

Dot.

ONE DESIGN
ENDLESS APPLICATIONS



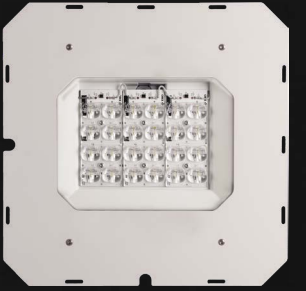
CREE  **LIGHTING**



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



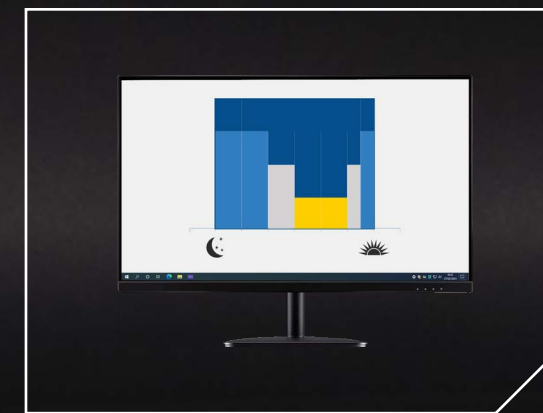
Increase distances between luminaires with symmetric and asymmetric optics including Nanocomfort proprietary optics, optimised for urban, industrial and petrol applications

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***

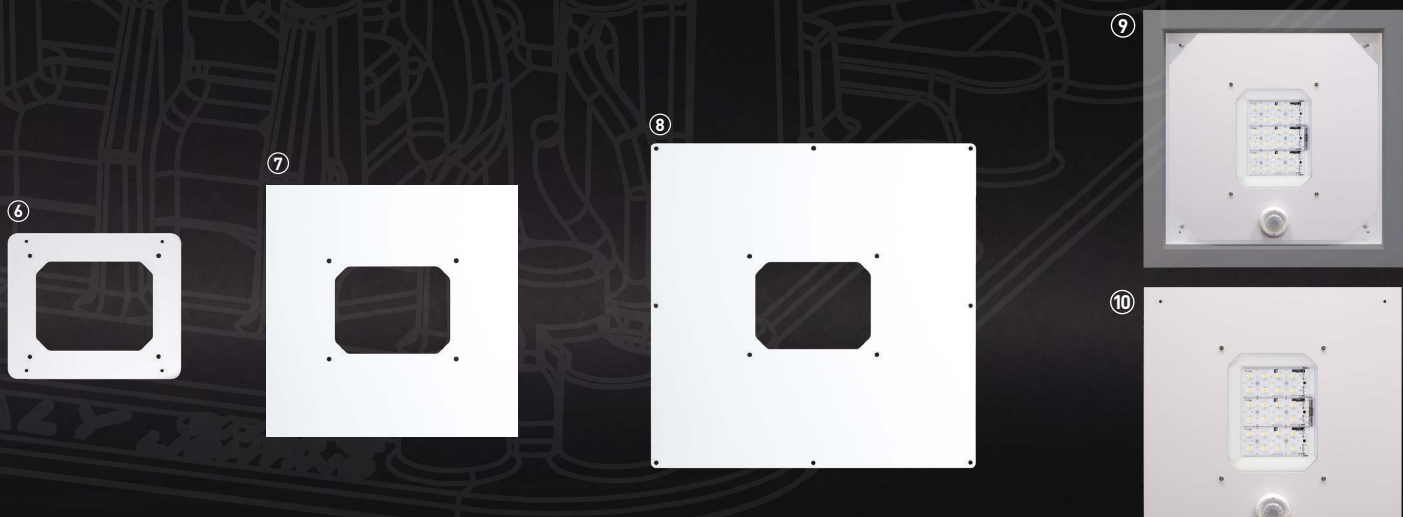
3

Choose your mounting

① ② ③ ④ ⑤



⑥ ⑦ ⑧ ⑨ ⑩



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**

Dot.

ONE DESIGN
ENDLESS APPLICATIONS

Unique IK09 impact resistance

Recessed lens module

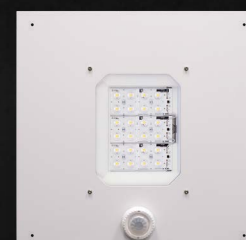
Up to 170 Lm/W

Optical Compartment IP66

Lumen output up to 12,000 lm per module

Driver NFC IP67*

Compact, material-reducing heatsink



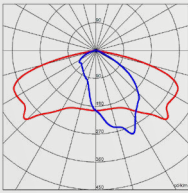
HIGH PERFORMANCE LENS OPTICS

Making Dot. effective for every application

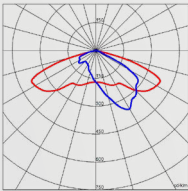
Dot.'s lens portfolio is as diverse as the applications it serves. The high performance lens optics ensure efficient illumination whilst maintaining visual comfort.

OPTICS SELECTION

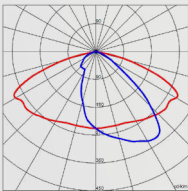
Dot.'s selection of lenses includes optimised solutions for urban, industrial and petrol applications. Whether Dot. is lighting a road, parking areas or underpasses, Dot. has the perfect lens in its optics toolkit.



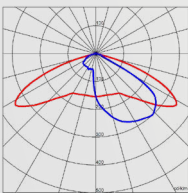
K07 - Narrow Street
NanoComfort™ Optic



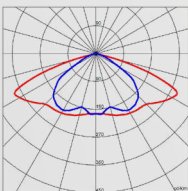
K12 - Broad Street
NanoComfort™ Optic



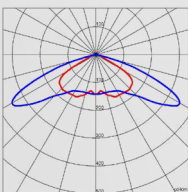
100 - Type II Short



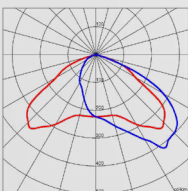
150 - Type III Short



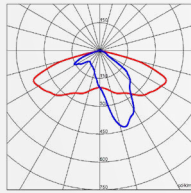
C12 - Type II Short



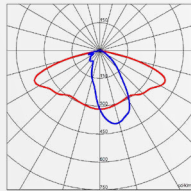
ABS - Type IV Short



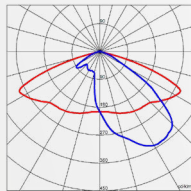
PA - Petrol Symmetric



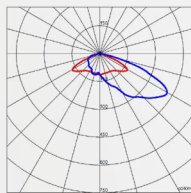
K10 - Medium Street
NanoComfort™ Optic



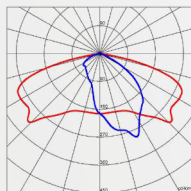
075 - Type II Short



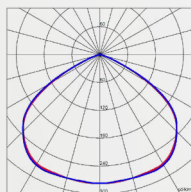
125 - Type II Short



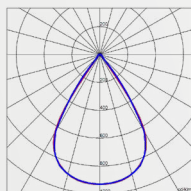
200 - Type IV Short



SCP - Type II Short



PS - Petrol Symmetric



60 - Flood 60°

20
YEAR
WARRANTY

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.

Available with 20-year warranty

Our modular approach has allowed Cree Lighting to introduce a 20-year warranty for luminaire families like Dot.

Applications can be easily refurbished and components restored or replaced rather than replacing the entire product.

Very importantly, materials may be recycled appropriately at the end of their life.

Why choose a 20-year warranty?

Protection from adverse market events

Rising material prices



Increasing shipping costs



Long component lead times



Smooth operation of installations

Preserve your lighting layout and save valuable time by not re-tendering



Keep your lights on by quickly replacing components



Repair faulty products



Achieve sustainability goals

Reduce the use of virgin materials through upgrade and maintenance



Reduce emissions by shipping components instead of products



Become part of a circular economy model



Schedule full refurbishments with the "Care & Protect" package

For more information about the 20-year warranty, visit creelighting-europe.com



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





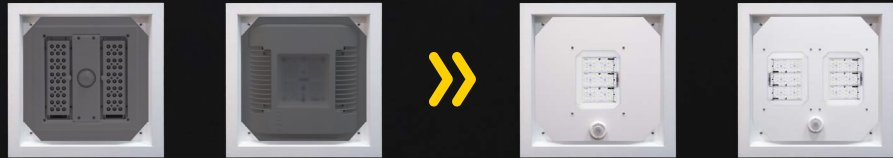
Retrofitting 304 and CPY installations

Dot. by Dot.

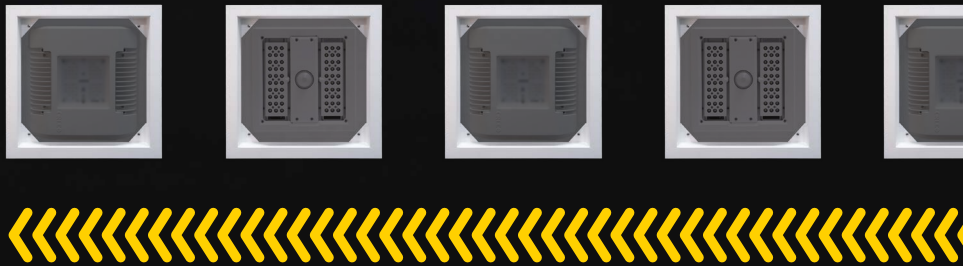
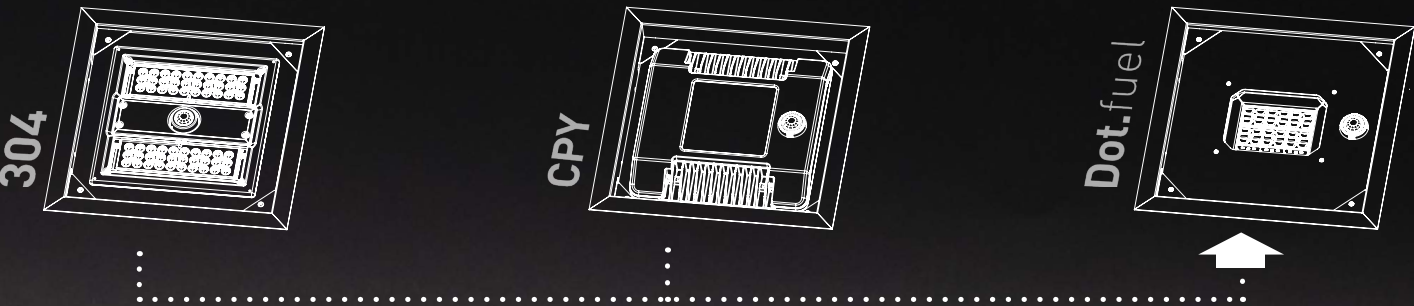
1. Remove luminaire from its RTF-RCS mounting kit.



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



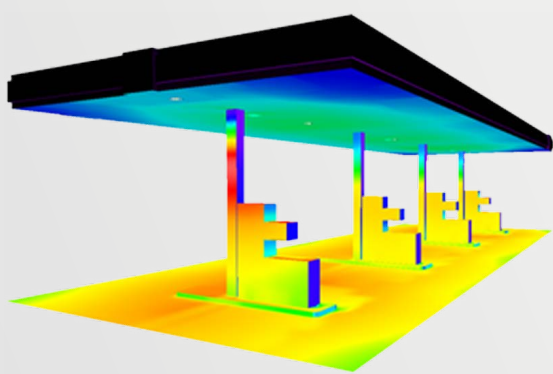
3. Done. You have saved up to 68% of material and your installation is running at peak performance.



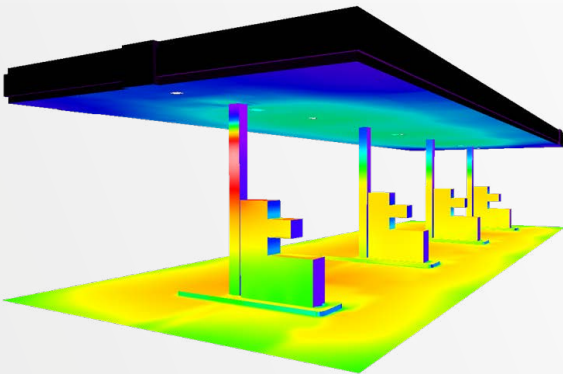
Safety is key in petrol applications

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.

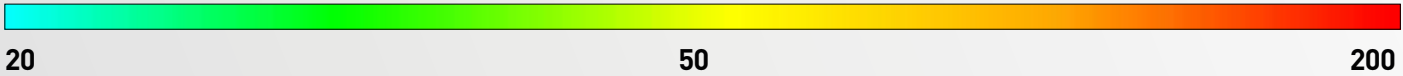
EFFICIENT ILLUMINATION



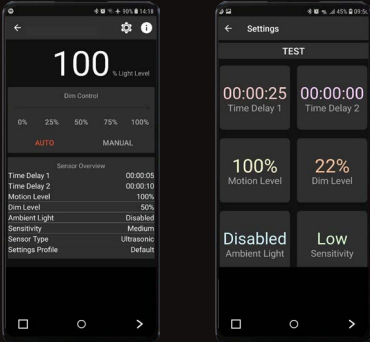
Dot.fuel | Ottica PS | 200lux at 1.65W/m²



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



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: 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** 2200K CRI80		+ Class 1 ^ Class 2		A 220-240V		WH White		S *** Standard program C** Custom program		S No socket / No Sensor		S By driver		01 Exit Cable 0,5 m			
				K10 NanoComfort Medium Street		8L		278** 2700K CRI80																	
				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																	
KTPA PLUS Version A	S	No-mount		SCP Street & Cycle Path class P(T2S)		4L										S *** Standard program C** Custom program DL DALI		S No socket / No sensor Z Zhaga D4i Driver		S By - driver U 10kV SF Fuse UF Fuse + 10kV					
				C12 125 Center Road (T2S)																			8L		
				ABS 150 Bi-Symmetric Area(T4S)																			12L		
				ARS RotoSymmetric Area (T5S)																					
				AFN Area Flood Narrow																					
	P	No-Mount with IP66 BOX		PA Petroleum Asymmetric																					
				PS Petroleum Symmetric																					
				60 60 Flood																					

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

ORDERING INFORMATION



Dot.fuel
KTFA 45
Single module



Dot.fuel
KTFA 45
Double module



Dot.fuel
KTFA 44*
Single module



Dot.fuel
KTFA 44*
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-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														
				60 60 Flood																		

**Choose program from standard listed



Dot.

ONE DESIGN
ENDLESS APPLICATIONS

CREE  **LIGHTING**

For more information visit www.creelighting-europe.com or contact the Customer Service.

sales.europe@creelighting.com | +39 055 343081

© 2023 Cree Lighting Europe S.p.A. a Company of ENERGY EFFICIENT LIGHTING GROUP. All rights reserved.
For informational purposes only.
Content is subject to change. Cree® and Cree Lighting logo are registered trademarks of SMART Global Holdings, Inc