



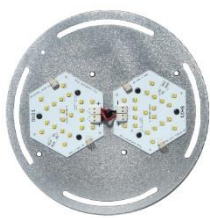
GENPRO

ADVANCED TECHNOLOGIES

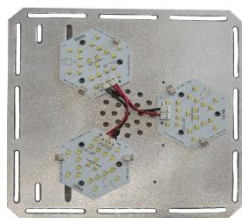
UNIVERSAL RETROFIT INSTALLATION INSTRUCTIONS



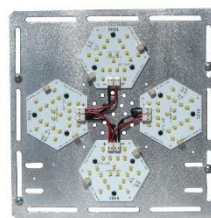
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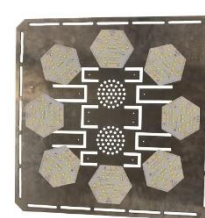
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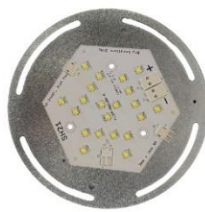
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SHW-084



SHW-168



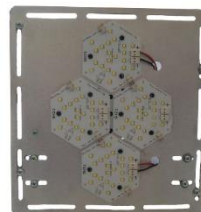
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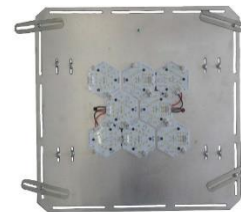
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SHB-168



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S808



S16016



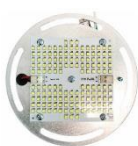
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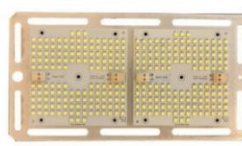
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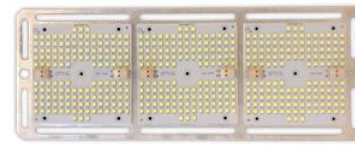
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S300



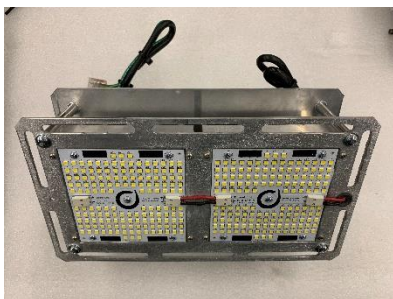
S450



IMPORTANT SAFEGUARDS:

Read and follow all safety instructions below. before installation!
Save these instructions and handover to owner after installation.

- **WARNING** - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires and electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician for safe installation of retrofits.
- Thoroughly inspect the received product for any damage. Freight damage should be reported to the delivery carrier.
- Avoid exposure of the Retrofit Kit to moisture. Ensure the retrofit housing is adequately sealed to avoid moisture ingress.
- **WARNING** - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.
- Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- **WARNING** - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- **WARNING** - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Proper selection of a light pole, brackets and arm mounts for an application is based on information such as EPA, wind zone and mounting height. Light pole vibration problems are caused by environmental factors that vary by geography. They do not result from improper materials and/or poor manufacturing processes.
- Genpro Advanced Technologies and its vendors assume no responsibility for proper loading analysis and/or product selections. Design information such as EPA rating for a product can be found on the product datasheets. If you have concerns about light pole vibration for a specific project you are working on, please contact our customer support.
- The customer remains solely responsible for proper selection of the light pole, luminaire and/or related accessories that adhere to all applicable requirements, including (but not limited to) EPA design criteria, job specifications and engineering requirements. To ensure proper selection of the light pole, luminaire, accessories and/or foundation, we recommend the customers consult a qualified engineer to analyze the loading and design criteria for the specific application.



Picture 1



Picture 2

INSTALLATION KIT

Universal Retrofit Kits (UKits) are designed in various shapes and sizes to fit any fixtures/housings. The UKits will typically have an Aluminum plate with mounting holes or slots along the edges of the plate, that would align with the mounting holes in your custom fixture/housing. In case a UKit is too small to align with the mounting points in your fixture/housing, the universal mounting tabs included in this package should help bridge the gap between the mounting slots on the Ukit plate and the mounting holes in the fixture. Please choose and have appropriate screws, washers and nuts available for mounting the kits into your custom fixture. Ukits are shipped with a set of mounting hardware shown in pictures 1 and 2. Check the received package for items listed below. Please contact the supplier if any of item(s) are missing in the package. If the provided hardware does not work with your custom fixture/housing, please retain and reuse the existing hardware for mounting the retrofits.

#	ITEM	NOT INCLUDED WITH	QTY
1	LED Retrofit Kits – per ordered items	-	Per order
2	2.50" Universal Mounting Tabs	-	4 pcs. per kit
3	4.75" Universal Mounting Tabs	-	4 pcs. per kit
4	7.50" Universal Mounting Tabs	SHB-021, SHB-042, S150, S300	4 pcs. per kit
5	8-32 x 3/8" Philips Pan Screws	-	8 pcs. per kit
6	#8 Aluminum Washers	-	8 pcs. per kit
7	#8 Wing Nuts / # Flange Nuts	-	8 pcs. per kit

TOOLS USEFUL FOR INSTALLATION

1. #8 Philips Head Screwdriver / Power Drill
2. Pliers, Wire Strippers and Wire Cutters
3. Industrial Hand Gloves



Picture 3



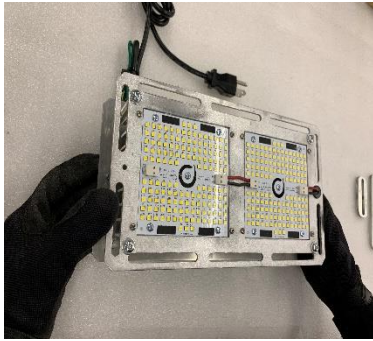
Picture 4



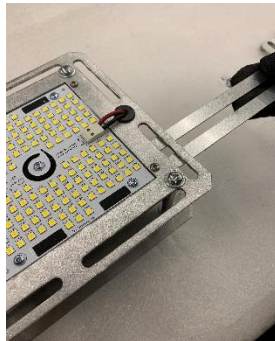
Picture 5

PREPARING YOUR FIXTURE/HOUSING FOR RETROFIT INSTALLATION

1. Make sure all active power is OFF
2. Open the fixture to be retrofitted as shown in pictures 3 and 4.
3. Note existing mounting locations inside the fixture (highlighted in Picture 4).
4. Remove all existing parts/ lamp components installed inside the fixture as shown in picture 5. Please retain and reuse the mounting hardware available in the fixture, to mount the retrofits.
5. Retain the Green Ground connection wire inside the fixture (if available)



Picture 6



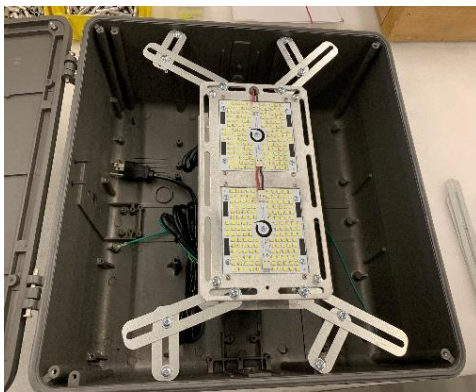
Picture 7



Picture 8



Picture 9



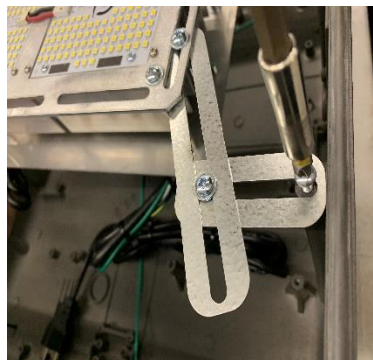
Picture 10



Picture 11



Picture 12



Picture 13

MOUNTING INSTRUCTIONS

1. Place the retrofit kit on a smooth flat surface (preferably over a foam cushion) as shown in picture 6. Please wear industrial hand gloves while handling the retrofit kit.
2. Choose an appropriate size mounting tab from the ones provided with the kit, suitable for mounting locations inside your fixture. Place the mounting tab under one of the mounting slots on the retrofit aluminum plate as shown in picture 7.
3. Secure the mounting tab to the aluminum plate using a 8-32 x 3/8" Philips Pan Screw, #8 Washer, #8 Wing nut / #8 Flange Nut and a Philips Screwdriver / Power Drill as shown in pictures 8 and 9.
4. Repeat steps 2 and 3 for required number of mounting tabs based on the mounting locations inside the fixture. Use a combination of various mounting tabs to reach the mounting locations inside the fixture as shown in picture 10, keeping the retrofit aligned with the center of the fixture. Feel free to bend the tabs as desired to adjust the mounting height inside the fixture.
5. Draw the Black, White and Green wires extending from the retrofit through the fixture opening for power connections as shown in picture 11 and 12.
6. Secure the mounting tabs to the fixture using suitable hardware as shown in picture 13.

WIRING CONNECTION

NOTE: Wire colors can vary, depending on code and circumstances. Make sure that hot, neutral, and ground wires are correctly identified.

1. Connect the Black supply wire (Line voltage) to the connector with Black wire from the retrofit.
2. Connect the White supply wire (Neutral) to the connector with White wire from the retrofit.
3. Connect the Green supply wire (Ground) to the connector with Green ground connection wire from the retrofit.
4. Connect the Positive dimming terminal wire to the connector with Purple/Violet wire from the retrofit (if applicable).
5. Connect the Negative dimming terminal wire to the connector with Grey wire from the retrofit (if applicable).
6. Once the wiring connections are made, close the fixture cover and turn power ON.

TROUBLESHOOTING TIPS

1. Verify proper line voltage is present and wired to the correct input voltage lead.
2. Verify fixture wiring.
3. Verify fixture is grounded.