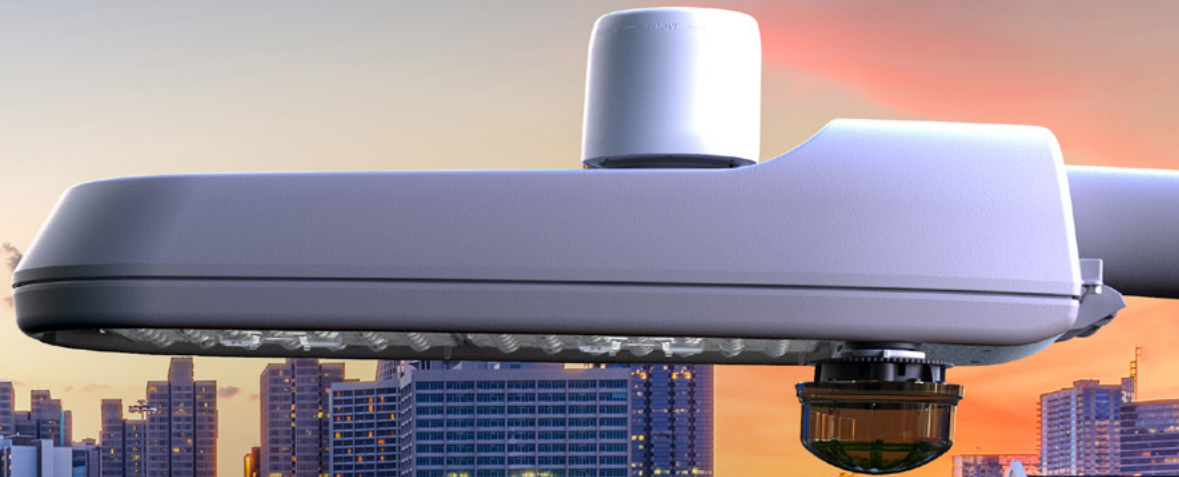


# LUMEC

by ©ignify



## Exceeding expectations, now and down the road

RoadFocus Plus

Product Guide







Better street lighting can help reduce crime, traffic incidents and energy costs.

# The important **role of street lighting** in cities and towns

Drivers and pedestrians rely on the nation's transportation infrastructure to navigate their daily routines and connect them to their communities. LED and connected lighting can ensure these roadways are well lit, providing benefits that go beyond illumination.

Upgrading street lighting to LED luminaires or LED connected solutions can reduce energy use and cost by up to 80%.\* Additionally, better street lighting can help reduce nighttime crime by up to 36%, and road accidents with injuries up to 30%.\*\* LED and connected lighting can also help reduce carbon emissions and contribute to a more sustainable environment.

\* <http://news.dataforcities.org/2017/03/wccd-and-philips-lighting-publication.html>

\*\* <http://news.dataforcities.org/2017/03/wccd-and-philips-lighting-publication.html>

# Complete road and street **product family**

The complete RoadFocus Plus family features a unique and patented design with minimalist profile, while still maintaining key cobra head characteristics. Connectable ready and available in 4 sizes, RoadFocus Plus offers multiple lumen packages with industry leading efficacy and a complete array of optical distributions. You can also choose from multiple shielding options to suit your application needs.



RoadFocus Plus Large



RoadFocus Plus Medium



RoadFocus Plus Small



RoadFocus Plus Nano





# RoadFocus Plus

## Make your lighting future ready

The RoadFocus Plus family of road and street luminaires prepares your city for the digital age, while saving energy costs and optimizing maintenance efficiency. Designed exclusively for roads and streets, RoadFocus Plus luminaires feature a 7 pin receptacle with a dimming driver – enabling connected lighting. Universal Zhaga Book 18 receptacle and D4i or SR drivers are also available as options. This means you can install your luminaires today and add nodes and sensors at a later date – without any hassle.



### Designed for smart cities

The digital revolution presents exciting opportunities for cities to benefit from future innovations in connectivity. But advances in technology happen so quickly, it can be difficult to decide when to opt in. RoadFocus Plus makes that decision easy. It gives you all the benefits of a high quality lighting today, with technology that is also compatible with sensors and systems in the future. Add the Interact connected lighting platform to give you a full range of lighting asset capabilities.





# Make your lighting simple to maintain



reddot winner 2022  
innovative product

Since LED luminaires require different competencies and processes for maintenance, fault finding and repair, RoadFocus Plus and its components all come standard with Service Tag technology. Signify Service Tag features a QR-based identification system that provides instant access to critical information during unpacking, installation, and throughout the life of the product. Using the Signify Service Tag app, simply scan the tag with a smartphone or tablet to easily access these features. With Service Tag, you can save precious time and reduce errors that otherwise commonly occur during lighting installation and maintenance.



## Allows for easy serviceability

Thanks to the Service Tag placed on all RoadFocus Plus luminaires, poles and boxes, each product is uniquely identifiable by simply scanning a QR code. Information for this specific luminaire can be accessed using a simple hand-held device like a smartphone or tablet. If required, spare parts can also be configured to the original registered settings for any specific luminaire. These Service Tag features enable your installation and maintenance process to become faster, easier and more cost effective.



# Application areas

The RoadFocus Plus family meets the needs of a wide variety of roadway applications in towns, cities and urban surroundings.



## Downtown area

- City streets and blocks
- Pedestrian walkways and crossings
- Cycle paths and crossings
- Parking areas



## Residential area

- Neighborhood streets
- Pedestrian walkways and crossings
- Cycle paths and crossings
- Parks and recreation



## Traffic area

- City streets and blocks
- Highways and roadways
- Roundabouts and intersections



## Area & Transport

- Airports
- Harbors and waterways
- Industrial areas
- Rail yards
- Parking areas



# Sustainable by design

At Signify, we are on a mission to create a better world with environmentally friendly light. To transition towards a sustainable and circular economy, we need to rethink the way we produce and consume. With RoadFocus Plus, you can rest assured your lighting solution was designed to have as minimal of an impact on the environment as possible.

## RoadFocus Plus achieves this in several ways:

✓	Manufactured using less materials, resulting in a luminaire that is on average 30% smaller and 27% lighter than its predecessor.	✓	Made by a company that has been 100% carbon neutral and had zero waste to landfill since 2020.
✓	Enhanced optics that optimize performance without sacrificing energy efficiency.	✓	Uses 78% less energy than conventional HPS technology.
✓	Fully connectable to achieve maximum lighting efficiency and efficacy.	✓	Compliant with International Dark Sky, featuring zero uplight.



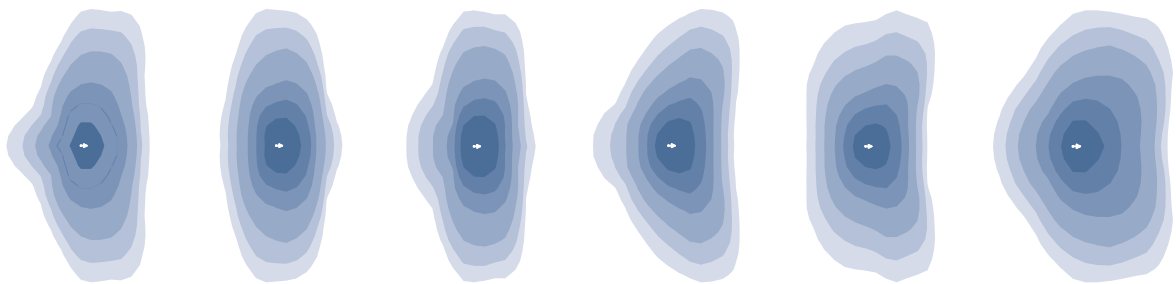


# Lighting performance

RoadFocus Plus LED luminaires offer industry leading performance with a wide range of optical distributions ranging from 70 to 400W HID replacement. Superior uniformity, putting light where it's needed, and Dark Sky friendly are just a few considerations when developing our optics and LED light engines.

Get up to 36% more energy saving over the Standard Performance offering by using the additional high efficacy optics. These optics are available in the High Performance choices for the RoadFocus Plus small, medium and large sizes. Energy savings can be as high as 44% over our previous generation family. These High Efficacy optics also provide enhanced photometric performance which in many cases will allow wider pole spacing and further savings in energy and install cost.

## Portfolio of optics



Type R2M

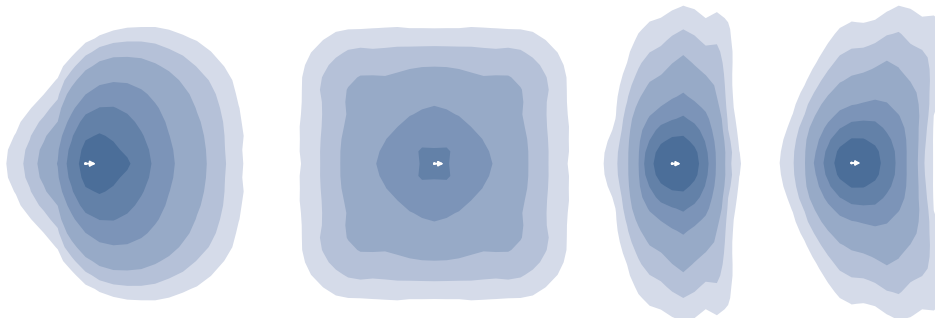
Type R2MB

Type R2S

Type R3M

Type R3MB

Type R3S



Type 4

Type 5

R2MHE

R3MHE

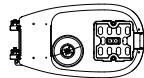


# RoadFocus Plus

## Dimensions and LED count

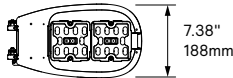


**Bottom View (10 LEDs)**

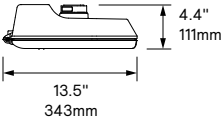


Shown with optional OMS

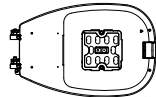
**Bottom View (20 LEDs)**



**Side View**



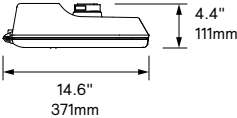
**Bottom View (10 LEDs)**



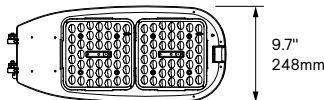
**Bottom View (20, 30, & 40 LEDs)**



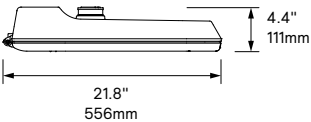
**Side View**



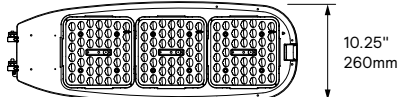
**Bottom View (60 & 80 LEDs)**



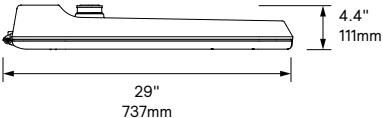
**Side View**



**Bottom View (90 & 120 LEDs)**



**Side View**



# Future ready RoadFocus Plus luminaires

To make your city feel safer, attractive and inviting, you need the right lighting to keep pace with the changing dynamics of city life. System ready luminaires like RoadFocus Plus are built for the future, allowing you to benefit from an end to end street lighting management system like Interact City.





# Components

**Mounting:**

See page 13 for complete tenon compatibility.

**Surge protection:**

Standard SP1 and optional SP2 surge suppressors protect the luminaire.

**Interact Node (optional):**

Provides plug & play wireless communications technology to connect your street lighting to Interact lighting management system.

**Twist lock receptacle:**

Tool-less 7-pin NEMA twist lock receptacle facilitates connected lighting solutions that can quickly and easily be upgraded in the future.

**Bird guard:**

Standard with all RoadFocus luminaires.

**Quick release & tool-less entry****Die cast housing:**

Rugged die-cast aluminum housing for maximum durability.

**Outdoor Multisensor (optional):**

Enables advanced adaptive lighting management and environmental monitoring sensors. Motion detection, temperature and noise levels can all be monitored.

**IP66 rated light engine:**

Reliable light engines that are IP66 sealed to protect against dust and moisture so the LED life is extended.

**Drivers:**

The dimming driver 0-10V is standard and D4i certified drivers are optional, enabling controls to be added now or in the future.

**Service Tag:**

Includes Service Tag, an innovative way to provide assistance throughout the life of the product.

**Sensor ready (optional):**

Optional D4i and SR drivers add flexibility for connecting now or in the future. D4i driver requires Zhaga socket (TLRSR), Socket ships with a protective cap as shown on the left.

**Optional field adjustable wattage selector:**

Can be operated even while wearing lineman's gloves, providing tactile audible and visual switch position markers.

Available in RPS, RPM, and RPL sizes.

# RoadFocus Plus & Interact

System ready luminaires like RoadFocus Plus are built for the future, allowing you to benefit from an end to end street lighting management system like Interact City. Interact City is a connected LED lighting management system which helps you improve services, enhance safety, beautify public spaces, encourage civic pride and increase energy efficiency. With Interact, you can remotely manage, monitor and control your city lighting, from roads and streets, to sidewalks and crossings, to parks and plazas — all from one single dashboard.



## What Interact City can do for you

- Control and monitor lighting remotely
- Set appropriate lighting schedules to deliver the right light when and where it's needed
- Override schedules manually in the event of incidents and emergencies
- Identify lighting failures through real-time fault notifications
- Support sensors that collect both lighting and non-lighting related data, which can be used for further analytics
- Achieve energy savings of up to 80% over conventional lighting
- Visualize lighting assets in one dashboard
- Export lighting data to smart city dashboards



# Your smart city building blocks

Interact City utilizes powerful software applications which can transform city luminaires into valuable sources of data. You can then share the data you collect with other city management systems to analyze and gain new insights into your operations.



## Lighting asset management

Lighting asset management software gives you full visibility into your lighting infrastructure. Automatic fault detection alerts you to issues for quick response and minimal downtime. Data can be used to make informed decisions and optimize lighting performance. Manage lighting-related workflows from an intuitive application and view data from a centralized dashboard.



## Energy optimization

Optimize street lighting performance and accurately measure energy usage in real-time. Full control of your city lighting lets you reduce CO<sub>2</sub> emissions, make progress toward your sustainability goals, and lower energy usage and costs. Those savings can be reinvested into other areas of your city's infrastructure.



## Scene management

Remotely adapt city lighting to suit time of night, season, or event. Turn lighting up if there's a traffic incident or a crime. Dim to 30% when the streets are empty late at night. Use sensors on the light poles to detect activity, keeping your citizens safe and comfortable – easily turning parks and plazas into livable spaces.

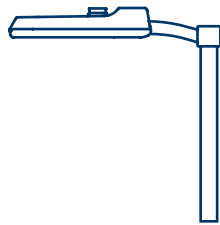


## Sensors

Turn every street light luminaire into a city sentinel. Outdoor sensors which detect motion/presence, tilt, vibration, ambient temperature, noise and others, can be attached to a luminaire fitted with the ZHAGA Book 18 push-and-twist lock socket interface. The sensing functions can be remotely configured and data can also be sent directly to the Interact City application.

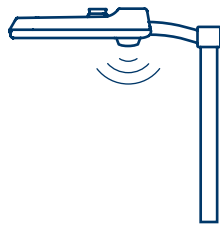
# Drive unprecedented value with RoadFocus Plus connected journey

Set the foundation and take incremental steps to reach your smart city goals at the pace that is right for you.



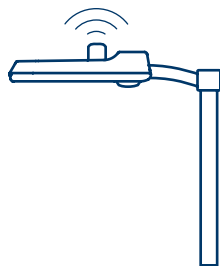
## RoadFocus Plus Standard

- Comes with 0-10V dimming.
- 7-pin NEMA socket allows future connectivity.
- Service Tag & Data Migration simplifies data collection and asset management.



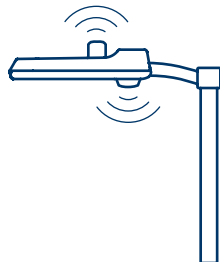
## + Zhaga socket & SR/D4i Driver

- Enables sensor ready luminaire and greater connectivity in the future.
- Just plug in the Interact Node and/or sensors when ready.



## + Interact Node

- Delivers connected lighting system with full visibility and control of lighting from a centralized dashboard.
- Remotely manage, monitor and control lighting assets.



## + Outdoor Multisensor (OMS)

- Enables advanced adaptive lighting management and environmental monitoring sensors.
- Motion detection, temperature and noise levels can all be monitored with the OMS.





	RoadFocus Plus Nano (RPN)	RoadFocus Plus Small (RPS)	RoadFocus Plus Medium (RPM)	RoadFocus Plus Large (RPL)
<b>System Watts</b>	Range 10 – 93	Range 10 – 94	Range 89 – 198	Range 134 – 306
<b>Lumen Output Range</b>	Up to 13,120	Up to 17,941	Up to 33,483	Up to 49,942
<b>Efficacy</b>	Up to 179 LPW	Up to 201 LPW	Up to 190 LPW	Up to 192 LPW
<b>Distribution</b>	R2M, R3M, 4, 5	R2M, R2MB, R2S, R3M, R3MB, R3S, 4, 5, R2MHE & R3MHE	R2M, R2MB, R2S, R3M, R3MB, R3S, 4, 5, R2MHE & R3MHE	R2M, R2MB, R2S, R3M, R3MB, R3S, 4, 5, R2MHE & R3MHE
<b>Mounting Height Range</b>	15' – 25'	15' – 25'	20' – 35'	30'–50'
<b>Mounting Compatibility</b>	Fits on a 1.66" (42mm) O.D. (1.25" NPS), 1.9" (48mm) O.D. (1.5" NPS), or 2 3/8" (60mm) O.D. (2" NPS), by 5 1/2" (140mm) minimum long tenon.			
<b>0 Uplight</b>	●	●	●	●
<b>Field Adjustable Wattage Selector (FAWS)</b>	N/A	●	●	●
<b>DALI</b>	●	●	●	●
<b>D4i driver</b>	●	●	●	●
<b>Sensor Ready Driver</b>	●	●	●	●
<b>Sensor Ready Receptacle (TLRSR)</b>	TLRSR (10 LED Only)	●	●	●
<b>Service Tag</b>	●	●	●	●
<b>LED Counts</b>	10, 20	10, 20, 30, 40	40, 60, 80	90, 120
<b>Photocell</b>	PH8, PH8/347, PH8/480, PHXL	PH8, PH8/347, PH8/480, PHXL	PH8, PH8/347, PH8/480, PHXL	PH8, PH8/347, PH8/480, PHXL
<b>Receptacle</b>	NRC, TLRD7	NRC, TLRD7	NRC, TLRD7	NRC, TLRD7
<b>Shielding</b>	HSS, CSS, FSS, LSS, RSS	HSS, CSS, FSS, LSS, RSS	HSS, CSS, FSS, LSS, RSS	HSS, CSS, FSS, LSS, RSS
<b>OMS Sensor</b>	●	●	●	●
<b>API (factory installed NEMA label)</b>	●	●	●	●
<b>Additional Surge Protection</b>	●	●	●	●
<b>Finish</b>	Black, Bronze, Grey	Black, Bronze, Grey	Black, Bronze, Grey	Black, Bronze, Grey
<b>IP Rating</b>	IP66	IP66	IP66	IP66
<b>Vibration</b>	3G	3G	3G	3G
<b>DLC Listing</b>	Premium	Premium	Premium	Premium
<b>Certifications</b>	Dark Skies	Dark Skies	Dark Skies	Dark Skies
<b>System Lifetime</b>	> 100,000 hours	> 100,000 hours	> 100,000 hours	> 100,000 hours
<b>Limited Warranty</b>	10 Years	10 Years	10 Years	10 Years



To learn more about the RoadFocus Plus product line visit

<https://www.signify.com/en-us/brands/product-highlights/roadfocus>



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