

**ABBRIEVED USERS MANUAL** for lighting & disinfecting ceiling luminaire  
ANNIHILATOR LUMENMAX  
MODEL: CL24-COB-D-UVC, PL24-COB-D-UVC

#### PACKAGE CONTENT

1. ON-SURFACE MOUNTED LUMINAIRE LUMENMAX ANNIHILATOR  
PL24-COB-D-UVC

- Luminaire PL24-COB-D-UVC unit
- Driver with cable junction (inside)
- HULLCS24 controller (inside)
- Abridged Users Manual
- Rawlplug with screw (2 pcs)
- Box

2. RECESSED MOUNTED LUMINAIRE LUMENMAX ANNIHILATOR  
CL24-COB-D-UVC

- Luminaire CL24-COB-D-UVC unit
- Driver with cable junction
- HULLCS24 controller
- Abridged Users Manual
- Box

#### TECHNICAL PARAMETERS

- Supply voltage: 100-250V AC 50-60Hz
- Power factor (cosφ): > 0.90
- Electric shock protection class: II
- Degree of protection: IP44 (front side)
- Ambient working temperature range: -20~+40°C

#### White light module:

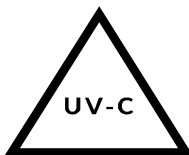
- Wattage: 24.3W
- Energy efficiency: A+
- Luminous Flux: 2400lm
- Correlated color temperature (CCT): 4200K
- Emission angle beam: 75°
- On/off cycles: >20 000
- Nominal shelf-life / life span: 30 000h
- Color rendering index (CRI): Ra>90

#### UVC module:

- Wattage: 22.2W
- Total UV-C radiation power: 285mW
- Dominant UV-C wave length: 273nm
- UV-C emission angle beam: 44° / 53°
- Radiation decrease: L70=6000h, L50=1000h

#### Remote control:

- Max recommended distance from control device (smartphone) to „MASTER” luminaire: 6m
- Max recommended distance between built-in neighboring luminaires in the zone: 3m
- Max luminaires number in each zone: 10pcs



#### WARNINGS AND NOTES

**Under no circumstances should people or animals be in the room during UVC disinfection mode. UVC radiation is harmful to living tissues and can cause reddening and burning of the skin, which can lead to serious skin diseases and can also damage the eyes. It is also advisable to temporarily remove all vegetation from the room when the disinfection mode is planned for an extended period.**

**Operation of the disinfection mode is recommended only for trained personnel. The mobile device with the app installed and configured for the installed system must be protected from access by children. It is recommended that for each room where ANNIHILATOR LUMENMAX luminaires are installed, there should be at least one motion detector per zone - device group (the maximum number of luminaires per group is 10 pcs). The detector must be installed at each entrance to the room in order to effectively signal the appearance of movement. The devices are compatible with all wired PIR detectors with a power supply voltage of 12V DC, as well as with the dedicated LUMENMAX WIFI ANNIHILATOR wireless detectors (to be purchased separately). Installation and connection of the luminaire must only be carried out by qualified personnel who are authorised to do so.**

#### CONNECTION AND ASSEMBLY

• For the PL24-COB-D-UVC model:

Inside the luminaire is the power supply with cable connector and HULLCS24 controller. Connect the power supply connector to the controller. Connect the WHITE+/WHITE- and UVC+/UVC- cable connectors coming out of the controller to the LED module connectors coming out of the luminaire niche, inside the housing. Install the top cover on the ceiling surface using the included mounting pins, so that the L and N power wires pass through the centre hole of the cover. Connect the L and N power wires to the power supply and then gently tighten the luminaire housing to the ceiling installed lid.

• For the CL24-COB-D-UVC :

Inside the box is the power supply with cable connector and HULLCS24 controller. Connect the power supply connector to the controller. Connect the WHITE+/WHITE- and UVC+/UVC- cable connectors coming out of the controller to the LED module connectors coming out of the luminaire niche. Cut a 195mm diameter mounting hole in the false ceiling and route the L and N power wires to prepare them for connection to the power supply.

Connect the L and N power wires to the power supply. Place the power supply and controller on or next to the luminaire on top of the suspended ceiling. Install the luminaire in the mounting hole using the spring-loaded mounting brackets.

In case of the need to reconnect the wires of the power supply connector (between the controller and the power supply, the controller and the lamp, as well as between the controller and the detector), it is absolutely necessary to remember that this operation may only be performed when the power supply is disconnected from the mains power source (110-250V AC).

- Before mounting the luminaires in the ceiling, it is recommended to write down the serial numbers of each luminaire, to enable an identification of each installed luminaire location with particular serial number
- To connect a wired 12V DC detector, use the following sockets on the controller: +12V DC, INPUT and GND
- The luminaires can be switched on and off using a standard wall switch (lighting mode only)
- When the luminaire is switched on via a wall switch, using a mobile device (e.g. smartphone), the UVC disinfection mode can be switched on, off and the brightness of the white light can be controlled (lighting mode)
- Luminaires do not work with external wall dimmers (located before the power supply)

#### ACTIVATION

When the controller receives power (by activating the luminaire with the wall switch), the POWER diode will light up, which means that the device is ready for operation.

#### SMARTPHONE COMMUNICATION

If the user connects to the controller using the ANNIHILATOR LUMENMAX application, the blue CONN LED on the controller lights up. When data is exchanged, the CONN LED flashes accordingly - this applies both to data exchange between controllers in the Zone ( group of Devices ) and to data exchange between the application and the controller. Communication with a smartphone is carried out by means of Bluetooth Low Energy 4.2 wireless interface. Communication between controllers is realized by 2.4GHz radio interface using ESP-NOW protocol. **The luminaires meet the obligatory electromagnetic compatibility norms, however they might be vulnerable to interferences from devices which dont meet above mentioned norms, if they are working and are present in vicinity.**

#### ALARM SIGNALING AT THE MOVE SENSOR INPUT

If the controller has a properly configured move sensor, it will activate the red MOVE LED when it detects a change to an alarm condition.

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**The producer offers the after-warranty technical support, along with possibility of electronic components replacement, if need arises.**

**Waste electrical and electronic equipment must not be thrown away with ordinary mixed waste, this means that used electrical and electronic equipment should be collected selectively.**

Link to technical details attachments :

Link to remote control application:

