

WITH ROI IN  
<1 YEAR

NIKKON®



FYNN SmartBay



# ARCHITECTURE

The Intelligent Light Control System, **iLCS®** is a profound smart solution designed and engineered from Italy, tailored for industrial bay lighting applications by enhancing energy efficiency, improve operating productivity and delivering huge amount of cost savings. With the readiness of data collection, one is allowed to control, monitor and manage luminaire operations composed as part of the world of Internet of Things (IoT). Besides, this opens to an opportunity for smooth integration, activation and upgrade with sensory applications that favour optimal luminaire operations.



LAN connection to backbone  
(GPRS, WLAN, Ethernet, Fiber)

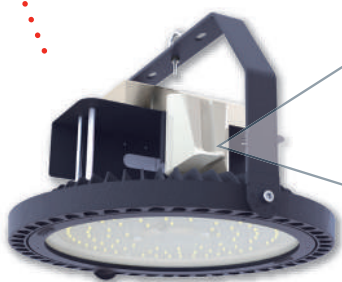


## ■ Cloud Vision

Cloud based platform for real time control of luminaires, real time monitoring of load and lighting levels. It has an easy-to-use web interface to configure advanced features such as scheduling and demand responses.

## ■ 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.



## ■ Fynn SmartBay

## ■ Light Control Unit (LCU)

Tailored for industrial highbays and outdoor streetlights to allow integration of the luminaire into the **iLCS®** network.

# COSTEFFECTIVENESS

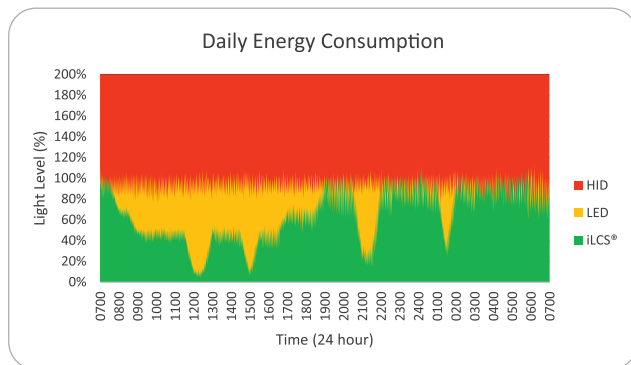
## With iLCS®, You Can Achieve

- Immediately start cutting 65% of your cost
- At least 10% cashback from month 2 onwards
- Very short ROI (<1 year)
- Invest only 10% to own a 100% fully integrated smart lighting solution

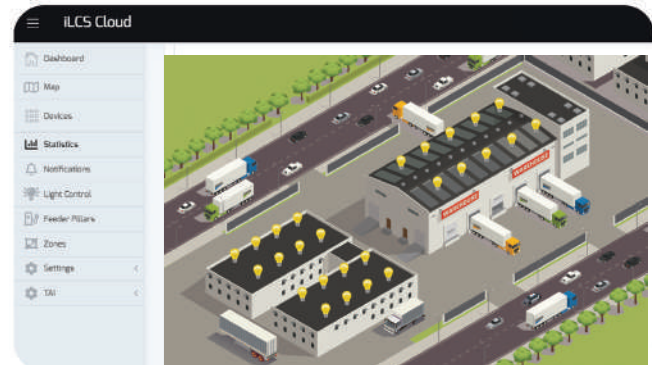
## Operating Cost Optimization

- Optimization of maintenance activities
- Improvement of logistic operations
- Forecasting through end-of-life alerts
- Improvement in troubleshooting

# UNIQUE ADVANTAGES



GRAPHICAL STATISTIC



GPS MAPPING INTERFACE

## Energy Savings

- Real time control on/off/dim
- Autonomous programming slots
- Defining different weekly profiles
- Grouping of luminaires
- Light off during maintenance

## Real Time Alerts

- Luminaire burned out
- No input current
- Flickering luminaire
- Overvoltage or under voltage power

## Measurements

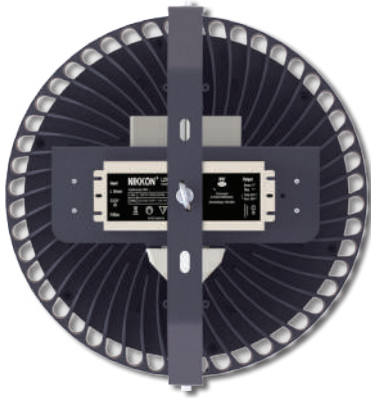
- Supply voltage
- Active power
- Working time counters
- Current consumption
- External analog sensors (temperature, humidity, etc.)

## Wireless Mesh Network

- Auto mesh networking between LCUs
- Low latency communication with response <1 second
- Message priority (QOS)
- Same platform for street lighting-industrial-indoor

## Industrial Sensor Applications

- Motion radar sensor detection
- Corresponsive with autonomous profile
- Multiple settings covering different scenarios



## TECHNICAL SPECIFICATION

### Luminaire Technical Data

- System Power : 190W
- Fitting Material : Non-Corrosive Die-Cast Aluminium
- Fitting Color : Dark Gray, Akzo Nobel RAL7016
- Optical Cover : 95% Transparency Clear Tempered Glass
- Ingress Protection : IP20  
IP66 (Upon Request)
- Impact Protection : IK08
- Voltage : 220~240 Vac 50 / 60Hz
- Electrical Safety Class : Class 1
- Operating Temperature : -30~+45°C
- Installation : Hook Mounting Bracket
- Surge Protection : 10KV, 20KA (External)
- Driver : 1-10V Dimming
- Optics : Wide Beam, MB51 or NB19
- Control : Intelligent Light Control System

### LED Module Specifications

- Color Temperature : 3000K Warm White  
4000K Neutral White  
5000K Cool White
- Color Rendering Index (CRI) : <70
- L70 : 100,000 Hrs @ 25°C
- PCB Material : Ceramic (Alumina Substrate)
- PCB Trace : Silver Conductor (Ag)
- SMD Connector : WAGO 2060 Series

### Light Control Unit (LCU) Technical Data

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

### Compliance Standard

- LED : LM80, UL, RoHS
- Driver : CE, EN62493, EN61347, EN50581, EN55015, EN61000, EN61547, EN62384
- Luminaire : EN60598-1, EN60598-2-1, EN62493, EN55015, EN61547, EN61000, EN62471
- LCU : MCMC MTSFB TC T007: 2014, EN55015, EN61547, EN61347-1, EN61347-2



### Application

- Warehouse, Multipurpose Halls, Exhibition Halls, Production Areas, Factories

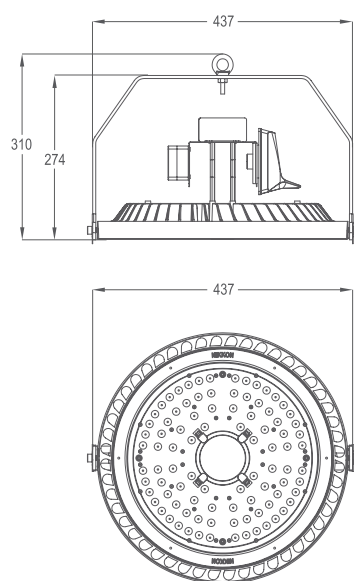


## Measurement

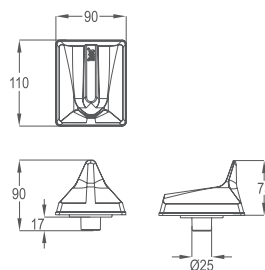
WATTAGE	NO. OF LEDs	TYPICAL LUMINOUS FLUX	TYPICAL WATTAGE	NETT WEIGHT
190W	92	25300	205	8.3kg

- \* Please indicate LED color temperature and optic when ordering.
- \* All result tested base on 5000K CCT LEDs.

## Dimension

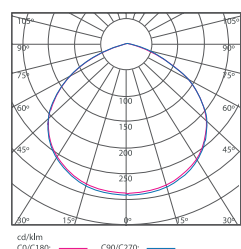


### Light Control Unit

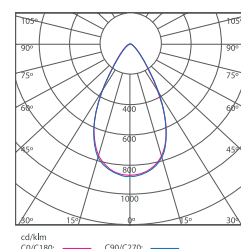


## Photometric

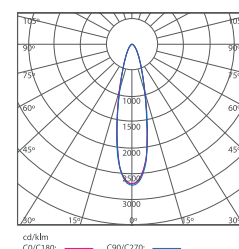
100° Wide Beam Angle (WB)



51° Medium Beam Angle (MB51)



19° Narrow Beam Angle (NB19)



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 in the brochure may differ from the actual product.