

espica ✦

STREET LIGHTING

THE COMPLETE BROCHURE

Street lighting plays a fundamental role in shaping modern urban life. More than just a source of illumination, it is a cornerstone of public safety, energy efficiency, and urban aesthetics. Well-designed street lighting reduces accidents, enhances security, supports economic activity, and contributes to the overall quality of life in both residential and commercial areas.

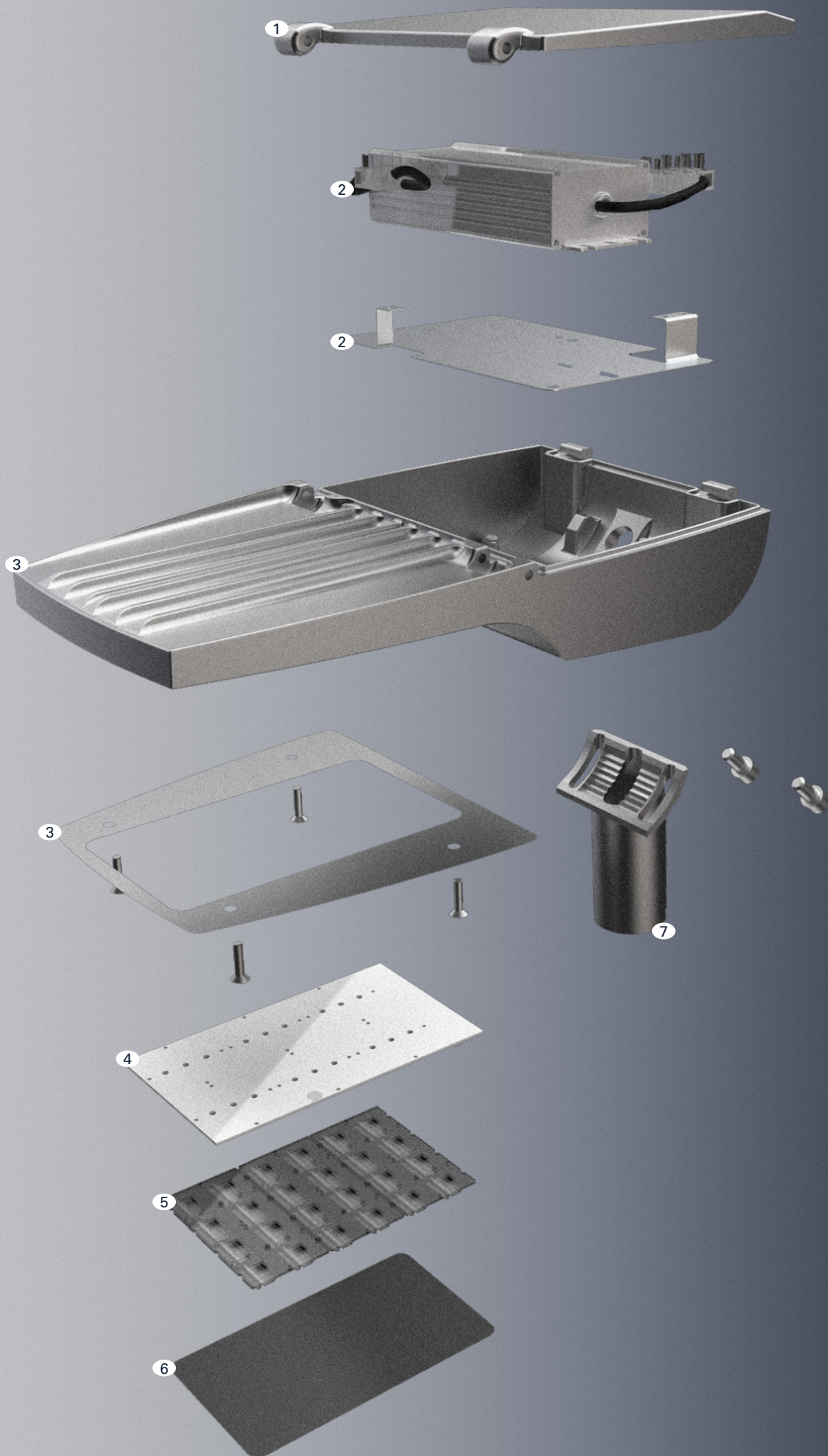
As cities in the UAE rapidly grow into global smart city models, the need for advanced, sustainable, and aesthetically integrated lighting systems becomes more urgent.

Espica's mission is to meet that demand with cutting-edge solutions that merge design, functionality, and technology. We believe that good street lighting is not only about visibility—it's about creating vibrant, welcoming, and sustainable environments.

From motorways and residential streets to parks and promenades, our street lighting systems are engineered with a deep understanding of local urban challenges and climate conditions. We integrate intelligent lighting controls, durable materials, and energy-saving technologies to deliver performance and reliability across diverse public spaces.







① LID

Carina's lid, made entirely like the rest of the body of die-cast aluminum and powder-coated, is easily and simply removed by self-locking springs. When the product is closed, high levels of IP protection are guaranteed along with a waterproofing system and strong corrosion resistance.

② DRIVER and PLATE

Carina's driver is integrated into the product and is intended to be already driven at the factory according to the electrical values consistent with the chosen code. Thanks to a handy plate inserted inside the pole head, the driver is installed and secured to the body of the product, safeguarding it from shocks.

③ BODY

Carina's product body is made of die-cast aluminum, an ideal material to promote heat dissipation. It can be painted in 4 different finishes with electrostatic powder paint inside our laboratories.

④ LED

LED plates designed exclusively for our products, designed to last a long time and equipped with high-quality chips, resistant to all temperatures. High Module is the last generation of the Espica led modules based on High-power LEDs to provide the technical requirements of road and urban applications with high efficiency. Mid Module has been designed for those looking for a mid-power LED to have a more economical alternative with the same luminaire footprint.

⑤ LENS MODULES

Our plastic diffusers are designed to last a long time in outdoor environments. Specially designed for all street lighting conditions, the lenses mounted on Carina grants ensure even beam distribution, visual comfort and color stability.

⑥ SCREEN

Made of tempered glass, Carina's screen has a dual function: on the one hand it protects all components and the optical part from unwanted shocks and weathering, and on the other hand it does not hinder the precise emission of the light beam in any way.

⑦ PIPE HOLDER

Integrated within the pipe holder is the mechanical tilting system that allows the product to be oriented once it is installed. This is a key operation to ensure lighting versatility and adherence to different characteristics of the project context.



WATER RESISTANT

Built to endure. Carina boasts full IP66 protection: zero ingress, no compromises. Driving rain, sand, salt, or extreme humidity - nothing penetrates its seal. Engineered for the

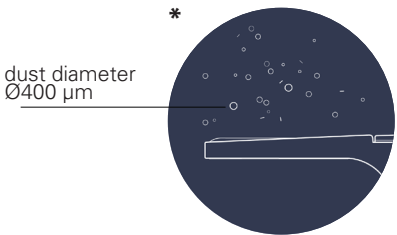
harsh climate of the Emirates, it delivers consistent performance and total protection in all weather conditions. Certified reliability, lasting defense.

IP66

PROTECTED FROM
SOLID AND WATER
INGRESSION

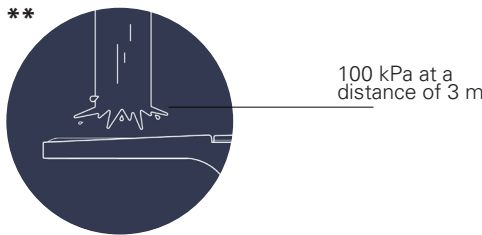
DUST TIGHT

not even a particle of dust*
penetrates its interiors



HIGH PRESSURE WATER JET TIGHT

remains water proof even
during a water storm**





IK RESISTANT

Built to withstand, engineered to endure: our streetlight features IK09 impact resistance - the highest standard for urban applications. It stands up to heavy impacts, vibrations, and extreme

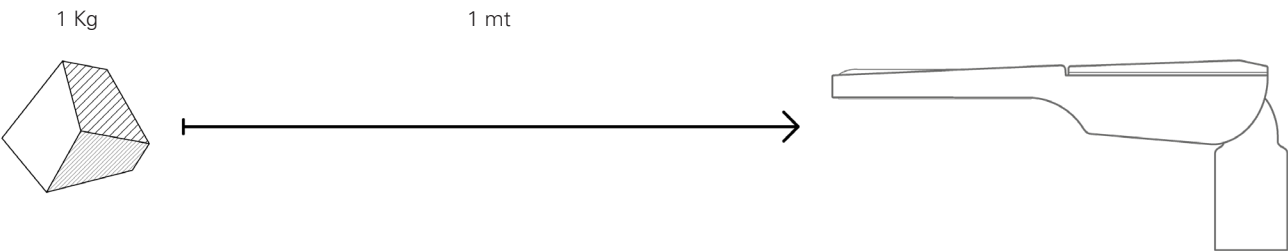
environmental conditions. Perfect for high-exposure, high-traffic public areas. No compromises on durability: safety and uninterrupted operation, even in the toughest scenarios. Reliable performance, zero downtime.

IK09

ALWAYS ABLE TO
WITHSTAND SHOCK
AND BLOWS

SOLID AND DURABLE

not even a 1 kg stone swept
by desert winds from a meter
away can destroy it



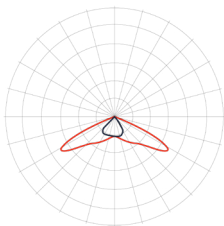


LENSES QUALITY

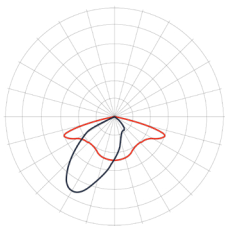
Our lenses are the culmination of constant research and innovation. The optics we mount on Carina are laser machined and equipped with internal microstructures that are capable of bouncing light without

any loss of quality. The result? An optimally distributed, precise and extremely efficient light beam.

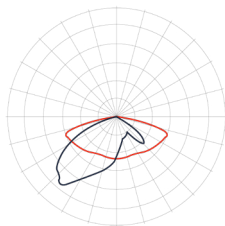
STREET TYPE I



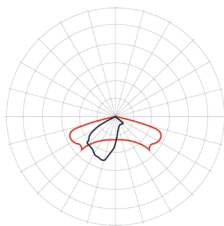
STREET TYPE II



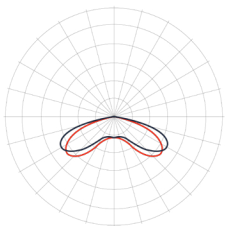
STREET TYPE III



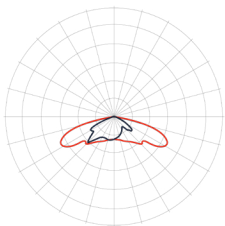
STREET TYPE II III



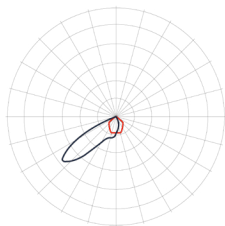
STREET TYPE VS

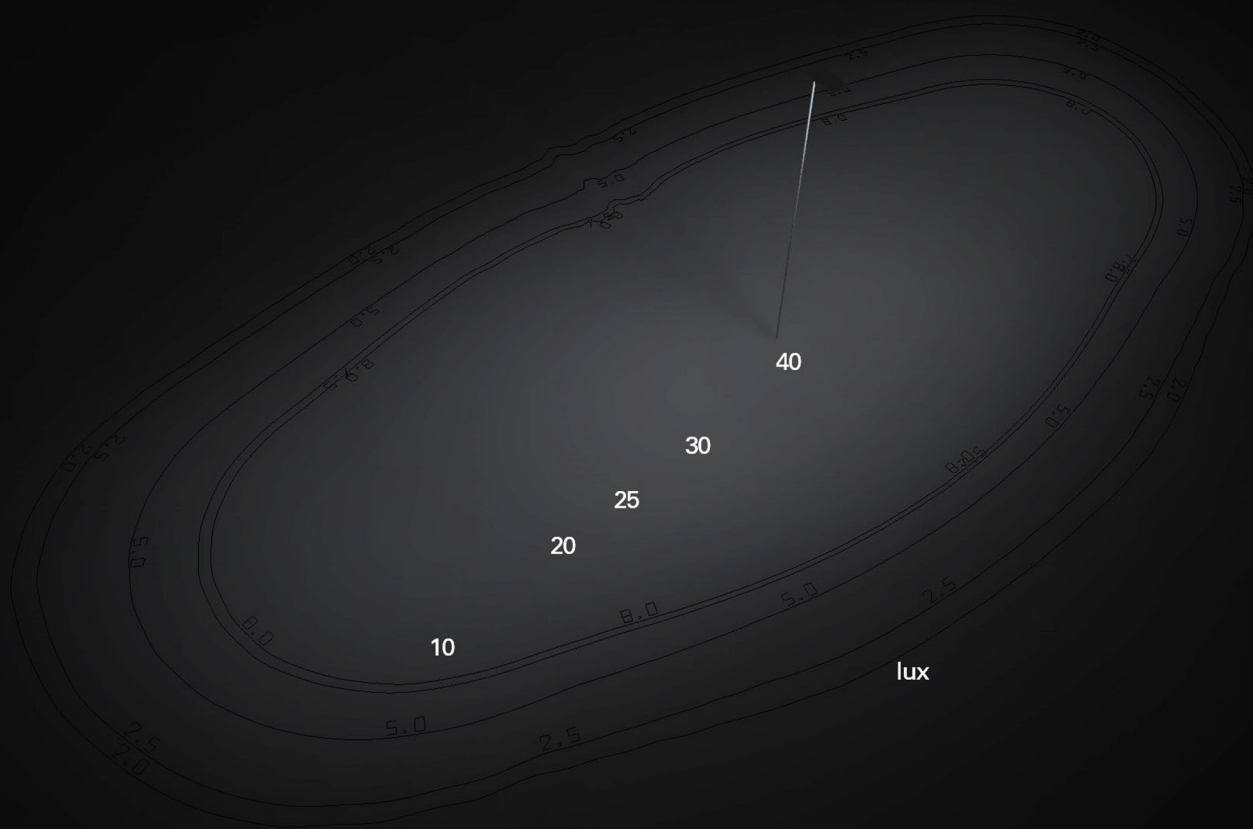


PARKS AND WIDE AREAS



ASYMMETRIC



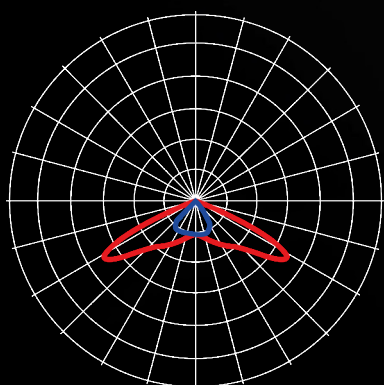


Simulation mounting height 7 m

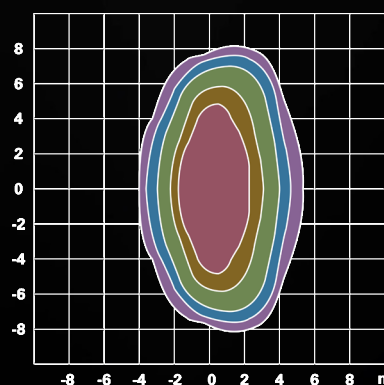
TYPE I

This type of lighting is meant to be placed near the center of the pathway. This provides adequate lighting for smaller pathways. The two principal light concentrations are in opposite directions along a

roadway. And this type is generally applicable to a luminaire location near the center of a roadway where the mounting height is approximately equal to the roadway width.



C0 / C180
C90 / C270



50.0 %	81.9 lx
30.0 %	49.1 lx
10.0 %	16.4 lx
5.0 %	8.2 lx
3.0 %	4.9 lx

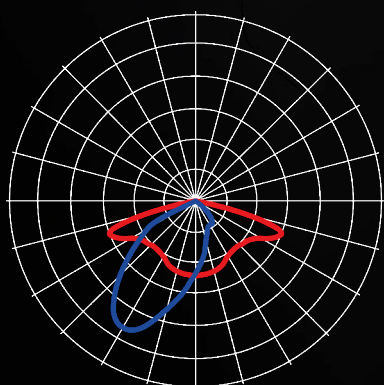
Peak illuminance: 163.8 lx
Mounting height: 3.0 m
Number of c-planes: 72



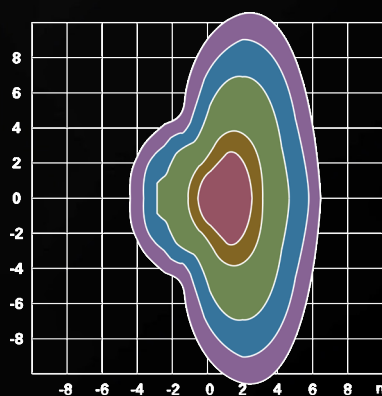
TYPE II

This type is meant for lighting larger areas and usually is located near the roadside. Type II light distributions have a preferred lateral width of 25 degrees. They are generally applicable to luminaires located at

or near the side of relatively narrow roadways, where the width of the roadway does not exceed 1.75 times the designed mounting height.

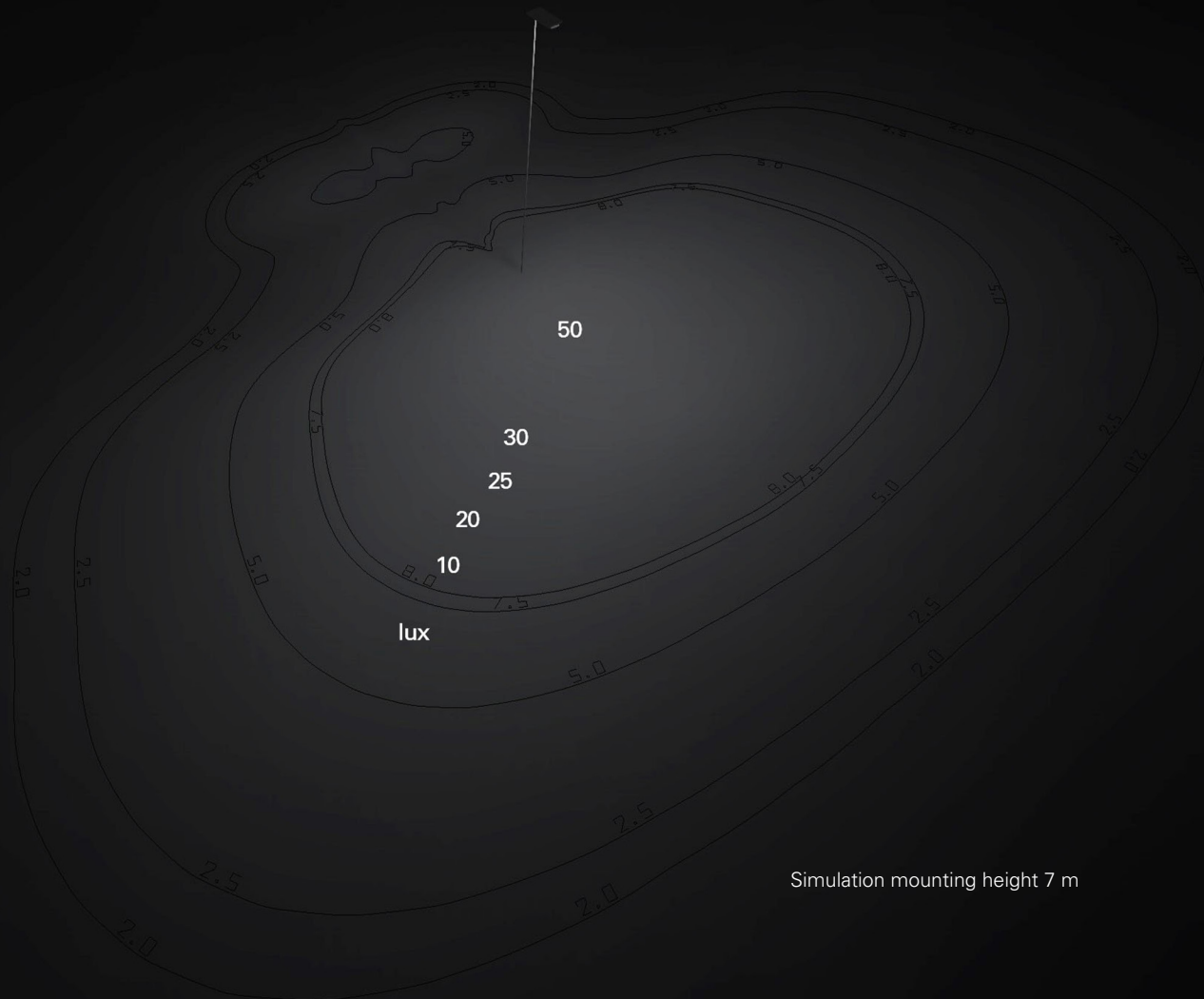


C0 / C180
C90 / C270



50.0 %	61.3 lx
30.0 %	36.8 lx
10.0 %	12.3 lx
5.0 %	6.1 lx
3.0 %	3.7 lx

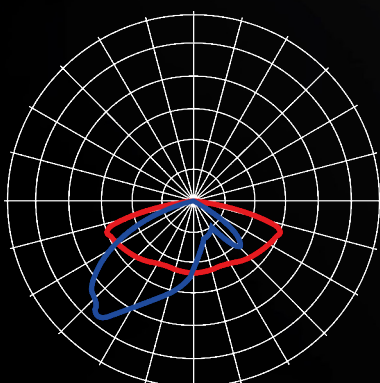
Peak illuminance: 122.7 lx
Mounting height: 3.0 m
Number of c-planes: 72



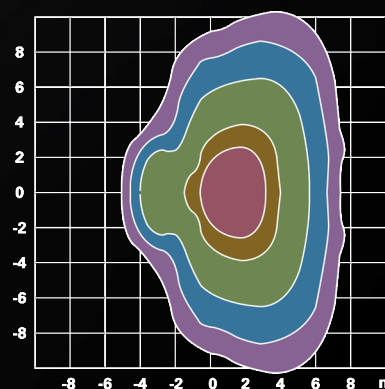
TYPE III

This type of lighting needs to be placed to the side of the area, allowing the light to project outward and fill the area. Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended

for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.

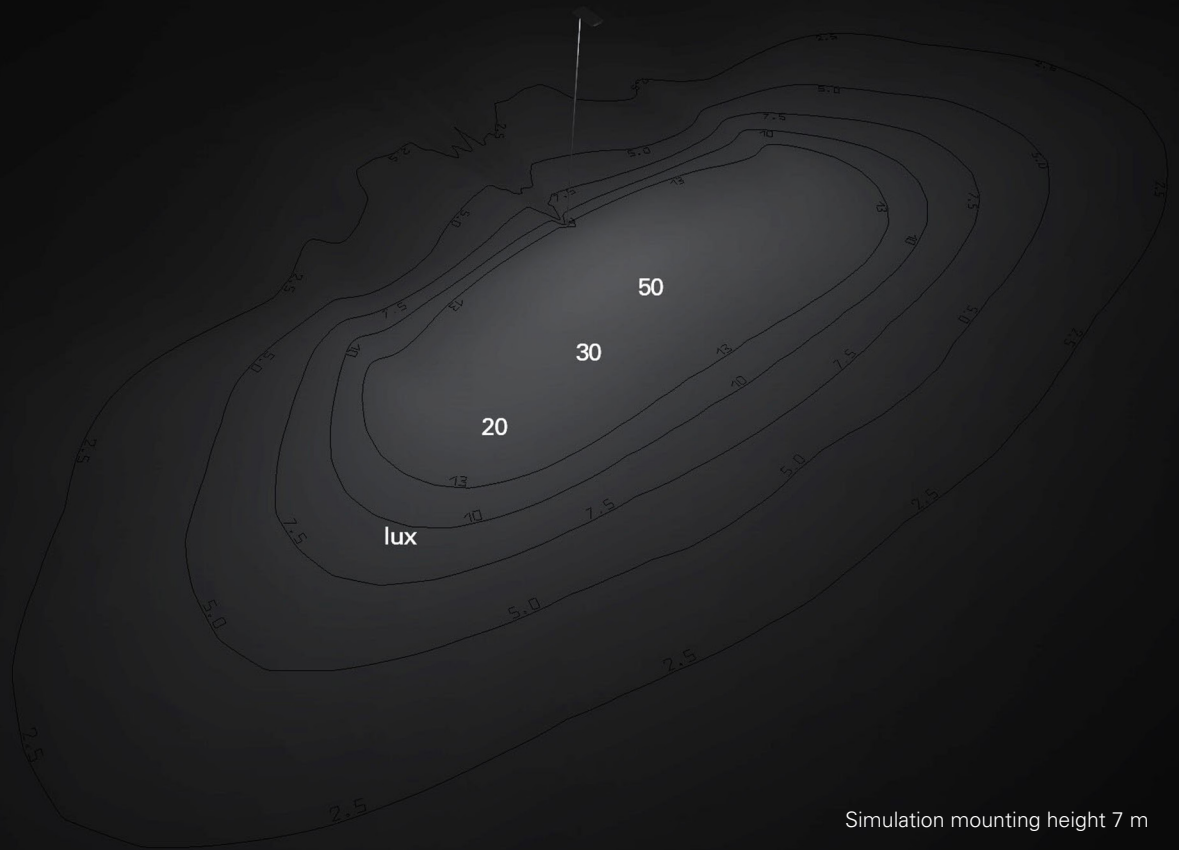


C0 / C180
C90 / C270



50.0 %	81.9 lx
30.0 %	49.1 lx
10.0 %	16.4 lx
5.0 %	8.2 lx
3.0 %	4.9 lx

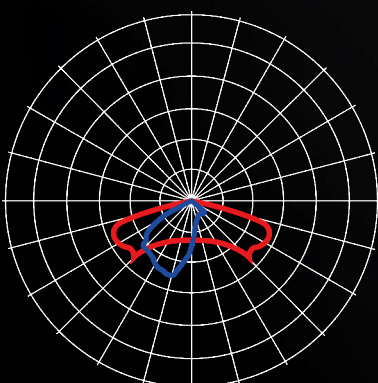
Peak illuminance: 91.3 lx
Mounting height: 3.0 m
Number of c-planes: 72



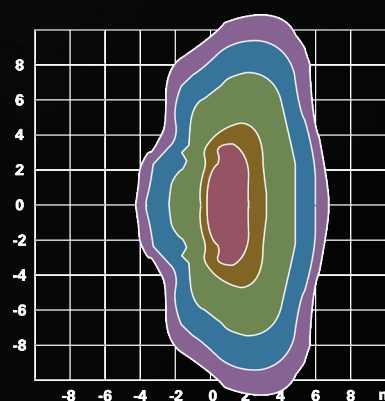
TYPE II III

This beam type is a hybrid between the Street Type II and Street Type III versions.

It is configured as ideal for placement along roadsides.

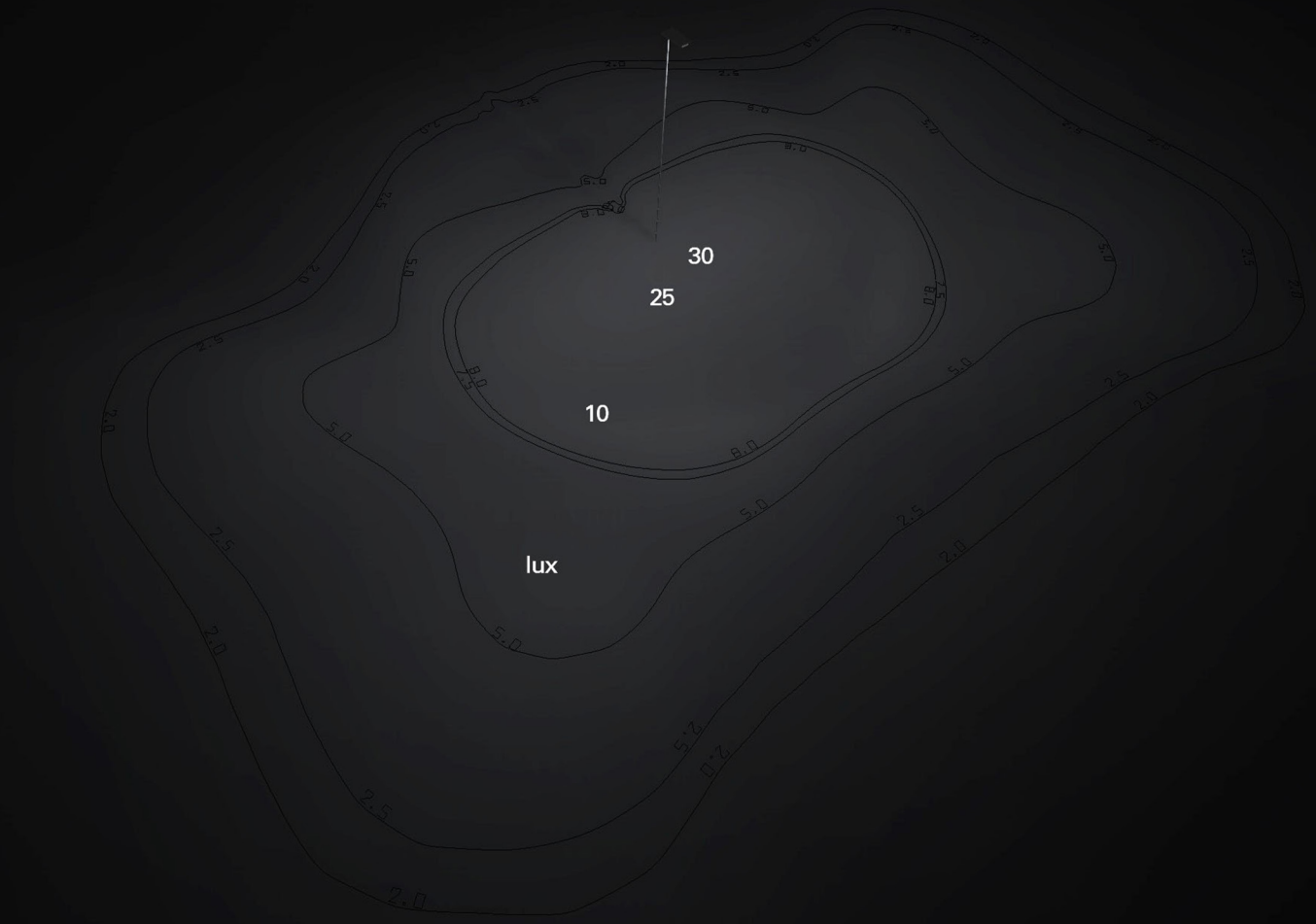


C0 / C180
C90 / C 270



50.0 %	98.3 lx
30.0 %	59.0 lx
10.0 %	19.7 lx
5.0 %	9.8 lx
3.0 %	5.9 lx

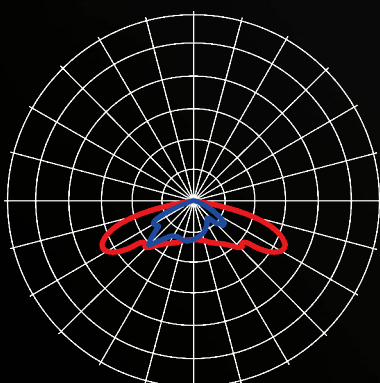
Peak illuminance: 196.7 lx
Mounting height: 3.0 m
Number of c-planes: 72



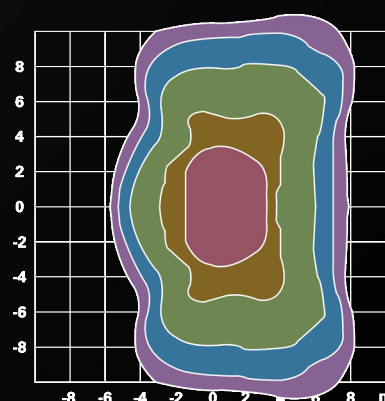
TYPE PARKS AND WIDE AREAS

Extra wide for wide area security lighting. The very open beam and the special distribution of the light that goes deep into and projects an almost rectangular silhouette are essential to ensure an even

light distribution. Ideal for large areas such as yards or parking lots.

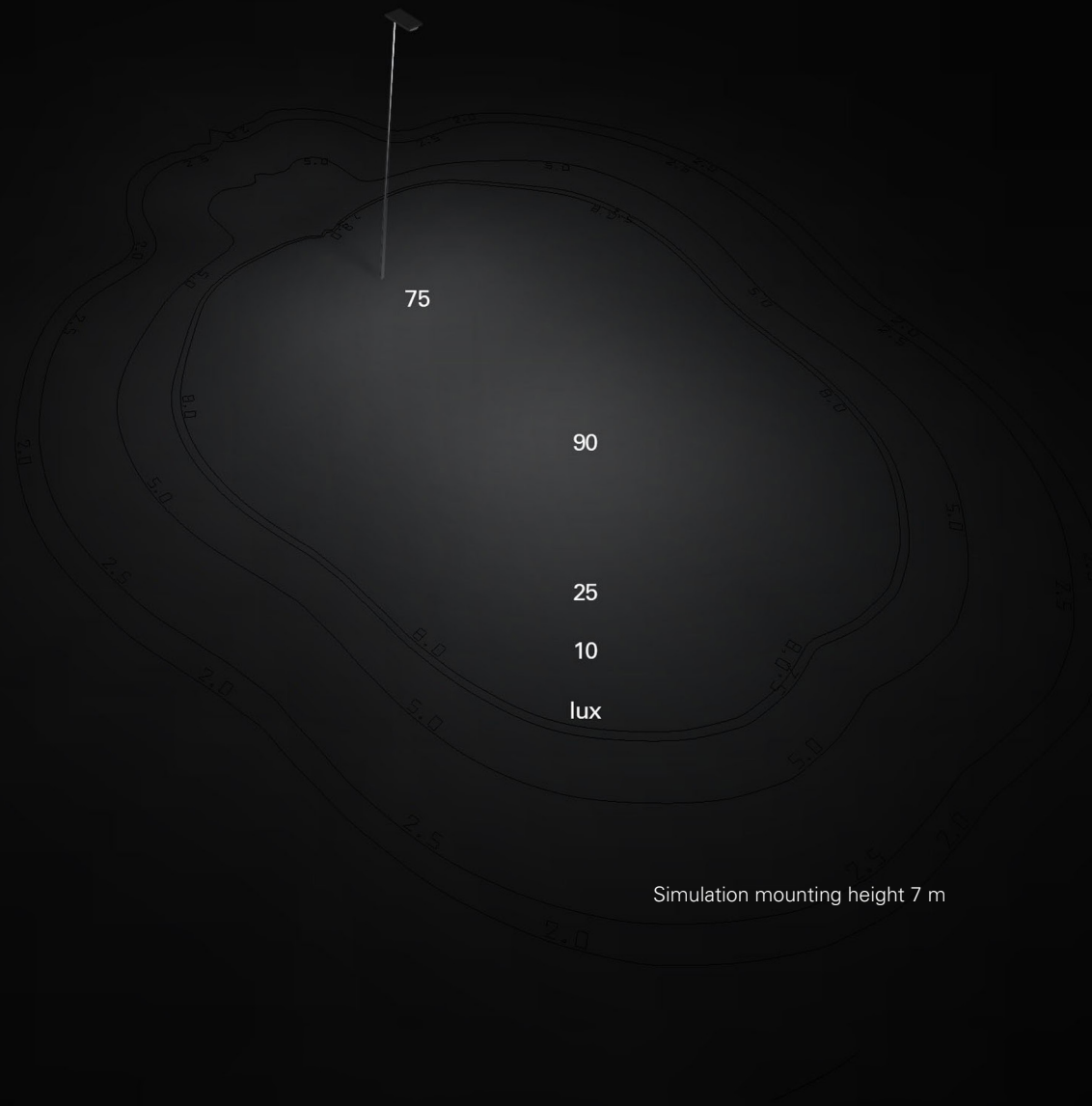


C0 / C180
C90 / C 270



50.0 %	33.6 lx
30.0 %	20.2 lx
10.0 %	6.7 lx
5.0 %	3.4 lx
3.0 %	2.0 lx

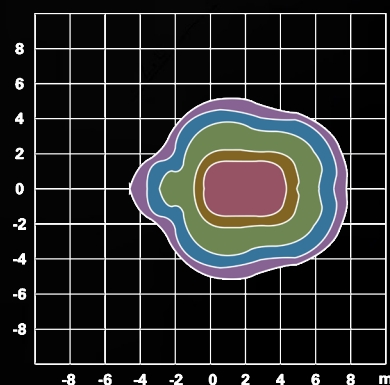
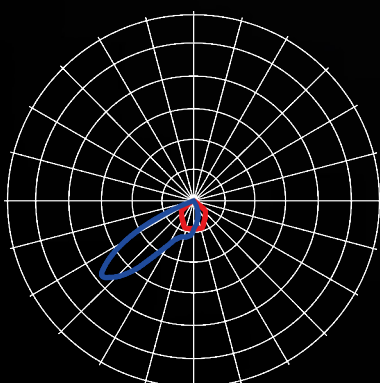
Peak illuminance: 67.2 lx
Mounting height: 3.0 m
Number of c-planes: 72



TYPE ASYMMETRIC

Narrow forward throw beam for area lighting. Ideal for large areas such as parking lots, parks and green spaces. Perfect for places

where there is no access to install poles on both sides of the space.





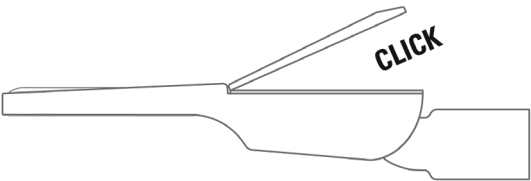
EASY INSTALLATION

Each outdoor installation requires different power and luminous flux values. This is why Carina offers an extraordinarily simple maintenance and management system for the technical compartment. Door opens

with a simple click and swings up to reveal the technical compartment. A practical and functional design grants the possibility to easily remove and replace driver and cables.

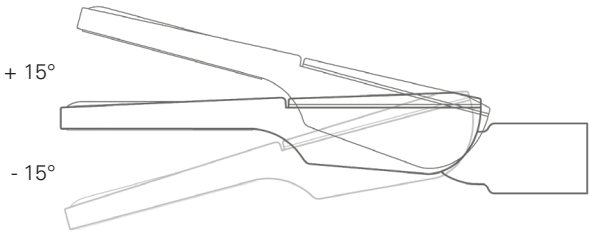
EASY OPENING

One gesture is all it takes to open the cover and perform maintenance



TILTABILITY

Directing the beam has never been easier



OVERVIEW INDEX



CARINA 1

<u>Power (W)</u>	20 - 100
<u>Luminous flux (lm)</u>	2149 - 14000
<u>Colour temperature (°K)</u>	3000/4000/5000/6500
<u>System luminous efficiency (lm/W)</u>	up to 138
<u>Light source</u>	SMD LED
<u>Pipe holder diameter (mm)</u>	Ø 33 - 48
<u>Dimensions (mm)</u>	445(L)x206(W)x86(H)
<u>Wall mounted</u>	●
<u>Angle adjustment</u>	●



CARINA 2

<u>Power (W)</u>	60 - 175
<u>Luminous flux (lm)</u>	6261 - 26250
<u>Colour temperature (°K)</u>	3000/4000/5000/6500
<u>System luminous efficiency (lm/W)</u>	up to 143
<u>Light source</u>	SMD LED
<u>Pipe holder diameter (mm)</u>	Ø 42 - 48
<u>Dimensions (mm)</u>	560(L)x257(W)x97(H)
<u>Wall mounted</u>	●
<u>Angle adjustment</u>	●



CARINA 3

Power (W)	120 - 240
<u>Luminous flux (lm)</u>	13413- 36000
<u>Colour temperature (°K)</u>	3000/4000/5000/6500
<u>System luminous efficiency (lm/W)</u>	up to 142
<u>Light source</u>	SMD LED
<u>Pipe holder diameter (mm)</u>	Ø 60
<u>Dimensions (mm)</u>	715(L)x310(W)x104(H)
<u>Wall mounted</u>	•
<u>Angle adjustment</u>	•



CARINA 4

<u>Power (W)</u>	200 - 340
<u>Luminous flux (lm)</u>	21023- 51000
<u>Colour temperature (°K)</u>	3000/4000/5000/6500
<u>System luminous efficiency (lm/W)</u>	up to 143
<u>Light source</u>	SMD LED
<u>Pipe holder diameter (mm)</u>	Ø 48 - 60
<u>Dimensions (mm)</u>	735(L)x390(W)x141(H)
<u>Wall mounted</u>	•
<u>Angle adjustment</u>	•



Espica Lighting

Central Office | 66 Vitosha blvd. , Floor 4 Triaditza district, 1463 Sofia, Bulgaria
Dubai Office | Oxford Tower, Business Bay, Dubai – UAE

Headquarter Tel : +359 893 008598
Dubai office Tel: +97144498060
WhatsApp: +359 895 003647

info@espica.lighting
www.espica.lighting

Discover all Carina
codes in here



Carina
Video



