



**INSTRUCTIONS PERTAINING TO RISK OF FIRE OR INJURY TO PERSONS. READ ALL INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.**

**DANGER - RISK OF SHOCK - DISCONNECT POWER BEFORE INSTALLATION! Please read all instructions before installation.**

- Keep these instructions for future reference.
- Must be installed by a qualified electrician in accordance with national and local standards. Designplan is not responsible for fixtures installed without regard to these standards.
- Unauthorized alterations or tampering of product voids warranty.
- The main power connection must be in accordance with local electrical codes.
- Suitable for OUTDOOR applications.



**IP67 IK10**

## Electrical Connections:

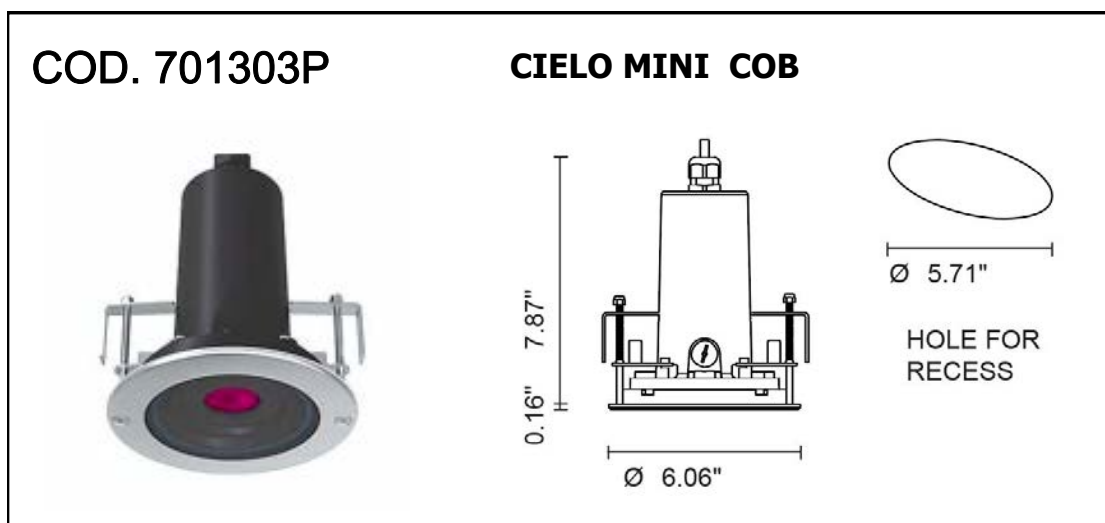
- LED lights must be **connected in parallel** respecting polarities.
- **CHOOSE POWER SUPPLY ACCORDINGLY.** Please consider the voltage through which fixtures are fed as well as the max power consumption.
- **Connect power only if all the fixtures are connected.**
- The power supplies **MUST** be installed in aerated rooms, far from heat sources. Overworking or lack of air circulation will not permit natural dissipation.
- Use only Class 2 type electronic power supply.
- Never use switches on secondary circuit.

## Maintenance

Scheduled maintenance must be carried out once a year on all lighting devices, regardless of appliance class and type of use. It must include the following operations:

- Periodically clean fixtures to remove dirt from gratings and screw heads.
- Check tightness of screws on various parts of the device.
- Check that all cable glands and cables are intact and tight. Check that the glass or plastic lens is intact, and replace it if broken or damaged.
- The internal components such as the ballast, driver, washers and screws must not show clear signs of oxidation or rust. Clear traces of rust and oxidation will indicate the presence of water inside the device.
- In the case of damage, the components must be replaced by original components or spare parts.

## FIXTURE DIMENSIONS:



## ACCESSORIES



**AC116**  
Honeycomb Louver for Cielo Mini



**AC117**  
Glare Shield for Cielo Mini

## CIELO MINI

- The luminaire is supplied by us with LED illuminator already installed with built in SELV power supply.
- If the external flexible cable of this luminaire is damaged, it must only be replaced by the manufacturer, its assistance service, or equivalent qualified personnel, in order to avoid dangers.
- Luminaire for installation in restricted access areas
- The cable and the fixture must not be tampered with for any reason.
- It is essential to do a frequent cleaning of the glass and of the outer surface of the fixture to avoid build up of mud and dirtiness resulting in dangerous overheating due to incorrect light and heat dissipation. Clean carefully the glass screen removing limestone deposits by means of a scraper.
- The replacement must be done by a qualified electrician.
- To replace the LEDs, contact the company.

## Recommendations

- 1) use the cables, connectors and quality materials for electrical wiring
- 2) Products with IP65/68 degree make the wiring / connections with accessories provide the same degree IP of the selected product (available in the catalog);
- 3) In the case of installations outside is not recommended to install the power supplies in the formwork and / or in the junction box without adequate protection
- 4) Terminal block not included. Installation may require advice from a qualified person. For wiring use a terminal complies with EN60998-2-1, EN 60998-2-2

## Choice of installation location

The unit should be positioned so that when in use is not subject to direct radiation from the sun or other heat sources. High temperatures reduce the life and efficiency of the components or the LED module.

## Note on corrosion protection

- Install recessed in the ground so that water can flow away from the surface of the device. Both for the recessed directly in the ground, both for the use of a recessed housing, it is necessary to perform a further drainage, for example, using a bed of gravel.
- For installation and maintenance must be especially careful not to damage the coating powder. Damage combined action of water could cause corrosion.

Recommend mounting the device to the floor with a pH value between 5 and 8. In ambient environment the assembly and maintenance of all components require the appropriate security measures . The chemicals damage the corrosion protection

## INSTALLATION:

### - SWITCH-OFF THE POWER SUPPLY BEFORE CARRYING OUT ANY MAINTENANCE OPERATIONS

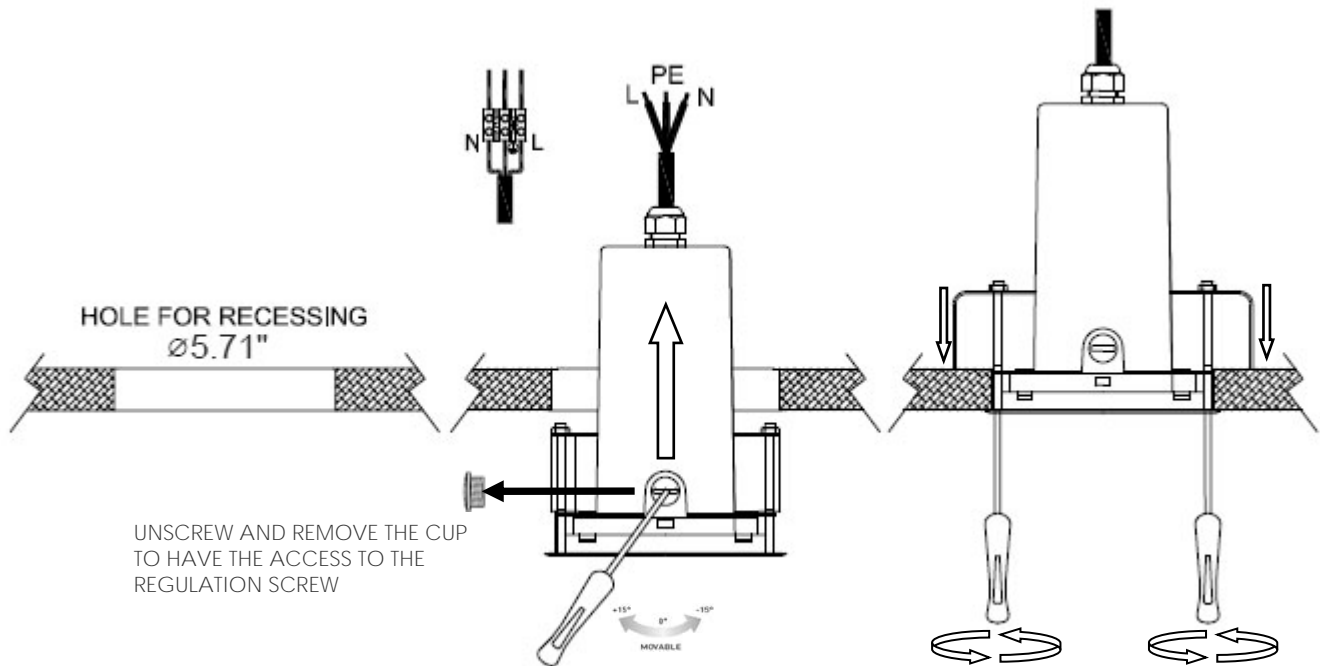
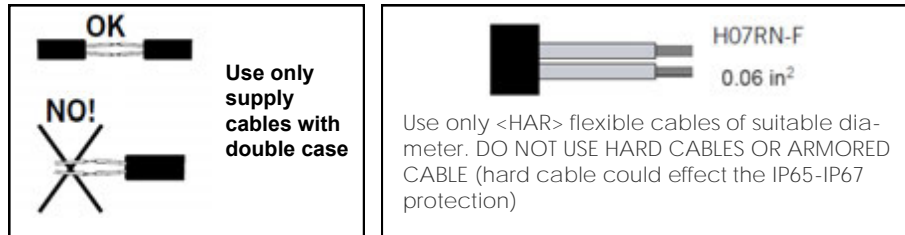
1. Prepare a hole for recessed diam 5.71" (tolerance +0.02-0.02 in)
2. Connect the power cable to the initial power supply line using the appropriate connector, regulate the light beam position, acting on the lateral screw by a screwdriver (before unscrew and remove the covering cup)
3. Insert the device into the ceiling tighten the two screws on the front ring .

# CIELO MINI DMX RGBW

4.5W, REMOTE 24VDC

designplan®

installation instructions



See the connector accessory instruction

CLASS I



(NOT SUPPLY)

L	Life	Brown
N	Neutral	Blue
⊕	Earth	Yellow-Green

CLASS III 24VDC



See the connector accessory instruction



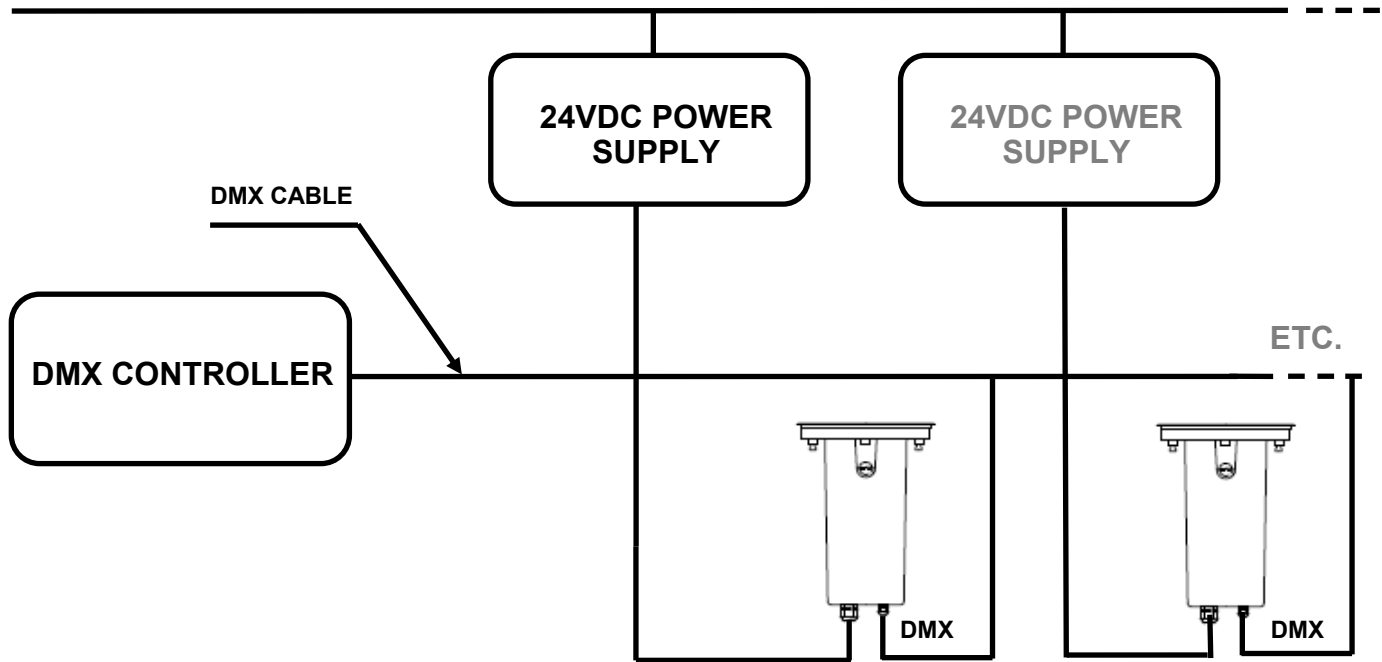
(NOT SUPPLY)

BROWN WIRE + Positive

BLUE WIRE— Negative

## WIRING DIAGRAM WITH DMX CONTROLLER FOR CIELO MINI HP DMX RGBW

120VAC



DMX/RDM is a robust and reliable system for lighting control. However, if not implemented correctly, problems can arise such as random flashing of lights, erratic operation and delays in responding to commands. This document explains the best practices in DMX wiring.

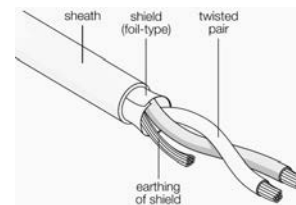
The DMX controller sends signals over the DMX cable to the drivers. At the last driver, the cable has to be terminated with a 120Ω resistor to prevent reflections of the signal.

Important things to consider are:

- Always use cable specifically designed for DMX / RS-485. These cables have an impedance of 120Ω and a low capacitance.
- For instance: Belden 9841 or 3105a.

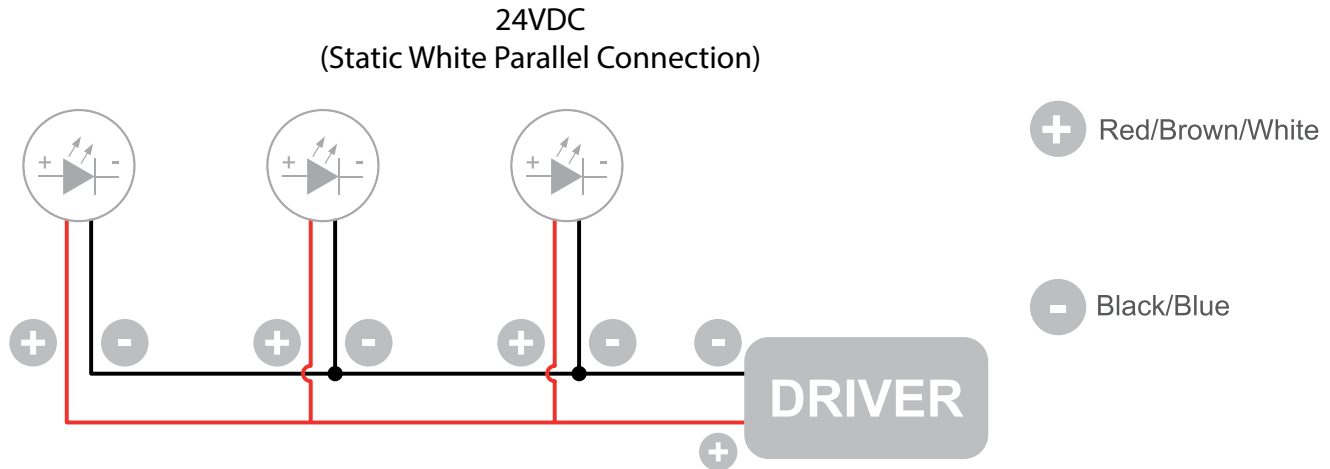
**Belden 9841 cable**

DMX must be terminated with a 120Ω resistor to prevent reflections.



- A daisy chain topology should be used.
- After 32 unit loads a repeater/booster should be used.
- Keep cabling below 984.25 feet between the controller and the last driver.

## Wiring Diagram



The individual lamps must be connected in parallel. Only power up the system once all the lamps have being connected.

- Only power up the system once all the lamps are connected. Connecting an individual lamp to an active power supply may cause the lamp to break due to over-voltage.
- Lamps and power supply units must be installed in well-ventilated boxes or locations to allow a natural heat diffusion and avoid the devices overheating.
- On the power system, install a surge protection device to reduce the intensity of any voltage spikes to protect the lighting fixtures from the risk of damage.
- Fixture NOT suitable for covering with thermally insulating material.