

This is specially designed for promoting HP-LEDs which are measured in Lumen @350mA/25°C normally. Cree is Arrow Asia's focus LED line for the brightest white color HP-LEDs when driving @350mA or higher. The high power LED series from Cree include XPC/XPE/XPG LED, XRE/XRC, lighting class MX6 LED and multiple chip LED MCE and MPL LED.

以下内容是为推广高功率LED所设，流明值都是在350mA驱动电流和25度条件下所测。Cree大功率白光LED是艾睿亚洲重点推广的一条照明产品线，包含有XPC/XPE/XPG/XRE/XRC，还有多芯片的MX6和MCE以及MPL LED。

**FEATURES (特性)**

- Industrial leading luminous flux in color and efficiency 产业界领先的亮度和光效
- Wide range of colors. E.g. cool white, warm white, red, green, blue, etc 多种颜色，如冷白、暖白、红色绿色蓝色等
- Narrow color bins 色温分档细
- Low thermal resistance & high max. junction temperature 极低热阻，极高工作节温
- Uniform small source 统一的小尺寸光源
- Low forward voltage 低正向压降
- Autoclave-compliant 满足高温作业要求
- Isolated thermal path 热电分离

**BENEFITS (优点)**

- Enable low total system cost through low power and heat requirements 低功率和热的要求能减少系统成本
- Allow XLamp LEDs to replace conventional lighting 可替换传统的照明光源
- Can be tailored towards specific applications 可满足某些特定应用
- Good uniformity across end products 产品一致性好
- Low inventory of LEDs for matching 可低库存运作
- Ease of thermal design and secondary 简易光学和导热设计
- Lower power consumption 更低的功率损耗
- Extends battery life in portable lighting 可延长电池寿命
- Enhance ruggedness & reliability of LED in all environments 在各种环境中具有高可靠度

**APPLICATIONS (应用)**

- Outdoor decoration/general illumination 室外装饰/通用照明
- Indoor/ residential lighting 室内/住宅照明
- Portable lighting - torch 便携照明 - 手电筒
- Street lighting 路灯
- Parking garage lighting 停车场照明
- Emergency vehicle lighting 应急车辆照明
- Industrial lighting 工业照明
- MR16 format spot lighting MR16类的照明
- Mining lamp lighting 矿灯

**SUPPLIER (供应商)**

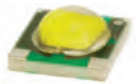


XPG		XPE		XPC		XRE		XRC		MCE		MPL		MX6	
Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current
6°C/W	1500mA	9°C/W	1000mA	12°C/W	500mA	8°C/W	1000mA	12°C/W	700mA	3°C/W	700mA	N/A	250mA	5°C/W	1000mA
Viewing Angle	Lens Types	Viewing Angle	Lens Types	Viewing Angle	Lens Types	Viewing Angle	Lens Types	Viewing Angle	Lens Types	Viewing Angle	Lens Types	Viewing Angle	Lens Types	Viewing Angle	Lens Types
125	Silicone	115	Silicone	110	Silicone	90	Glass	90	Glass	110	Glass	125	Silicone	120	N/A
Dimension: 3.45mm x 3.45mm		Dimension: 3.45mm x 3.45mm		Dimension: 3.45mm x 3.45mm		Dimension: 7.0mm x 9.0mm		Dimension: 7.0mm x 9.0mm		Dimension: 7.0mm x 9.0mm		Dimension: 12.15mm x 13.15mm		Dimension: 5.0mm x 6.5mm	

Cree — High Power Lighting Class LED - XPC/XPE/XPG LED  
科銳 — 照明級高功率 LED - XPC/XPE/XPG LED

XP LED is a LED which combines with lighting class performance and reliability and much smaller foot print compare with XR LED. The newly launched XPG series delivers unprecedented levels of light output and efficacy for a single die LED which is a perfect fit on general illumination application.

XP系列集成了照明级别的特性和高可靠性，但尺寸要比XR系列的小很多。XPG系列是最新推出的单芯片LED，它能输出前所未有的亮度和光效，可完美的应用于通用照明。



**FEATURES (特性)**

- Industry first lighting class LED 业界首位的照明级LED
- Small package size 3.45mm x 3.45mm 小尺寸
- Narrow color bins 色温分档细
- High light intensity output 高亮度输出
- Isolated thermal path 热电分离
- Low thermal resistance 低热阻

**BENEFITS (优点)**

- High light intensity output 高亮度输出
- Small size for small form factor 小尺寸
- Low power consumption 低功耗损耗
- Increased energy saving & efficiency 高效节能
- Fits various application 适合各种应用
- Ease of thermal and optic design 简易光学和导热设计

**APPLICATIONS (应用)**

- General lighting 通用照明
- High end portable 高端便携应用
- Light bar 灯条
- Outdoor lighting such as street light 路灯
- Indoor Retrofit 室内照明升级改造
- Area lighting 区域照明

**SUPPLIER (供应商)**



Supplier 供应商	Cree Lighting Class XP Series LED															
	Cool White (冷白)						Neutral White (中性白)		Warm White (暖白)				Color (颜色)			
Part No. 产品编号	XPCWHT-L1-0000-00951	XPCWHT-L1-0000-00C51	XPEWHT-L1-0000-00C51	XPEWHT-L1-0000-00D51	XPGWHT-L1-0000-00G51	XPGWHT-L1-0000-00H51	XPEWHT-01-0000-00CD2	XPGWHT-01-0000-00GC2	XPCWHT-L1-0000-007W6	XPEWHT-L1-0000-008W6	XPEWHT-L1-0000-008AA	XPEWHT-L1-0000-009W6	XPEAMB-L1-0000-00601	XPRED-L1-0000-00301	XPEBLU-L1-0000-00Y01	XPEGRN-L1-0000-00B01
Technical Performance (lm) 技术参数 (流明)	min. 80.6 @350mA, full bins	min. 100 @350mA, full bins	min. 100 @350mA, full bins	min. 107 @350mA, full bins	min. 130 @350mA, full bins	min. 139 @350mA, full bins	min. 100 @350mA, 16 bins	min. 130 @350mA, 12 bins	min. 67.2 @350mA, 12 bins	min. 73.9 @350mA, 12 bins	min. 73.9 @350mA, 6 bins	min. 80.6 @350mA, 12 bins	Amber Color min. 62 @350mA, A2 & A3 color bins	Red color min. 45.7 @350mA, R2 & R3 color bins	Blue color min. 30.6 @350mA, B3,B4,B5,B6 color bins	Green color min. 93.9 @350mA, G2,G3,G4 color bins
Type 种类	XP-C series	XP-C series	XP-E series	XP-E series	XP-G series	XP-G series	XP-E series	XP-G series	XP-C series	XP-E series	XP-E series	XP-E series	XP-E series	XP-E series	XP-E series	XP-E series
Color 颜色	Cool White	Cool White	Cool White	Cool White	Cool White	Cool White	Neutral White	Neutral White	Warm White	Warm White	Warm White	Warm White	Amber	Red	Blue	Green
Color Temp. (°K) 色温	5000-10000	5000-10000	5000-10000	5000-10000	5000-10000	5000-10000	3700-5000	4000-5300	2700-3500	2700-3500	2700-3500	2700-3500	N/A	N/A	N/A	N/A
Wavelength (nm) 波长	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	585-595	620-630	465-485	520-535
Current (mA) 驱动电流	350-500	350-500	350-1000	350-1000	350-1500	350-1500	350-1000	350-1500	350-500	350-1000	350-1000	350-1000	350-500	350-700	350-1000	350-1000
Lens Type 透镜	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome
Viewing Angle (q) 角度	110	110	115	115	125	125	115	125	110	115	115	115	130	130	130	130
Luminous Flux (lm) 光通量	80.6+	100+	100+	107+	130+	139+	100+	130+	67.2+	73.9+	73.9+	80.6+	62+	45.7+	30.6+	93.9+
Luminous Intensity (mcd) 亮度	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1K pcs Reference Price 参考价格	1.12	1.51	1.88	1.97	3.62	4.08	1.97	3.50	1.24	1.86	2.07	1.87	2.11	1.58	2.63	2.50

Xlamp MX6 LED provide the proven lighting class performance and reliability of Cree Xlamp LED in a flat top PLCC package. It continues Cree's innovation history on LED with wide viewing angle, unlimited floor life, uniform color output with no secondary optics and electrically isolated thermal path.

MX6系列LED采用平顶型PLCC封装，具有Cree Xlamp系列LED业已证明的照明级光效和可靠性。它延续了Cree在LED照明应用领域的创新历史，产品具有视角宽，车间寿命不受限制，无需二次光学元件就能提供均匀的光输出，以及散热部分不带电的特点。



**FEATURES (特性)**

- Small package size 小尺寸
- Unlimited floor life 车间寿命不受限制
- Lighting class performance 照明级光效
- Narrow color bins 色温分档细

**BENEFITS (优点)**

- High light intensity output 高亮度输出
- Small size for small form factor 小尺寸
- Low power consumption 低功率损耗
- Increased energy saving 节能

**APPLICATIONS (应用)**

- Light strip, T5/T8 fluorescent tube replacement T5/T8荧光灯管的替代
- Indoor/Residential lighting 室内/住宅照明
- Portable lighting - torch 便携式照明 - 手电筒
- Street lighting 路灯
- Retrofit lighting 传统照明升级改造

**SUPPLIER (供应商)**



Supplier 供应商	Cree Lighting Class MX6 LED							
Part No. 产品编号	MX6AWT-A1-0000-000C51	MX6AWT-A1-0000-000D51	MX6AWT-A1-0000-000BA1	MX6AWT-A1-0000-000CA1	MX6AWT-A1-0000-000CB1	MX6AWT-A1-0000-000B9	MX6AWT-A1-0000-0009AA	MX6AWT-A1-0000-0009E8
Technical Performance (lm) 技术参数 (流明)	min. 100@300mA, full bins	min. 107@300mA, full bins	min. 93.9@300mA, 6 bins	min. 100@300mA, 6 bins	min. 100@300mA, 8 bins	min. 73.9@300mA, 8 bins	min. 80.6@300mA, 6 bins	min. 80.6@300mA, 4 bins
Type 种类	5.0 x 5.0 SMT LED	5.0 x 5.0 SMT LED	5.0 x 5.0 SMT LED	5.0 x 5.0 SMT LED	5.0 x 5.0 SMT LED	5.0 x 5.0 SMT LED	5.0 x 5.0 SMT LED	5.0 x 5.0 SMT LED
Color 颜色	Cool White	Cool White	Neutral White	Neutral White	Neutral White	Warm White	Warm White	Warm White
Color Temp.(°K) 色温	5300-8000	5300-8000	4500-5300	4500-5300	4300-5300	2600-3200	2600-3000	2600-2900
Wave Length(nm) 波长	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Current(mA) 驱动电流	350-1000	350-1000	350-1000	350-1000	350-1000	350-1000	350-1000	350-1000
Lens Type 透镜	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Viewing Angle(q) 角度	120	120	120	120	120	120	120	120
Luminous Flux(lm) 光通量	100	107	93.9	100	100	73.9	80.6	80.6
Luminous Intensity(mcd) 亮度	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1K pcs Reference Price 参考价格	1.380	1.580	1.380	1.500	1.420	1.420	1.630	1.780

Cree — High Brightness LED  
科銳 — 高亮度 LED

Cree offers a number of high brightness LED in various package, they include P4, 3mm, 4mm, 5mm round and oval, SMD PLCC which fits various application in commercial and industrial. Cree LED introduce reliable package as well as high lumen maintenance in LED lighting market.

Cree提供了各种封装的高亮度LED，包括P4、3mm、4mm和5mm圆灯和椭圆灯，以及PLCC封装，它们可以用到各种商业和工业应用中，Cree LED封装可维持高流明增加可靠性。



**FEATURES (特性)**

- Various package - P4, Oval, PLCC, SMD 多种封装 - P4, Oval, PLCC, SMD
- Small package size 小尺寸
- Narrow color bins 色温分档细
- High light intensity output 高亮度输出
- Available in various angle 有多种角度可选
- Various color coverage — red, green, amber, white, blue 各种不同颜色，红绿蓝琥珀白光

**BENEFITS (优点)**

- High light intensity output 高亮度输出
- Small size for small form factor 小尺寸
- Low power consumption 低功率损耗
- Increased energy saving 节能
- Fits various application 适用于各种应用
- Common package size increase design flexibility 通用的尺寸适用于各种设计

**APPLICATIONS (应用)**

- General lighting 通用照明
- Video screen 显示屏
- Automotive 汽车
- Electronic signal sign 电子信号灯
- Multi-purpose 多用途
- Advertising 广告
- Traffic light 交通灯
- Moving message sign 移动信息指示

**SUPPLIER (供应商)**



Supplier 供应商	Cree HB LED Series											
Part No. 产品编号	General Lighting (T5/T8 Retrofit)				Electronic Signage				Multiple Purposes			
	CLA1A-WKW	CLA1A-MKW	CLM3C-WKW	CLM3C-MKW	C503B-RGS	C503B-ACS	C503T-GCS	C503B-BCS	CLM4B-RKW	CLM4B-AKW	CLM4B-GKW	CLM4B-BKW
Technical Performance (lm) 技术参数 (流明)	min. 1800mcd @30mA driving current	min. 1400mcd @30mA driving current	min. 1400mcd @20mA driving current	min. 1120mcd @20mA driving current	min. 3000mcd @20mA driving current	min. 3000mcd @20mA driving current	min. 4180mcd @20mA driving current	min. 2130mcd @20mA driving current	min. 1120mcd @50mA driving current	min. 1120mcd @50mA driving current	min. 1400mcd @30mA driving current	min. 355mcd @30mA driving current
Type 种类	3.2 x 2.8 SMT LED	3.2 x 2.8 SMT LED	2.7 x 2.0 SMT LED	2.7 x 2.0 SMT LED	5mm oval LED	5mm round LED	5mm round LED	5mm round LED	3.2 x 2.7 SMT LED	3.2 x 2.7 SMT LED	3.2 x 2.7 SMT LED	3.2 x 2.7 SMT LED
Color 颜色	Cool White	Warm White	Cool White	Warm White	Red	Amber	Green	Blue	Red	Amber	Green	Blue
Color Temp.(°K) 色温	4600-10000+	2500-4600	4600-5500	2500-3200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wave Length(nm) 波长	N/A	N/A	N/A	N/A	618-630	584-596	520-535	465-480	618-630	584-599	515-535	460-480
Current (mA) 驱动电流	35	35	25	25	50	50	25	30	70	70	30	30
Lens Type 透镜	N/A	N/A	N/A	N/A	water transparent lens + stopper	water transparent lens + stopper	water transparent lens + stopper	water transparent lens + stopper	N/A	N/A	N/A	N/A
Viewing Angle(q) 角度	120	120	120	120	30	30	30	30	120	120	120	120
Luminous Flux(lm) 光通量	7000	6000	4200	4000	N/A	N/A	N/A	N/A	4200	4000	N/A	N/A
Luminous Intensity(mcd) 亮度	2600	2000	1850	1560	5100	5000	7500	4100	1600	1500	1800	550
1K pcs Reference Price 参考价格	0.247	0.247	0.247	0.247	0.123	0.123	0.218	0.290	0.152	0.152	0.262	0.236

MPL-EZW eliminates traditional chromaticity binning and maximizes lumen density, enabling luminaires and bulb retrofit manufacturers to deliver consistent color and required light output to the target end user. XLamp MPL-EZW LEDs reduce LED-to-LED color variation to within a 4-step MacAdams ellipse around the desired color temperature, which is 75% smaller than the total area of the corresponding ANSI C78.377 color region. MPL-EZW LED is the perfect choice for lighting applications where high luminous flux output is required from a single, small point source, commercial/retail display spotlights, LED retrofit bulbs, and other indoor general illumination applications.

MPL-EZW系列突破了传统的分档标准，提高了流明密度，以保证灯具制造商能够为他们的终端用户提供一致的色彩和所需的光输出。MPL-EZW系列LED减小了LED之间的色彩变化，能够保持在所期望色温的4步麦克亚当椭圆之内，这比ANSI C78.377所规定的区域小了75%。MPL EasyWhite LED是要求从单个点光源获取高光通量输出照明应用的完美选择，如商业/零售展示聚光灯、LED改造灯泡和其它室内和室外常规照明应用。



**FEATURES (特性)**

- Proven lighting class performance 业已验证的照明级性能
- Narrow color bins 色温分档细
- High lumen density 高流明密度
- Wider viewing angle at 125 degree 125度宽视角
- RoHS-compliant 符合RoHS标准
- 24 die, 8 pcs in series/3 parallel string 24个LED芯，8串3並
- Introduce EasyWhite bin 引入EasyWhite分档

**BENEFITS (优点)**

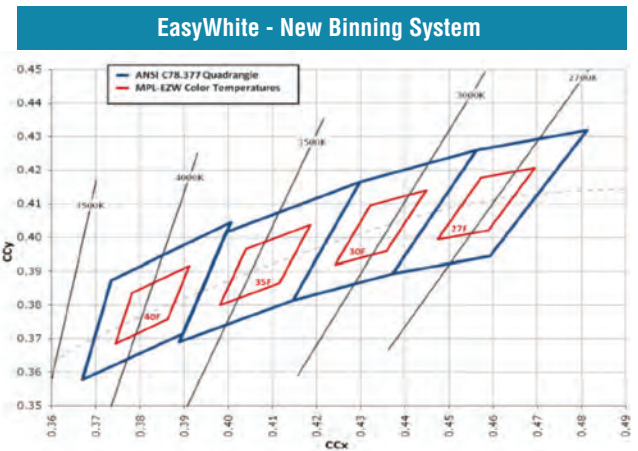
- High intensity output and smaller size 高亮度输出小尺寸
- Low power consumption 低功率损耗
- Less moisture sensitivity 抗高湿度
- Isolated thermal path 热电分离
- Reduce system cost 减少系统成本

**APPLICATIONS (应用)**

- Retrofit / Traditional lamp replacement 传统灯具的升级改造替换
- Personal lighting 私人照明
- Indoor lighting 室内照明
- Commercial lighting 商业照明
- Directional lighting 定向照明

SUPPLIER (供应商) **CREE**

Supplier 供应商	Cree MPL LED				
	Easy White				
Part No. 产品编号	MPLEZW-A1-0000-0000B027F	MPLEZW-A1-0000-0000B030F	MPLEZW-A1-0000-0000B035F	MPLEZW-A1-0000-0000C030F	MPLEZW-A1-0000-0000C035F
Technical Performance(lm) 技术参数(流明)	min. 700lm @150mA, 27F bins	min. 700lm @150mA, 30F bins	min. 700lm @150mA, 35F bins	min. 800lm @150mA, 30F bins	min. 800lm @150mA, 35F bins
Type 种类	MPL	MPL	MPL	MPL	MPL
Color 颜色	EasyWhite	EasyWhite	EasyWhite	EasyWhite	EasyWhite
Color Temp.(°K) 色温	2700	3000	3500	3000	3500
Wave Length(nm)波长	N/A	N/A	N/A	N/A	N/A
Current(mA) 驱动电流	150-250	150-250	150-250	150-250	150-250
Lens Type 透镜	Dome	Dome	Dome	Dome	Dome
Viewing Angle(q) 角度	125	125	125	125	125
Luminous Flux(lm) 光通量	700	700	700	800	800
Luminous Intensity(mcd) 亮度	N/A	N/A	N/A	N/A	N/A
1K pcs Reference Price 参考价格	17.110	17.110	17.110	19.080	19.080



Cree MCE multi chip LED is a lighting-class multi-chip LED which build in 4 LED chip that provides 4 times the flux of the XLamp XR-E LED in the same footprint. Compare with single die LED, it reduces the system complexity and part counts and fit various lighting application.

Cree MCE系列是多芯片的照明级LED，它在与XRE系列LED相同封装尺寸上集成了4个LED芯片，因此能提供4倍于XRE的流明输出。相对于单芯片LED，它能减小系统复杂程度和减小元件数量，可适用于多种照明应用。



**FEATURES (特性)**

- Industry first lighting class LED 业界首位的照明级LED
- Small package size 7.0mm x 9.0mm 8pins 小尺寸
- Narrow color bins 色温分档细
- High light intensity output 高亮度输出
- Individually addressable LED chip 芯片独立连接
- Low thermal resistance (3°C/W) 低热阻
- Introduce EasyWhite bin 引入EasyWhite分档

**BENEFITS (优点)**

- High light intensity output 高亮度输出
- Small size and small form factor 小尺寸
- Low power consumption 低功率损耗
- Increased energy saving 节能
- Fits various application 适用于多种应用
- Ease of thermal and optic design 易于热和光学设计
- Reduce total system cost 减少系统成本

**APPLICATIONS (应用)**

- General lighting 通用照明
- High-end portable lighting 高端便携式照明
- Street light 路灯
- Retrofit 传统灯具升级改造
- Area lighting 区域照明

SUPPLIER (供应商) **CREE**

Supplier 供应商	Cree MCE LED												
	Cool White (冷白)		Neutral White (中性白)				Warm White (暖白)				Color (颜色)		
Part No. 产品编号	MCE4WT-A2-0000-000K01	MCE4WT-A2-0000-000M01	MCE4WT-A2-0000-000KA1	MCE4WT-A2-0000-000JA1	MCEEZW-A1-0000-000H035F	MCEEZW-A1-0000-000J035F	MCE4WT-A2-0000-000HF8	MCE4WT-A2-0000-000HAA	MCE4WT-A2-0000-000JAA	MCEEZW-A1-0000-000G027F	MCEEZW-A1-0000-000H027F	MCE4CT-A2-0000-00A4AAAB1	MCE4CT-A2-0000-00A5AAAA1
Technical Performance (lm) 技术参数(流明)	min. 370lm @350mA, Full bins	min. 430lm @350mA, Full bins	min. 370lm @350mA, 6 bins	min. 320lm @350mA, 6 bins	min. 280lm @350mA, 35F bins	min. 320lm @350mA, 35F bins	min. 280lm @350mA, 4 bins	min. 280lm @350mA, 6 bins	min. 320lm @350mA, 6 bins	min. 240lm @350mA, 27F bins	min. 280lm @350mA, 27F bins	RGB + Neutral White	RGB + Cool White
Type 种类	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E	MC-E
Color 颜色	Cool White	Cool White	Neutral White	Neutral White	Neutral White	Neutral White	Warm White	Warm White	Warm White	Warm White	Warm White	Neutral White	Cool White
Color Temp. (°K) 色温	5000-10000	5000-10000	4500-5300	4500-5300	3500	3500	2700-3000	2600-3000	2600-3000	2700	2700	N/A	N/A
Wave Length (nm) 波长	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Current(mA) 驱动电流	350-700	350-700	350-700	350-700	350-700	350-700	350-700	350-700	350-700	350-700	350-700	350-700	350-700
Lens Type 透镜	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome	Dome
Viewing Angle (q) 角度	110	110	110	110	110	110	110	110	110	110	110	115	115
Luminous Flux(lm) 光通量	370+	430+	370+	320+	280+	320+	280+	280+	320+	240+	280+	N/A	N/A
Luminous Intensity(mcd) 亮度	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1K pcs Reference Price 参考价格	7.630	9.470	9.290	7.740	8.290	9.740	8.160	8.250	9.800	6.820	9.340	10.330	10.530