



Installation and Operation Guide

Halco ProLED® White LED Pool and Spa Lamp



Spa Lamp

Pool Lamp

**IMPORTANT SAFETY INSTRUCTIONS
READ, FOLLOW AND SAVE THESE INSTRUCTIONS**

TECHNICAL SUPPORT

Halco ProLED® Pool Customer Service at:
800.374.1927



Norcross, Georgia

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HALCO ProLED WHITE LED REPLACEMENT LED POOL & SPA LAMPS

Model #s: LLWP-12-3 LLWP-120-3 LLWS-12-1 LLWS-120-1

Halco ProLED® White LED Pool and Spa lamps offer superior, bright white illumination for your pool. This owner's manual contains important information on installing and using your new Halco ProLED® White LED Pool or Spa lamp. Please read it carefully and keep it in a safe place for future reference.

⚠ WARNING

THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXIT FIXTURES OR EMERGENCY EXIT LIGHTS.

⚠ WARNING

PERMANENT DAMAGE TO THE LOW VOLTAGE 12VAC LAMP WILL OCCUR IF INSTALLED ON A 120VAC CIRCUIT.

Halco ProLED® White LED Pool and spa lamps are available in 12VAC (low voltage) and 120VAC models as indicated on the product packaging. Each lamp has a screw-in Edison base.

⚠ ATTENTION 12V HALCO ProLED® WHITE LED OWNERS!

A socket voltage range of 12.0 –15.0 will achieve optimal brightness. To verify the voltage, at the lamp socket, measure the open circuit voltage (no lamp in the socket).

⚡ DANGER! RISK OF ELECTRICAL SHOCK OR ELECTROCUTION!

Always disconnect power to the pool light at the circuit breaker panel before attempting to service the lamp. Failure to do so could result in serious injury or death due to electrical shock. Refer to the original manufacturer's pool light installation manual before proceeding. As with any electrical device, installation and service should always be performed by a qualified individual. **This device is not intended for use in anything other than in-ground pools.**

RATED LAMP LIFE

The illumination generated by the Halco ProLED® White LED Replacement LED In-Ground Pool lamp is based on Light Emitting Diode (LED) technology. The average expected lamp life is rated up to 50,000 elapsed time hours under normal operating conditions. [Temperature: 33°F to 95°F (1°C to 35°C), Humidity: 0-95% non-condensing].

SAFETY PRECAUTIONS

- Do not open, service or tamper with any internal component of the Halco ProLED® White LED Pool lamp. Doing so will void the warranty. Follow each instruction in this owner's manual and pay careful attention to all warnings.

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- Do not directly expose or immerse the Halco ProLED® White LED Pool or Spa lamp in water without containing it in a proper, watertight, NRTL (nationally recognized testing laboratory) pool light housing and niche assembly.
- Keep the pool light housing dry.
- Handle the Halco ProLED® White LED Replacement LED Pool lamp with care. Be careful not to drop the unit.

IMPORTANT NOTE: Halco ProLED® White LED lamps are recommended for installation by a qualified pool professional.

INSTALLATION

The installation steps in this owner's manual are intended as guidelines. For specific instructions on how to replace a pool lamp, please refer to the original manufacturer's pool light installation manual before proceeding. Halco ProLED® White LED pool and spa lamps must be installed in a compatible NRTL pool light housing.

POOL AND SPA LIGHT HOUSING COMPATIBILITY

LLWP-12-3 LLWP-120-3 LLWS-12-1 LLWS-120-1

Halco ProLED® White LED Pool and Spa lamps must be installed in a compatible NRTL pool light housing. Compatible NRTL light housings include:

Pool Light Housings: Hayward® Astrolite™ SP058 Series, Pentair® Amerlite 784 Series, SwimQuip™ 05086 Series, Halco FIWP Series, J&J Electronics TPL-P Series, Spa Light Housings: Hayward® Astrolite™ II SP059 Series, Pentair® SpaBrite™ Series

GASKET COMPATIBILITY

Hayward® Astrolite™ SP058 & SP059 Housing – Use replacement gasket specified by manufacturer.

Pentair® Amerlite 784 Series & SpaBrite™ Series – Requires installation with included Halco ProLED® Gasket.

Jacuzzi® Full Moon™ – Use replacement gasket specified by manufacturer.

Sta-Rite® SwimQuip™ Series 0508 – Requires installation with included Halco ProLED® Gasket.

⚠ THE PRODUCT WARRANTY IS VOIDED IF THE PROPER GASKET IS NOT INSTALLED. SEE THE “WARRANTY” SECTION AT THE END OF THIS MANUAL FOR DETAILS.

⚠ WARNING

READ THIS BEFORE ATTEMPTING INSTALLATION.

Your Halco ProLED® White LED lamp is not an ordinary light bulb. It is a valuable electronic device that is not designed to come in direct contact with water. An improper installation that results in water leakage into the pool light housing can permanently damage the Halco ProLED® White LED lamp. **Please read these installation steps and the original manufacturer's pool light installation manual carefully before proceeding.**

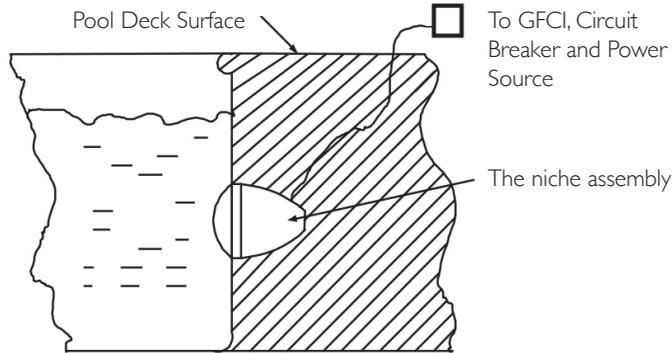
2

STEP 1

Remove light housing from niche.

Make sure power to the pool is turned off at the circuit breaker. Carefully remove the existing light housing from the niche assembly and place it on the pool deck. There should be enough power cord to do this easily. If there is not enough power cord to allow the light housing to reach the pool deck surface, call your local pool service company.

Figure 2:
Step 1



⚠ WARNING

VERIFY THAT YOUR HALCO ProLED® WHITE LED LAMP VOLTAGE RATING (120VAC OR 12VAC) MATCHES YOUR ELECTRICAL SYSTEM'S VOLTAGE REQUIREMENTS BEFORE PROCEEDING WITH INSTALLATION.

STEP 2

Remove old lamp.

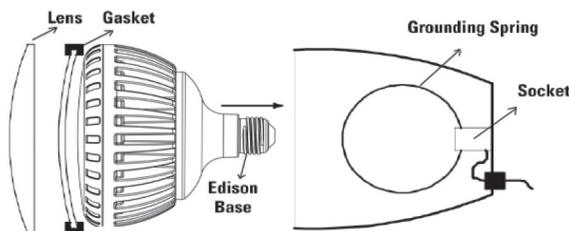
Access the old lamp according to the original manufacturer's pool light installation manual. Remove the screws and/or loosen the clamp that holds the face plate and lens in place. Carefully remove the lens from the pool light housing. Take care not to damage the surface of the light housing body that makes contact with the rubber gasket.

STEP 3

Inspect your light housing for signs of wear.

Inspect the rubber grommet where the power cord enters the light for excessive deterioration. Inspect the light housing, the tensioning clamp, and face ring for warping, dents and excessive rust. Do not install Halco ProLED® White LED Lamp into a pool light housing that appears to be worn out.

Figure 3:
Step 2-4



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STEP 4

Dry the light housing and lens.

Make sure the inside of the light housing and glass lens are completely dry by wiping them down with a clean rag.

STEP 5

Install Halco ProLED® White LED lamp.

Remove the old lamp and discard. Carefully screw the Halco ProLED® White LED lamp into the socket.

STEP 6

Reassemble the light housing.

Proceed by cleaning any gasket residue from the light housing body. A clean surface is necessary for the new gasket to seat properly and prevent leakage. Install the new gasket onto the glass lens.

⚠ WARNING

ALWAYS USE A NEW LENS GASKET WHENEVER REASSEMBLING YOUR POOL LIGHT HOUSING.

Failure to install a new lens gasket could result in water leakage which can permanently damage the Halco ProLED® White LED lamp and cause serious injury or death due to electrical shock.

The product warranty is voided if the proper gasket is not installed. See the "Gasket Compatibility" section for details.

Set the lens and faceplate in the light housing and re-assemble according to the light housing manufacturer's specification. Tighten the screws or clamp slightly, allowing the gasket to seal evenly.

STEP 7

Submerge assembled light into the water.

Once the screws or clamp are tight, submerge the assembled light housing in the water and visually check that air bubbles are not escaping from the gasket area. Should bubbles appear, immediately remove the light housing from the water and reset the gasket and lens. Once you are satisfied that there are no air leaks, complete the installation by wrapping the cord around the light housing and re-attaching the light housing to the niche assembly.

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STEP 8

Check for air bubbles when light is turned ON.

Reconnect power to the pool light by resetting the circuit breaker to the "ON" position. Go back to the light location and check for air bubbles rising to the surface from the pool light housing for at least 10 minutes. It is important that the lamp is turned on during this time. If you do not see air bubbles rising to the surface at any time during the 10-minute inspection process, the housing is holding its water tight seal and the installation is complete. You are ready to enjoy your new Halco ProLED® White LED Pool lamp. If you do see air bubbles rising to the surface at any time during the inspection process, immediately remove the Halco ProLED® White LED lamp from the housing, dry it completely and reset the gasket and lens. Make sure that the Halco ProLED® White LED lamp and light housing are completely dry before reassembling. If the pool light housing continually leaks water after 2 or more attempts at installation, replacement of the pool light housing may be necessary. Please read the Halco ProLED® "White LED lamp Quick Start Guide" for further installation device.

Note on Figures 1-3: All figures are provided for illustration purposes only. Refer to the original pool light manufacturer's installation manual for further reference.

OPERATION

Use the pool's current light switch to turn "ON" and "OFF" your new Halco ProLED White LED lamp.

HALCO LIGHTING TECHNOLOGIES, 2-YEAR LIMITED WARRANTY

Halco Lighting Technologies (Halco) warrants the above-referenced model numbers of Halco ProLED White LED Pool/Spa Lamp (the "Product") to be free from defects in material and workmanship, under normal use, conditions and service, for a period of two (2) year from the original date of purchase, subject to the terms specified herein. If during the first (24) months of the warranty period, the Product fails to operate due to a defect in material or workmanship, Halco will, at its option, repair or replace the Product at no charge.

TERMS AND CONDITIONS

This warranty is available to the original purchaser of the product(s) only. This warranty applies only when products are properly installed in an in-ground pool; any other use voids the warranty. Products must be used in lighting equipment designed and approved for the application and in environmental conditions within the normal specified operating range. This warranty does not apply to any abnormal use of product(s), use in violation of any applicable standard, code or instructions for use in installations including those contained in the latest National Electrical Code (NEC), the Standards for Safety of Underwriters Laboratory, Inc. (UL), Standards for the American National Standards Institute (ANSI). This warranty will not apply in the event of conditions demonstrating abnormal use or stress, freezing, operating when not fully submerged, under/over voltage/current condition, excessive switching cycles or operating hours or outside the recommended operation conditions. This warranty does not apply to color shifts or dimming caused by emissions and/or LED color shifts and dimming that naturally occurs over time. **Warranty conditions: If the product operates for 15 or more hours per day or continuously for 24 hours per day, the product warranty period stated shall be reduced to half the stated period.** This warranty does not cover damage occurring during shipment, damage or failure resulting from alteration, accident, acts of God, theft, abuse, negligent installation, improper service, unauthorized repairs, freezing or where adequate care has not been taken to prevent damage to the product(s). Tampering with any internal component of this product(s) will void the warranty.

This warranty gives you specific rights. You may have other rights that vary according to the laws of your state.

LIMITATION OF LIABILITY

THE FOREGOING SHALL CONSTITUTE THE EXCLUSIVE REMEDY OF THE PURCHASER AND IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ALL WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OR TRADE. THE LIABILITY OF HALCO UNDER THIS WARRANTY SHALL BE LIMITED TO THE REPLACEMENT, REPAIR OR PRO-RATED CREDIT OF THE PRODUCT(S) AS STATED HEREIN. HALCO IS NOT RESPONSIBLE FOR SHIPPING OR TRANSPORTATION COSTS RELATED TO OBTAINING WARRANTY SERVICE. IN NO EVENT SHALL HALCO BE LIABLE FOR ANY OTHER COSTS OR DAMAGES, INCLUDING LOST PROFITS OR REVENUES, LABOR CHARGES OR FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES.

Halco reserves the right to change the warranty and/or warranty period without prior notice and without incurring obligation.

To obtain warranty service, retain the failed Product; retain the installation invoice showing product purchase price and contact Halco ProLED Pool Customer Service at 800.374.1927