

READ AND FOLLOW ALL SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the luminaire box and all luminaire labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a **qualified licensed electrician**.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular luminaire maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit www.epa.gov.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc.



WARNING RISK OF ELECTRIC SHOCK

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the luminaire label information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.



WARNING RISK OF BURN

- ✓ Allow lamp/luminaire to cool before handling. Do not touch enclosure or light source.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.
- ✓ Do not exceed maximum wattage marked on luminaire label.



CAUTION RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- ✓ Avoid direct eye exposure to the light source while it is on.



CAUTION RISK OF FIRE

- ✓ Keep combustible and other materials that can burn, away from lamp/lens.
- ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

LED IMPORTANT SAFETY INSTRUCTIONS



CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Never connect components under load.
- ✓ Do not mount or support these luminaires in a manner that can cut the outer jacket or damage wire insulation.
- ✓ Unless individual product specifications deem otherwise: Never connect an LED product directly to a dimmer pack, occupancy sensors, timing devices, or other related control devices. LED luminaires must be powered directly off a switched circuit.
- ✓ Unless individual product specifications deem otherwise: Do not restrict luminaire ventilation. Allow for some volume of airspace around luminaire. Avoid covering LED luminaires with insulation, foam, or other material that will prevent convection or conduction cooling.
- ✓ Unless individual product specifications deem otherwise: Do not exceed luminaires maximum ambient temperature.
- ✓ Only use luminaire in its intended location.
- ✓ Electrostatic Discharge (ESD): ESD can damage LED luminaires. Personal grounding equipment must be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components as this can cause ESD, shorten lamp life, or alter performance.
- ✓ Some components inside the luminaire may not be serviceable. In the unlikely event your unit may require service, stop using the unit immediately and contact an ABL representative for assistance.
- ✓ Always read the luminaires complete installation instructions prior to installation for any additional luminaire specific warnings.

Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.

Failure to follow any of these instructions could void product warranties. For a complete listing of product Terms and Conditions, please visit www.acuitybrands.com.

Our Brands	Indoor/Outdoor Lithonia Lighting Carandini Holophane RELOC Light Concepts	Indoor Lighting Gotham Mark Architectural Lighting Peerless Renaissance Lighting Winona Lighting	Outdoor Lighting American Electric Lighting Antique Street Lamps Hydrel Tersen	Controls DARK TO LIGHT Lighting Control & Design ROAM Sensor Switch Synergy
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Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.

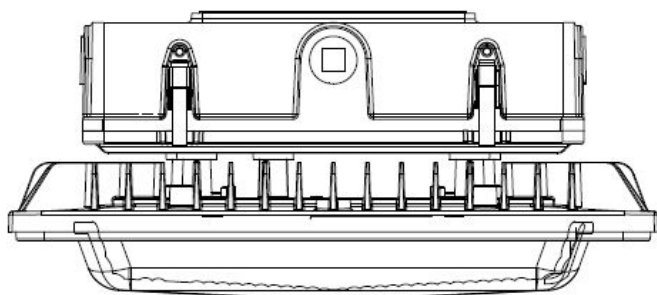
ABL LED General Warnings, Form No. 503.203

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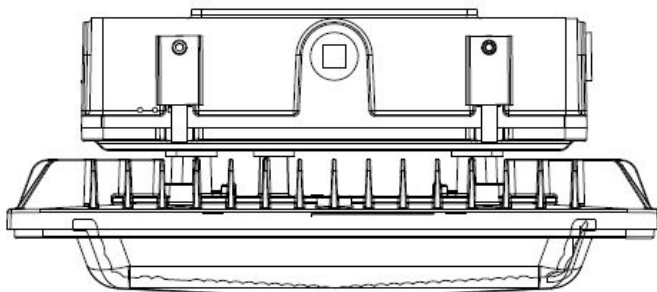
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Parkpak LED with stainless steel latches:



Parkpak LED tamper resistant hardware:



1. INTRODUCTION

1.1 Product Description.

This Parking Garage is designed with LED's which do not require replacement and is intended for surface and pendant mount application. It is not listed for recess installations. Luminaire max. weight is 28 lbs.

The luminaire includes a plug-in electrical module that contains the photocontrol receptacle when specified. These modules are common to all luminaire styles in this series.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1.2 Alternate Information Sources.

Holophane
Field Service Department
P.O. Box 3004
Newark, OH 43058-3004
(740) 345-9631

2. INSTALLATION

2.1 Tools and Materials Required.

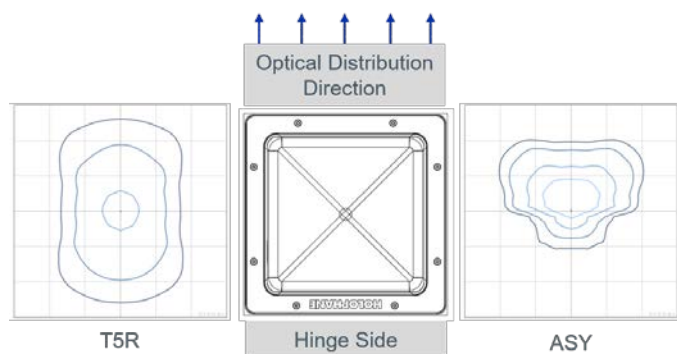
TABLE 1. Installation Tools and Materials

DESCRIPTION	USE
Flat-end Screwdriver	Installation of electrical wiring
Torx-end Screwdriver	Installation of Tamper Proof Screws (option)
Hammer	Knock out for installation to J-Box
¾" Conduit Pipe	Pendent Mount Option
Sealant	To be used on all Threaded Connections

2.2 Optical Distribution Direction

2.2.1 The Parkpak LED has 5 optic distributions. To ensure all optics, especially Type 5 rectangle (T5R) and asymmetric (ASY), are installed in the correct direction, the hinges are in the opposite direction of the distribution, as shown in Figure 1. When looking at the latches, all sensors options should be located on the left side of the luminaire.

Figure 1



2.3 Pendant Mount Installation

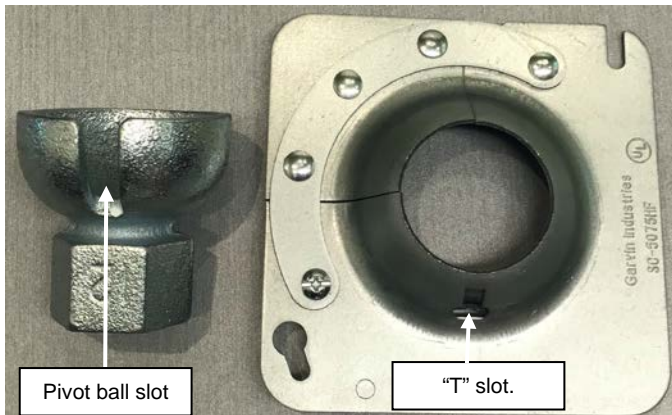
2.3.1 Remove fixture from packaging and review fixture labels for warnings and electrical connection information.

2.3.2 Make sure that supply wire power is disconnected and installation is in accordance to local jurisdiction.

2.3.3 Fixture is supplied with 36" conductors exiting the 3/4"-14 NPT threaded conduit entrance. Pendant installation can be **with** or **without** the included **swivel kit** for 4" square electrical boxes, see Figure 2. Install 3/4"-14 NPT conduit at desired entries. Apply thread sealant completely around external threads of all entry pipes, and completely around the internal threads of housing. Force the lubricant into the threads. Seal must be air tight. See Figure A.

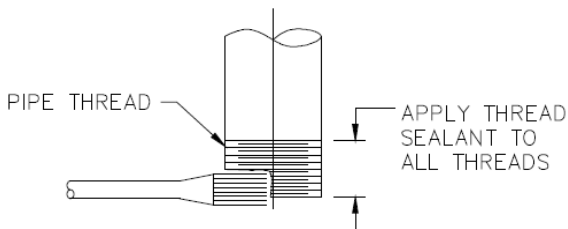
Figure 2

Bell shaped pivot ball Cover, secure with 8-32 screws



Align the above items so they are on the hinge side

Figure A



GR2137

2.3.3.A Pendant Mount with Swivel Kit

2.3.3.A1 Feed conductors through conduit supplied by others (not to exceed 30").

2.3.3.A2 Remove swivel kit from packaging, feed conductors through the bell-shaped pivot ball, apply sealant to threads and attach to conduit

2.3.3.A3 Bend the "T" slot on the Cover .25-.5". Secure Cover to mating electrical box using 8-32 box screws (provided by others); 25-30 in. lbs. THE "T" SLOT MUST BE POSITIONED ON THE HINGE, SO THE DISTRIBUTION IS POINTED IN THE CORRECT DIRECTION.

2.3.3.A4 Screw conduit into threaded conduit hub located on top of fixture making sure that at least three full threads are engaged. THE SLOT BELL SHAPED PIVOT BALL MUST BE CENTERED BETWEEN THE HINGES. Use caution not to twist conductors.

2.3.3.A5 Safely lift and position the bell-shaped pivot ball into the Cover. Tilt and position so the slot on the fixture portion slides into the "T" slot on the Cover.

2.3.3.A6 Connect fixture wires to appropriate voltage supply wires using proper sized connectors. Supply side ground wire to green fixture lead--Supply side neutral wire to white fixture lead--Supply side line voltage to black fixture lead.

2.3.3.B Pendant Mount Without Swivel Kit

2.3.3.B1 Feed conductors through conduit supplied by others (not to exceed 30").

2.3.3.B2 Apply sealant to threads. Screw conduit into threaded conduit hub located on top of fixture making sure that at least three full threads are engaged.

2.3.3.B3 Safely lift and secure conduit to electrical box.

2.3.3.B4 Connect fixture wires to appropriate voltage supply wires using proper sized connectors. Supply side ground wire to green fixture lead--Supply side neutral wire to white fixture lead--Supply side line voltage to black fixture lead.

2.4 Surface Mount Top Feed Installation.

2.4.1 Remove fixture from packaging and review fixture labels for warnings and electrical connection information.

2.4.2 Unlatch the closure clips on fixture or remove the tamper resistant hardware and open the fixture.

2.4.3 Disconnect the electrical connection from the top mounting housing and electrical housing as shown in Figure 3. Disconnect any other harnesses as shown in Figure 3. Carefully remove the top mounting housing from the electrical housing by lining up the keyway on the hinge.

Figure 3

Quick Disconnect Harness:

Prior and after installation:



During installation:



2.4.4 On the top mounting housing, remove the knockouts using screw driver and hammer in order to line up to the corresponding junction box, as shown in Figure 4.

2.4.5 Use 25 in. Lb. Torque to properly secure the electrical box to the top mounting housing.

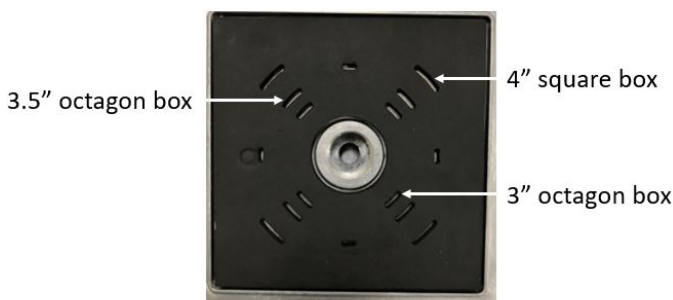
2.4.6 Connect 12" fixture wires to appropriate voltage supply wires using proper sized connectors. Supply side ground wire to green fixture lead--Supply side neutral wire to white fixture lead--Supply side line voltage to black fixture lead.

2.4.7 Secure housing to junction box using 8-32 screws (provided by others); 25-30 in. lbs.

2.4.8 Align the keyways on the mounting housing with the electrical housing. Once keyways are aligned, slide electrical housing to reconnect.

2.4.9 Re-connect all harnesses and close fixture, ensuring no wires are being pinched between the mounting and electrical housing. Latch the closure clips on fixture or re-attach the tamper resistant hardware.

Figure 4



2.5 Surface Mount Side Feed Installation.

2.5.1 Remove fixture from packaging and review fixture labels for warnings and electrical connection information.

2.5.2 Unlatch the closure clips on fixture or remove the tamper resistant hardware and open the fixture.

2.5.3 Disconnect the 12" electrical connection from the top mounting housing and electrical housing, as shown in Figure 3 (power leads are contained in the luminaire but need to be disconnected for installation). Disconnect any other harnesses as shown in Figure 3. Carefully remove the top mounting housing from the electrical housing by lining up the keyway on the hinge.

2.5.4 On the top mounting housing, remove the knockouts using screw driver and hammer in order to line up to the corresponding junction box, as shown in Figure 4.

2.5.5 Secure housing to junction box using 8-32 screws (provided by others); 25-30 in. lbs.

2.5.6 Remove the threaded plug using the end of a standard socket. Secure to conduit. Apply thread sealant completely around external threads of all entry pipes, and completely around the internal threads of housing. Force the lubricant into the threads. Seal must be air tight. See Figure A.

2.5.7 Connect the fixture's 12" electrical connection wires to appropriate voltage supply wires using proper sized connectors. Supply side ground wire to green fixture lead--Supply side neutral wire to white fixture lead--Supply side line voltage to black fixture lead.

2.5.7 Align the keyways on the mounting housing with the electrical housing. Once keyways are aligned, slide electrical housing to reconnect.

2.5.8 Re-connect all harnesses and close fixture, ensuring no wires are being pinched between the mounting and electrical housing. Latch the closure clips on fixture or re-attach the tamper resistant hardware.

2.6 Wiring the Luminaire – Emergency Battery Pack (EM) Luminaires only

2.6.1 Follow steps 2.2 to 2.5

2.6.2 Connect the line voltage supply wires to the luminaire input wires. For the emergency battery pack, the unswitched line will be labeled on the red unswitched line leaving the top or side of the fixture.

2.6.3 Connect the battery pack inverter (red and white wires with clear, plastic caps) to enable the battery backup

CAUTION: The emergency battery pack must be allowed to charge for 24 hours prior to testing operation. The battery will continuously discharge until it is drained and will begin charging when the luminaire is energized.

CAUTION: Luminaires with an emergency battery pack cannot be mounted higher than 10.58 ft. from the ground.

2.7 Bird Shroud Accessory Installation.

2.7.1 The Parkpak bird shroud (BSPPSQL2) is shipped as a separate item from the factory and is only to be used on pendant mount applications.

2.7.2 Prior to installing PPSQL2 fixture, slide the bird shroud up onto conduit.

2.7.3 Installing PPSQL2 fixture per Section 2.3.

3. MAINTENANCE

3.1 Cleaning

3.1.1 Make sure the unit is de-energized.

3.1.2 Wipe off exterior dirt and debris using a soft, clean cloth.

CAUTION

DO NOT USE ABRASIVE CLEANSERS ON OPTICAL SURFACES. THEIR USE MAY RESULT IN THE LOSS OF OPTICAL EFFICIENCY.

3.2 Electrical Component Replacement.

3.2.1 Unlatch closure clips and pivot the electrical assembly to a 90 degree angle.

3.2.2 Locate the component that needs to be replaced.

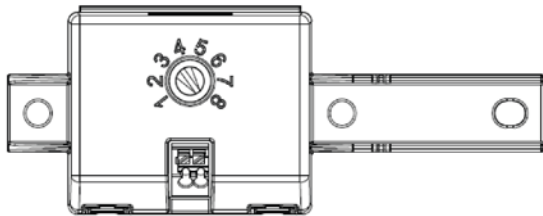
3.2.3 Remove the component by detaching the wires of the component from their WAGO connectors and by removing the screws holding the component in place.

3.2.4 Replace the defective component with the new component by reattaching the wires of the component from their WAGO connectors and by tightening the screws holding the component in place.

4 Limited Warranty and Limitation of Liability

4.1 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_Conditions



Field Adjustable Output Module

The Field Adjustable Output (AO) module is an onboard device that adjusts the light output and input wattage to meet site specific requirements, allowing a single fixture configuration to be flexibly applied in many different applications. The AO option is available on the PPSQL2 series.

5 Adjustable Output (AO) Tables

P10 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	93%	94%
6	81%	83%
5	68%	71%
4	57%	59%
3	45%	47%
2	33%	34%
1	21%	21%

P40 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	92%	95%
6	79%	84%
5	66%	73%
4	53%	61%
3	41%	49%
2	29%	35%
1	18%	21%

P20 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	93%	94%
6	81%	83%
5	68%	71%
4	56%	59%
3	44%	47%
2	32%	34%
1	20%	21%

P50 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	93%	95%
6	81%	84%
5	62%	66%
4	44%	47%
3	32%	34%
2	20%	21%
1	14%	14%

P30 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	93%	95%
6	80%	84%
5	67%	72%
4	55%	60%
3	43%	48%
2	31%	34%
1	19%	21%

P60 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	93%	95%
6	81%	83%
5	68%	72%
4	55%	59%
3	43%	46%
2	31%	33%
1	20%	21%

Adjustable Output (AO) Tables (Cont'd.)

P70 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	93%	95%
6	80%	84%
5	67%	73%
4	54%	60%
3	42%	47%
2	30%	34%
1	19%	21%

P80 - AS and AH		
AO Position	% Lumens	% Wattage
8	100%	100%
7	93%	95%
6	80%	85%
5	67%	74%
4	55%	63%
3	42%	50%
2	29%	35%
1	17%	21%



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