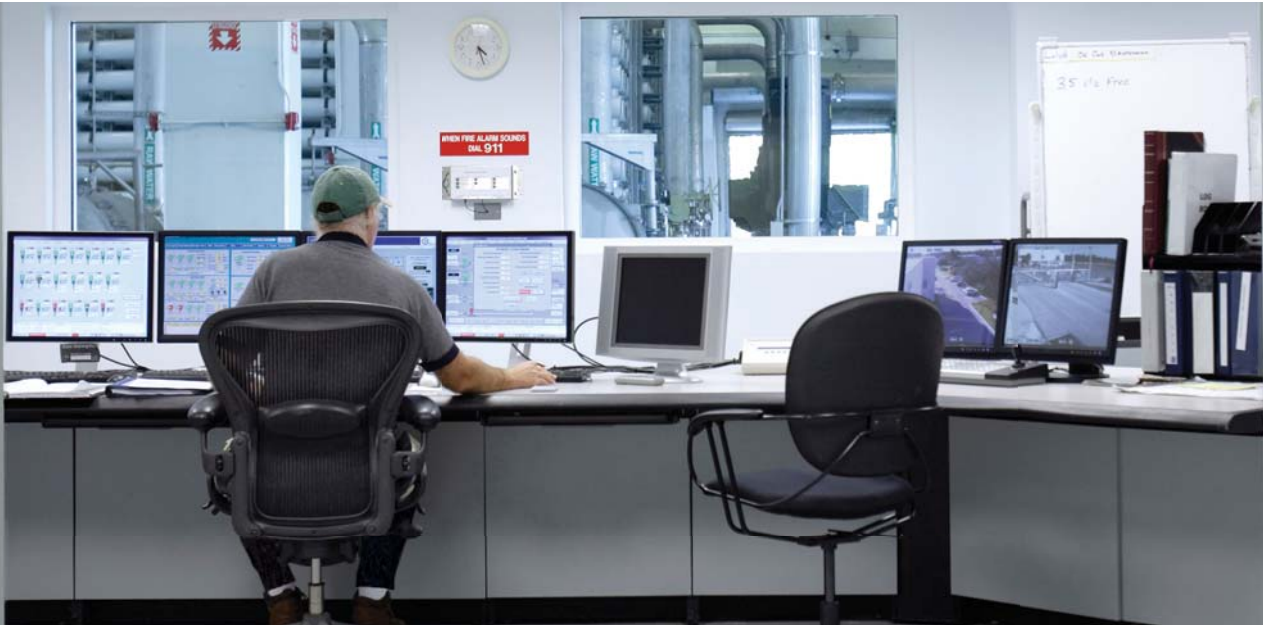


# Metrolight's Control System

## Introduction



### Overview

Metrolight's control system is a powerful energy management solution that enables the optimization of the light system. The control system utilizes online two-way communication that enables the user to control light points and receive valuable input parameters such as lamp status, dimming mode and power consumption.

Metrolight's control system allows the user to define how each lamp will operate, define groups of lamps for common mode of operation and control individual lamps as well as groups of lamps. The system provides a sophisticated yet simple and intuitive graphic user interface (GUI) of the installed light points.

### System Benefits

- ▶ Optimized energy savings
- ▶ Simple and effective visual representation
- ▶ Automatic scheduling
- ▶ Intuitive, user friendly GUI
- ▶ Control light points separately or as groups
- ▶ Unlimited number of lamp groups
- ▶ Lamps On/Off/Dim status
- ▶ Reduced maintenance costs
- ▶ Power consumption indication
- ▶ Simple & quick installation
- ▶ Full flexibility determining work routines
- ▶ Internet accessible
- ▶ Ballast temperature monitoring

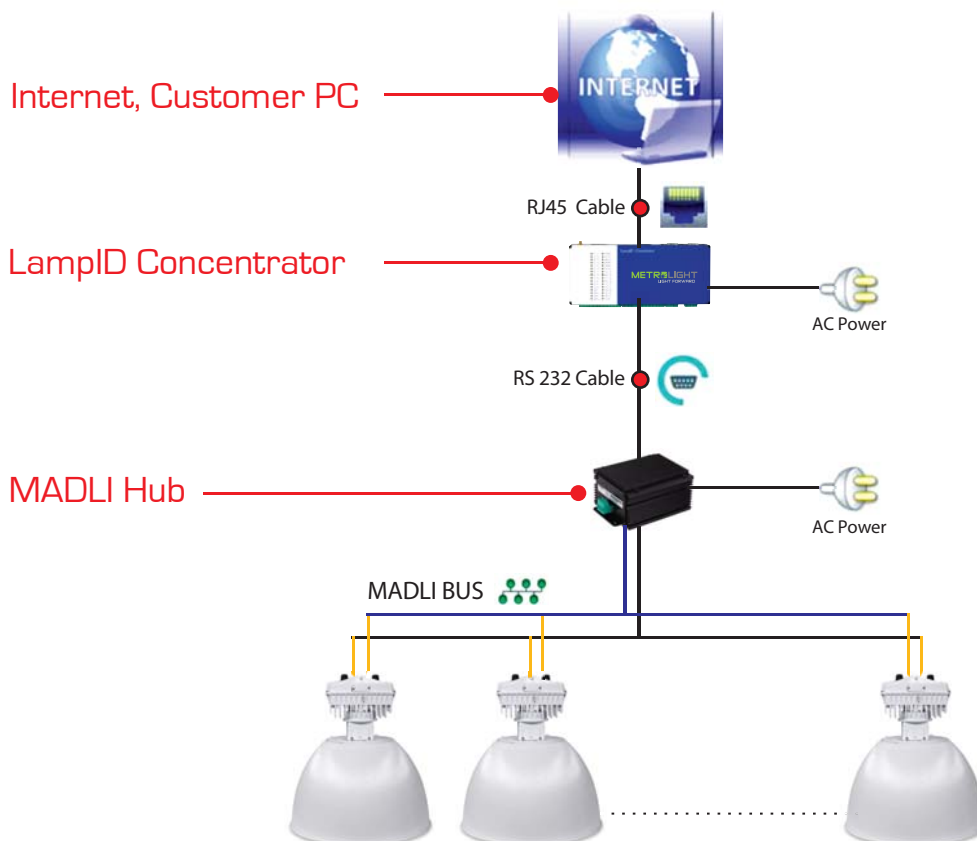
# Metrolight's Wired Control System

## Simple, Quick, Elegant!

### System Components

Metrolight's wired control system was designed for a quick and simple installation. The main system components are:

1. LampID Concentrator
  - RJ45 Cable connection to the Internet / Customer PC
  - AC power outlet to power the unit
  - RS 232 Cable connection to the MADLI Hub
2. MADLI Hub
  - RS 232 Cable connection to the LampID Concentrator
  - AC power outlet to power the unit
  - MADLI BUS: Two twisted pair wires simply routed throughout the location. Each light fixture connects to these wires using two built-in and ready-made orange cables.



Available wired control packages: Up to 50, 128 and 255 supported light points per LampID

Peripheral components:

- 12-24V power supply for LampID concentrator
- LAN patch cable 10 feet
- LAN crossover cable 10 feet

# Metrolight's Wireless Control System

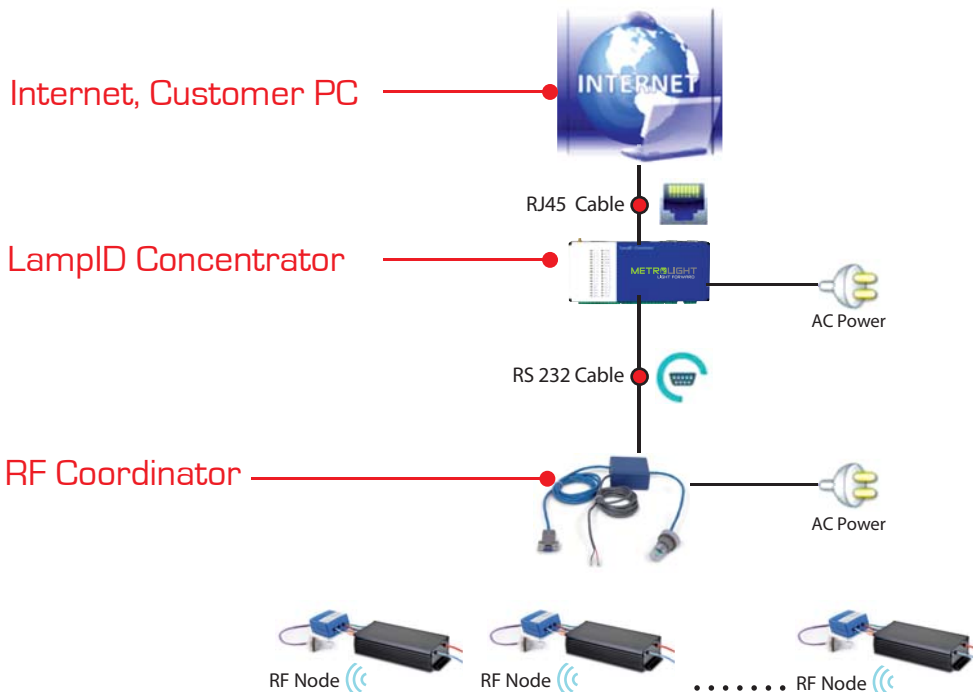
## System Components

Metrolight's wireless control system was designed for a quick and simple installation. The main system components are:

1. LampID Concentrator
  - RJ45 Cable connection to the Internet / Customer PC
  - AC power outlet to power the unit
2. RF Coordinator
  - RS 232 Cable connection to the LampID Concentrator
  - AC power cable to LampID
3. RF Nodes
  - Each light fixture communicates with the LampID through wireless connectivity

### Main features:

- Frequency Range: 916MHZ (US) 868MHZ (EU)
- Number of Frequency Channels: 8
- Network: Proprietary MESH network
- Range: Up to 350m per hop with line of sight
- Node Update Response Parameter: 5 seconds



Available wireless control packages: Up to 50, 128 and 239 supported light points per LampID

### Peripheral components:

- 12-24V power supply for LampID concentrator
- LAN patch cable 10 feet
- LAN crossover cable 10 feet

# Metrolight's Control System

## LampID Selected Screen - Scheduling

### System Settings

Defining system scheduling, building groups, setting external devices and system commissioning

11:57 09/02/2011 Sunrise: 06:26 Sunset: 17:20 Manual

Monitor Control Settings Engineer

Schedule Templates

Groups Management

Special Dates

Template Linking

Registration

Maintenance

I/O Configuration

Time Set & Astro. Clock

Communication

User Management

Template Name: Template 1 Timed Event

Input Condition:  1  2  3  4  5  6  7  8  9  10  11  12

Astronomic Clock

Sunrise (Dim Level %): Off - 0 + On >>

Offset (Minutes): Min - 0 + Max

Sunset (Dim Level %): Off - 0 + On >>

Offset (Minutes): Min - 0 + Max

Photo Meter

Analog Input

In 1  In 2

V Min: 0 Volts

V Max: 0 Volts

Sunrise (Dim Level %): Off - 0 + On >>

Voltage (%): 0 Delay (Minutes): Min - 0 + Max

Sunset (Dim Level %): Off - 0 + On >>

Voltage (%): 0 Delay (Minutes): Min - 0 + Max

Event Name: Event 1

Active  Priority

Active Days: S M T W T F S

Event Time: 06:45

Action: Off - 50 + On

Select Outputs

Output 1 Off

Output 2 Off

Output 3 Off

Output 4 Off

Save Template

### About Metrolight

Metrolight provides proven energy-efficient eHID and LED solutions for high-power lighting. Metrolight's ballasts and managed lighting solutions are used in retail, industrial, commercial and municipal installations to reduce energy consumption and carbon emission by 70%. Pioneering lighting energy solutions since 1996, Metrolight operates worldwide with over 750,000 systems deployed and over 8 billion hours in operation. For more information, please visit our website at [www.metrolight.com](http://www.metrolight.com)