

Cree — Lighting Class High Power White LED
科銳 — 照明級高功率 LED

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，极高工作结温
- 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 室外装潢/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)

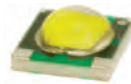


XPG		XPE		XPC		XRE		XRC		MCE		MPL		MX6	
Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. Driving Current	Thermal Resistance	Max. 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
- 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-01-0000-00C02	XPGWHT-01-0000-00G02	XPCWHT-L1-0000-007W6	XPEWHT-L1-0000-008W6	XPEWHT-L1-0000-008AA	XPEWHT-L1-0000-009W6	XPEAMB-L1-0000-00601	XPERED-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 (α) 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

Cree — Lighting Class High Power White LED
科銳 — 照明級高功率 LED

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，极高工作结温
- 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 室外装潢/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
- 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-01-0000-00C02	XPGWHT-01-0000-00G02	XPCWHT-L1-0000-007W6	XPEWHT-L1-0000-008W6	XPEWHT-L1-0000-008AA	XPEWHT-L1-0000-009W6	XPEAMB-L1-0000-00601	XPERED-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 (°) 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

Cree — High Power Multiple Chip MPL LED
科锐 — 高功率多芯片 MPL LED

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.

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

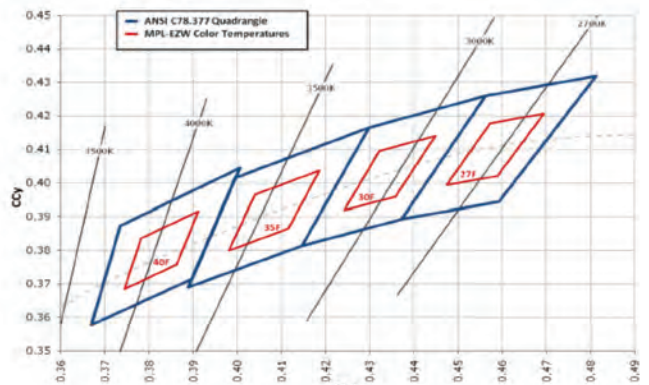
APPLICATIONS (应用)

- 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(α) 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

EasyWhite - New Binning System



Cree — High Power Multiple Chip MCE LED
科锐 — 高功率多芯片 MCE LED

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.

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-A2-0000-000K01	MCE4WT-A2-0000-000J01	MCEEZW-A1-0000-000H035F	MCEEZW-A1-0000-000J035F	MCE4WT-A2-0000-000H08	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	8.820	9.340	10.530	10.530