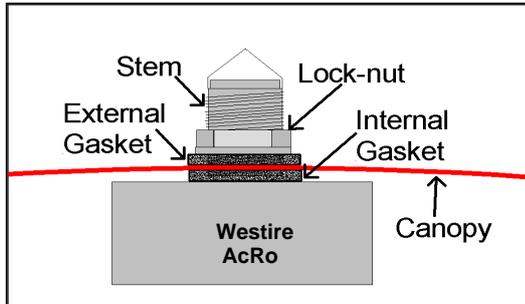


- 1) Decide where on the canopy the sensor head is to be positioned. The sensor head should be facing upwards when installed. **The area where the AcRo is to be positioned should be flat and smooth on both sides.** Drill a 20mm hole in the Canopy.



- 2) Place a Cork gasket on the stem and push the stem through the hole in the canopy.
- 3) Place the second Cork gasket on to the stem
- 4) Whilst holding the body of the Westire AcRo screw the locknut onto the stem and tighten securely. The locknut should be tightened to a torque of approximately 2 foot/lb (See torque section below)
- 5) Once fitted make sure that the upward pressure exerted is from the gasket and not from the body of the AcRo. This can happen if the curvature of the canopy is too great. See fig 2 below

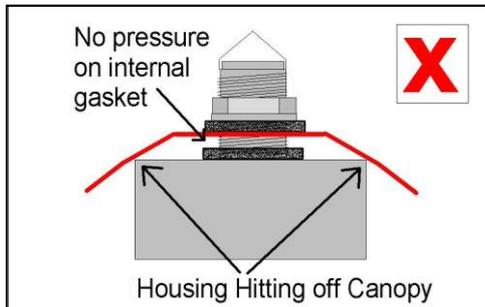


FIG 2 The curvature of the canopy is too great and the AcRo body is applying the upward pressure which means no pressure on the internal gasket, this is vital if a correct seal is to be achieved.

- 6) If the curvature of the luminaire is too great this can be overcome by adding extra internal gaskets as shown in fig 3 below. If extra gaskets are required please contact your Westire sales representative.

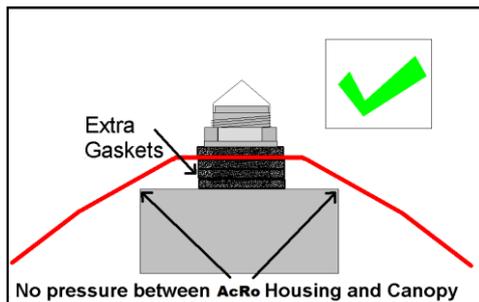


FIG 3. With the extra gaskets added the AcRo housings is moved away from the canopy leaving all the upward pressure being applied from the gaskets.

- 7) Each different type of luminaire into which an AcRo is fitted should be checked to ensure a good seal is made. The first luminaire when fitted with the AcRo should be checked at the factory. A simple test is outlined below. If the seal is good and a consistent installation process is implemented there should never be a problem with the seal.

TORQUE

In the fitting instructions above you are required to apply 2 foot/lbs of torque to the lock nut to achieve a good seal. This is best done with a torque wrench, however if a torque wrench is unavailable the following may be useful:

Whilst holding the AcRo body hand-tighten the lock nut fully. Then using a 23mm spanner tighten **the nut 1¼ more turns**. This approximates to 2 foot/lb torque however this is only a very rough guide.

Installation into a 'Ribbed' Luminaire

Some luminaires have 'ribs' on them running radially from the hole where the stem is to be inserted. These 'ribs' are problematic for achieving a correct seal on the AcRo stem. As can be seen from fig 4 below when the stem is tightened the internal gasket is deformed slightly and can not form an exact seal around the rib.

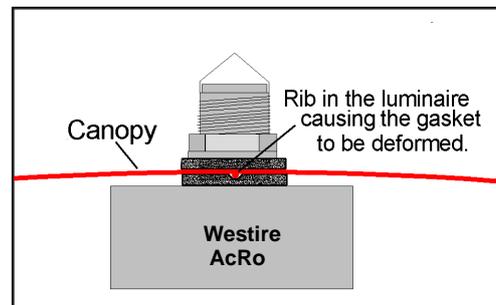


FIG 4. A good seal cannot be achieved around the rib.

It is recommended that a layer of silicon sealer be applied to the top of the internal gasket before the stem is pushed through the luminaire canopy. The installation can then continue as described above. When the lock nut is tightened a good seal will be formed around the rib by the silicon.

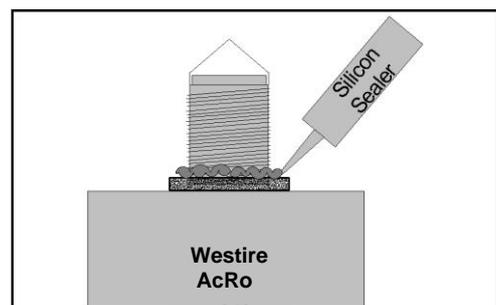


FIG 5. Apply silicon sealer to the gasket

Testing the Seal on the Sensor Head

Every time a Westire AcRo is being installed into a new type of luminaire for the first time the seal on the Sensor head should be checked to ensure a good seal can be achieved. To carry out a simple and quick test on the sensor head do the following:

- 1) Fit the sensor as described above.
- 2) Once satisfied that the sensor is correctly located and tightened stuff some tissue paper around the internal gasket between the AcRo housing and the canopy. Ensure the tissue paper is tightly pressed against the gasket as shown in fig 6.

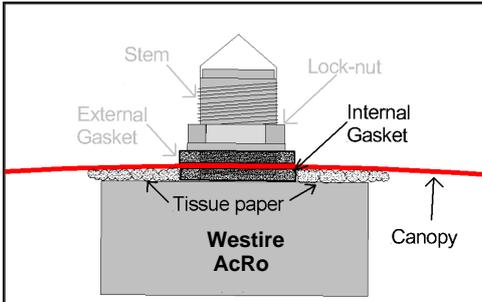


FIG 6 Push the tissue tight around the gasket

- 3) Close and seal the luminaire. Take the luminaire outside and using a water hose with strong pressure (Not a Power Hose!) aim the stream of water directly at the sensor head. Try to get the stream of water to hit the sensor head from all angles including straight down from above. Do this for approx 10 Minutes.
- 4) Dry off the outside of the luminaire. Open it up and remove the tissue paper. If the seal is good the tissue should be absolutely dry. If there is any water on the tissue then you will need to start the entire process from the beginning until a good seal is achieved. Once a good seal is achieved ensure that all installations are carried out in the exact same manner to ensure a consistency of seal.

Mounting the AcRo

Ensure the Westire AcRo including its cables is not mounted where it can come in contact with a surface whose temperature may exceed 70 degrees Celsius.

The light sensor must be mounted such that artificial light sources (including the lamp it controls) do not result in unintended switching.

Ensure the integrity of the Luminaire Sealing rating is not compromised with snagged wires, under tightened locknut, gasket placement etc

Once mounted ensure the Light Sensor is protected during further luminaire processing, transportation etc

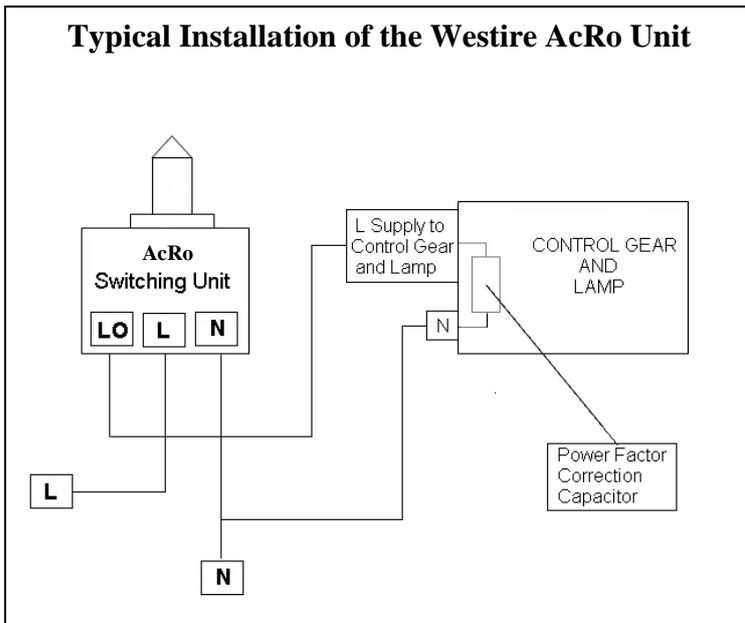
WARNING !

DO NOT DROP – Handle with extreme care

Over Rated fuse in the installation or Column Base will damage PECU if a short circuit develops in the lantern.

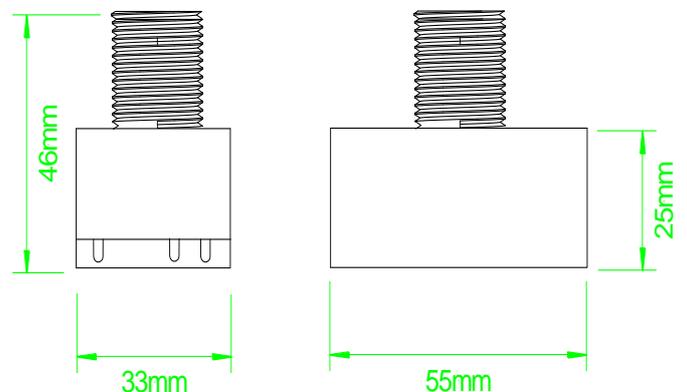
DO NOT SUBJECT PECU TO INSTALLATION TEST.

Typical Installation of the Westire AcRo Unit



NOTE: The PECU will switch on lamp for 25 seconds after installation. Normal operation is then resumed

Dimensions



NOTE:

Tampering or carrying out any modifications to this product will affect the guarantee and reliable operation. Do Not Modify the Westire AcRo Enclosure or Cabling apart from any necessary shortening of L, N or LO Cables