



XSP Series

LED Street Lights





XSP Series LED Street Light
Setting a new bar for price and performance.



FAST

Payback

With up to double the lumens per dollar compared to previous generations of LED street lights and close to 50% energy cost savings over traditional technologies, the XSP Series can pay for itself as early as the first time a city avoids sending a crew and truck to replace a lamp.

OPTIMIZED

Design

The XSP Series delivers incredible efficacy of up to 100 lumens per watt and up to double the lumens-per-dollar of previous generations of LED street lights without sacrificing application performance.

UNRIVALED

Longevity

State-of-the-art flow through heat sink technology delivers years of near maintenance-free performance — expect over three times longer life compared to traditional high-pressure sodium. Ultra-durable DeltaGuard® finish complements long-lasting LED technology.

REAL

Alternative

Innovations in Cree LED chips and components, optic technology and design, and overall luminaire design make the XSP Series the best of Cree Integrated Technology. The result is better payback, better performance, and better price allowing municipalities to focus their resources where it matters most.

WHY CREE?

BREAKTHROUGH TECHNOLOGY. INCREASED PERFORMANCE.

BetaLED® Technology

Powered by BetaLED® Technology and designed for long L_{70} lifetime over 100,000 hours, the XSP Series street lights deliver incredible efficacy of up to 100 lumens per watt and up to double the lumens per dollar of previous generations of LED street lights. A Total Systems Approach combines the most advanced LED sources, driver technologies, optics and form into each product to offer our most optimized solution yet.

Utilizing exclusive NanoOptic® Technology – a level of optical control that only an LED light source can provide – the XSP Series uses a NanoOptic Precision Delivery Grid™ optic to efficiently deliver light where it matters, cutting energy consumption up to nearly 50%. Years of maintenance-free performance are possible through a state-of-the-art thermal management design that uses an innovative flow through heat sink to draw heat away from LEDs, maximizing performance and longevity. It all adds up to a faster return on investment while delivering clean, white light to help make your community appear beautiful and safe.





The Result:

The Best Alternative to Traditional Street Lighting

The XSP Series is made possible by innovation in every aspect of the product to deliver outstanding illumination, lasting performance and optimum energy efficiency.

NANOOPTIC PRECISION DELIVERY GRID OPTIC

Efficiently deliver light where you need it.

A NanoOptic Precision Delivery Grid optic efficiently delivers light where you need it, not where you don't. Innovation in LED and optical technologies allows the XSP Series to deliver unmatched target efficacy, and the lowest total cost of ownership compared to previous generations of Cree LED street lights.

HEAT SINK TECHNOLOGY

Maximize LED lifetime.

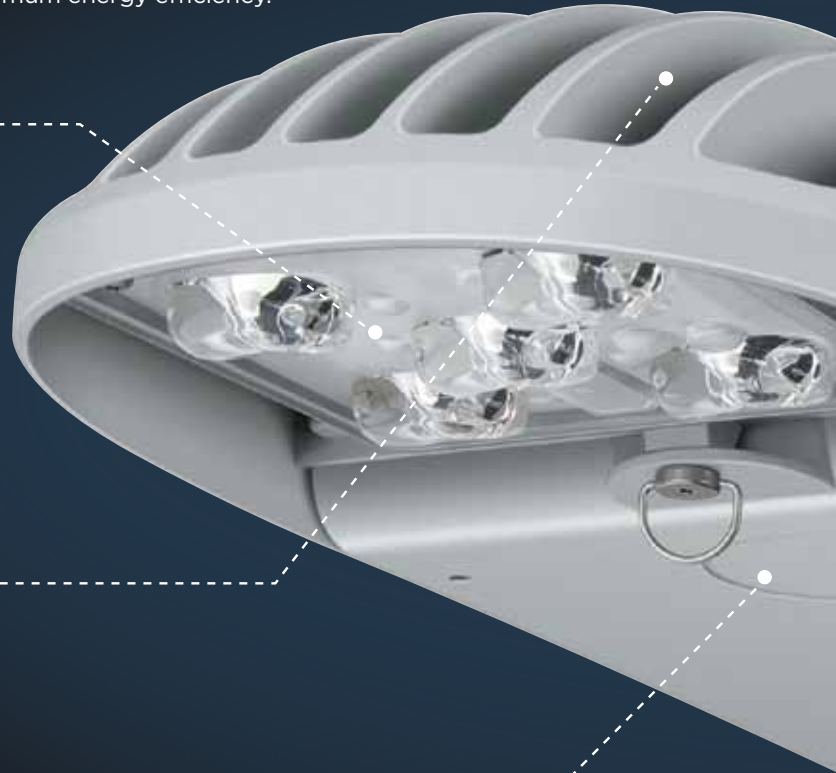
Passive thermal management approach utilizes a flow through heat sink to efficiently draw heat away from the LED chip package, maximizing performance and reliability.



OCCUPANCY SENSOR

Save more energy when not in use.

Optional occupancy sensor decreases light levels when no traffic is present saving more energy while providing an immediate light increase when traffic is detected.





NEMA RECEPTACLE

Code compliant control.

A NEMA receptacle can be added to the XSP Series Street Light to allow the installation of a photocell control in the field.



RUGGED DELTAGUARD® FINISH

Long lasting protection.

The finest industrial-grade finish available with an industry-leading 10-year warranty, the XSP Series housing includes six cleaning stages, eight pretreatment stages and an epoxy e-coat before the baked on, ultra-durable powder topcoat is applied.



DIMMING

Add light level flexibility.

Standard dimming driver offers compatibility between the XSP Series and third-party control and monitoring systems.

Additional Options

BACKLIGHT SHIELD

Factory-installed or added in the field, municipalities can meet strict cut-off requirements or address back lighting concerns of residents by utilizing the backlight shield.

BIRD DETERRENT

Birds are prevented from perching on street lights by incorporating spikes on the top of the luminaire.

FIELD ADJUSTABLE OUTPUT

Tune the XSP Series Street Light to the exact needs of a particular location after it's been installed. Plus, a single stocked replacement street light can be adjusted to a variety of outputs used throughout the city.

REMOTE MONITORING COMPATIBILITY

A perfect addition to a city-wide upgrade that includes central monitoring and control, the XSP Series street light was designed to integrate with other control modules.

Pays for Itself, Then Pays You!

Designed from the bottom up as a totally optimized LED street light system, the XSP Series delivers incredible efficiency of up to 100 lumens per watt and up to double the lumens per dollar of previous generations of LED street lights without sacrificing application performance. Beyond substantial energy savings and reduced maintenance, Cree achieved better optical control with our NanoOptic® Precision Delivery Grid™ optic than a traditional cobra head luminaire.

Better payback. Better performance. Better price. While other communities are still paying for costly re-lamping of their legacy systems, the Cree XSP Series will have returned your investment in lower operating expenses. The best alternative to traditional street lighting that pays for itself, then starts paying you.

PERFORMANCE SUMMARY

Utilizes BetaLED® Technology

NanoOptic Precision Delivery Grid optic

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K) Standard, 5700K (+/- 500K)

WARRANTY: 5 years on luminaire / 10 years on finish

EPA AND FIXTURE WEIGHT: Reference EPA and Weight spec sheet

Made in the U.S.A. of U.S. and imported parts

Products specifications subject to change at any time.
Visit www.cree.com/XSP to find the most up to date information.

Design Features

NANOOPTIC PRECISION DELIVERY GRID OPTICS

A NanoOptic Precision Delivery Grid optic efficiently delivers light where you need it, not where you don't. Cree innovation in LED and optic technologies created multiple efficiency improvements over previous generations of Cree LED street lights. The XSP Series delivers up to double the lumens per dollar of previous generations of street lights without sacrificing performance. Plus, communities can appear cleaner and safer with uniform, white light.

RUGGED DELTAGUARD® FINISH

The die-cast aluminum housing is protected with DeltaGuard®, the finest industrial grade finish available. Exclusive to all Cree products, the XSP Series finish carries an industry-leading ten-year warranty. Each product follows an immersion process that includes six cleaning stage, eight pre-treatment stages, and an epoxy e-coat before the topcoat is applied. The baked-on, ultra-durable powder topcoat is the last stop to a truly outstanding finish to match a long-lasting LED street light.

CREE INTEGRATED TECHNOLOGY

A giant leap forward, the XSP Series is only made possible by innovation in every aspect of the product. Capitalizing on innovations in Cree LED chips and components, optic technology and design, and overall luminaire design, the XSP Series street light exemplifies the best of Cree Integrated Technology. The result is the best alternative to traditional street lighting.

XSP SERIES

LED STREET LIGHT

XSP1™ LED STREET LIGHT

Standard Module:

3500 Lumens 53 Watts at 4000K

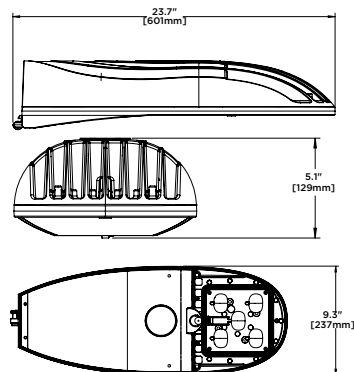
3850 Lumens 53 Watts at 5700K

High Efficacy Module:

4806 Lumens 53 Watts at 4000K

5340 Lumens 53 Watts at 5700K

Dimensions: L 23.7" x W 9.3" x H 5.1"



XSP2™ LED STREET LIGHT

Standard Module:

7000 Lumens 101 Watts at 4000K

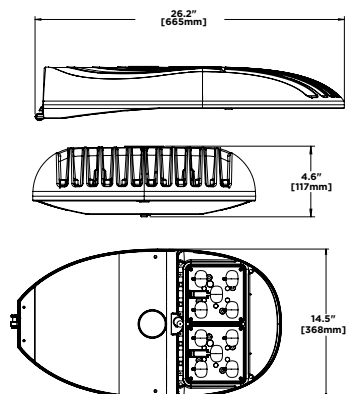
7700 Lumens 101 Watts at 5700K

High Efficacy Module:

9612 Lumens 101 Watts at 4000K

10680 Lumens 101 Watts at 5700K

Dimensions: L 26.2" x W 14.5" x H 4.6"





Made in America

Built on innovative thinking and revolutionary technology, the XSP Series reflects America's pioneering spirit. How fitting, then, that it's designed, manufactured, and assembled right here in the USA. Made here, to illuminate streets everywhere— how many street lights can say that?

Join the LED Lighting Revolution.

Learn more at www.cree.com/XSP

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