 1530*2 flip chip	3	300	9-11	2800-7000	120-130
	GF-5W-0502-1414	China Sanan 1530*2 flip chip	5	300	15-17	2800-7000	120-130
	GF-7W-0702-1414	China Sanan 1530*2 flip chip	7	300	21-24	2800-7000	120-130
	GF-12W-1202-1414	China Sanan 1530*2 flip chip	12	300	36-40	2800-7000	120-130
	GF-12W-1202-1919	China Sanan 1530*2 flip chip	12	300	36-40	2800-7000	120-130
	GF-15W-1502-1919	China Sanan 1530*2 flip chip	15	300	45-50	2800-7000	120-130
	GF-18W-1802-1919	China Sanan 1530*2 flip chip	18	300	54-60	2800-7000	120-130
	GF-20W-2002-1919	China Sanan 1530*2 flip chip	20	300	60-64	2800-7000	120-130
	GF-24W-2402-1919	China Sanan 1530*2 flip chip	24	300	72-80	2800-7000	120-130
	GF-30W-3002-1919	China Sanan 1530*2 flip chip	30	300	30-100	2800-7000	120-130
	GF-30W-1006-2828	China Sanan 1530*2 flip chip	30	900	30-34	2800-7000	120-130
	GF-35W-1007-2828	China Sanan 1530*2 flip chip	35	1050	30-34	2800-7000	120-130
	GF-50W-1010-2828	China Sanan 1530*2 flip chip	50	1500	30-34	2800-7000	120-130
	GF-60W-1012-2828	China Sanan 1530*2 flip chip	60	1800	30-34	2800-7000	120-130
	GF-10W-2020	China Sanan 1530*2 flip chip	10	300	30-34	2800-7000	120-130
	GF-20W-4046	China Sanan 1530*2 flip chip	20	600	30-34	2800-7000	120-130
	GF-30W-4046	China Sanan 1530*2 flip chip	30	900	30-34	2800-7000	120-130
	GF-40W-4046	China Sanan 1530*2 flip chip	40	1200	30-34	2800-7000	120-130
	GF-50W-4046	China Sanan 1530*2 flip chip	50	1500	30-34	2800-7000	120-130
	GF-60W-4046	China Sanan 1530*2 flip chip	60	1800	30-34	2800-7000	120-130
	GF-80W-4046	China Sanan 1530*2 flip chip	80	2400	30-34	2800-7000	120-130
	GF-100W-4046	China Sanan 1530*2 flip chip	100	3000	30-34	2800-7000	120-130