

NIKON®



**LEDXION S466**  
LED STREET LANTERN

# PRODUCT INTRODUCTION

**NIKKON**<sup>®</sup>



### Robust Housing

- Die-Cast Aluminium
- Epoxy Powder Coating
- Akzo Nobel Interpon Color
- Ultraviolet Protection
- Isolated Lamp & Gear Compartment
- Stainless Steel Fasteners



### Optical Versatility

- Type I, II, III, IV, V & ASY
- Applications:

Rural, Urban & Ring Roads, Carparks, Expressways, Sport Lightings, Jetties & Ports



### Dynamic Thermal Control

- Dynamic Heat Fins Design
- External Cooling Fins
- Withstand High Temperature
- Ventilation Vent Included



### Weatherproof Sealant

- Withstand Harsh Outdoor Environment
- Silicon Rubber Material
- IP66 Rating



### Spigot Flexibility

- Ø60mm Pole Size
- Tiltable 0° - 10° Angle Adjustment
- Side Entry or Post Top
- 120mm Depth for Better Safety
- Stretchable Material Suitable Impact
- Stop-Locking Mechanism



### Electronic Control

- NEMA Twist Photocell Receptable
- Dimming & Timer Control Power Supply
- Intelligent Light Control System (iLCS)



# S466 SPECIFICATIONS

## LUMINAIRE TECHNICAL SPECIFICATIONS

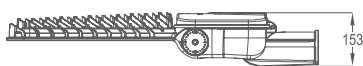
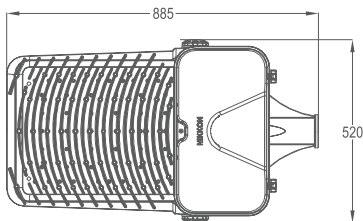
• System Power	200W 250W 300W 350W
• Fitting Material	Non-Corrosive Die-cast Aluminium
• Optical Cover	High Transparency Tempered Glass
• Ingress Protection	IP66
• Impact Protection	IK08
• Voltage	220 ~ 240 Vac 50 / 60Hz
• Electrical Safety Class	Class I
• Operating Temperature	-30 ~ +50°C
• Surge Protection	10KV, 20KA
• Installation	Ø60mm Side Entry Ø60mm Post Top Mounting Bracket
• Nett Weight	18 kg
• Carton Size	840 (L) x 540 (W) x 275 (H)

## APPLICATION

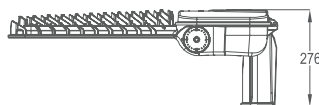
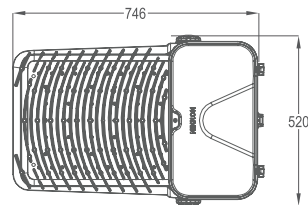
- Motorways, Municipal Areas, Expressways, High-Masts, Sports Arena & Courts, Carparks, Jetties & Ports

## DIMENSION

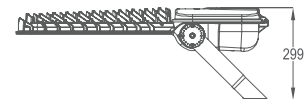
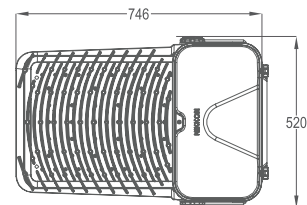
### SIDE ENTRY



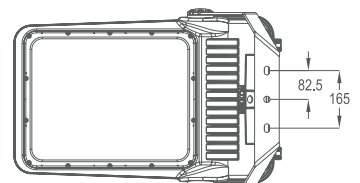
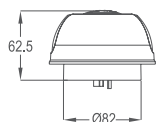
### POST TOP



### MOUNTING BRACKET



### Light Control Unit



## OPTIONAL FEATURES

• LED Drivers	1-10V Dimming, Full Programmable
• Control System	iLCS (Intelligent Light Control System)
• Installation	Mounting Bracket (Highmast Lighting)
• Lens (Optional) by LEDiL	Type I, Type II, Type III, Type IV, Type V & ASY * Special distribution lens upon request.

## LED MODULE SPECIFICATIONS

• LEDs	High Power LEDs
• Color Temperature	3000K, 4000K & 5000K
• L70	100,000 Hrs @ 25°C
• PCB Material	Ceramic (Alumina Substrate)
• Lens Efficiency	93%
• Lm/W	Up to 124 lm/W

## COMPLIANCE STANDARD

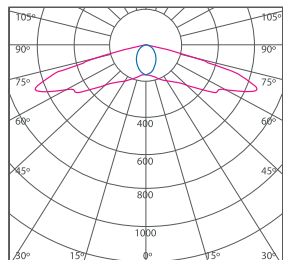
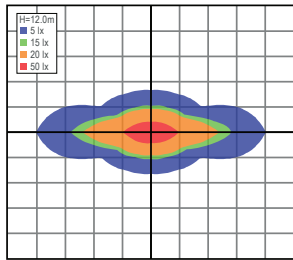
• LED	LM 80
• Driver	CE, EN 55015, EN 61000, EN 61547, IEC 61347, EN 62493, IEC 60598, EN 50581, IEC 62384
• Luminaire	EN 61000, EN 55015, EN 61547, EN 60598, EN 62471, EN 62493, IEC 62722, LM79, CISPR15

\* Please indicate series, color temperature, angle and wattage when ordering.

Note: All specifications are subject to change without prior notice for product improvement. Images are for illustrative purposes only.



## TYPE I - Rural Road

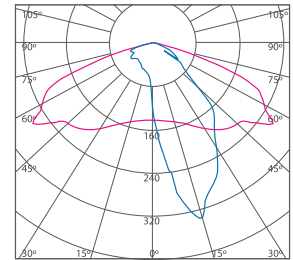
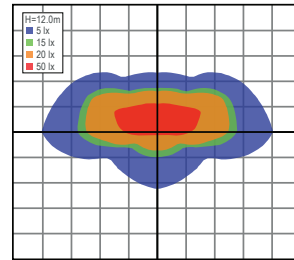


4.44h 3.5 2.6 1.7 0.9 0.0 0.9 1.7 2.6 3.5 4.44h

cd/km  
C0/C180: — C90/C270: —

WATTAGE	200W	250W	300W	350W
TYPICAL LUMINOUS FLUX	26770 lm	32800 lm	40080 lm	44620 lm

## TYPE II - Urban Road

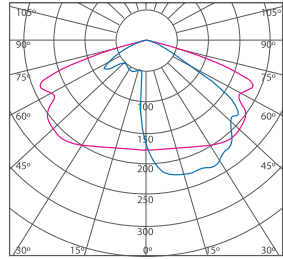
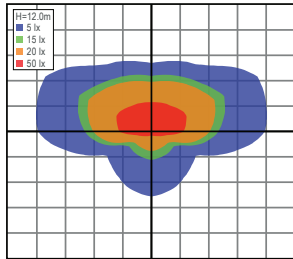


3.20h 2.5 1.9 1.3 0.6 0.0 0.6 1.3 1.9 2.5 3.20h

cd/km  
C0/C180: — C90/C270: —

WATTAGE	200W	250W	300W	350W
TYPICAL LUMINOUS FLUX	24890 lm	30640 lm	36770 lm	41160 lm

## TYPE III - Expressway

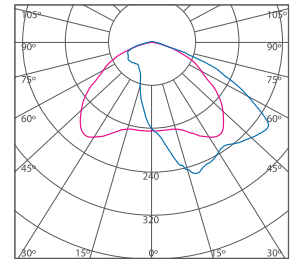
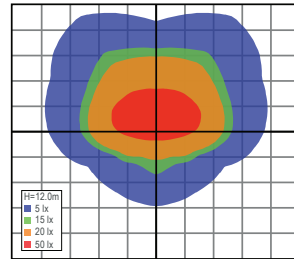


3.34h 2.6 2.0 1.3 0.7 0.0 0.7 1.3 2.0 2.6 3.34h

cd/km  
C0/C180: — C90/C270: —

WATTAGE	200W	250W	300W	350W
TYPICAL LUMINOUS FLUX	26090 lm	32290 lm	38760 lm	43530 lm

## TYPE IV - Large Area, High-Mast

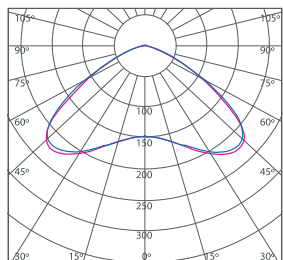
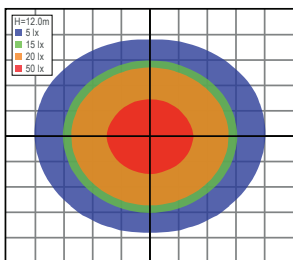


2.56h 2.0 1.5 1.0 0.5 0.0 0.5 1.0 1.5 2.0 2.56h

cd/km  
C0/C180: — C90/C270: —

WATTAGE	200W	250W	300W	350W
TYPICAL LUMINOUS FLUX	25490 lm	31910 lm	38120 lm	42830 lm

## TYPE V - Carpark & Roundabout

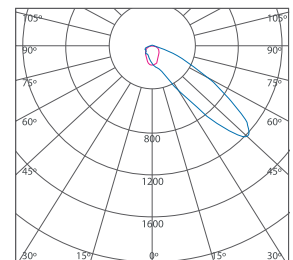
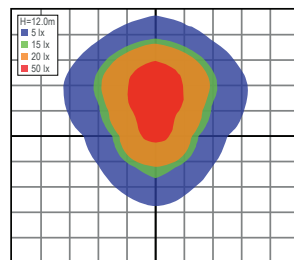


2.44h 1.9 1.4 0.9 0.5 0.0 0.5 0.9 1.4 1.9 2.44h

cd/km  
C0/C180: — C90/C270: —

WATTAGE	200W	250W	300W	350W
TYPICAL LUMINOUS FLUX	25890 lm	32130 lm	38660 lm	43610 lm

## TYPE ASY - High-Mast & Sport Lighting



2.50h 2.0 1.5 1.0 0.5 0.0 0.5 1.0 1.5 2.0 2.50h

cd/km  
C0/C180: — C90/C270: —  
Symmetrical light distribution

WATTAGE	200W	250W	300W	350W
TYPICAL LUMINOUS FLUX	27100 lm	33640 lm	39900 lm	45420 lm



Our cities are rapidly transforming into artificial ecosystems of interconnected and interdependent intelligent digital organisms. Fast urbanization plays an integral role in economic and societal progress which represents the fundamentals of new technological condition confronting architects and product designers. Traffic congestion, energy usage, public safety and establishing sustainable communities are the few key challenges faced by cities. As such, development and implementations of intelligent solutions are needed.

Smart cities are measured by the integration of their infrastructure and the intelligent solutions which they tackle challenges. Constant attention to providing a better quality of life and vibrant economic climate is essential to engage and attract new residents, businesses and visitors. Our Intelligent Light Control System (iLCS) introduces a modular approach, with the energy saving generated by remote controls for street lightings. This will create a new neural infrastructure network ready to obtain and collect necessary data to activate intelligent solutions.

## GLOBAL UNIQUE ADVANTAGES

### Wireless Mesh Network

- Auto mesh networking between Light Control Unit (LCU)
- Low latency communication with response <1 second, thousands of luminaires could be turned on in a few milliseconds
- Message priority (QOS), messages with high priority are delivered and goes through the network before others
- Same platform for street lighting-industrial-indoor

### Plug and Play GPS Mapping

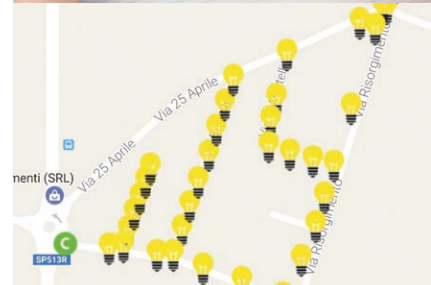
- LCUs embedded with GPS, automatic geolocation of light point
- Real time clock on LCU directly synchronized with GPS satellites
- Sunset and sunrise time is automatically calculated from the GPS coordinates directly in LCU
- Autonomous operation with weekly profile considering GPS coordinates and astronomical clock

### Real Time Control, Metering and Alerts

- Real time control of each luminaire
- Dimming for exact consumption
- Real time measurements of consumption
- Real time alerts provide information on luminaire failure, tracking abnormal energy use
- Detailed working time counters

### Installation Features

- Possibility to use a portable device to turn on/off/dim manually a certain area of nodes for diagnostics or installation purposes
- Factory default profile with autonomous weekly program
- External input sensors (3 ADC 0-30V dynamic range)
- Controlled auxiliary output (for advertisement displays)





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