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## PLCYC LED Luminaires

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PLCYC LED Luminaire Installation & User's Manual

# IMPORTANT INFORMATION

## Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:

   a.  **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**.

   b.  Do not use outdoors.

   c.  Do not mount near gas or electric heaters.

   d.  Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

   e.  The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

   f.  Do not use this equipment for other than intended use.

   g.  Refer service to qualified personnel.

**SAVE THESE INSTRUCTIONS**.

**WARNING**: You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

**WARNING**: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

**WARNING**: This equipment is intended for installation in accordance with the National Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

## Additional Resources for DMX512

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522). USITT Contact Information:

> **USITT**
> **315 South Crouse Avenue, Suite 200**
> **Syracuse, NY 13210-1844**
> **Phone: 1.800.938.7488 or 1.315.463.6463**
> **www.usitt.org**

## Philips Selecon Limited Three-Year Warranty

Philips Selecon offers a three-year limited warranty of its luminaires against defects in materials or workmanship from the date of delivery. A copy of the Philips Selecon three-year limited warranty containing specific terms and conditions can be obtained from the Philips Selecon web site at www.seleconlight.com or by contacting your local Philips Selecon office.

PLCYC LED Luminaire powerful LED engine offers exceptional performance and life. Under normal operating conditions, our LED engine has a life expectancy in excess of 50,000 hours, however under worst case operating conditions with the luminaire set to continuous full output it is possible that a small percentage of LED's may require replacement sooner. The Philips Selecon three-year limited warranty includes our guarantee against premature failure of the LED engine.

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# TABLE OF CONTENTS

**PHILIPS**

**Selecon**

# PREFACE

## 1. About this Manual

The document provides installation and operation instructions for the following products:

• PLCYC LED Luminaire (PLCYC1-03).

Please read all instructions before installing or using this product. *Retain this manual for future reference*. Additional product information and descriptions may be downloaded at www.seleconlight.com

**Note:** All PLCYC LED Luminaires are universal voltage (100VAC to 240VAC, Auto-ranging).

## 2. Accessories

Contact your Authorized Philips Selecon Dealer for price and availability of all accessories for PLCYC LED Luminaires. Additional information can be found on the Philips Selecon web site at www.seleconlight.com.

### PLCYC LED Luminaire Power Input Cables

| Part Number | Description |
|---|---|
| PC1BE | PLCYC LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon without Connector (user to supply AC connector) |
| PC1GP | PLCYC LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Stagepin Connector |
| PC1GTL | PLCYC LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Twistlock Connector |
| PC1GR | PLCYC LED Luminaire AC Power Input Cable (39 inches / 1 meter), Powercon with Edison Connector |
| PC3PC | PLCYC LED Luminaire PowerCon Male to PowerCon Female 2.5 Meter Cable for interconnection between units |

### PLCYC LED Luminaire Wireless DMX512 Receivers

| Part Number | Description |
|---|---|
| PLCYC1WDMX03 | W-DMX Wireless DMX512 Receiver (Wireless Solutions) Black |
| PLCYC1LDMX03 | Lumen Radio Wireless DMX512 Receiver Black |
| PLCYC1SDMX03 | City Theatrical Wireless DMX512 Receiver Black |

### PLCYC LED Luminaire Wireless DMX512 Transmitters

| Part Number | Description |
|---|---|
| PL1WDMXTR | W-DMX Wireless DMX512 Transmitter |
| PL1LDMXTR | Lumen Radio Wireless DMX512 Transmitter |
| PL1SDMXTR | City Theatrical Wireless DMX512 Base Transmitter |

### PLCYC LED Luminaire Clamps

| Part Number | Description |
|---|---|
| SC | Selecon Molded Yoke rated C-Clamp |
| MC | Mega Claw, Black Anodized |

### PLCYC LED Luminaire USB Luminaire Software Cable

| Part Number | Description |
|---|---|
| PLUPLD | USB Luminaire Software Programming Kit (for updating or reloading luminaire software only) - include USB to DMX dongle, Uploader Program, and Carry Bag |

# PLCYC LED LUMINAIRE OVERVIEW

## 1. PLCYC LED Luminaire Components

### Major Luminaire Components



*Front of Unit*                      *Rear of Unit*
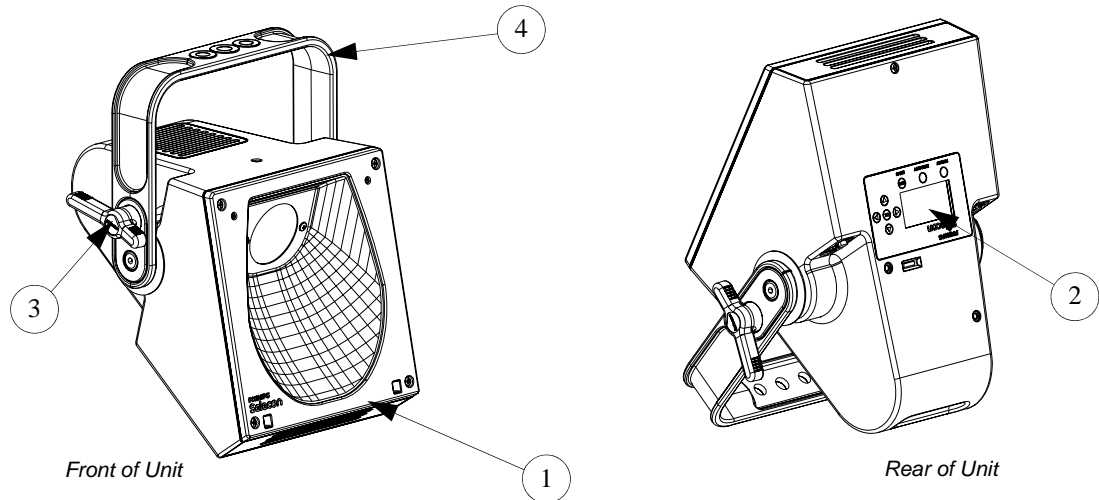
1) PLCYC LED Luminaire Head
2) LCD Display Menu System (see "LCD Display / Menu System" on page 5 for more information)
3) Tilt Axis Point / Locking Handle
4) Yoke / Mounting Point

**Figure 1: PLCYC LED Luminaire Components**

### Luminaire Connections and LCD Display



Rear View

Ⓐ PowerCon (AC) Input

Ⓑ PowerCon (AC) Output

Ⓒ DMX512 Input

Ⓓ DMX512 Output / Thru

Ⓔ Yoke Assembly

Ⓕ Yoke Adjustment / Locking Knob

Ⓖ LCD Display & Menu System
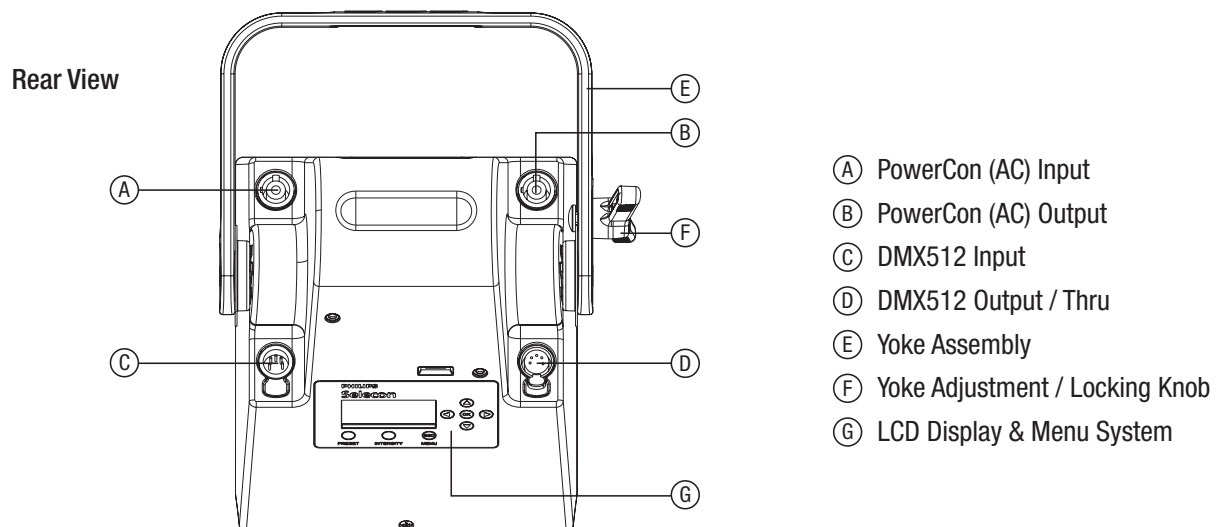
**Figure 2: PLCYC LED Luminaire - Rear View**

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## LCD Display / Menu System
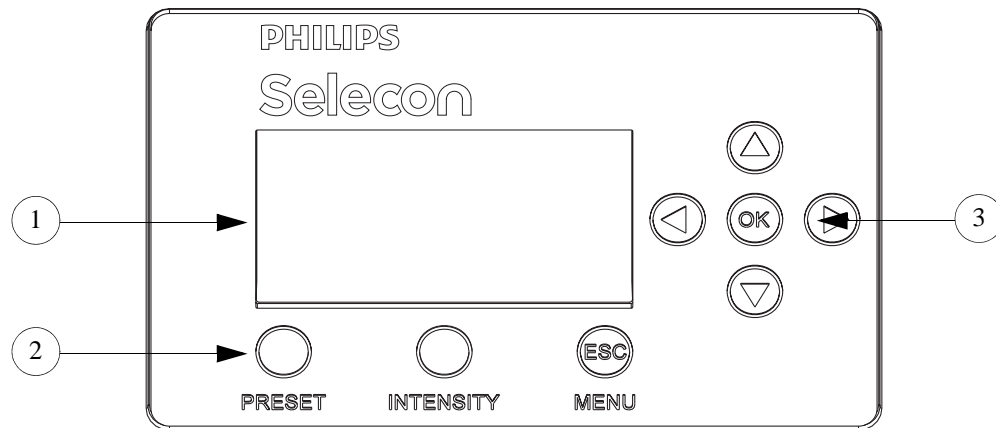


1) LCD Display (Menu System)
2) Preset / Intensity / Menu Access Buttons
3) Function (Menu System) Select Push Buttons

**Note:** For Menu operation and programming details, refer to "LCD Menu Operation" on page 9.

**Figure 3:  PLCYC LED Luminaire LCD Display & Menu System**

# INSTALLATION AND SET UP

## 1. Power Requirements

The PLCYC LED Luminaire operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Depending on supply voltage, each luminaire can draw up to 1.5 amps.

**Table 1: PLCYC LED Luminaire Voltage vs. Current**

| Voltage (AC) | Total Current (A) | Maximum number of units that can be linked together* | Voltage (AC) | Total Current (A) | Maximum number of units that can be linked together* |
|:---:|:---:|:---:|:---:|:---:|:---:|
| 100 | 1.50 | 13 | 180 | 0.83 | 24 |
| 110 | 1.36 | 14 | 190 | 0.79 | 25 |
| 120 | 1.25 | 16 | 200 | 0.75 | 26 |
| 130 | 1.15 | 17 | 210 | 0.71 | 28 |
| 140 | 1.07 | 18 | 220 | 0.68 | 29 |
| 150 | 1.00 | 20 | 230 | 0.65 | 30 |
| 160 | 0.94 | 21 | 240 | 0.63 | 32 |
| 170 | 0.88 | 22 | | | |

**WARNING!** *These figures are based on the Maximum Allowable Input Current of 20 Amps (and the maximum power supply limit of 150 Watts). **Do not overload circuits!***

## 2. Connecting Power

Units can be powered in one of two ways:

• Direct connection to a AC power source using an AC input cable.

• Daisy chain connection using a interconnect AC cable.

AC Input Connection        AC Output Connection
*(to next luminaire, optional)*
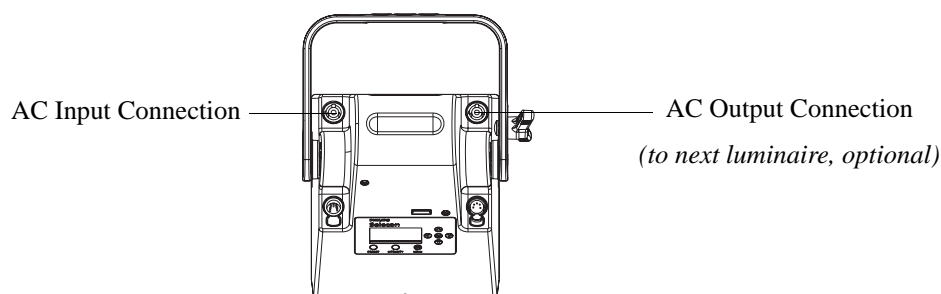
IMPORTANT AC POWER CONNECTION NOTES:

a. When using the daisy-chain connection method, ONLY connect PLCYC LED Luminaires to AC Output Connection of PLCYC LED Luminaires. DO NOT CONNECT OTHER TYPES OF LUMINAIRES OR DEVICES!

b. Use only use approved cable types.

c. Do not overload circuits!

d. Do not connect PLCYC LED Luminaires to dimmed circuits.

e. The MAXIMUM allowable number of PLCYC Luminaires which can be 'daisy-chained' on one power feed are listed in Table 1, above. DO NOT EXCEED!

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If the unit is supplied with an AC input cable but you did not order an AC input connector, Table 2 describes how to connect power to your PLCYC LED Luminaire. Field wiring of the PLCYC LED Luminaire is straight forward. A total of 3 wires/conductors need to be brought to the unit. The following wiring scheme is required:

**Table 2:** PLCYC LED Luminaire AC Input Connections

| Wire Color | Purpose |
|---|---|
| Brown | Main / Line (120 to 240VAC) |
| Blue | Neutral |
| Green/Yellow | Ground |

Neutral

Main / Line

AC Input Connector
(on back of unit)

Ground / Earth
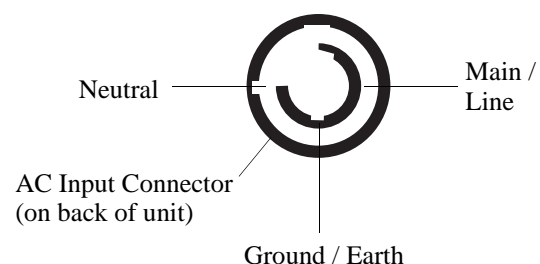
## 3.   Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple PLCYC LED Luminaires together (up to 30 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first PLCYC LED Luminaire. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next PLCYC LED Luminaire (or DMX512 device to be controlled).

**Note:**  For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 1. For PLCYC LED Luminaire DMX Mapping, refer to "DMX CONTROL" on page 17.

PLCYC LED Luminaires

DMX512
*(from console or
control device)*

DMX512 *(out from first
to second luminaire)*

DMX512 *(out to the next luminaire or DMX512
controlled device)*
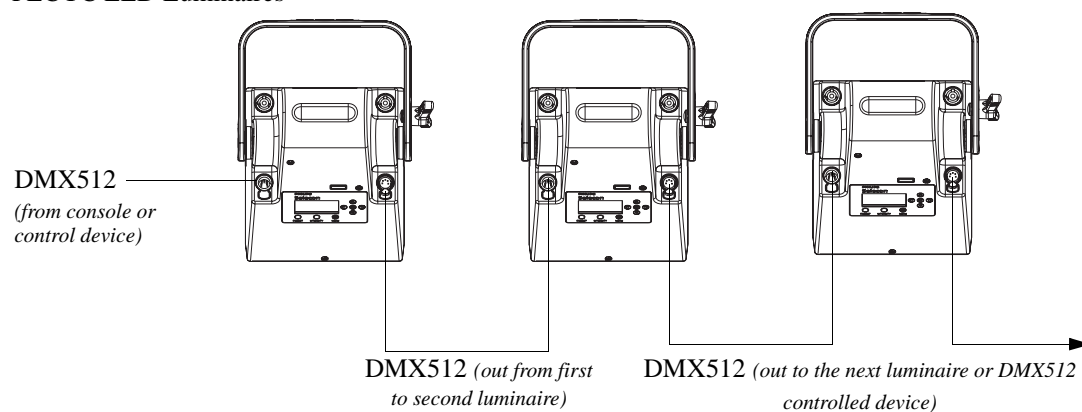
| DMX512 Connections | | | | | | |
|---|---|---|---|---|---|---|
| **Data Thru** Cable Pinout | **Pin 1** Common (Drain) | **Pin 2** Data (-) | **Pin 3** Data (+) | **Pin 4** Not Used | **Pin 5** Not Used | **Data In** Cable Pinout |
| 1  5 2   4 3 Male Conn | | | | | | 5  1 4   2 3 Female Conn |

**Figure 4:  PLCYC LED Luminaires - DMX512 Connections**

## 4.   Mounting

PLCYC LED Luminaires offer a plastic monocoque yoke design for mounting by theatrical clamps or hooks (sold separately).

For optimum performance and use, PLCYC LED Luminaires should be mounted and spaced as shown in **Figure 5**.

**How to read Figure 5:**

- *S = Spacing between fixtures*
- *D = Distance from fixture to projection surface.*
- *A ratio of S = D x 0.9 is the formula used to calculate the optimum spacing for these fixtures.*

⚠ **WARNING!**  Before attempting any installation or service, disconnect all power at power source. Turning off the output of the luminaire does not disconnect power. Installation and service should only be performed by a trained and qualified professional. Be sure to check circuit capacity before installing luminaires.
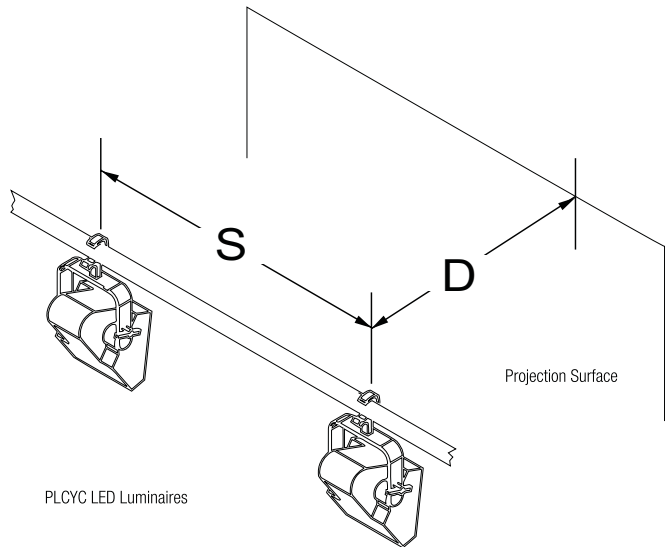


**Figure 5:  PLCYC LED Luminaire Hanging / Spacing**

## 5.   Tilt Adjustments

**To adjust luminaire tilt position:**

Step  1.   As shown in **Figure 6**, at tilt locking handle, loosen handle by twisting to the left.
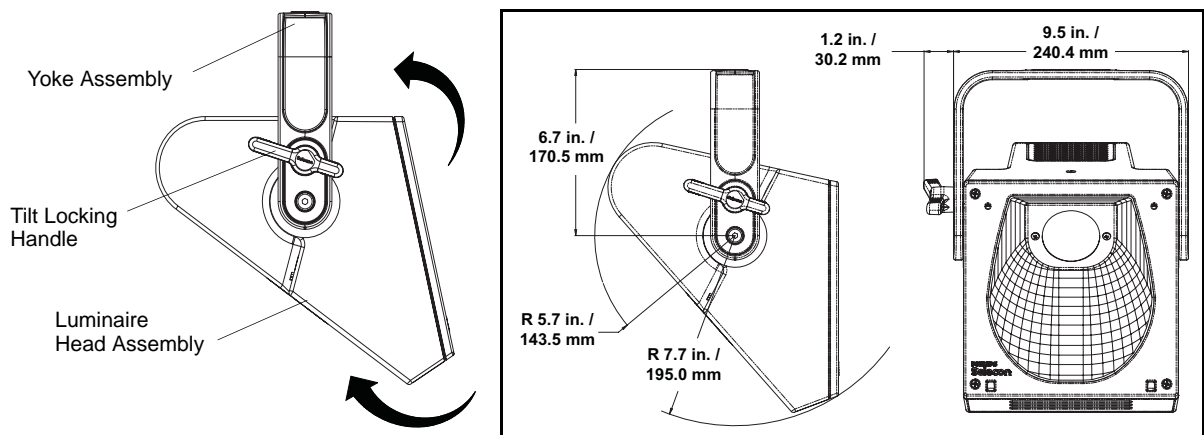


**Figure 6:  Tilt Adjustments**

Step  2.   Position tilt (up or down) luminaire head assembly as desired.

Step  3.   Hand-tighten, but do not over tighten, tilt locking handle.

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# OPERATION AND PROGRAMMING

## 1.  LCD Menu Operation

The PLCYC LED Luminaire's LCD Display and Menu System provides local control for accessing all the fixture's status information, menu options, and settings.

Note:  If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired.

Upon power up, the LCD will display the main screen showing the product type/name. If DMX is enabled, the programmed address will appear after power up.

**LCD Display** -
Displays all menu parameters and option settings. Also displays DMX512 address (DMX models only).

**Escape Button** -
Enters menu options. Navigates (backs up) one menu level.

**PRESET Button** -
Allows the recall of stored presets.

**INTENSITY Button** -
Allows the customization of current intensity (light output). Note, using the LEFT and RIGHT arrow buttons you can select each RGBW channel individually and change their intensity using the UP and DOWN arrows.

**Up/Down/Left/Right Arrow Buttons** -
Navigates menu system and used for selecting and setting options.

**OK (Enter) Button** -
Accesses details, activates a field, or enters a setting depending on the current menu item.

**Figure 7:  LCD Display and Menu System**

## 2. LCD Menu System

The LCD Display Menu system consists of several categories. Use the four arrow buttons as required (refer to **Figure 7 on page 9**) to access and make changes to the menu items. When the desired menu item is reached, press [OK] to display the menu options. Use navigation and [OK] buttons to view status and configure the LCD Menu as required.

**Note:** Depending on the security settings, certain menu items may be password protected. You must have the set PassPIN in order to access these items. Locked items will have a "Key" icon displayed next to them.

**To navigate and access menu settings/selections:**

Step  1.  At Main Menu, press [ESC] / [MENU] button once. A small window will appear over Main Menu with sub-menu categories:

      a. Save as Preset

      b. Edit a Preset

      c. Color Mix

      d. Fan Control

      e. Settings

      f.  Lock Fixture

      g. Enter Password

      h. LED Status

Step  2.  Press [OK] at desired menu item to access and make changes.

Step  3.  Make changes as desired.

**Note:** For complete menu structure and available options, see .

**Note:** When DMX512 signal is present, Edit Preset and Color Mix options will not appear in menu structure.

**To navigate fixture status menus:**

Step  1.  At Main Menu, press LEFT or RIGHT arrow button once. Main menu screen will change to fixture status screen will appear as follows (note, depending on which arrow button is pressed, status screens may appear in reverse order):

      a. DMX Address (note, if fixture is UNLOCKED, hit [OK] to change DMX address)

      b. Fixture Hours (displays fixture operating hours since last reset)

      c. Fixture Power (displays Max Power Limit setting (in Watts), Present Power consumed by fixture (in Watts), and Hours of Use)

      d. Fixture Status (displays current operational temperature, LED status, and fan speed setting)

Step  2.  Press LEFT or RIGHT arrow buttons to scroll through status screens.

Step  3.  Press [ESC] at anytime to access menu settings. See .

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## Menu Structure



LCD Display /
Menu System

MAIN MENU

**Save as Preset**

| Sub Menu | Options | Comments |
|---|---|---|
| Select Preset to Save - *(Option)*<br><br>*Scrolls and sets current user-defined color mix to various recallable presets in the fixture using arrow buttons.*<br><br>*Note: To edit a current (set) preset, see Edit Presets.* | Off | Users can:<br>• Save the current settings (look) to a specific recallable Preset in the fixture's memory.<br>• Edit the levels (values) for Red, Green, Blue, White, and Intensity values (in percent%) by using the arrow buttons. Once the values are adjusted, the preset is saved as desired.<br><br>*Only intensities may be stored on White Color Temperature presets. RGBW in these presets cannot be edited or changed. |
| | Scratch Pad | |
| | Warm White* | |
| | Cool White* | |
| | Day Light* | |
| | Preset X (5 through 31) | |

*Continued next page*

**Note:** See to learn how to access menus. To save changes, hit [OK]. Press [ESC] to cancel any changes you made.

## Menu Structure (continued)

*Continued from previous page*

### Edit a Preset

| Sub Menu | Options | Comments |
|---|---|---|
| Select Preset to Edit - *(Option)*<br><br>*Selects a current preset and outputs the preset, so preset can be edited.*<br><br>*Note: To save a specific look of the fixture, see Save Presets.* | Off | Users can:<br>• Edit the current settings (look) to a specific recallable Preset in the fixture's memory.<br>• Edit the values for Red, Green, Blue, White, and Intensity values (in percent%) by using the arrow buttons.<br>• Once the values are adjusted, the "Save Preset" menu option appears to save the edits.<br><br>NOTES:<br>*Only intensities may be stored on White Color Temperature presets. RGBW in these presets cannot be edited or changed.<br><br>**If a Calibrated Preset's Color Mix is changed (5 thru 25), an asterisk '*' is appended to the end of the name to indicate that it has been modified. This only happens if the name matches the original calibrated name, stored in EEPROM. This does not happen if the Intensity is changed, only the color mix. |
| | Scratch Pad | |
| | Warm White* | |
| | Cool White* | |
| | Day Light* | |
| | Preset X (5 through 31)** | |
| *Note: When DMX512 signal is present, Edit a Preset option will not appear in menu structure.* | | |

### Color Mix

| Sub Menu | Options | Comments |
|---|---|---|
| Select Color or Intensity to Adjust - *(Option)* | Red | Users can:<br>• Edit Red, Green, Blue, White, and Intensity values (in percent%) by using the arrow buttons.<br>• Once the values are adjusted, press [OK] to save the edits. |
| | Green | |
| | Blue | |
| | White | |
| | Intensity | |
| *Note: When DMX512 signal is present, Color Mix option will not appear in menu structure.* | | |

### Fan Control

| Sub Menu | Options | Comments |
|---|---|---|
| Select and Set Fan Speed - *(Option)*<br><br>*Note, hit Cancel to cancel any changes you made.* | Max | Highlight "Max" button and hit [OK] button on menu. Sets the maximum speed of the fan. |
| | Level | Level sets the fan to a constant speed (will not vary). Adjust level (on fan speed level bar) using Left and Right arrow buttons, highlight "Level" button in menu, and hit [OK] on menu to use user-defined level. |

*Continued next page*

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## Menu Structure (continued)

*Continued from previous page*

### Settings

| Sub Menu | Options | Comments |
|---|---|---|
| SETTINGS - *(Option)*<br><br>*Scrolls and sets the various fixture settings using arrow buttons.* | See "Settings" on page 15 for details. | |

### Lock Fixture

| Sub Menu | Options | Comments |
|---|---|---|
| LOCK - Are you sure? | Yes (to Lock Fixture) / No | Use arrow buttons to make selection. Press [OK] to accept. Note, a password must be established (set) in order to lock a fixture. Locking the fixture will disable access to changing menu settings. |

### Enter Password

| Sub Menu | Options | Comments |
|---|---|---|
| Enter Pass PIN | Enter four-digit password | For details, refer to "Security" on page 13. |

### LED Status

| Sub Menu | Options | Comments |
|---|---|---|
| LED Status Information<br><br>*Scrolls through the various levels using arrow buttons as indicated on menu screen. Depending on the arrow button pressed, the screens may appear in a different order that shown in "Options".* | LED 1 | Displays LED's current status (in percentage%) of Intensity, Red, Green, Blue, and White elements of the LED). Also displays current color temperature (i.e., WARM WHITE), Fan Speed, operational LED junction temperature, power settings. |
| | Levels | Displays DMX levels for each LED element (Red, Green, Blue, and White) and total power. |

## 3.  Security

Unwanted changes to the Fixture's Configuration or Setting can be controlled by setting a security level, or Locking the Fixture. Three levels of security are available in addition to completely Locking the Fixture.

PLCYC LED Luminaires are shipped with default passwords. Users may set their own password (four-digit number). When setting a password, write it down and keep it in a secure location. Note, Philips Selecon does not have records of passwords established by users or owners.

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**Note:**  Contact Philips Selecon technical support if a unit is locked and the password is lost for instructions on how to reset luminaire.

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**Note:**  If the Fixture is locked when it is powered down the fixture will remain in the locked state when powered up.

### Passwords

**Establishing or Changing Passwords**

Step  1.  At a Status Screen, press [MENU] and scroll to "Settings", press [OK].

Step  2.  Go to the Security section.

Step  3.  Select a Level to change ( Level 1 PIN / Level 2 PIN / Level 3 PIN).

Step  4.  Press [OK] to edit using the [UP ARROW], [DOWN ARROW], [LEFT ARROW] or [RIGHT ARROW] keys to enter a four-digit password (using 0 to 9).

Step  5.  Press [OK] to save changes. If you hit [ESC] (Escape) password will not be stored and process must be repeated.

Step  6.  Password is set.

**Note:**  The current security level is displayed next to the Security heading. Only Passwords at, or below, that level will be displayed for modification. The level can be changed by entering a higher level Password on the "Enter PassPIN line directly below the Security heading, like Step 4 above.

## Security Levels

| Security Level | Description | Default PassPIN |
|---|---|---|
| 0 | System is locked; the only key that is active is the Menu/ESC Key.  When this key is pressed a PassPIN is requested. | Not Applicable |
| 1 | All keys are Active.<br>You can select any Preset, and change Intensity, set DMX Address. | 1111 |
| 2 | Editing and Saving of Presets is added to Level 1 functionality. | 2222 |
| 3 | Operationally the same as level 2, however all settings are available on the Settings screen. | 3333 |

## Locking Fixture

**To lock the fixture:**

Step  1.  At a Status Screen, press [MENU] and scroll to "Lock Fixture".

Step  2.  Press [OK].

Step  3.  Use [LEFT ARROW] or [RIGHT ARROW] keys to highlight "YES" ", press [OK].

Step  4.  Fixture is now locked.

**Note:**  When the Fixture is Locked only the [ESC]/[MENU] key is functional. Pressing this key will display a request for a password. When a valid password is entered the fixture is unlocked to the security level of the entered password.

# 4.   Presets

Presets are Color Mixes that are stored in the Fixture, they can be recalled to reproduce a specific output from the fixture. Presets are made up of a Color Mix; Red, Green, Blue, and White. They also have Intensity associated with them.

Presets can be recalled via the User interface or by a DMX channel, when under DMX control. The Preset's Intensity is applied if the User Interface is used; if DMX, the DMX Intensity channel is used for Intensity.

## Presets Types

Presets are classified as Locked, Protected, or User. The type of preset determines what aspects of the Preset can be modified.

### Locked

Locked Presets are factory Calibrated, and their Color Mix cannot be changed by the user. Their Intensity can be changed. Three Presets (2-4), "Warm White', "Cool White", and "Day Light", are Locked.

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Preset 0, the "off" preset is also Locked to the OFF value.

### Protected

Protected Presets are also Factory Calibrated, and by default are Protected from changes to their Color Mix. Their Intensity can be changed. Protected Presets are Presets 5-25. They can be Un-Protected by setting "Protected" to "No"; see section on Settings. If Un-Protected these presets function like User Presets.

The Factory Calibrated values for the protected presets can be re-loaded to the original factory calibration settings by setting "Load Factory" to "Yes" "; see section on Settings.

### User

User Presets can have their Color Mix and Intensity changed without restriction.

**Note:** If the Color Mix of a Factory Calibrated Preset is changed, by turning protection Off, an '*' is appended to the end of the Preset's Name to indicate that the Calibrated values have been changed.

## Editing Preset Names

On the Edit Preset screen, the option is available to edit the name of a preset, via Screen button. However, the names of Presets 0-4 cannot be edited.

Use the [LEFT ARROW] and [RIGHT ARROW] keys to select the character to be changed and use the [UP ARROW] and [DOWN ARROW] keys to change that character. The Character Scroll order is A-Z, space, 0-9. If you are scrolling up the Alpha character displays as Upper Case; if you are scrolling down the Alpha character displays as Lower Case. Stop on the character you want, ignoring case, then press the opposite [UP ARROW] or [DOWN ARROW] key if you want to change the case. [OK] to save changes, [ESC] to cancel changes.

## 5.  Settings

The following Parameters can be changed on the Settings Screen.

The first column "Security Level" is the minimum security level you have to be at before the line is displayed for editing in the Settings screen.

To edit a value on the Setting Screen, use the [UP ARROW] or [DOWN ARROW] keys to move the highlight to the settings value you wish to change. Press [OK] to begin editing that value. Use the [UP ARROW], [DOWN ARROW], [LEFT ARROW] or [RIGHT ARROW] keys to make changes to the value. Press [OK] when complete to save changes, or [ESC] to cancel changes to that value.

When done making changes on the Settings Screen press [ESC] to re-boot fixture and implement changes. Fixture will not re-boot if nothing was changed.

| Security Level | Parameter | Values | Default | Description |
|---|---|---|---|---|
| **Security** | | | | |
| 1 | Enter PassPIN | 4-Digits (0 to 9) | **** | There are 4 levels of security, this allows you to change the level while in the Settings Screen. |
| 3 | Level 1 PIN | 4-Digits (0 to 9) | 1111 | Sets Level 1 PassPIN |
| 3 | Level 2 PIN | 4-Digits (0 to 9) | 2222 | Sets Level 2 PassPIN |
| 3 | Level 3 PIN | 4-Digits (0 to 9) | 3333 | Sets Level 3 PassPIN |
| 3 | Power-Up | 1 - 3 or Locked | 3 | Security Level after Power-Up, if not Locked (Level 0) |

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**General**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Power Limit | 30W, 40W, 50W, 70W, 90W, 100W, 120W | 120W | Sets the maximum power setting of the LED engine. |
| 1 | Power-Up | Off, Scratch Pad, Warm White, Cool White, Day Light, Preset30, Preset31, Last Set | Cool White | When the Fixture Powers-Up what does it output. Scratch Pad is an automatically saved Preset. Last Set is the last thing coming out of the fixture, this could be Warm White with the intensity changed from that of the Preset. |
| 3 | Reset Hours | No, Yes | No | Resets luminaire's operational hours. |

**Presets**

| | | | | | |
|---|---|---|---|---|---|
| 3 | Protected | No, 5 - 25 | Yes | Determines if the factory Calibrated Presets' Color Mix is protected from changes. |
| 3 | Load Factory | No, Yes | No | Reload Factory Calibrated Presets, Intensity changes will also be reloaded. |

**DMX**

| | | | | | |
|---|---|---|---|---|---|
| 3 | DMX Enabled | No, Yes, or Wireless (if equipped) | Yes | Enables or disabled DMX communication through the luminaires DMX512 ports. Sets the DMX feature to Wireless DMX (if wireless DMX option is installed - sold separately). |
| 1 | Address | 001 to 512 | 001 | DMX512 address. Note, it can be set if displayed. |
| 2 | Map | 8-bit, 16-bit, or 3-Chan | 16-bit | Defines size/precision of DMX map. Color Mixing/Intensity in 16-bit provides higher resolution for precision control. 3-Chan provides minimal channel usage. |
| 2 | When no DMX | Off, Hold, Hold 8hr *(8 hours)*, or Power-Up | Hold | If DMX is detected and then goes away, this defines what will happen to the output. At end of 8Hr hold Fixture goes to Power-Up setting. |

**Fan**

| | | | | | |
|---|---|---|---|---|---|
| 3 | Normal / Quiet | Normal or Quiet | Quiet | Normal - Normal Mode Provides higher cooling margin for thermally challenging applications. Recommended for full power (RGBW @ 100%) applications with large and numerous changes in power. Quiet - (Quiet Mode) Quite Mode is similar to Normal mode, but it controls fan tightly to reduce fan noise. |
| 3 | Max% | 0 to 100% | 100 | Sets the maximum fan speed |
| 3 | Min% | 0 to 100% | 1 | Sets the minimum fan speed |

**Display**

| | | | | | |
|---|---|---|---|---|---|
| 3 | Flip Display | No, Yes | No | Flips (inverts) Display and Keypad Arrows. |

**Note:** To Exit the Settings screen, use the [ESC] key. [ESC] and [OK] can be used to cancel or save changes to an individual parameter. However, once a parameter has been accepted, by pressing [OK] that change cannot be undone/ canceled by pressing the [ESC] key.

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# DMX CONTROL

This section contains information for operating the luminaire using DMX control in 16-Bit, 8-Bit, or 3-Channel (3-Chan) modes. For Menu options and detailed information, see "Settings" on page 15.

**Note:** These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

## 1.   16-Bit Mode

Table 3 provides DMX channel mapping of all DMX512 control values when the PLCYC LED Luminaire is in 16-bit DMX512 mode (as set by the luminaire's menu system).

### Table 3: PLCYC LED Luminaire DMX Channel Mapping (16-Bit Mode)

| DMX Channel | Parameter | Range DMX | Range% | Default - recommended console default values | Description |
|---|---|---|---|---|---|
| 1 | Intensity - High | 0 - 65535 | 0 - 100% | 0 | 16-bit control for Intensity of LED settings. |
| 2 | Intensity - Low | | | | |
| 3 | Red - High Byte | 0 - 65535 | 0 - 100% | 0 | 16-bit control of Red LEDs from 0 to full. |
| 4 | Red - Low Byte | | | | |
| 5 | Green - High Byte | 0 - 65535 | 0 - 100% | 0 | 16-bit control of Green LEDs from 0 to full. |
| 6 | Green - Low Byte | | | | |
| 7 | Blue - High Byte | 0 - 65535 | 0 - 100% | 0 | 16-bit control of Blue LEDs from 0 to full. |
| 8 | Blue - Low Byte | | | | |
| 9 | White - High Byte | 0 - 65535 | 0 - 100% | 0 | 16-bit control of White LEDs from 0 to full. |
| 10 | White - Low Byte | | | | |
| 11 | Preset Color Selection | 0 - 255 | 0 - 100% | 0 | Used to access presets stored in fixture firmware, such as CCT presets, defined gel presets, etc.<br>No Preset Activated = DMX 0-3 (DEFAULT)<br>Color Preset 0 (Off) = DMX 4 - 7<br>Color Preset 1 (Scratch Pad) = DMX 8 - 11<br>Color Preset 2 (Warm White) = DMX 12 - 15<br>Color Preset 3 (Cool White) = DMX 16 - 19<br>Color Preset 4 (Daylight) = DMX 20 - 23<br>Color Preset 5 (Arc White) = DMX 24 - 27<br>Color Preset 6 (Red) = DMX 28 - 31<br>Color Preset 7 (Yellow) = DMX 32 - 35<br>Color Preset 8 (Daylight Blue) = DMX 36 - 39<br>Color Preset 9 (Magenta) = DMX 40 - 43<br>Color Preset 10 (Aqua) = DMX 44 - 47<br>Color Preset 11 (Medium Amber) = DMX 48 - 51<br>Color Preset 12 (Lavender) = DMX 52 - 55<br>Color Preset 13 (Blue) = DMX 56 - 59<br>Color Preset 14 (Light Pink) = DMX 60 - 63<br>Color Preset 15 (Green) = DMX 64 -67<br>Color Preset 16 (Pink) = DMX 68 - 71<br>Color Preset 17 (Amber White) = DMX 72 - 75<br>Color Preset 18 (Dark Fuchsia) = DMX 76 - 79<br>Color Preset 19 (Light Amber) = DMX 80 - 83<br>Color Preset 20 (Steel Blue) = DMX 84 - 87<br>Color Preset 21 (Lt. Green/Blue) = DMX 88 - 91<br>Color Preset 22 (Orange) = DMX 92 - 95<br>Color Preset 23 (Medium Pink) = DMX 96 - 99<br>Color Preset 24 (Cyan) = DMX 100 - 103<br>Color Preset 25 (Purple) = DMX 104 - 107<br>Color Preset 26 (Custom) = DMX 108 - 111<br>Color Preset 27 (Custom) = DMX 112 - 115<br>Color Preset 28 (Custom) = DMX 116 - 119<br>Color Preset 29 (Custom) = DMX 120 - 123<br>Color Preset 30 (Custom) = DMX 124 - 127<br>Color Preset 31 (Custom) = DMX 128 - 131 |
| 12 | *Not used (for future use)* | | | | |

## Table 3: PLCYC LED Luminaire DMX Channel Mapping (16-Bit Mode)

| | | | | | |
|---|---|---|---|---|---|
| 13 | Intensity Time | 0 - 255 | 0 - 100% | 255 | Allows for luminaire timing of intensity.  Profile should default to DMX 255 for smoothest console fade times. Refer to "PLCYC LED Luminaire DMX Timing Channel Detail" on page 22 for more information on timing values. |
| 14 | Color Time | 0 - 255 | 0 - 100% | 255 | Allows for luminaire timing of LEDs.  Profile should default to DMX 255 for smoothest console fade times.Refer to "PLCYC LED Luminaire DMX Timing Channel Detail" on page 22 for more information on timing values. |
| 15 | Control | 0 - 255 | 0 - 100% | 0 | Used to set different modes, parameters, and functions of the luminaire. Set control channel value for desired action. Hold value for at least 3 seconds. Set control channel value to 0 without any scaling.<br><br>Default Setting on Console = DMX 0<br>Display On/Off = DMX 3 - 4<br>Reset All to Defaults = DMX 5 - 7<br>Quiet Mode = DMX 11 - 13<br>Normal Mode = DMX 14 - 15<br>Preset 1 Store = DMX 20 - 21<br>Preset 2 Store (Intensity Only) = DMX 22 - 23<br>Preset 3 Store (Intensity Only) = DMX 24 - 25<br>Preset 4 Store (Intensity Only) = DMX 26 - 27<br>Preset 5 Store = DMX 28 - 29<br>Preset 6 Store = DMX 30 - 31<br>Preset 7 Store = DMX 32 - 33<br>Preset 8 Store = DMX 34 - 35<br>Preset 9 Store = DMX 36 - 37<br>Preset 10 Store = DMX 38 - 39<br>Preset 11 Store = DMX 40 - 41<br>Preset 12 Store = DMX 42 - 43<br>Preset 13 Store = DMX 44 - 45<br>Preset 14 Store = DMX 46 - 47<br>Preset 15 Store = DMX 48 - 49<br>Preset 16 Store = DMX 50 - 51<br>Preset 17 Store = DMX 52 - 53<br>Preset 18 Store = DMX 54 - 55<br>Preset 19 Store = DMX 56 - 57<br>Preset 20 Store = DMX 58 - 59<br>Preset 21 Store = DMX 60 - 61<br>Preset 22 Store = DMX 62 - 63<br>Preset 23 Store = DMX 64 - 65<br>Preset 24 Store = DMX 66 - 67<br>Preset 25 Store = DMX 68 - 69<br>Preset 26 Store = DMX 70 - 71<br>Preset 27 Store = DMX 72 - 73<br>Preset 28 Store = DMX 74 - 75<br>Preset 29 Store = DMX 76 - 77<br>Preset 30 Store = DMX 78 - 79<br>Preset 31 Store = DMX 80 - 81<br>Fixture Reset* = DMX 250 - 255 |

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## 2.  8-Bit Mode

Table 2-1 provides DMX channel mapping of all DMX512 control values when the PLCYC LED Luminaire is in 8-bit DMX512 mode (as set by the luminaire's menu system).

**Table 2-1: PLCYC LED Luminaire DMX Channel Mapping (8-Bit Mode)**

| DMX Channel | Parameter | Range DMX | Range% | Default - *recommended console default values* | Description |
|---|---|---|---|---|---|
| 1 | Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control for Intensity of LED settings. |
| 2 | Red | 0 - 255 | 0 - 100% | 0 | 8-bit control of Red LEDs from 0 to full. |
| 3 | Green | 0 - 255 | 0 - 100% | 0 | 8-bit control of Green LEDs from 0 to full. |
| 4 | Blue | 0 - 255 | 0 - 100% | 0 | 8-bit control of Blue LEDs from 0 to full. |
| 5 | White | 0 - 255 | 0 - 100% | 0 | 8-bit control of White LEDs from 0 to full. |
| 6 | Preset Color Selection | 0 - 255 | 0 - 100% | 0 | Used to access presets stored in fixture firmware, such as CCT presets, defined gel presets, etc.<br><br>No Preset Activated = DMX 0-3<br>Color Preset 0 (Off) = DMX 4 - 7<br>Color Preset 1 (Scratch Pad) = DMX 8 - 11<br>Color Preset 2 (Warm White) = DMX 12 - 15<br>Color Preset 3 (Cool White) = DMX 16 - 19<br>Color Preset 4 (Daylight) = DMX 20 - 23<br>Color Preset 5 (Arc White) = DMX 24 - 27<br>Color Preset 6 (Red) = DMX 28 - 31<br>Color Preset 7 (Yellow) = DMX 32 - 35<br>Color Preset 8 (Daylight Blue) = DMX 36 - 39<br>Color Preset 9 (Magenta) = DMX 40 - 43<br>Color Preset 10 (Aqua) = DMX 44 - 47<br>Color Preset 11 (Medium Amber) = DMX 48 - 51<br>Color Preset 12 (Lavender) = DMX 52 - 55<br>Color Preset 13 (Blue) = DMX 56 - 59<br>Color Preset 14 (Light Pink) = DMX 60 - 63<br>Color Preset 15 (Green) = DMX 64 -67<br>Color Preset 16 (Pink) = DMX 68 - 71<br>Color Preset 17 (Amber White) = DMX 72 - 75<br>Color Preset 18 (Dark Fuchsia) = DMX 76 - 79<br>Color Preset 19 (Light Amber) = DMX 80 - 83<br>Color Preset 20 (Steel Blue) = DMX 84 - 87<br>Color Preset 21 (Lt. Green/Blue) = DMX 88 - 91<br>Color Preset 22 (Orange) = DMX 92 - 95<br>Color Preset 23 (Medium Pink) = DMX 96 - 99<br>Color Preset 24 (Cyan) = DMX 100 - 103<br>Color Preset 25 (Purple) = DMX 104 - 107<br>Color Preset 26 (Custom) = DMX 108 - 111<br>Color Preset 27 (Custom) = DMX 112 - 115<br>Color Preset 28 (Custom) = DMX 116 - 119<br>Color Preset 29 (Custom) = DMX 120 - 123<br>Color Preset 30 (Custom) = DMX 124 - 127<br>Color Preset 31 (Custom) = DMX 128 - 131 |
| 7 | *Not used (for future use)* | | | | |
| 8 | Timing | 0 - 255 | 0 - 100% | 255 | Allows for timing control of both the intensity and color parameters. Channel should default to 255 for smoothest actions using console and/or manual fades. Refer to "PLCYC LED Luminaire DMX Timing Channel Detail" on page 22 for more information. |

## Table 2-1: PLCYC LED Luminaire DMX Channel Mapping (8-Bit Mode)

| 9 | Control | 0 - 255 | 0 - 100% | 0 | Used to set different modes, parameters, and functions of the luminaire. Set control channel value for desired action. Hold value for at least 3 seconds. Set control channel value to 0 without any scaling.<br>Default Setting on Console = DMX 0<br>Display On/Off = DMX 3 - 4<br>Reset All to Defaults = DMX 5 - 7<br>Quiet Mode = DMX 11 - 13<br>Normal Mode = DMX 14 - 15<br>Preset 1 Store = DMX 20 - 21<br>Preset 2 Store (Intensity Only) = DMX 22 - 23<br>Preset 3 Store (Intensity Only) = DMX 24 - 25<br>Preset 4 Store (Intensity Only) = DMX 26 - 27<br>Preset 5 Store = DMX 28 - 29<br>Preset 6 Store = DMX 30 - 31<br>Preset 7 Store = DMX 32 - 33<br>Preset 8 Store = DMX 34 - 35<br>Preset 9 Store = DMX 36 - 37<br>Preset 10 Store = DMX 38 - 39<br>Preset 11 Store = DMX 40 - 41<br>Preset 12 Store = DMX 42 - 43<br>Preset 13 Store = DMX 44 - 45<br>Preset 14 Store = DMX 46 - 47<br>Preset 15 Store = DMX 48 - 49<br>Preset 16 Store = DMX 50 - 51<br>Preset 17 Store = DMX 52 - 53<br>Preset 18 Store = DMX 54 - 55<br>Preset 19 Store = DMX 56 - 57<br>Preset 20 Store = DMX 58 - 59<br>Preset 21 Store = DMX 60 - 61<br>Preset 22 Store = DMX 62 - 63<br>Preset 23 Store = DMX 64 - 65<br>Preset 24 Store = DMX 66 - 67<br>Preset 25 Store = DMX 68 - 69<br>Preset 26 Store = DMX 70 - 71<br>Preset 27 Store = DMX 72 - 73<br>Preset 28 Store = DMX 74 - 75<br>Preset 29 Store = DMX 76 - 77<br>Preset 30 Store = DMX 78 - 79<br>Preset 31 Store = DMX 80 - 81<br>Fixture Reset* = DMX 250 - 255 |
|---|---|---|---|---|---|

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## 3.  DMX 3-Channel (3-Chan) Mode

Table 2-2 provides DMX channel mapping of all DMX512 control values when the PLCYC LED Luminaire is in 3-Channel (3-Chan) DMX512 mode (as set by the luminaire's menu system).

**Table 2-2: PLCYC LED Luminaire DMX Channel Mapping (3-Chan Mode)**

| DMX Channel | Parameter | Range DMX | Range% | Default - *recommended console default values* | Description |
|---|---|---|---|---|---|
| 1 | Intensity | 0 - 255 | 0 - 100% | 0 | 8-bit control for Intensity of LED settings. |
| 2 | Preset Color Selection<br><br>*Notes:*<br><br>• Color Presets 5 through 25 are set colors and can be reloaded if needed through the fixture's menu system.<br>• These colors have been matched to precise X and Y coordinates at the center of the beam at wide angle, we have given you the ability to adjust these colors as your personal perception may vary. | 0 - 255 | 0 - 100% | 0 | Used to access presets stored in fixture firmware, such as CCT presets, defined gel presets, and more.<br>No Preset Activated = DMX  0 - 3<br>Color Preset 0 (Off) = DMX 4 - 7<br>Color Preset 1 (Scratch Pad) = DMX  8 - 11<br>Color Preset 2 (Warm White) = DMX  12 - 15<br>Color Preset 3 (Cool White) = DMX  16 - 19<br>Color Preset 4 (Daylight) = DMX  20 - 23<br>Color Preset 5 (Arc White) = DMX 24 - 27<br>Color Preset 6 (Red) = DMX 28 - 31<br>Color Preset 7 (Yellow) = DMX 32 - 35<br>Color Preset 8 (Daylight Blue) = DMX 36 - 39<br>Color Preset 9 (Magenta) = DMX 40 - 43<br>Color Preset 10 (Kelly Green) = DMX 44 - 47<br>Color Preset 11 (Medium Amber) = DMX 48 - 51<br>Color Preset 12 (Lavender) = DMX 52 - 55<br>Color Preset 13 (Blue) = DMX 56 - 59<br>Color Preset 14 (Light Pink) = DMX 60 - 63<br>Color Preset 15 (Green) = DMX 64 - 67<br>Color Preset 16 (Pink) = DMX 68 - 71<br>Color Preset 17 (Amber White) = DMX 72 - 75<br>Color Preset 18 (Dark Fuchsia) = DMX 76 - 79<br>Color Preset 19 (Light Amber) = DMX 80 - 83<br>Color Preset 20 (Steel Blue) = DMX 84 - 87<br>Color Preset 21 (Lt. Green/Blue) = DMX 88 - 91<br>Color Preset 22 (Orange) = DMX 92 - 95<br>Color Preset 23 (Medium Pink) = DMX 96 - 99<br>Color Preset 24 (Cyan) = DMX 100 - 103<br>Color Preset 25 (Purple) = DMX 104 - 107<br>Color Preset 26 (Custom) = DMX 108 - 111<br>Color Preset 27 (Custom) = DMX 112 -115<br>Color Preset 28 (Custom) = DMX 116 - 119<br>Color Preset 29 (Custom) = DMX 120 - 123<br>Color Preset 30 (Custom) = DMX 124 - 127<br>Color Preset 31 (Custom) = DMX 128 - 131 |
| 3 | Timing | 0 - 255 | 0 - 100% | 255 | Allows for timing control of both the intensity and color parameters. Channel should default to 255 for smoothest actions using console and/or manual fades. Refer to "PLCYC LED Luminaire DMX Timing Channel Detail" on page 22 for more information. |

## 4.   Lighting Console Settings for Preset White

### 16-Bit Mode

Below are the DMX512 console values and levels* for Warm White, Cool White, and Day Light presets in 16-bit mode.

| White Preset | Red Channel | | Green Channel | | Blue Channel | | White Channel | |
|---|---|---|---|---|---|---|---|---|
| | DMX Value | DMX% | DMX Value | DMX% | DMX Value | DMX% | DMX Value | DMX% |
| Warm White | 65535 | 100 | 36700 | 56 | 0 | 0 | 47185 | 72 |
| Cool White | 65535 | 100 | 41287 | 63 | 8520 | 13 | 61603 | 94 |
| Day Light | 65535 | 100 | 53739 | 82 | 26214 | 40 | 58982 | 90 |

### 8-Bit Mode

Below are the DMX512 console values and levels* for Warm White, Cool White, and Day Light presets in 8-bit mode.

| White Preset | Red Channel | | Green Channel | | Blue Channel | | White Channel | |
|---|---|---|---|---|---|---|---|---|
| | DMX Value | DMX% | DMX Value | DMX% | DMX Value | DMX% | DMX Value | DMX% |
| Warm White (3200K) | 255 | 100 | 163 | 64 | 0 | 0 | 217 | 85 |
| Cool White (4000K) | 255 | 100 | 194 | 76 | 46 | 18 | 255 | 100 |
| Day Light (5600K) | 255 | 100 | 237 | 93 | 130 | 51 | 255 | 100 |

**Note:**  *Values and levels shown for Preset White (in both 16 and 8-bit modes) are approximate. Due to the characteristics of LED technology, actual values may vary slightly between fixtures.

## 5.   PLCYC LED Luminaire DMX Timing Channel Detail

Timing channel control improves the timed moves of certain groups of parameters. The PLCYC LED Luminaire provides two timing channels in 16-bit mode (one for intensity time and one for color time) and one timing channel in 8-bit (color and intensity timing combined). The luminaire uses its timing channel value to calculate a smooth continuous operation for a given time and transition.

### Guidelines:

• Timing channels support time values from zero to 169 seconds.

• To use a timing channel instead of console timing, it is recommended to set the timing channel to the desired value and set cue and/or console cue fade time to zero. A combination of time controls can produce unexpected results.

• The default value setting in the profile should be 255 (proportional control) to allow smooth operation when using console timing.

• The timing channel data should change as a snap. A zero value will give the fastest operation, however, without any smoothing this can appear "steppy" in console timed moves.

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**Table 3: PLCYC LED Luminaire Timing Channel Detail**

| % Value | DMX | = Seconds |
|---|---|---|
|  | 0 | 0 (Full Speed) |
|  | 1 | 0.2 |
|  | 2 | 0.4 |
| 1 | 3 | 0.6 |
|  | 4 | 0.8 |
| 2 | 5 | 1 |
|  | 6 | 1.2 |
|  | 7 | 1.4 |
| 3 | 8 | 1.6 |
|  | 9 | 1.8 |
| 4 | 10 | 2 |
|  | 11 | 2.2 |
|  | 12 | 2.4 |
| 5 | 13 | 2.6 |
|  | 14 | 2.8 |
| 6 | 15 | 3 |
|  | 16 | 3.2 |
|  | 17 | 3.4 |
| 7 | 18 | 3.6 |
|  | 19 | 3.8 |
| 8 | 20 | 4 |
|  | 21 | 4.2 |
|  | 22 | 4.4 |
| 9 | 23 | 4.6 |
|  | 24 | 4.8 |
| 10 | 25 | 5 |
|  | 26 | 5.2 |
|  | 27 | 5.4 |
| 11 | 28 | 5.6 |
|  | 29 | 5.8 |
|  | 30 | 6 |
| 12 | 31 | 6.2 |
|  | 32 | 6.4 |
| 13 | 33 | 6.6 |
|  | 34 | 6.8 |
|  | 35 | 7.0 |
| 14 | 36 | 7.2 |
|  | 37 | 7.4 |
| 15 | 38 | 7.6 |
|  | 39 | 7.8 |
|  | 40 | 8 |
| 16 | 41 | 8.2 |
|  | 42 | 8.4 |
| 17 | 43 | 8.6 |
|  | 44 | 8.8 |
|  | 45 | 9 |
| 18 | 46 | 9.2 |
|  | 47 | 9.4 |
| 19 | 48 | 9.6 |
|  | 49 | 9.8 |
|  | 50 | 10 |
| 20 | 51 | 10.2 |

| % Value | DMX | = Seconds |
|---|---|---|
|  | 52 | 10.4 |
|  | 53 | 10.6 |
| 21 | 54 | 10.8 |
|  | 55 | 11 |
| 22 | 56 | 11.2 |
|  | 57 | 11.4 |
|  | 58 | 11.6 |
| 23 | 59 | 11.8 |
|  | 60 | 12 |
| 24 | 61 | 12.2 |
|  | 62 | 12.4 |
|  | 63 | 12.6 |
| 25 | 64 | 12.8 |
|  | 65 | 13 |
| 26 | 66 | 13.2 |
|  | 67 | 13.4 |
|  | 68 | 13.6 |
| 27 | 69 | 13.8 |
|  | 70 | 14 |
| 28 | 71 | 14.2 |
|  | 72 | 14.4 |
|  | 73 | 14.6 |
| 29 | 74 | 14.8 |
|  | 75 | 15 |
| 30 | 76 | 15.2 |
|  | 77 | 15.4 |
|  | 78 | 15.6 |
| 31 | 79 | 15.8 |
|  | 80 | 16 |
|  | 81 | 16.2 |
| 32 | 82 | 16.4 |
|  | 83 | 16.6 |
| 33 | 84 | 16.8 |
|  | 85 | 17 |
|  | 86 | 17.2 |
| 34 | 87 | 17.4 |
|  | 88 | 17.6 |
| 35 | 89 | 17.8 |
|  | 90 | 18 |
|  | 91 | 18.2 |
| 36 | 92 | 18.4 |
|  | 93 | 18.6 |
| 37 | 94 | 18.8 |
|  | 95 | 19 |
|  | 96 | 19.2 |
| 38 | 97 | 19.4 |
|  | 98 | 19.6 |
| 39 | 99 | 19.8 |
|  | 100 | 20 |
|  | 101 | 21 |
| 40 | 102 | 22 |
|  | 103 | 23 |
|  | 104 | 24 |
| 41 | 105 | 25 |

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| % Value | DMX | = Seconds |
|---------|-----|-----------|
|         | 106 | 26        |
| 42      | 107 | 27        |
|         | 108 | 28        |
|         | 109 | 29        |
| 43      | 110 | 30        |
|         | 111 | 31        |
| 44      | 112 | 32        |
|         | 113 | 33        |
|         | 114 | 34        |
| 45      | 115 | 35        |
|         | 116 | 36        |
| 46      | 117 | 37        |
|         | 118 | 38        |
|         | 119 | 39        |
| 47      | 120 | 40        |
|         | 121 | 41        |
| 48      | 122 | 42        |
|         | 123 | 43        |
|         | 124 | 44        |
| 49      | 125 | 45        |
|         | 126 | 46        |
|         | 127 | 47        |
| 50      | 128 | 48        |
|         | 129 | 49        |
| 51      | 130 | 50        |
|         | 131 | 51        |
|         | 132 | 52        |
| 52      | 133 | 53        |
|         | 134 | 54        |
| 53      | 135 | 55        |
|         | 136 | 56        |
|         | 137 | 57        |
| 54      | 138 | 58        |
|         | 139 | 59        |
| 55      | 140 | 60        |
|         | 141 | 61        |
|         | 142 | 62        |
| 56      | 143 | 63        |
|         | 144 | 64        |
| 57      | 145 | 65        |
|         | 146 | 66        |
|         | 147 | 67        |
| 58      | 148 | 68        |
|         | 149 | 69        |
| 59      | 150 | 70        |
|         | 151 | 71        |
|         | 152 | 72        |
| 60      | 153 | 73        |
|         | 154 | 74        |
|         | 155 | 75        |
| 61      | 156 | 76        |
|         | 157 | 77        |
| 62      | 158 | 78        |
|         | 159 | 79        |

| % Value | DMX | = Seconds |
|---|---|---|
|  | 160 | 80 |
| 63 | 161 | 81 |
|  | 162 | 82 |
| 64 | 163 | 83 |
|  | 164 | 84 |
|  | 165 | 85 |
| 65 | 166 | 86 |
|  | 167 | 87 |
| 66 | 168 | 88 |
|  | 169 | 89 |
|  | 170 | 90 |
| 67 | 171 | 91 |
|  | 172 | 92 |
| 68 | 173 | 93 |
|  | 174 | 94 |
|  | 175 | 95 |
| 69 | 176 | 96 |
|  | 177 | 97 |
|  | 178 | 98 |
| 70 | 179 | 99 |
|  | 180 | 100 |
| 71 | 181 | 101 |
|  | 182 | 102 |
|  | 183 | 103 |
| 72 | 184 | 104 |
|  | 185 | 105 |
| 73 | 186 | 106 |
|  | 187 | 107 |
|  | 188 | 108 |
| 74 | 189 | 109 |
|  | 190 | 110 |
| 75 | 191 | 111 |
|  | 192 | 112 |
|  | 193 | 113 |
| 76 | 194 | 114 |
|  | 195 | 115 |
| 77 | 196 | 116 |
|  | 197 | 117 |
|  | 198 | 118 |
| 78 | 199 | 119 |
|  | 200 | 120 |
| 79 | 201 | 121 |
|  | 202 | 122 |
|  | 203 | 123 |
| 80 | 204 | 124 |
|  | 205 | 125 |
| 81 | 206 | 126 |
|  | 207 | 127 |
|  | 208 | 128 |
| 82 | 209 | 129 |
|  | 210 | 130 |
|  | 211 | 131 |
| 83 | 212 | 132 |
|  | 213 | 133 |

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| % Value | DMX | = Seconds |
|---------|-----|-----------|
| 84 | 214 | 134 |
| | 215 | 135 |
| | 216 | 136 |
| 85 | 217 | 137 |
| | 218 | 138 |
| 86 | 219 | 139 |
| | 220 | 140 |
| | 221 | 141 |
| 87 | 222 | 142 |
| | 223 | 143 |
| 88 | 224 | 144 |
| | 225 | 145 |
| | 226 | 146 |
| 89 | 227 | 147 |
| | 228 | 148 |
| | 229 | 149 |
| 90 | 230 | 150 |
| | 231 | 151 |
| 91 | 232 | 152 |
| | 233 | 153 |
| | 234 | 154 |
| 92 | 235 | 155 |
| | 236 | 156 |
| 93 | 237 | 157 |
| | 238 | 158 |
| | 239 | 159 |
| 94 | 240 | 160 |
| | 241 | 161 |
| 95 | 242 | 162 |
| | 243 | 163 |
| | 244 | 164 |
| 96 | 245 | 165 |
| | 246 | 166 |
| 97 | 247 | 167 |
| | 248 | 168 |
| | 249 | 169 |
| 98 | 250* | 60mS |
| | 251* | 80mS |
| 99 | 252* | 100mS |
| | 253* | 120mS |
| | 254* | 140mS |
| 100 | 255* (default) | 160mS |

**Note:** * DMX values 250 to 255 provide smoothing when using console fade timing. DMX value 255 (recommended default) will provide the smoothest timing.

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# CLEANING AND CARE

> ⚡ **WARNING!** All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

## 1. Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the PLCYC LED Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The PLCYC LED Luminaire special care when it comes to cleaning front lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

The following is a list of cleaning materials required to care for your PLCYC LED Luminaire:

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution.

**Note:** *Reagent grade isopropyl alcohol is good to use on the PLCYC LED Luminaire plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.

> ⚠️ **WARNING!** Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the PLCYC LED Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

If you have any questions regarding the use or care of your PLCYC LED Luminaire, please contact Philips Selecon technical support or your local Authorized Dealer.

## 2. Front Lens / Reflector Cleaning

**To clean the front lens and reflector:**

Step 1.  Turn off luminaire and allow to cool completely.

Step 2.  Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.

Step 3.  Wipe all debris, dirt, fingerprints, etc. from lens and reflector.

Step 4.  Using a second lint-free lens tissue, wipe off any alcohol residue.

## 3. Service and Maintenance

For all other service and maintenance issues, please contact your local Philips Selecon office or an Authorized Service Center.

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WARNING! Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local Philips Selecon office or an Authorized Service Center for technical support and service.

## 4.  Accessories

Only Philips Selecon approved accessories should be used with your PLCYC LED Luminaire. For a list of available accessories from Philips Selecon, please see "Accessories" on page 3. For questions regarding accessories, please contact your local Authorized Philips Selecon Dealer or Philips Selecon office.

# TROUBLESHOOTING

## 1.    Troubleshooting Guide

The chart below provides possible causes and remedies for various error messages and/or symptoms.

**WARNING!**  Any service and maintenance (including troubleshooting), other than described herein should be performed by an Authorized Philips Selecon Dealer or Service Center.

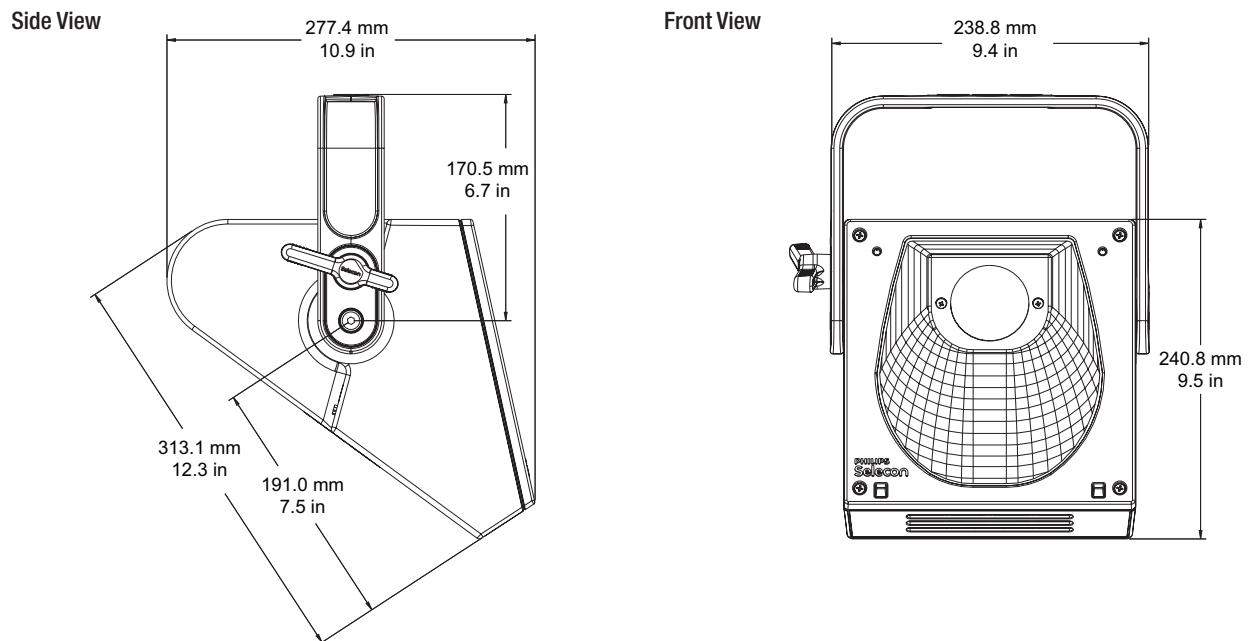| Description | Symptom | Possible Cause/Remedy |
|---|---|---|
| No light output. | Fixture will not produce or output light | Unit is set to Preset Off... Make sure unit is set to proper Preset. DMX command to 0 intensity... Adjust intensity to higher level. |
| No power at luminaire. | Luminaire does not power up | Circuit not energized... verify circuit breaker is turned on. Not plugged in... ensure A/C cable is connected to power source. Power cable wired incorrectly... verify power cable and connector are wired correctly. See "Connecting Power" on page 6 for more information. |
| DMX Data Control. | Fixture will not respond to DMX commands. | Not detecting DMX data... Disconnect and reconnect DMX input cable. Unit is not set to be controlled by DMX - check menu settings. Check all DMX connections (at control source and luminaire). DMX data cable not wired correctly or has a broken conductor... check DMX data cable for proper wiring. See "Connecting to the DMX512 Network" on page 7 for more information. |
| LED (light) is getting dimmer. | Fixture appears not to be operating at full brightness. | Luminaire has detected an over temperature condition... The luminaire will reduce power to its LED if it senses that the LED is operating over the specified temperature.  LED temperature is read and recorded through a thermistor imbedded in the LED chip. Fan is not operating. Listen for fan operation or adjust settings to increase fan speed. On luminaires with a display check system status menu for status of fans and LED operation. |
| Local programming. | Unit will not allow local programming or changes. | Password protection is on (locked)... Input proper password to allow local programming and/or adjustments. Unit is controlled by DMX... Disconnect input cables to check issue. |

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# TECHNICAL SPECIFICATIONS

## 1.   PLCYC LED Luminaire Operational Specifications

| | |
|---|---|
| Source: | True RGBW 120 Watt LED chip |
| Light Output: | > 2,000 lumens |
| Beam Spread: | 42 Degrees (vertical) / 38 Degrees (horizontal) |
| Color Temperature: | 3000 - 5600K (user adjustable) |
| Input Voltage: | 120V to 240V (+/- 10%, auto-ranging) |
| Current: | 1.25 Amps (120V) / 0.63 Amps (240V) |
| Frequency: | 50/60Hz |
| Ambient Temperature: | 0 to 40 degrees C (32 to 104 degrees F) |
| Humidity: | 5%-95% Non condensing |
| Cooling: | Forced-Air |
| Weight: | 7.3 lbs (3.3 kg) - Luminaire only (no mount, AC input cable or accessories) |
| Compliance: | ETL / cETL Listed (North America models) and CE Marked (International models) |

**Note:**  Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet or visit the Philips Selecon web site at www.seleconlight.com for more details.

## 2.   PLCYC LED Luminaire Dimensions



Side View — 277.4 mm / 10.9 in, 170.5 mm / 6.7 in, 313.1 mm / 12.3 in, 191.0 mm / 7.5 in

Front View — 238.8 mm / 9.4 in, 240.8 mm / 9.5 in

**Notes**

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## Notes

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