



Advanced  
LIGHTING TECHNOLOGIES

CREE ⇄ LIGHTING

# URBAN SERIES *PRO*





# URBAN SERIES

# PRO

## DESIGN

The correct urban lighting guarantees maximum visual light quality. Urban lighting needs to be aesthetically pleasing and prioritize peoples' personal safety in public spaces such as pedestrian areas. These areas need to be attractively lit by **LED fixtures that respect aesthetics and design while being energy efficient.**

By designing the right lighting solutions, **urban spaces can achieve an environmentally friendly light with LED luminaires, that enhance the attractiveness of central areas.** This increases the safety on the streets. Attention to detail ensures not only do the luminaires look good in daylight, **but their integration within the surrounding architecture and style is essential in respecting the identity in each setting.**

*EFFICACY: UP TO 160 LM/W* +

*COMPREHENSIVE LENS RANGE, CRI & CCT* +

*AVAILABLE WITH NANOCOMFORT® OPTICS SYSTEM* +

*HIGH OUTPUT UP TO 12KLM* +

*5 YEAR WARRANTY* +

+ *DALI DIMMABLE & ZHAGA D4I DRIVER/CONNECTOR*

+ *DEGREE OF PROTECTION : IP66*

+ *IMPACT RESISTANCE : IK09*

+ *OVERVOLTAGE PROTECTION UP TO 10KV*

+ *OPERATIVE TEMPERATURE UP TO 50°C*

## PERFORMANCE

Cree Lighting continues to invest in the research of advanced solutions, increasing the value of the services offered and the solutions available.

The Urban Pro series is characterised by great flexibility in terms of photometric distributions, lumen output and control systems that allow urban areas to be redesigned and meet the high standards required in modern urban lighting.



# A FIXTURE FOR EVERY CONTEXT

Cree Lighting has always worked alongside lighting designers and local governments, towards safeguarding the value of historic centers and urban areas of interest. Drastically improving lighting conditions whilst reducing energy consumption and preserving the environment. Following those principles we've developed our latest, most advanced range of LED lanterns, **the URBAN SERIES PRO.**

URBAN SERIES PRO is designed to integrate beautifully in various urban contexts. Historic centers, parks, suburban areas and car parks can now be swiftly upgraded, combining aesthetics with high-end technology.



# AN IDEAL SOLUTION

## FOR THE PRECIOUS CONTINUITY BETWEEN PAST AND FUTURE



When the luminaires are installed within an urban setting, it is essential to pay particular attention to aesthetics, ensure the safety of the environment and adhere with any compliance restrictions. We have developed a premium range of products, available in four different styles to meet the needs of any historic and contemporary urban centre.

The multiple mounting options available, along with the variety of control and light emission options certify the versatility of the series. Thanks to Cree Lighting's NanoComfort™ optical system, the new Urban series allows you to quickly embellish and modernize the streets of any urban area while enhancing its distinct image.

## CONTROL SYSTEMS

Not all applications are the same. Being able to count on a product that allows you to select the right amount of light for each application makes the difference, allowing for a minimisation of energy costs.

Each version can be supplied with programming that reduces the luminous flux in peak night hours, furthermore the modern ballasts used in Cree Lighting fixtures are equipped with NFC technology and support rapid configuration even once installed, whenever this is necessary.

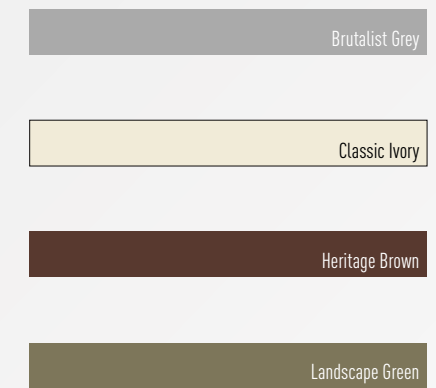
DALI variants or with Zhaga connector enable URBAN SERIES PRO for integration into control grids of existing and newly built systems. Cree Lighting's choice to adopt a universally recognized protocol, DALI and Zhaga standard connectors, **guarantees maximum freedom of choice for present and future control systems.**



### VERSATILITY

Cree Lighting® Urban Pro Series comprises of four lines of decorative LED luminaires ranging from a classic look to a more modern and elegant design.

All lines can be successfully adopted for any classic or more contemporary street furniture application, thanks to the thousands of standard product configurations.



# A RANGE OF PRODUCTS FOR INTELLIGENT PUBLIC LIGHTING

## NanoComfort™ ILLUMINATES ONLY WHERE AND WHEN YOU NEED IT.

With the introduction of the new and exclusive design of the NanoComfort™ lens, we improve the effectiveness compared to previous generations of lenses, allowing for an additional 15% of energy savings on the entire project;

Each luminaire is available with numerous optical solutions capable of providing the best lighting levels while keeping energy consumption to a minimum. Our optical systems direct the light exactly where it is needed, in the necessary quantity and without waste.

The Cree Lighting® Urban Series Pro lanterns prevent the dispersion of light flux without sacrificing the charm of the nocturnal atmosphere; they are decisive on streets, squares, parks and in any place that needs to be enhanced by quality lighting.

In addition, the control systems allow you to adjust the amount of light adapting it to any situation or time of day.



## PRO PERFORMANCE

High Output versions available, with luminous flux up to 12,000 and versions with efficiency up to 160 lm / W.

Equipped with the new NanoComfort® optics, the series is able to achieve excellent optical control by providing exemplary uniform light for safer, more attractive urban settings.



## SOFT LIGHT and VIVID COLORS

In traditional-style lanterns, the technology of discharge lamps has objective limits. Firstly, the poor color rendering of sodium lamps that are limited to specific bands of the spectrum for metal halide lamps. In addition to the problem of color rendering, discharge lamps show a sudden reduction in flux after a few years. Combined with a high failure rate. Finally, the slowness of returning to full functionality after resetting following a power cut.

**Cree Lighting® Urban Series Pro offers a latest generation LED solution with a wide range of warm color temperatures up to 2200K, creating a soft light which further enhances the charm of historic areas and matched with a high color rendering that does not alter perception of the natural colors of the environment.**

# PRODUCT SUMMARY

## FEATURES

- Available with **NanoComfort®** precision optical system
- LED Lumen output up to 12900lm
- LED module efficiency (excluding optical system):  $\geq 185\text{lm/W}$
- Luminaire efficiency (including optical losses): up to  $160\text{lm/W}$
- CCT: 4000K, Ra70, 3000K Ra80 [2200K Ra80, 2700K Ra80, 3000K Ra70, on request]
- Initial Chromatic Selection:  $\leq 4$ -Step MacAdam ellipse or  $\Delta u'v' \leq 0.003$  (LM80:08)
- Colour variation at 6,000 hours:  $\leq 7$ -Step MacAdam ellipse or  $\Delta u'v' \leq 0.007$  (LM80:08)
- Luminous flux maintenance factor: L97B10 up to  $>100,000$  hours  $T_a=25^\circ\text{C}$  (According to IESNA TM-21)
- IP Rating : IP66
- IK Rating : IK09
- Overvoltage protection: up to 10kV CM/DM
- Option Fuse available on request
- Driver equipped with over-temperature protection for optimal performance and safety
- Operating temperature:  $-40^\circ\text{C}$  up to  $+50^\circ\text{C}$
- Control Options: Virtual Midnight, Constant Flux
- Variant with Zhaga D4i driver and socket available for Plus version
- DALI dimmable available for Plus version
- Backlight accessory available for selected lenses

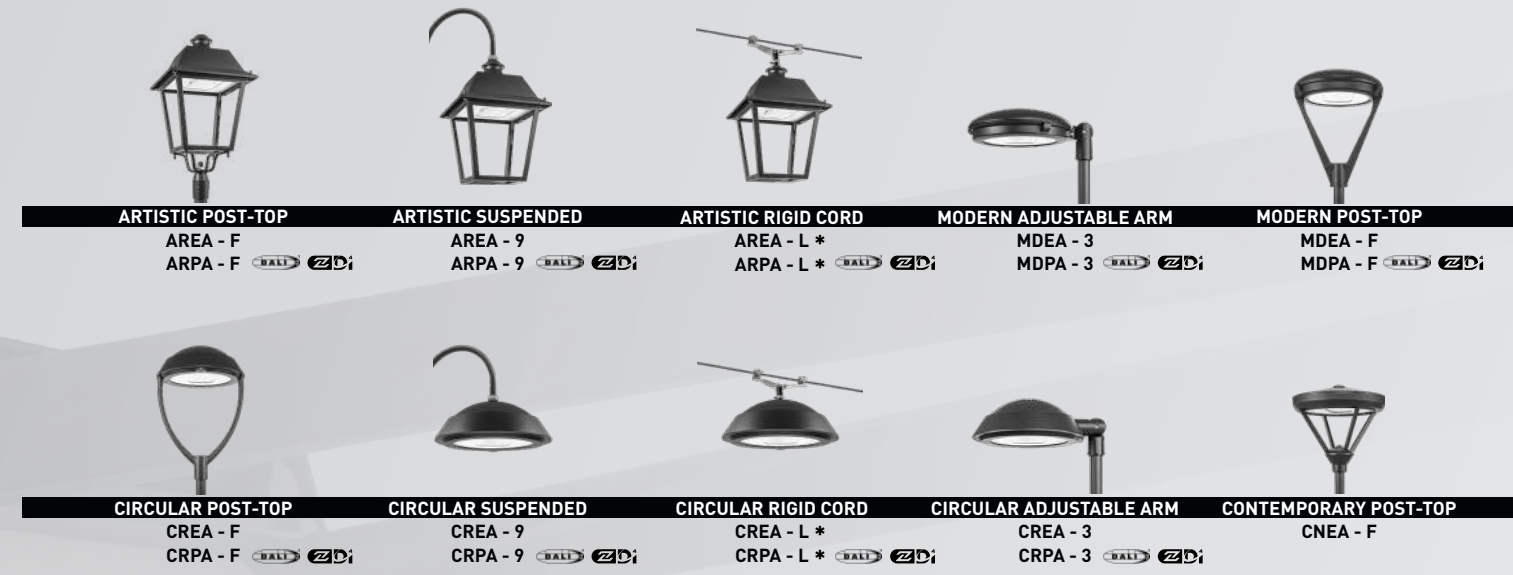
## CONSTRUCTION AND MATERIALS

- Die-cast aluminum body
- High resistance powder coating with increased anti-ageing and anti-corrosion performance for long weathering and reliability
- Replaceable PMMA lenses
- Replaceable LED board equipped with ESD protection
- Cable type H07RN-F (Cable length up to 1m)
- Easy installation
- Practicality in ordinary and extraordinary maintenance
- Luminaire assembled without the use of adhesives, totally dismountable and recyclable

## WARRANTY AND CERTIFICATIONS

- Warranty: 5 years
- CE / CB / RoHs / RCM
- Risk group exempt
- Compliant to: EN 60598-1; EN 60598-2-3
- Lead-free powder coatings with excellent exterior durability, conforms to the requirements:
  - Adhesion - test comply with ISO 2409
  - Salt spray - test NSS comply with ISO 9227
  - Accelerated Weathering - test UV comply with ISO 16474-2 (ex ISO 11507)
  - Constant humidity - test comply with ISO 6270-1

# ORDERING INFORMATION



E.g : ##EA-9-075-4L-407--A-BK-S-S-S-01 Complete the code choosing a suffix as seen above

075	-	4L	-	407	-	+	-	A	-	BK	-	S	-	S	-	S	-	01	
Optic		Lumen Package		CCT		Insulation Class		Voltage		Finish		Options		Variant		Protection		Cable length	
<b>K07</b> NanoComfort Narrow Street  <b>075</b> Narrow Street 0.75 (T2S)  <b>K10</b> NanoComfort Medium Street  <b>100</b> Medium Street 1.00 (T2S)  <b>K12</b> NanoComfort Broad Street  <b>125</b> Broad Street 1.25 (T2S)  <b>150</b> Wide Street 1.50 (T3S)  <b>SCP</b> Street & Cycle Path class P(T2S)  <b>C12</b> 125 Center Road (T2S)  <b>ABS</b> 150 Bi-Symmetric Area (T4S)  <b>PCR***</b> Pedestrian Crossing DX  <b>PCL***</b> Pedestrian Crossing SX	-	3L	-	228*** 2200K CRI80	-	+ Class 1	-	A 220-240V	-	BK Black	-	S Standard Program C Custom Program	-	S No socket / No sensor	-	S By Driver  U 10kV	-	01 Exit Cable 0.5m	
		4L		278*** 2700K CRI80		^ Class 2				CI*** Classic Ivory									
		8L		307*** 3000K CRI70						HB*** Heritage Brown									
		12L**		308 3000K CRI80						BC*** Brutalist Grey									
				407 4000K CRI70						LG*** Landscape Green									

Available in plus version

\* Mounting "L" to be completed with dedicated bracket \*\*Only in class I \*\*\*On request

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