J&J Electronics™

PureWhite LED

Pool and Spa Light Fixture

Owner's Manual



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LPL-F1W
LPL-F3W
LPL-F5W
LPL-S1W

Hayward Industries
1415 Vantage Park Dr., Suite 400
Charlotte, NC 28203
Phone: (908) 355-7995
www.hayward.com

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IMPORTANT SAFETY INSTRUCTIONS

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

READ AND FOLLOW ALL INSTRUCTIONS

⚠ **DANGER** – FAILURE TO PROPERLY INSTALL AND USE THIS PRODUCT CAN RESULT IN SERIOUS BODILY INJURY OR DEATH.

⚠ **WARNING** – BEFORE INSTALLING OR USING THIS LIGHT, READ ALL WARNINGS AND INSTRUCTIONS CONTAINED IN THIS MANUAL. Read and follow all warning notices and instructions contained in this guide before installing or using the product. Severe injury, death or property damage may result if the warnings and instructions contained in this manual are not followed.

INSTALLER NOTICE – This owner's manual contains important information about this LED light. Give this manual to the owner and/or operator of the LED light for reference regarding the proper installation, operation and use of this product.

⚠ **WARNING** – Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.

⚠ **WARNING** – **RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.** Always disconnect power to the pool and/or spa light at the circuit breaker panel before attempting to service the light. Failure to do so could result in serious injury or death due to electrical shock. Installation must be performed in accordance with all applicable federal, state and local installation codes and ordinances by a licensed or certified electrician or a qualified pool professional. Improper installation may result in death or serious injury to pool and/or spa users, installers or others due to electrical shock. In addition, improper installation may cause property damage. **This device is not intended for use in anything other than in-ground pools/spas.**

⚠ **WARNING** – **IMPORTANT SAFETY INFORMATION FOR LIGHT INSTALLATION.** Do not, under any circumstances, splice wire underwater or behind the light niche during the installation of this light.

INSTALLER NOTICE – This light's external cord cannot be replaced and should be handled with care. Any damage to this external cord necessitates replacing the light.

RATED FIXTURE LIFE – The illumination generated by PureWhite LED light fixtures are based on Light Emitting Diode (LED) technology. The average expected fixture life is rated 50,000 elapsed time hours under normal operating conditions. Pool Water Temp: 33°F to 97°F (1°C to 36°C). Humidity: 0-95% non-condensing.

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⚠WARNING – RISK OF ELECTRICAL SHOCK OR ELECTROCUTION. Installation of this light must be completed by a licensed or certified electrician or a qualified pool professional in accordance with the National Electrical Code and any applicable local codes and ordinances. Improper installation may result in death or serious injury to pool users, installers or others due to electrical shock. In addition, improper installation may cause property damage.

Always disconnect power to the pool and/or spa light at the circuit breaker panel before attempting to service the light. Failure to do so could result in serious injury or death due to electrical shock.

⚠WARNING – Confirm that the pool and/or spa meets all current National Electrical Code (NEC) Article 680-22 requirements and any applicable local codes or ordinances. The electrical system must be installed by a licensed or certified electrician to meet or exceed those requirements prior to installation of the light. This includes, but is not limited to, the following National Electrical Code requirements:

- Installation of a ground fault circuit interrupter (GFCI) for line voltage models on the lighting circuit with an appropriately rated circuit breaker.
- A junction box or low voltage transformer is located at least 8 inches above the maximum pool water level and at least 48 inches from the pool edge (See Figure 1).
- Proper electrical bonding of the light fixture and all metal items within 5 feet of the pool.
- Proper wet niche installation with the top edge of the underwater light's lens at least 18 inches below the surface of the water in the pool and not more than 20 inches in Canada (See Figure 1).
- Proper electrical wet niche bonding and grounding using the #8 AWG ground connector at the rear of the niche (See Figure 1).

SAVE THESE INSTRUCTIONS

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Introduction

Overview

The PureWhite LED light fixtures offer superior, bright white illumination for your pool and spa. This owner's manual contains important information on installing and using your new PureWhite LED Pool and Spa light fixture. Read and follow all instructions contained in this manual.

Available in 120VAC and 12VAC models.

Niche Compatibility

Niche	For LPL-F1W, LPL-F3W, and LPL-F5W Series ONLY	For S1W ONLY
Hayward®	SP0604C SP0600U	SP0606C SP0610C
Pentair®	78210400 78210500 78210600 78210700 79206700	78244200 78244300 78243200 78243300 79206600
Jandy®	PLNICLRG SSNICLRG1R SSNICLRG1S	PLNICSM SSNICSM1R SSNICSM1S
Jacuzzi®	94131234	—
Sta-Rite® SwimQuip®	PSQ Variants for **Gunite Installations Only**	—

Installation

Before You Begin

INSTALLER NOTICE: A licensed electrician must complete the following steps prior to installation of this light in a new pool or spa construction.

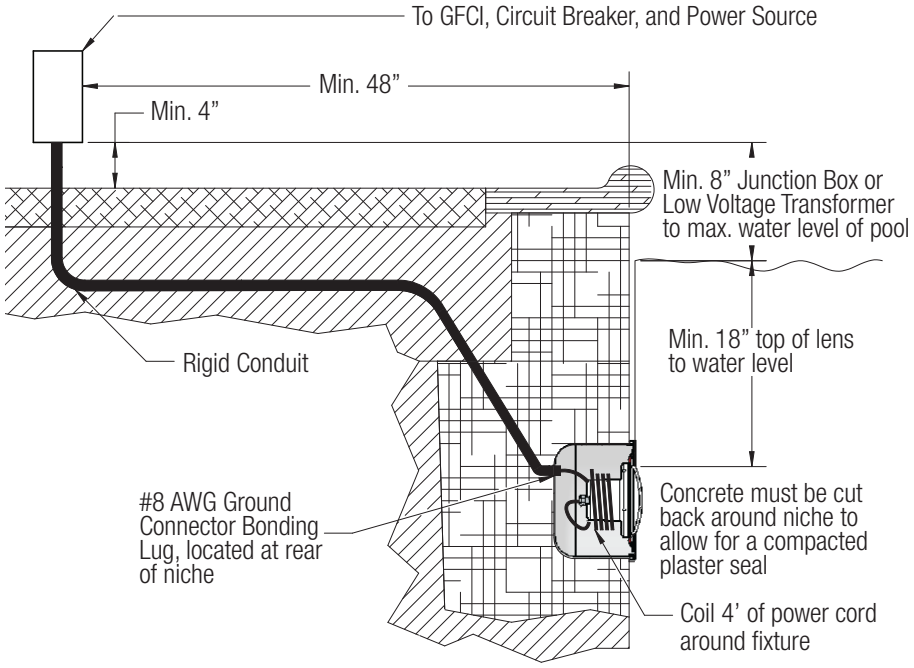
⚠ WARNING – Risk of Electrical Shock or Electrocution.

- Confirm that the pool or spa meets the current National Electrical Code (NEC) requirements and any applicable local codes or ordinances. The electrical system must be installed by a licensed or certified electrician to meet or exceed requirements prior to installing the light.
- Installation of this light must be completed by a licensed or certified electrician or a qualified pool professional in accordance with the National Electrical Code (NEC) Article 680-22 and any applicable local codes and ordinances. Improper installation may result in death or serious injury to pool users, installers or others due to electrical shock. Improper installation may cause property damage.
- Always disconnect power to the pool and/or spa light at the circuit breaker panel before installing and servicing the light. Failure to do so could result in serious injury or death due to electrical shock.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

For 120V applications: To prevent the occurrence of nuisance tripping, only 1 lamp per 10A of rated breaker on one circuit.

Figure 1



For New Pool/Spa Installations

IMPORTANT – Only begin these steps after all electrical requirements are met.

1. Feed the fixture cord through the conduit to the junction box. Be sure to leave at least four (4) feet of cord at base of the fixture to ensure ease of servicing once the pool and/or spa is filled (See Figure 1).
2. Cut and strip the cord at the junction box, leaving at least 6” of cord for wiring connections.
3. Connect cord to the corresponding junction box circuit wires and secure the junction box cover.

⚠WARNING – This light is designed for underwater use only. **Only operate the light out of water for a brief test (UNDER 2 MINUTES)** to prevent overheating and power cycling.

If the light overheats, the light circuitry shuts down for a cooling period before powering back on within 10 minutes to prevent damage to the light.

4. Before securing the light, ensure proper light operation by turning on power at the transformer for less than TWO minutes. **All line and load side wiring must be complete and not exposed.**

⚠WARNING – **Use only the stainless steel pilot screw provided with this underwater light.** This special pilot screw secures and electrically grounds the fixture to the mounting ring and wet niche. Failure to install the stainless steel pilot screw provided could create an electrical shock hazard, resulting in death or serious injury to pool users, installers or others.

5. Use the provided stainless steel pilot screw to install the PureWhite LED fixture assembly into the niche (See Figure 1). **Do not overtighten**.
6. Fill the pool and/or spa to completely submerge the light prior to operating the light.

For Existing Pool/Spa Installations

IMPORTANT – Only begin these steps after all electrical requirements are met.

1. Disconnect the main electrical switch or circuit breaker and the switch that operates the installed light.
2. Remove the existing light per the original manufacturer's instructions.
3. Place the existing light fixture on the deck and cut the light cord, leaving at least six (6) inches to connect the replacement light cord. Discard the existing light fixture.
4. Remove the existing cord from the niche and place it on the deck. Carefully strip the outer cord jacket to expose six (6) inches of underlying insulated wires.
5. Tape the end of the existing light cord to the replacement light cord with electrical insulating tape. Avoid wrapping too much tape so it fits through the conduit to the junction box.
6. **INSTALLER NOTICE:** This light's external cord cannot be replaced and should be handled with care. Any damage to this external cord necessitates replacing the light.
7. Remove the junction box cover and disconnect the existing light fixture wires. Pull the cord through the conduit until it is visible in the junction box conduit. Remove the tape from the cords and separate the wires.
8. Carefully strip the outer cord jacket from the new light cord to expose six (6) inches of the underlying three insulated wires.
9. Connect the wires to their corresponding junction box circuit wires and secure the junction box cover in place. Be sure to leave at least 4 feet of cord at base of the fixture to coil around the light to ensure ease of servicing (See Figure 1).

⚠WARNING – This light is designed for underwater use only. **Only operate the light out of water for a brief test (UNDER 2 MINUTES)** to prevent overheating and power cycling.

If the light overheats, the light circuitry shuts down for a cooling period before powering back on within 10 minutes to prevent damage to the light.

10. Before securing the PureWhite light into the niche, ensure proper light operation by turning on power at the transformer for LESS THAN TWO MINUTES. **Be sure that all line and load side wiring is complete and not exposed.**

⚠WARNING – Use only the stainless steel pilot screw provided with this underwater light. This special pilot screw secures and electrically grounds the fixture to the mounting ring and wet niche. Failure to install the stainless steel pilot screw provided could create an electrical shock hazard, resulting in death or serious injury to pool users, installers or others.

11. Install the PureWhite LED light fixture into the niche and secure using the provided stainless steel pilot screw (See Figure 1). **Do not overtighten.**

Operation

Using the Lights

Operate the PureWhite LED with the connected light switch. Use a junction box to connect and operate multiple lights with a single switch.

Dimming the Lights

The PureWhite lights can operate at different light intensities. To change light intensity:

1. Turn on lights and then turn off for between 11-15 seconds. Repeat this sequence two more times.

   The light will blink indicating which mode it is currently in:

   - Mode 1 (1 blink) - 100% intensity
   - Mode 2 (2 blinks) - 60% intensity
   - Mode 3 (3 blinks) - Variable intensity, Once the desired mode is saved, the user may select among 5 brightness levels by briefly toggling power (100%, 80%, 60%, 40%, 20%, 40%, 60%, 80%, 100%, 80%, etc.)

2. To change modes, turn light off and back on. The light will then advance to the next mode. Continue this method until you arrive at the desired mode.
3. To save, remove power from the lights for at least one minute. The light will restart in the new mode the next time it is turned on.

Replacement Kits

PCBA Field Replacement Kit	Part Number
LPL-F3L 12V	JJ14724
LPL-F3W 12V	JJ10640
LPL-S1L 12V	JJ9503
LPL-S1W 12V	JJ14614
LPL-F1L 120V	JJ10639
LPL-F5W 120V	JJ10681
LPL-S1L 120V	JJ10021
LPL-S1W 120V	JJ9410

NOTE: Replacement gaskets are provided with each kit.

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Please visit https://hayward.com/warranty for product warranty details.

Register your product at
https://hayward.com/support/resources/warranty/product-registration

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