



Advanced
LIGHTING TECHNOLOGIES

CREE LIGHTING

Dot.

ONE DESIGN
ENDLESS APPLICATIONS





Dot. energy

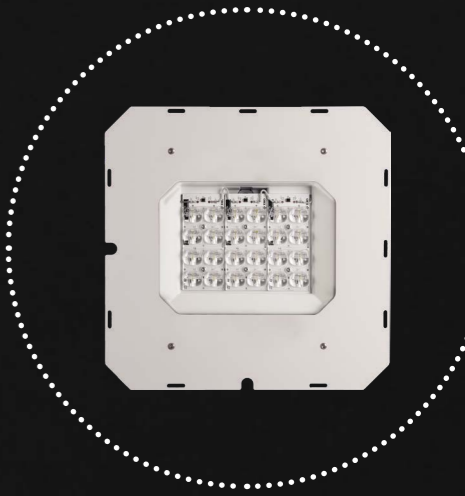
Dot. wall

Dot. multi

Dot. fuel

URBAN

Retrofit your urban installations with Dot. and save both time and energy.



LUMINAIRES

A wall housing cleanly packages all the benefits of Dot. - no need to retrofit to existing luminaires.



INDUSTRIAL

Enjoy significant energy savings in applications including marshalling yards, factories and underpasses.



PETROL

Transform electric car charging and petrol stations with Dot.fuel. Create a highly efficient lighting solution with a power consumption with as little as 1.5W/m².



Maximise energy savings with Dot.

As little as **1.5W/m²***

ENERGY SAVINGS



LED Efficacy



Dot. offers market leading system efficacy due to best in class LED, driver and optical components

Up to 170lm/W

ENERGY SAVINGS



Optics



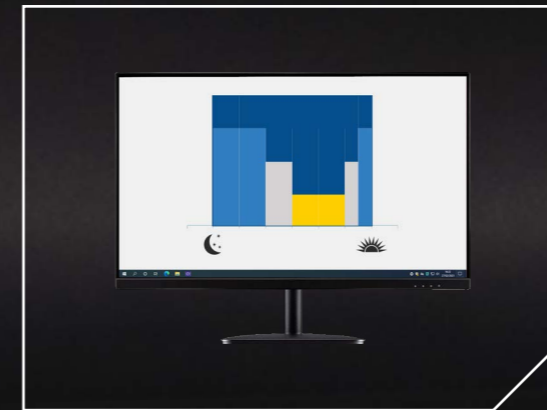
Increase distances between luminaires with symmetric and asymmetric optics including Nanocomfort proprietary optics, optimised for urban, industrial and petrol applications

Opportunity to reduce luminaire count

ENERGY SAVINGS



Auto-Dimming



Save more energy by programming drivers to an energy saving schedule

60% additional savings with standard programming

ENERGY SAVINGS



Smart Lighting



Enable your installation to react to occupancy by adding sensors and Zhaga™ sockets**

Additional saving and optimal energy usage

*See case study in Dot.fuel application page

**Since Dot. is a retrofit module, we evaluate the use of sensors and Zhaga sockets on a project basis.

The Dot. family

Dot. is a family of modular components that can be retrofitted to LED applications to deliver market-leading energy savings. It is suitable for a diverse range of forms and output requirements in urban, industrial or refueling stations

up to 170lm/W
525mA

up to 165lm/W
700mA

up to 150lm/W
1050mA

1

Choose your module

4L
8 LEDs
700mA - 19W - 3.1klm
1050W - 29W - 4.4klm

8L
16 LEDs
525mA - 27W - 4.7klm
700mA - 36W - 6.0klm
1050mA - 55W - 8.5klm

12L
24 LEDs
525mA - 39W - 6.8klm
700mA - 52W - 8.8klm
1050mA - 80W - 12.3klm

24L
48 LEDs
525mA - 77W - 13.0klm
700mA - 103W - 16.8klm
1050mA - 159W - 23.6klm

2

Choose your programming

OPTION S

- Standard Programming **S**
- Custom Programming **C**
- Standard Programming **DIM***
- Dali Dimmable **DL****

VARIANT S

- No socket/No sensor **S**
- Zhaga socket D4i Driver **Z****
- Motion / ambient sensor Bluetooth fully programmable **M***

3

Choose your mounting

① Square plate with central cutout
② Round plate with central cutout
③ Square plate with central cutout and side tabs
④ Square plate with central cutout and side tabs (variant)
⑤ Square plate with central cutout and side tabs (variant)
⑥ Square plate with central cutout and side tabs (variant)
⑦ Square plate with central cutout and side tabs (variant)
⑧ Square plate with central cutout and side tabs (variant)
⑨ Square plate with central cutout and side tabs (variant)
⑩ Square plate with central cutout and side tabs (variant)

Dot.energy ① KT-REF-SQ-STD-#-WH ② KT-REF-CR-STD-#-WH	Dot.wall ③ KT-WALL-SG	Dot.multi ④ KT-KIT-MLT ⑤ KT-KIT-ADJ	Dot.fuel ⑥ KT-PTR-SQ-S-WH ⑦ KT-PTR-SQ450-#-WH ⑧ KT-PTR-SQ600-#-WH	Dot.fuel Gen.2 ⑨ 44* ⑩ 45**
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4L, 8L, 12L net lumen for K07 lens 4000K. 24L net lumen for PS lens 4000K

*Only Dot.fuel Gen.2 **Only for Dot. PLUS version

: Choose plate variant according to Dot. variant (S or Z)

*Retrofitting CPY & 304 products, in combination with existing RTF-RCS kit **Delivered pre-assembled

Dot.

ONE DESIGN
ENDLESS APPLICATIONS

Unique IK10 impact resistance

Recessed lens module

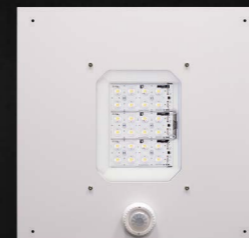
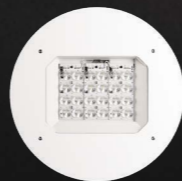
Up to 170 Lm/W

Optical Compartment IP66

Lumen output up to 12,000 lm per module

Driver NFC IP67*

Compact, material-reducing heatsink



*Product shown : KTEA

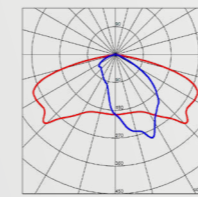
HIGH PERFORMANCE LENS OPTICS

Making Dot. effective for every application

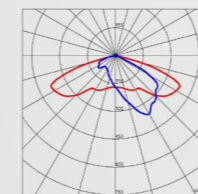
Dot's lens portfolio is as diverse as the applications it serves. The high performance lens optics ensure efficient illumination whilst maintaining visual comfort.

OPTICS SELECTION

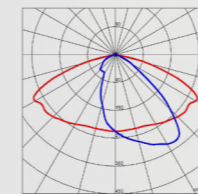
Dot's selection of lenses includes optimised solutions for urban, industrial and petrol applications. Whether Dot. is lighting a road, parking areas or underpasses, Dot. has the perfect lens in its optics toolkit.



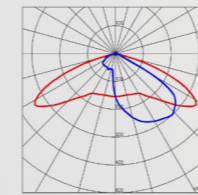
K07 - Narrow Street
NanoComfort™ Optic



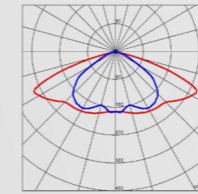
K12 - Broad Street
NanoComfort™ Optic



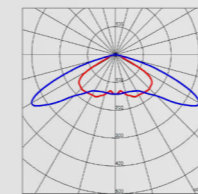
100 - Type II Short



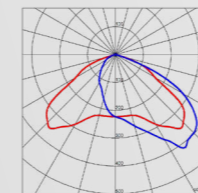
150 - Type III Short



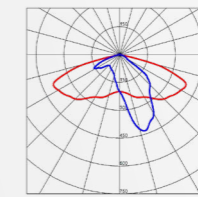
C12 - Type II Short



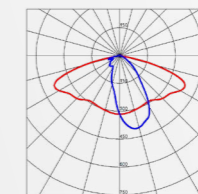
ABS - Type IV Short



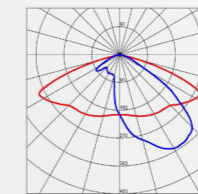
PA - Petrol Asymmetric



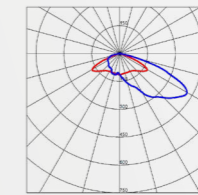
K10 - Medium Street
NanoComfort™ Optic



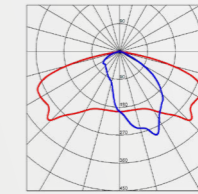
075 - Type II Short



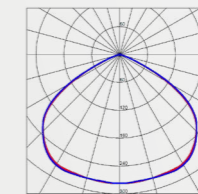
125 - Type II Short



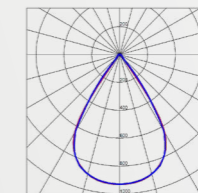
200 - Type IV Short



SCP - Type II Short



PS - Petrol Symmetric



60 - Flood 60°



Dot.

is future-proof

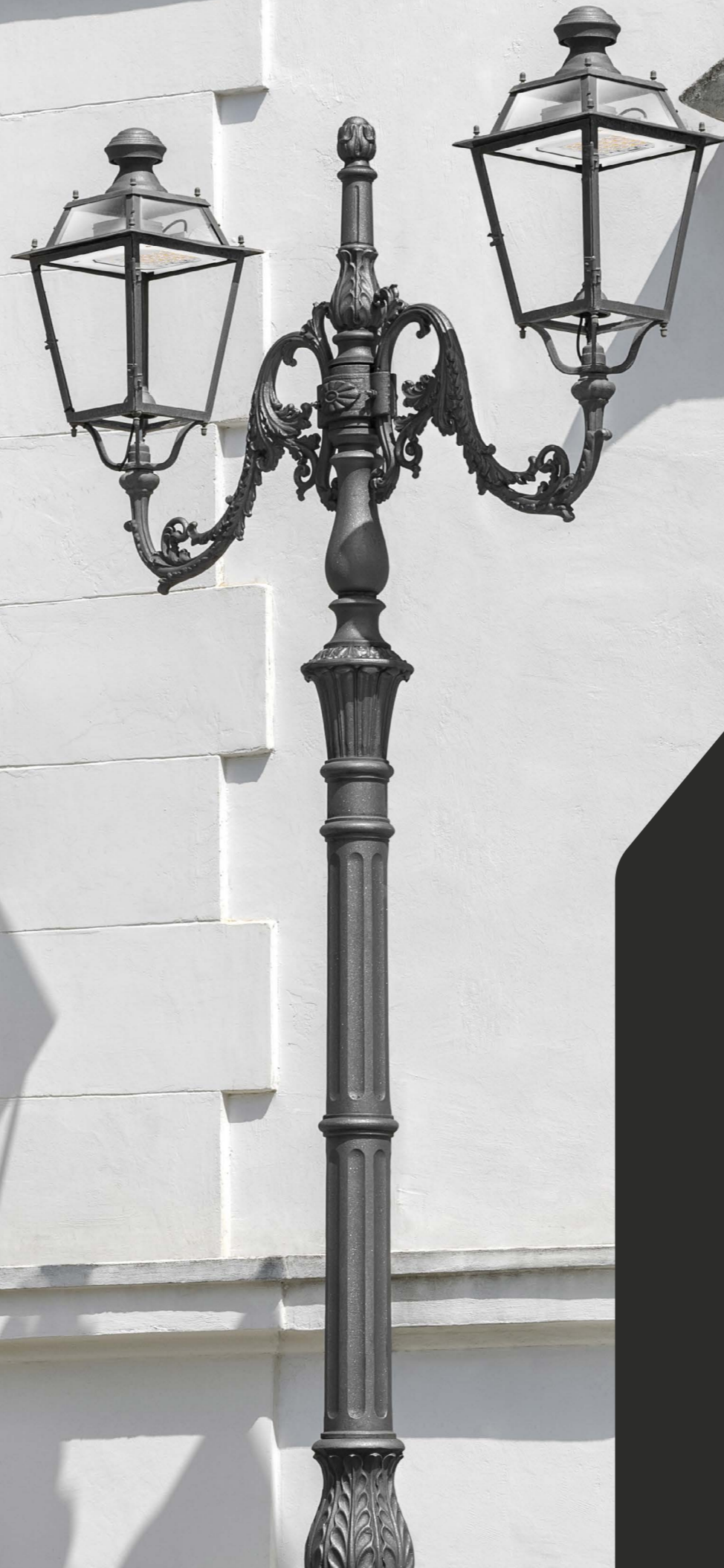
Forward-thinking modular design that will last longer and is better for the planet.

For over three decades, Cree Lighting has been at the forefront of LED lighting. As a technology leader, the team has consistently converted new, dynamic science into market-leading products. As the world pushes for more sustainable ways of living, Cree Lighting has turned its attention to how it makes its products, looking for ways to reduce the use of virgin materials, lower shipping miles, and more efficiently recycle luminaires at the end of their lifespan.

The solution was to move towards a component-led design, which allowed for modular manufacturing. Creating families of products manufactured from the same modular components introduced a plethora of benefits including reduced costs, opportunities to extend product lifespans, and improved sustainability across the whole supply chain.

Dot. is the epitome of modularity and ideal solution for future proofing LED lighting installations.





Dot.energy

The next generation of energy savings for your historical and design lanterns has arrived with Cree Lighting LED technology.

Dot.energy stands out for its extraordinary efficiency: a compact design is characterised by an innovative heatsink which provides an ideal retrofit solution. Enabling a quick conversion of old inefficient lanterns that lack optical control and dimming, into modern, smart LED luminaires.

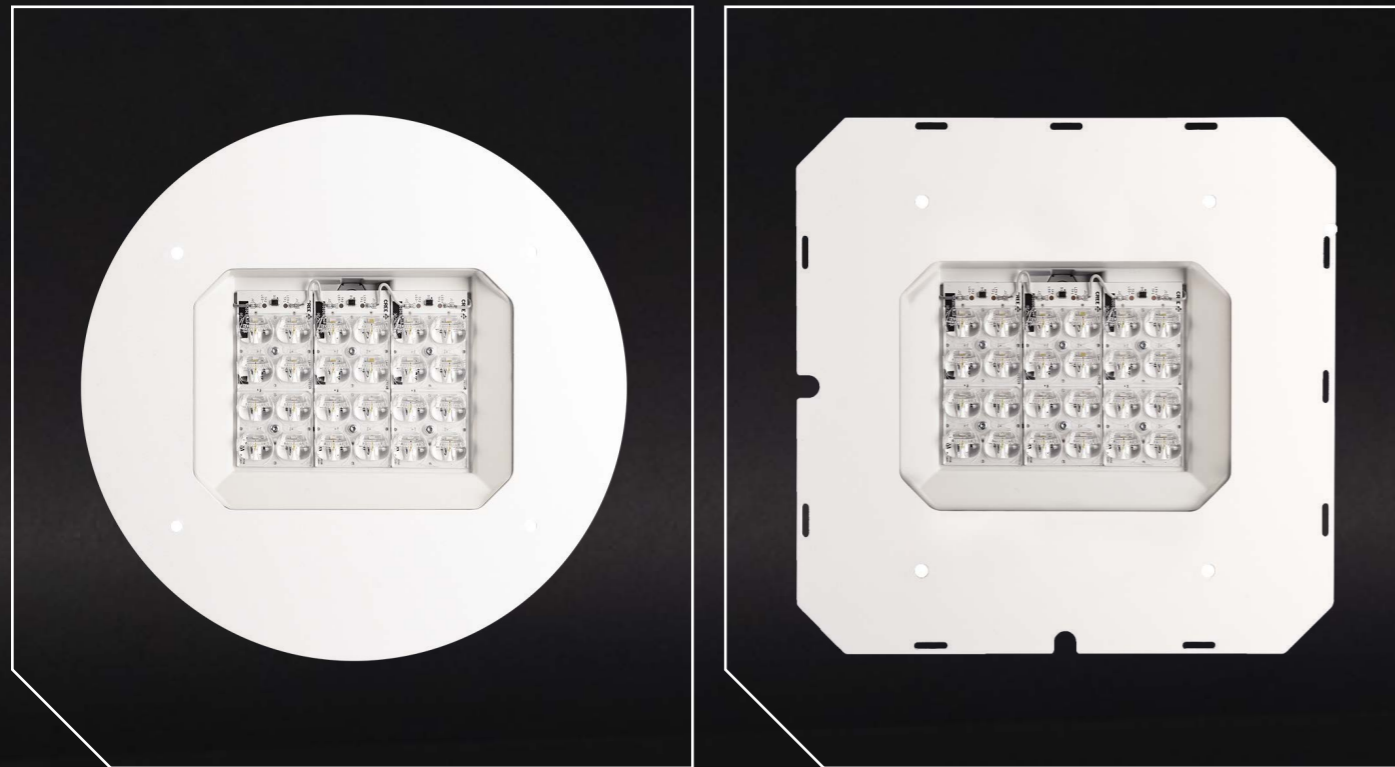
Equipped with stand-alone light control, constant light, and Zhaga D4i connectivity Dot.energy is available in three lumen packages, suitable for HID replacement up to 250W along with a comprehensive colour temperature and lens range.

Faulty lamps and bothersome maintenance become a thing of the past: our heritage fixtures will continue to embellish your city's lanes and roads for decades on end.

Yes. One can fit all.

Mounting Dot. in existing fittings is easy.

Dot. is available with dedicated mounting plates that fit the most common heritage lantern design. Simply swap old technology for future proof Dot. products. Mounting kits can also be ordered as an option for all those urban spaces where no pre-existing mounting is available.



URBAN OPTICS PORTFOLIO

Retrofitting without compromise.

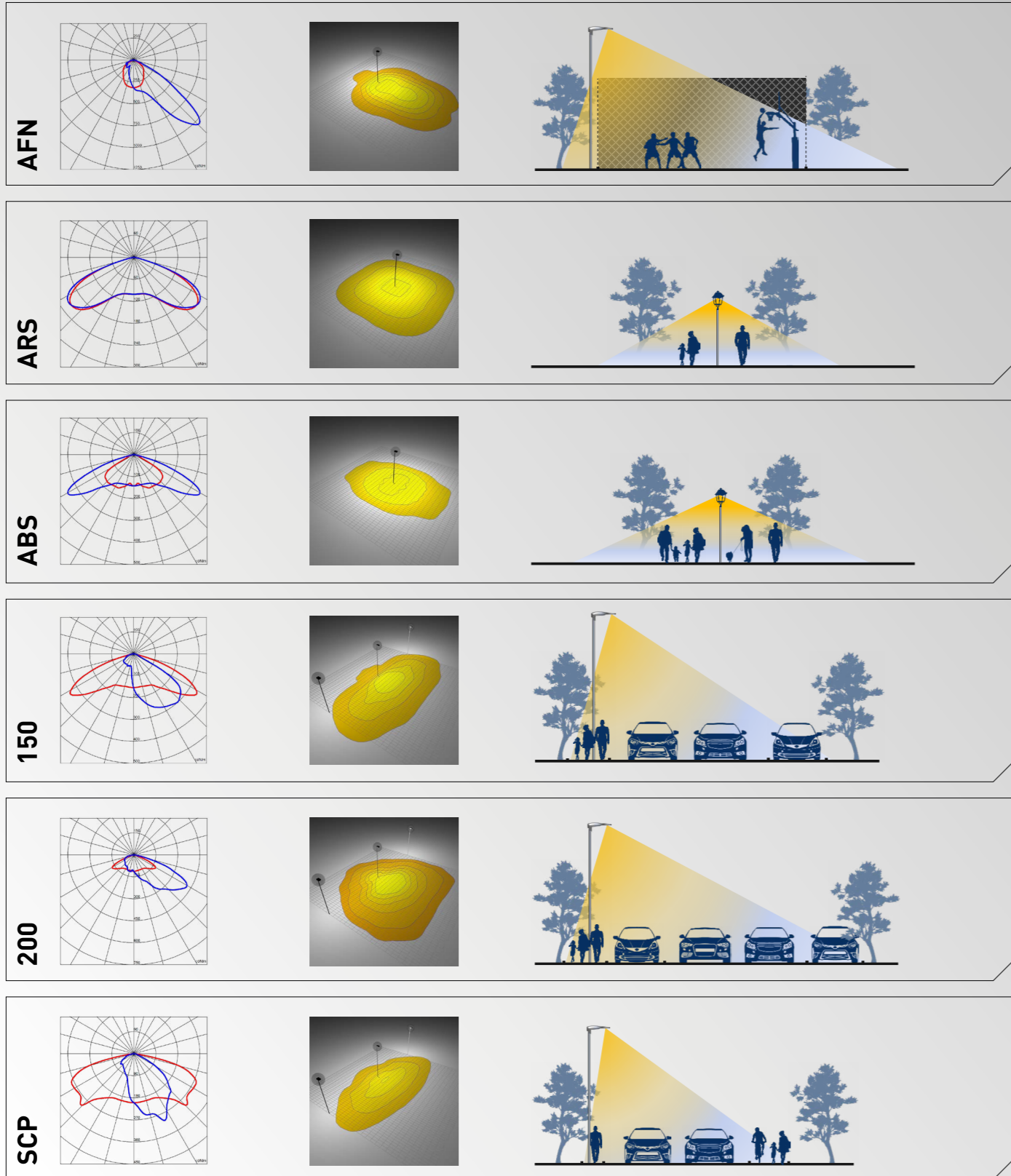
With Dot, you can now retrofit your urban installations.
Dot's lens portfolio includes dedicated solutions for urban environments making sure streets and public parking areas are properly lit.



STREET LIGHTING

C12			
K07			
K10			
K12			

AREA



[Dot.energy]

[Dot.energy Dot.multi Dot.wall]



ENQUIRY

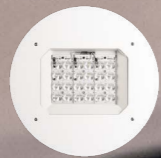
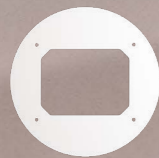
Client contacts Cree Lighting:
Sends sample of fixture needing regeneration or completes form with details of requirements.
A proposal will be shared with the client including the terms of disposal at the end of the product's life cycle.

PRODUCT DEVELOPMENT

The customised plate of the tailor-made solution is developed through the feasibility study of the sample received or through an adequate collection of information used in the process of customization.

SUPPLY

The product is supplied with a specific customised manual, ready for a simple and quick installation.



Dot.byDot.

C U S T O M I S A T I O N F L E X I B I L I T Y

Feel free to change your mind. Dot's modular nature offers you the flexibility to easily retrofit LED into existing applications. Dot. LED modules and their different mounting options are 100% interchangeable and compatible with each other. Need to switch mounting plates? No problem. Simply keep your Dot.s and order different mounting plates.



Dot.wall

Introducing Dot.wall, a modular LED luminaire designed for urban and perimeter security lighting. This innovative solution sets the standard for performance and value, delivering a logical alternative to traditional metal halide wall luminaires.

With its compact design and state-of-the-art heatsink, Dot.wall is the optimal choice for optical control that seamlessly integrates with Energy Series lighting schemes. Dot.wall is a scalable solution featuring autonomous regulation of luminous flux and consistent light output on request. With a diverse selection of lumen packages and lens options, Dot.wall is ideal for both existing retrofit projects and new installations, and provides a range of lighting options.

More than a module

Next generation modular luminaire.

.....
Dot.wall is the only Dot. available with a dedicated housing, making it a full, stand alone luminaire. Dot.wall's housing is derived from the general housing design of the ENERGY Series and forms part of the Dot. and ENERGY family.





Dot.multi

Is it possible to have more with less?

Cree Lighting's answer is Dot.multi. This new compact, modular LED luminaire offers a wide range of solutions for complementary applications: from urban tunnel and underpass lighting, to security lighting and industrial applications.

Built from premium materials, precision engineered, and with a comprehensive set of mounting systems, this small LED engine has been designed for people looking for a minimalist, no-frills lighting solution that completely meets their lighting needs.

Thanks to its compact and neutral design, it can be easily concealed into existing and new building structures: Dot.multi. Designed not to be noticed.

Get more for less

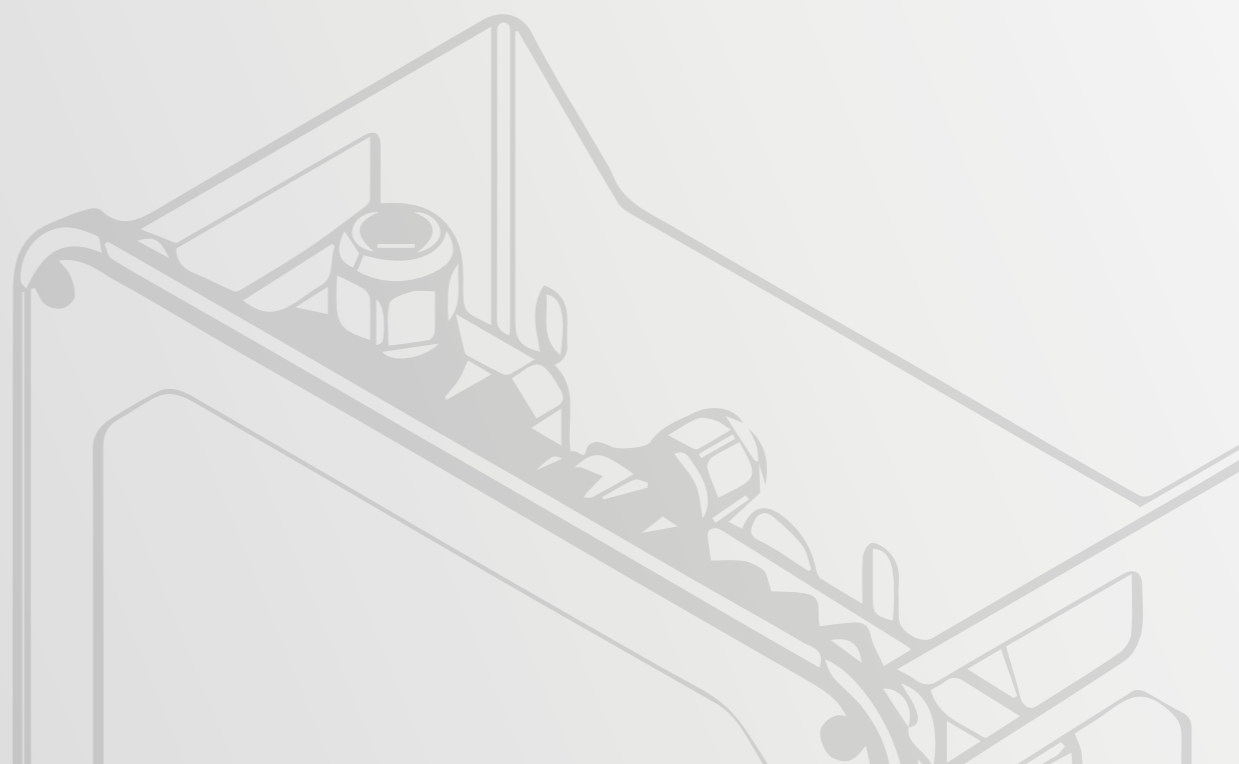
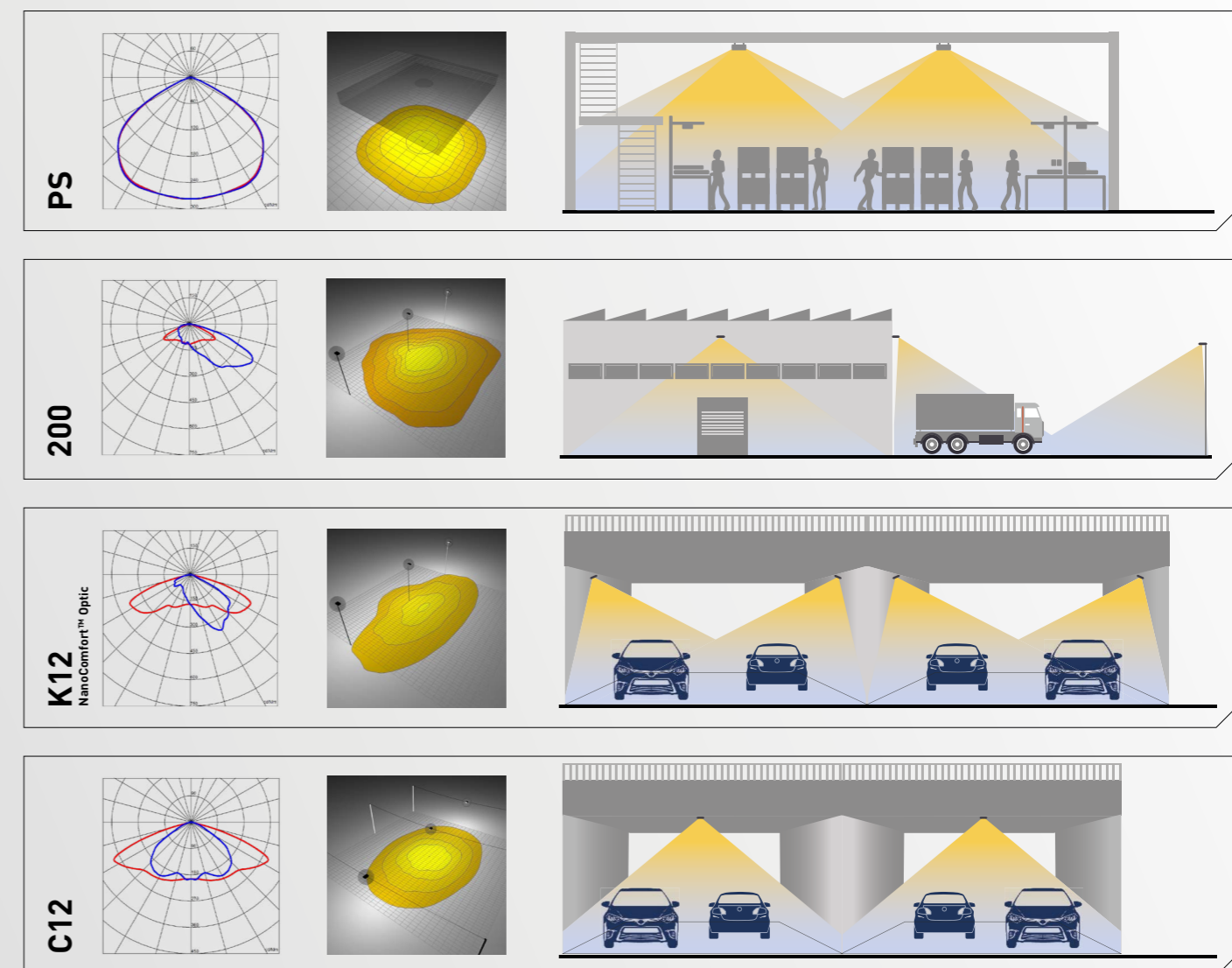
Combining safety with energy savings.

Industrial applications benefit from Dot's robust construction and a hand-picked lens portfolio delivering the right light, brightness and distribution for industrial applications.





UNDERPASSES, LOGISTICS AND MANUFACTURING





Dot.fuel

Dot.fuel, LED under canopy lighting, features an exquisite balance of price and performance with high efficiency. A flexible lighting solution that can be easily adapted for both new and retrofit applications.

Available with petrol stations - specific lumen packages and lenses, Dot.fuel can be built-in into metal ceilings as required, which results in great installation flexibility and much more: **its mounting options, make it perfect not only for petroleum but for a far greater range of covered canopy applications.**

Thanks to its compact design, low weight, and the innovative heatsink, Dot.fuel is easy to retrofit and quickly recessed from below the canopy deck without the need for fiddly adjustments.

New or old, Dot. will fill the spot

Mount Dot. in versatile canopies.

Choose from two standard canopy mounting, available as single or double, to suit both newbuilds and existing retrofit installations. Saving energy has never been so easy.



Sustainability by material reduction

Cross-portfolio upgradability

Cree Lighting products have been a popular choice for under canopy installations thanks to their efficacy and optimised light distributions. Customers with aging installations can now easily upgrade to the new Dot., bringing older installations back to peak performance and doing so in a sustainable way.

With Dot., existing luminaires are replaced with modular LED engines and mounting plates rather than entire luminaires. This allows for a significant reduction in material, ultimately resulting in less use of virgin materials.

304



Product weight: 7,4kg



CPY



Product weight: 5,7kg



Dot.fuel



Product weight: 2,3kg



Retrofitting 304 and CPY installations

Dot. by Dot.

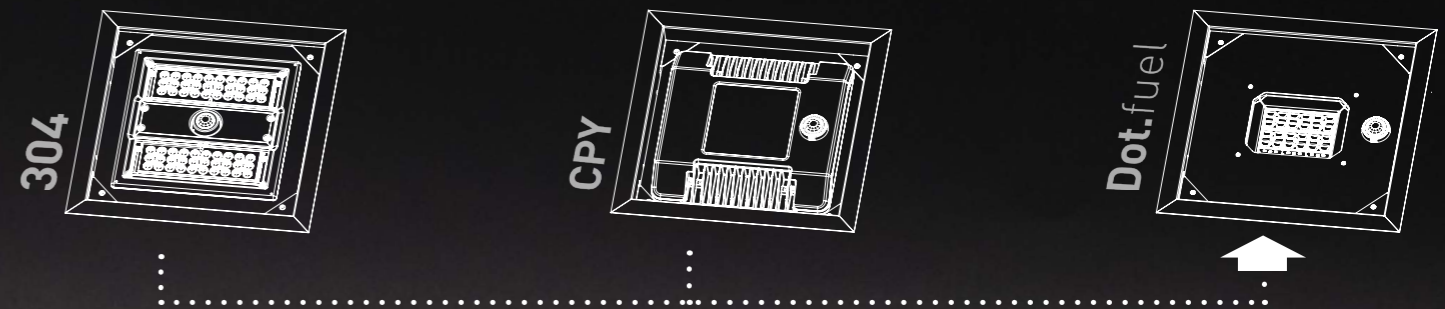
1. Remove luminaire from its RTF-RCS mounting kit.



2. Mount Dot.fuel into the existing RTF-RCS mounting kit



3. Done. You have saved up to 68% of material and your installation is running at peak performance.

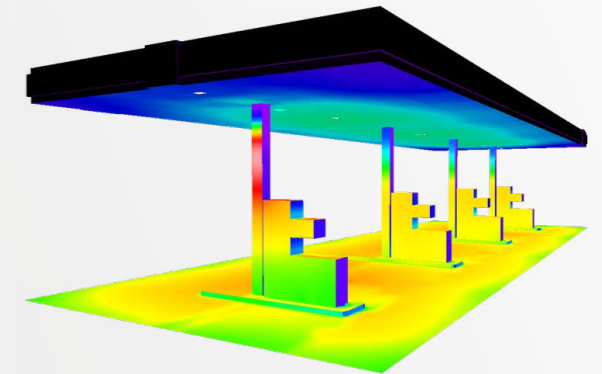
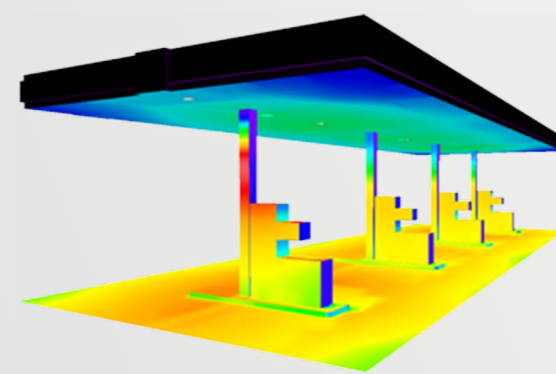




Safety is key in petrol applications

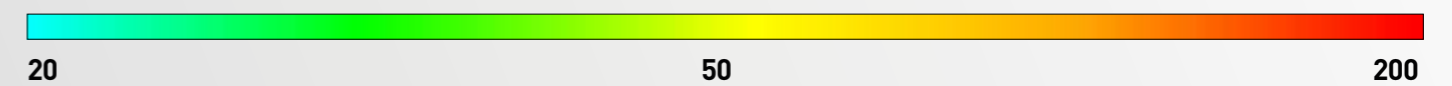
With cars and people moving around petrol applications, safety is key. Dot. delivers the desired brightness and light coverage through its dedicated petrol lenses, making sure customers can pass through petrol stations safely, displays are clearly visible and the all important energy saving needs are met.

EFFICIENT ILLUMINATION

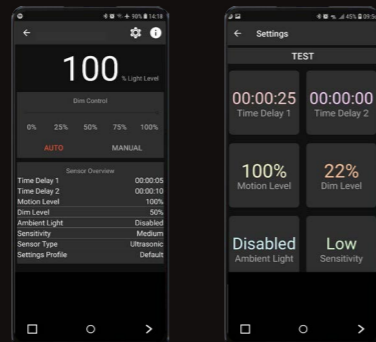


Dot.fuel | Ottica PS | 200lux at 1.65W/m²

Dot.fuel | Ottiche PS + PA | 200lux at 1.5W/m²



Easy programming via smartphone app



Optimised sensor for fuel applications

Introducing our latest innovation in smart sensors - a completely programmable presence and ambient light detector that uses Bluetooth technology and comes with a dedicated user-friendly app.

Designed to optimise lighting efficiency for fuel station canopies, this sensor ensures an appropriate level of light to make your station visible from a distance, even when there are no customers around. And when cars approach the station, the sensor is programmed to maximise light output, providing a safe and bright environment for customers to refuel.

With the ability to create custom dimming profiles through the app, this sensor can be tailored to meet your specific needs. Adjust parameters such as Time Delay, Motion Level, High and Low Modality dimming levels, and Ambient Light and Sensitivity to ensure optimal lighting conditions at all times.

Experience the power of cutting-edge sensor technology with our customisable and efficient smart sensor.



H max.	5,5m
D max.	18,2m

Programmable smart sensor For optimal lighting efficiency

- PIR Motion Detector Architecture and Quad Element passive infrared (PIR) technology for improved detection coverage for ceiling mount.
- Operating Ambient condition: -30° to 70°C and relative humidity from 90 to 95%
- Installation range 2,4÷9,1 m
- Detection Area^[1] up to: 24 m diameter
- Max bluetooth range^[2] up to: 20 m
- Default Setting: High mode 100% Low mode 25%, Ambient light disabled, time delay to low mode to off disabled
- Programming Bluetooth: Android or iOS applications allow initial setup and subsequent sensor adjustments, beyond what the analog controls on the sensor can offer.

Key features

- The mobile application enables adjustment of sensor parameters such as time delay, dim level, sensitivity, daylight detection, and more. Additionally, features such as parameter profiles, manual dim control, and real-time feedback from the sensor can speed up configuration and provide custom user control.

Refer to Instruction Manual for further details.

Additional 70% energy saving potential

No system commissioning fee

Ideal for retrofit solutions

¹ The detection area changes depending on the installation height; when installed at a height of 4,5 meters, the detection area corresponds to a 15-meter diameter.
² Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy

ORDERING INFORMATION



Dot.energy
KT Eco | Plus
+ Standard Square Plate
330x330 mm



Dot.energy
KT Eco | Plus
+ Standard Round Plate
ø330 mm



Dot.wall
KT Eco
+ Wall mounting



Dot.multi
KT Eco | Plus
+ Kit C adjustable
bracket



Dot.multi
KT Eco
+ Kit Multi Bracket



Dot.fuel
KT Eco | Plus
+ Mounting Kit for New
Installation

Eg: KTEA-S-K07-4L-407-+-A-WH-S-S-S-01+S13DSF0-FX001

KTEA	- S	- K07	- 4L	- 407	- +	- A	- WH	- S	- S	- S	- 01
Product	Mounting	Optic	Lumen Package	CCT	Insulation Class	Voltage	Finish	Options	Variant	Protection	Cable length
KTEA ECO Version A	S No-mount	K07 NanoComfort Narrow Street	4L	228** 2700K CRI80	+ Class 1	A 220-240V	WH White	S*** Standard program	S No socket / No Sensor	S By driver	01 Exit Cable 0,5 m
		K10 NanoComfort Medium Street	8L	278** 2700K CRI80	^ Class 2			C** Custom program			
		K12 NanoComfort Broad Street	12L*	307** 3000K CRI70							
		150 Wide Street 1.50 (T3S)		308 3000K CRI80							
		200 Extra Wide Street 2.00 (T4S)		407 4000K CRI70							
		SCP Street & Cycle Path class P(T2S)									
KTPA PLUS Version A	S No-mount	C12 125 Center Road (T2S)	4L					S*** Standard program	S No socket / No sensor	S By - driver	
		ABS 150 Bi-Symmetric Area(T4S)	8L					C** Custom program	Z Zhaga D4i Driver	U 10kV	
		ARS RotoSymmetric Area (T5S)	12L					DL DALI		SF Fuse	
	P No-Mount with IP66 BOX	AFN Area Flood Narrow								UF Fuse + 10kV	
		PA Petroleum Asymmetric									
		PS Petroleum Symmetric									
60 60 Flood											

*Class I only **On Request ***Choose program from standard listed

ORDERING INFORMATION



Dot.fuel
KT Eco | Plus
+ Refitting Petrol Plate
450x450 mm



Dot.fuel
KT Eco | Plus
+ Refitting Petrol Plate
600x600 mm



Dot.fuel
KTFA 45
Single module



Dot.fuel
KTFA 45
Double module



Dot.fuel
KTFA 44*
Single module



Dot.fuel
KTFA 44*
Double module

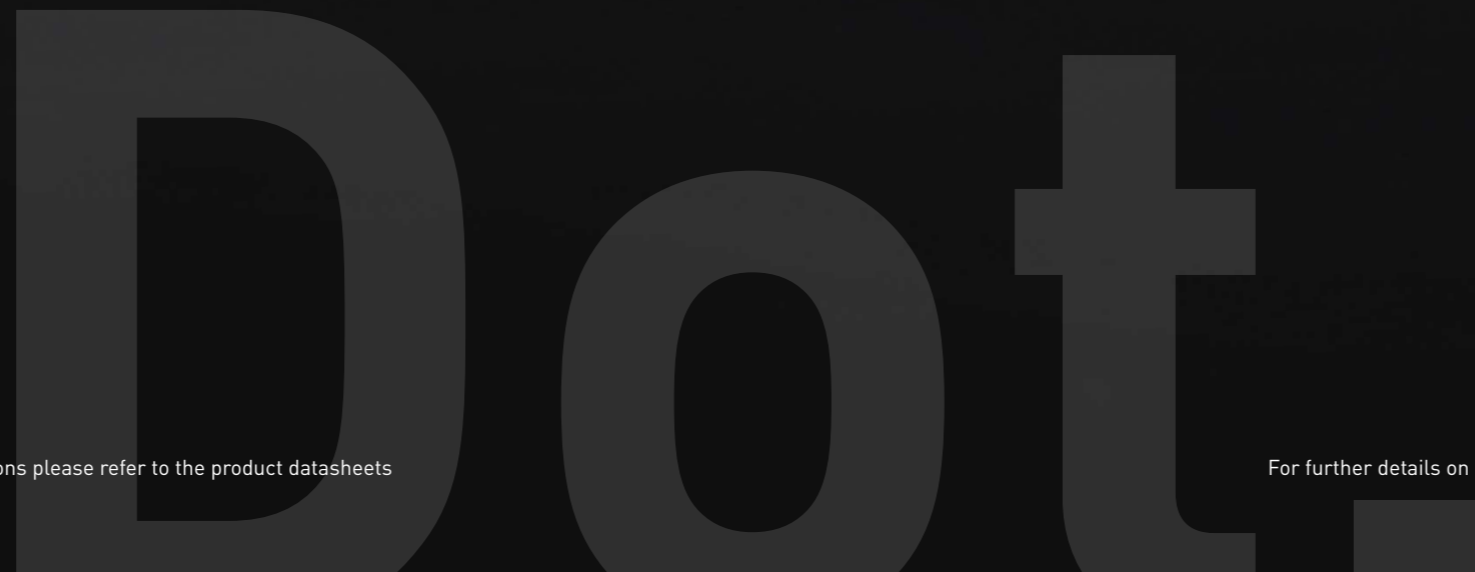


*To be ordered separately
for 304 and CPY retrofiting

Eg: KTFA-45-PA-12L-407-+-A-WH-DIM-S-S-01

KTFA	- 45	- PA	- 12L	- 407	- +	- A	- WH	- DIM	- S	- S	- 01
Product	Mounting	Optic	Lumen Package	CCT	Insulation Class	Voltage	Finish	Options	Variant	Protection	Cable length
KTFA Dot Fuel Version A	45 Standard plate new & retrofit	PA Petroleum Asymmetric	12L Single Module	407 4000K CRI70	+ Class 1	A 220-240V	WH White	DIM** Standard Program Dim 0-10V	S No socket / No sensor	S by driver 10kV CM	01 Exit Cable 0,5 m
		PS Petroleum Symmetric	22L Double Module	507 5700K CRI70					M Ambient / Motion Sensor		
		60 60 Flood									

**Choose program from standard listed





Dot.

ONE DESIGN
ENDLESS APPLICATIONS

CREE  LIGHTING

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