LIGHTOLIER®

Architectural Decorative IS:CCLPS602P

Page 1 of 4

Instruction Sheet for Assembly and Installation

Read and understand these instructions before installing luminaire

This luminaire is intended for installation in accordance with the National Electrical Code and local regulations. To assure full compliance with local codes and regulations, check with your local electrical inspector before installation. To prevent electrical shock, turn off electricity at fuse box before proceeding. Retain these instructions for maintenance reference.

Getting Started

CCLPS602P is a compact power/data supply for indoor installations. CCLPS602P provides power and data to Lightolier concealed color lighting product lines, and is available for DMX and Ethernet control options.

The "s" type of power supply provides additional features, such as base address and grouping of luminaire addresses, without the need for external components.

This instruction guide contains important information on installing and using your new CCLPS602P. Please read it carefully and save it for future reference.

Included In This Box

- · Power/data supply
- US Grounded IEC Power Cord Set
- RJ-45 Terminator
- Instruction Sheet

Additional Items Needed

Mounting hardware – 4 flat head screws M3.5 or #6

Scope of this Instruction Guide

The goal of this user guide is to explain the steps necessary to install CCLPS602P for DMX and Ethernet control to assure peak performance. Its intended use is for reference only, by persons who are fully qualified. This document should never be considered a substitute for any provisions of a regulation or state and/or local code.

Identification and Warnings of Safety Hazards

In accordance with ANSI Z535.4-2002, the following system identifies the severity of the hazards associated with the products:

- Imminently hazardous situation which, if not avoided, will result in "Danger" death or serious injury.
- "Warning" Potentially hazardous situation which, if not avoided, could result in death or serious injury.
- "Caution" Potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage. Also used to alert against unsafe practices.

Ignoring a hazard will void any warranty.

Warning: Ensure that power is disconnected before installing, wiring, or servicing the CCLPS602P power supply.

Warning: The CCLPS602P power supply must be installed by a qualified professional in accordance with NEC and relevant local codes.

Warning: Do not attempt to install or use CCLPS602P until you read and understand the installation instructions and safety labels.

Warning: Do not use CCLPS602P if power cables are damaged.

Warning: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to take adequate measures.

Caution: Ensure that CCLPS602P is securely attached, properly mounted, and free of excessive vibration.

Caution: Do not hot swap. Ensure the power supply is off before connecting or disconnecting luminaires.

Caution: Do not modify or alter CCLPS602P.

Note: The instructions and precautions set forth in this installation guide are not necessarily all-inclusive or relevant to all applications as Lightolier cannot anticipate all conceivable or unique situations.

Owner/User Responsibilities:

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate CCLPS602P in such a manner as to comply with all state and local laws, ordinances, regulations, and the American National Standards Institute Safety Code.

Note: CCLPS602P is shipped with a US IEC power cord. For international customers, use a country-specific IEC cable meeting the following specifications: 3-conductor, 18AWG (1.00mm2), HAR rating for Europe, and JET rating for Japan. (Hard Service Type ST or equivalent.)

Note: Ensure the IEC inlet plug fits in the supplied lock. The lock may not accommodate all plug styles.

Installation:

CCLPS602P must be installed by a qualified electrician in accordance with NEC and relevant local codes for power supplies. A power screwdriver is recommended for mounting the unit.

Mounting the Housing

Select the location to mount the housing, keeping CCLPS602P within the maximum distance specified for your luminaire. Refer to your luminaire user guide for the cable run information.

Caution: CCLPS602P must be installed in a location that allows air to move freely. Packing insulation around the housing or mounting in a sealed location that raises ambient temperature above 122°F (50°C) may result in property damage and may void the warranty.

Note: Ensure that there is adequate space to make all connections to the front and rear of the unit

• Mount the housing to a flat surface using four M3.5 or #6 flat head screws suitable for the mounting surface. Mounting slots are located on each end of the housing. (See Fig. 1.)

Note: Do not overtighten the mounting screws.



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Architectural Decorative IS:CCLPS602P

Page 2 of 4

Instruction Sheet for Assembly and Installation

Wiring:

After mounting the power/data supply, you are ready to connect power, luminaires, and data to CCLPS602P.

Connecting Luminaires to CCLPS602P

• Plug the leader cable connector into a power output receptacle on the front of CCLPS602P. Power outputs are labeled Out 1 and Out 2. (See Fig. 2.)

Note: When using one luminaire run per CCLPS602P, use Output 1.



Refer to the user guide for your luminaires to determine maximum number of luminaires per power/data supply and specific wiring requirements.

Connecting DMX Data:

CCLPS602P receives DMX data from, and can be controlled by, Lightolier's full line of DMX512 controllers or any third party DMX512 controller.

- Plug the data RJ-45 connector from the controller into the DMX IN port.
- To daisy-chain DMX data to another CCLPS602P, connect a CAT5 cable with RJ-45 connectors between the DMX OUT port of the first unit and the DMX IN port of the next unit. Plug a terminator into the DMX OUT port of the last power supply in a data chain. (See Fig. 3.)



Connecting Power:

Connect the IEC power cable to the back of unit. Plug the IEC power cable into a standard 100-240VAC outlet. Tighten the screw to secure the clamp. (See Fig. 5.)

Note: If power supply does not power up (front display is blank) make certain power cable is firmly inserted into the receptacle on the back of the unit.



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Page 3 of 4

Instruction Sheet for Assembly and Installation

Addressing the Luminaires

When using the DMX control input, you are required to set the base address for the unit and configure the luminaires connected to it.

The base address for the supply will be the starting address for the first luminaire connected to Output 1. You can also group more than one luminaire to the same address or reverse the addressing sequence of the luminaires on Output 1.

Setting Base Addresses

1. Press and release the UP or DOWN address buttons to step through the base address. The address numbers 1 through 170 will appear in the display. Press and hold either button to rapidly advance to the desired luminaire number. Stop when the desired base number appears on the display. (See Fig. 6.)



2. After selecting a base address, press and hold the UP and DOWN buttons simultaneously to enter configuration mode. "CFG" appears in the display. (See Fig. 7.)



When entering Configuration mode, the unit automatically discovers all luminaires that are connected and addresses them sequentially, beginning with the base address on the first luminaire on Output 1 through the last luminaire on Output 2. This step ensures that the unit correctly identifies all of the luminaires connected to its outputs.

After the discovery is complete, two 3-digit numbers are briefly displayed. The first digit indicates the output port and the last two digits denote the number of luminaires connected to that output. For example, the number 107 represents 7 luminaires on Output 1, while the number 213 indicates 13 luminaires on Output 2. If there are no luminaires attached to an output, the last two digits are 00, as in 200. (See Fig. 8.)



3. To exit Configuration mode, press both buttons simultaneously. The base address for the unit will appear on the display.

Grouping Luminaire Addresses

CCLPS602P allows you to conserve the total number of luminaire addresses in an installation by grouping luminaires together. When you group luminaire addresses, you can assign multiple luminaires to the same address. The number of luminaires per group is limited to the maximum number of luminaires connected to Output 1. (For example, if you have 10 luminaires connected to Output 1 and 12 luminaires connected to Output 2, the maximum group number is 10.)

To set grouping of luminaire addresses:

- 1. Press and hold the UP and DOWN buttons simultaneously to enter configuration mode. "CFG" appears in the display.
- 2. When entering Configuration mode, CCLPS602P automatically discovers all luminaires that are connected.
- 3. Use the UP button to set a positive group number (the number of luminaires per group), according to the following table.

Group Address	How Luminaires Are Addressed		
ALL	ALL luminaires are assigned the selected Base Address. If you have 20 luminaires with a Base Address of 1, they are ad- dressed as follows: Light #: 1 2 3 4 5 6 7 8 18 19 20 Address: 1 1 1 1 1 1 1 1 1 1 1		
1	All luminaires are addressed sequentially, starting with the Base Address. If you have 20 luminaires with a Base Address of 1, they are addressed as follows: Light #: 1 2 3 4 5 6 7 8 18 19 20 Address: 1 2 3 4 5 6 7 8 18 19 20		
2	Every two luminaires are assigned the same address. For example, if you have 20 luminaires with a Base Address of 1, they are addressed as follows: Light #: 1 2 3 4 4 9 10		
3	Every three luminaires are assigned the same address. For example, if you have 20 luminaires with a Base Address of 1, they are addressed as follows: Light #: 1 2 3 4 5 6 7 8 18 19 20 Address: 1 1 2 2 3 6 7 7		
4 to 20			

Note: It is recommended that you set your group number to a number that evenly divides the number of luminaires connected to Output 1 and you balance the number of luminaires on each output. Otherwise, you may have a smaller amount of luminaires at the end of each output port that would receive the next address

4. Use the DOWN button to set reverse addressing.

Note: CCLPS602P allows you to reverse the addressing sequence on Output 1 ONLY.

Using reverse addressing, the last luminaire on Output 1 receives the Base Address, and then the addresses are assigned sequentially from the last luminaire to the first.

Reverse addressing is particularly useful if you mount your power supply in the center of a linear feed or if you want to feed an installation that uses multiple power supplies from each side. Use reverse addressing to chase from one end of the luminaire run to the next. (See Fig. 9 for examples.) Use the DOWN button to set a "negative" group number, according to the following table. Set a negative group number to use reverse addressing.

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IS:CCLPS602P

Page 4 of 4

Instruction	Sheet for	Assembly	and	Installation	ſ

Group Address	How Luminaires Are Addressed			
-1	All luminaires are addressed sequentially, starting with the Base Address. If you have 20 luminaires with a Base Address of 1, they are addressed as follows: Light #: 1 2 3 4 5 6 7 8 18 19 20 Address: 20 19 18 17 16 15 14 13 3 2 1			
-2	Every two luminaires are assigned the same address. For example, if you have 20 luminaires with a Base Address of 1, they are addressed as follows: Light #: 1 2 3 4 5 6 7 8 18 19 20 Address: 10 10 9 9 8 8 7 7 2 1 1			
-3	Every three luminaires are assigned the same address. For example, if you have 20 luminaires with a Base Address of 1, they are addressed as follows: Light #: 1 2 3 4 5 6 7 8 18 19 20 Address: 7 7 6 6 5 5 1 1			
-4 to -20				

Note: It is recommended that you set your group number to a number that evenly divides the number of luminaires connected to Output 1 and you balance the number of luminaires on each output. Otherwise, you may have a smaller amount of luminaires at the end of each output port that would receive the next address.

5. To exit Configuration mode, press both buttons simultaneously. The base address for CCLPS602P will appear on the display.

CCLPS602P Specifications

ODEI OUDEI OPCOIII	outions
Power Input	100-240VAC, 50Hz–60Hz, 1.1-0.4A
Power Output	24VDC (62W Max.)
Heat Dissipation	22% of total power input at maximum load
Ambient Operating Temp	14°F to 122°F (-10°C to 50°C)
Housing	8.8" (22.4 cm) X 4.0" (10.2 cm) X
	2.0" (5.1 cm)
	Weight: 2.0 lbs (907 g)
Connectors	Data: RJ45 input and output connectors
	Power: 4-pin output connectors, IEC power con-
	nector (Supplied with C13 IEC plug, grounded US
	outlet plug. UL/CSA rated 18 AWG 3/C ST 90°C
	Rated.)
Data Input Interface	Lightolier Lytemode DMX, color rotary dial or
	DMX 512 compatible controllers.
Data Output Interface	24V
Classification	Class 2
Listings	UL/cUL, CE, PSE
Max. # of Luminaires	12": 20; 6": 36



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