
NIKKON®
SIGMA
LED STREET LANTERN
Optimizing Your City with Intelligent
Real-Time Monitoring Anytime Anywhere
Our Technology Partner:
iLCS®
Intelligent Light Control System

iLCS® built-in remote control management system

SMART FLEXIBLE

With **iLCS®** built-in remote control management system, it gives flexibility for municipalities, city planners and operators to optimize and monitoring luminaires individually or in group remotely from a computer or smartphone. As smart as it is, operators are able to obtain and manage useful data effectively. (e.g., energy consumption, air quality of the outdoor environments and traffic data to manage daily city's traffic flow and congestion). By using these important data, they can alert and alarm the citizen with better route planning.

The DCU monitors, controls and manage all connected LCUs. It functions as the gateway to the IT world. Each node **(LCU NEMA)** of the network is embedded with a GPS receiver and an astronomic clock. This enables the node, when it is completely isolated (standalone) or the network is under maintenance, it will follows the profile that has been previously programmed. Moreover, the enclosure is made semi-transparent to allow an embedded photocell to sense daylight intensity to autonomously turn on the luminaire.

Data Control Unit (DCU)

The DCU monitors, controls and manages all connected LCUs. It also functions as the gateway for the connected LCUs to the IT world.

Cloud Vision

Cloud based platform for real time control of luminaires, real time monitoring of load and lighting levels.

Light Control Unit (LCU NEMA)

is installed onto smart street lantern to establish a smart city neural infrastructure network.

1.

Housing

- High Corrosive Resistant Die-Cast Aluminium Material
- Outdoor Polyester Epoxy Powder Coating
- Come with 2 Housing Sizes
- Lightweight Fitting Design
- Ensure Long Fixture Durability

2.

Optical Versatility

- Multi Types of Lighting Distributions to Fullfill Most Applications
- High Quality Lens with 94% Efficiency
- Excellent System Efficacy ≥140 lm/W
- Frameless Tempered Glass Cover

UNIQUE ADVANTAGES

3.

Heat Management

- Aerodynamic Design
- Water Trap Free Design
- Excellent Heat Dissipation
- Ensures Long System Lifetime

4.

Weatherproof Sealant

- Silicone Foam Material Gasket Provides Durable Protection at Outdoor Environment

5.

Sensor Accessory

- ANSI C136.41 Compliant Dimming Receptacle (Compatible with Light Control Unit - LCU and NEMA Photocell)
- Compact Fitting Size with Smart Features

6.

Easy Maintenance

- Top Access Gear Compartment that Isolated the Light Engine and Gear Compartment
- Tool-less Entry

7.

Mechanical Design

- Unique Spigot Mounting with +15° to -15° Tilting Adjustment
- Post Top / Side Entry of Ø48 / Ø60mm

MEASUREMENT & ORDER CODE

WATTAGE	ORDER CODE	NO. OF LEDS	LUMEN	TYPICAL WATTAGE	CARTON DIMENSION (L x W x H) mm	NETT WEIGHT
60W	SIGMA - M 60W	32	8400	60	610 x 340 x 215	6.90 kg
90W	SIGMA - M 90W	48	12800	90	610 x 340 x 215	6.90 kg
120W	SIGMA - M 120W	72	17460	120	610 x 340 x 215	6.90 kg
150W	SIGMA - M 150W	72	21385	150	610 x 340 x 215	6.90 kg
180W	SIGMA - L 180W	96	25710	180	670 x 375 x 225	7.70 kg
200W	SIGMA - L 200W	96	29650	200	670 x 375 x 225	7.70 kg

* All result tested base on 4000K CCT LEDs.

TECHNICAL SPECIFICATION

LUMINAIRE TECHNICAL DATA

- System Power : 60W
  : 90W
  : 120W
  : 150W
  : 180W
  : 200W
- Enclosure Material : Die Cast Aluminium
- Optical Cover : 95% Transparency Tempered Glass
- Gasket Material : Silicone Foam
- Fitting Color : Dark Grey, Akzo Nobel 300AS
  : Durable Polyester Epoxy Powder Coating
- Operating Temperature : -30 ~ +50°C
- Input Voltage : 220 ~ 240 Vac 50 / 60 Hz
- Power Factor : >0.9
- Surge Protection Device (SPD) : 20kV, 25kA
- Insulation Classification : Class I
- Ingress Protection : IP66
- Impact Protection : IK08
- Spigot Mounting : 0°-15° Tilting
  : Ø60mm Post Top / Side Entry (Standard)
  : Ø48mm Post Top / Side Entry (Upon Request)

COMPLIANCE

- LED : Performance - LM80
  : Safety - UL
  : Environmental - RoHS
- LED DRIVER : Electromagnetic Compatibility (EMC) - EN55015, IEC/EN61000 IEC/EN61547, IEC CISPR
  : Safety - IEC/EN61347, EN62384
- LUMINAIRE : Safety - IEC60598-1, IEC60598-2-3, IEC62471, IEC62031
  : Electromagnetic Compatibility (EMC) - IEC62471, IEC61000, IEC61547, IEC62493
  : Performance - LM79, IEC62722
- SPD : Safety - IEC61643-11

iLCS LCU

- Operating Voltage : 100 ~ 305 Vac @ 50 / 60Hz
- Idle Consumption : < 1W
- Overvoltage, Overload and Thermal Protection
- Short-Circuit and Open-Circuit Protection
- Autonomous Operation Redundancy
- Antenna Integrated
- Metering Embedded
- GPS Embedded
- Photocell Embedded
- Dimming Interface : 0-10V
- Ingress Protection : IP66
- Analog Input Availability : 0-30V

LED MODULE SPECIFICATION

- LED Source : 5050
- CCT : 3000K Warm White
  : 4000K Neutral White
  (Other CCT Upon Request)
- Lumen : ≥140 lm / Watt
- CRI : Min 70
- L70 : 100,000 Hrs @ 25°C
- PCB Material : Metal Core (UL Certified)
- Lens (94% Efficiency) : Type II
  : Type III

APPLICATION SIGMA-M

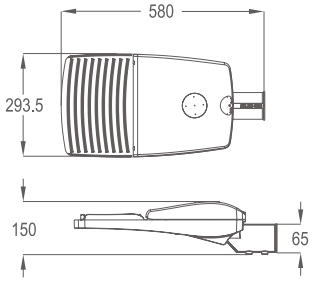
- Pathways
- Car Parks
- Foot Paths
- Access Ways
- Parks
- Road Lightings
- Residential Areas
- Pedestrian Areas

APPLICATION SIGMA-L

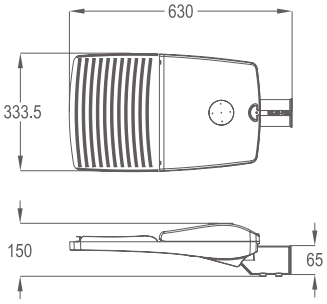
- Pedestrian Areas
- Residential Areas
- Rural Roads
- Urban Roads
- Expressway Lightings

DIMENSION

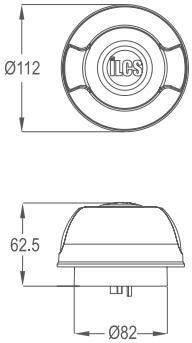
SIGMA-M-Side Entry



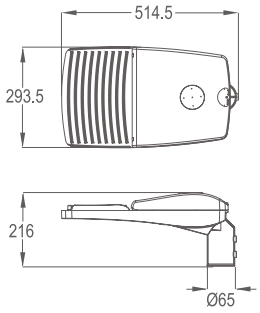
SIGMA-L-Side Entry



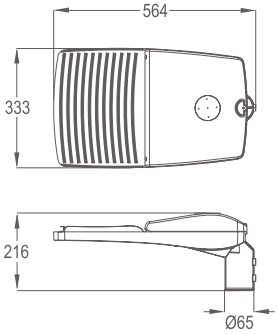
Light Control Unit



SIGMA-M-Post Top

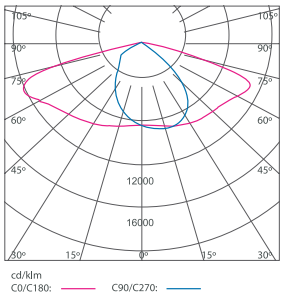


SIGMA-L-Post Top

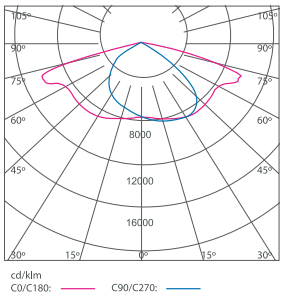


PHOTOMETRIC

Type II



Type III



Note: All specifications are subject to change without prior notice for product improvement. Images, pictures and illustrations used are for illustrative purposes only and the color printed may differ from the actual product.