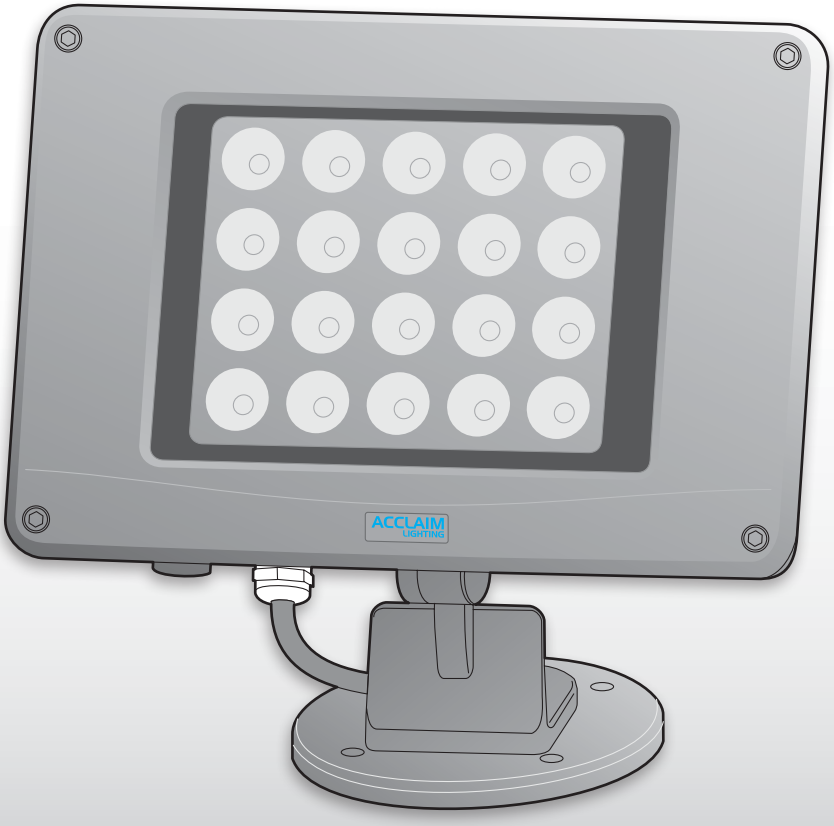
ACCLAIM LIGHTING



Dyna Flood SO / HO™

User guide

Contents

Introduction

Welcome

Welcome to the Dyna Flood SO (Standard Output) and HO (High Output) range from Acclaim Lighting. These rugged LED-powered fixtures are designed to replace traditional external flood lights while using a fraction of the power. Featuring a die-cast aluminum body throughout with full IP66 environmental rating, these fixtures are built to last. A choice of standard gray, black or white finishes plus special-order custom colors are available.

All models feature white LED emitters with a choice of color temperature options from 2700K, 3000K, 3500K to 4000K (set at manufacture) to suit your installation.

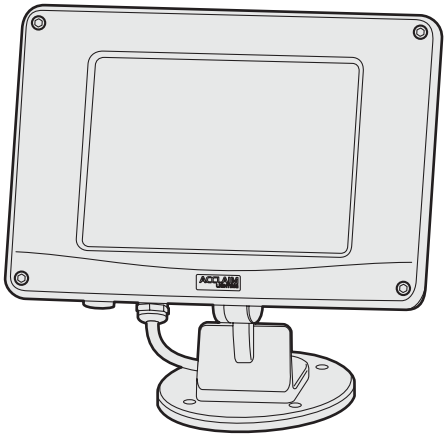
Dyna Flood SO and HO fixtures are designed to be simple and straight-forward to integrate into existing lighting installations. Straight mains or dimmed (leading edge, trailing edge or sinewave - see page 11 for details) inputs can be fed straight to the unit - no other power input is required. Thanks to the smart and highly efficient internal circuitry, the Dyna Flood will smoothly adjust its light output to match the dimmed power input, even at low levels.

A range of optional items such as diffusion filters, a glare shield, a wire guard and extender bars (6", 12" or 36" lengths) are available to adapt the Dyna Flood to match your installation.

Safety

- When fixtures are mounted off-ground, ensure that they are securely fitted to an appropriate mounting surface.
- Ensure that the power input is supplied from a correctly fused, grounded/earthed and environmentally protected location.

Supplied items



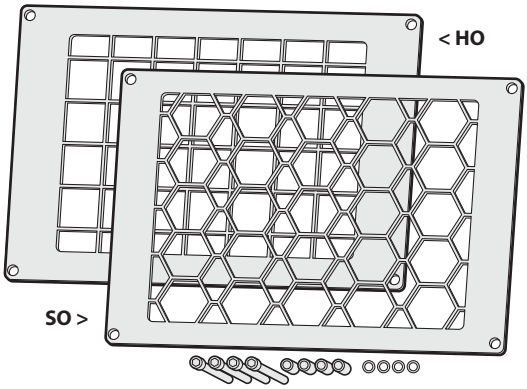
Dyna Flood SO *or* **Dyna Flood HO**

Both variants supplied with integral mounting stand and 17" (430mm) power tails.

Silicone gasket

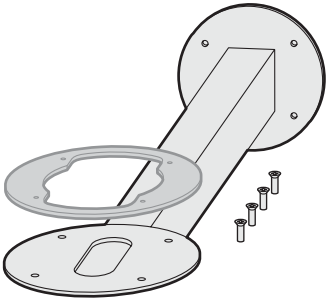
5mm Allen wrench (hex key)

Optional extras

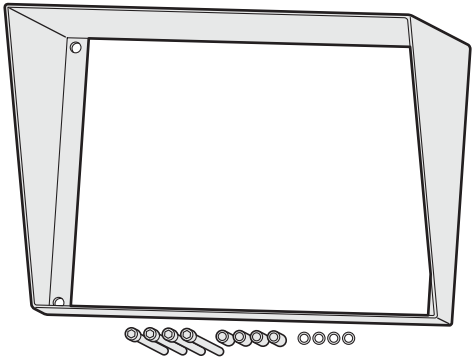


Wire guards
plus bolts, spacers and washers

Extender bars (6", 12" or 36" lengths)
plus silicone gasket and bolts



Range of light shaping filters

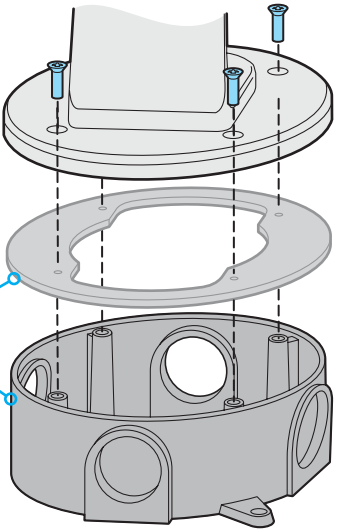


Glare shield
plus bolts, spacers and washers

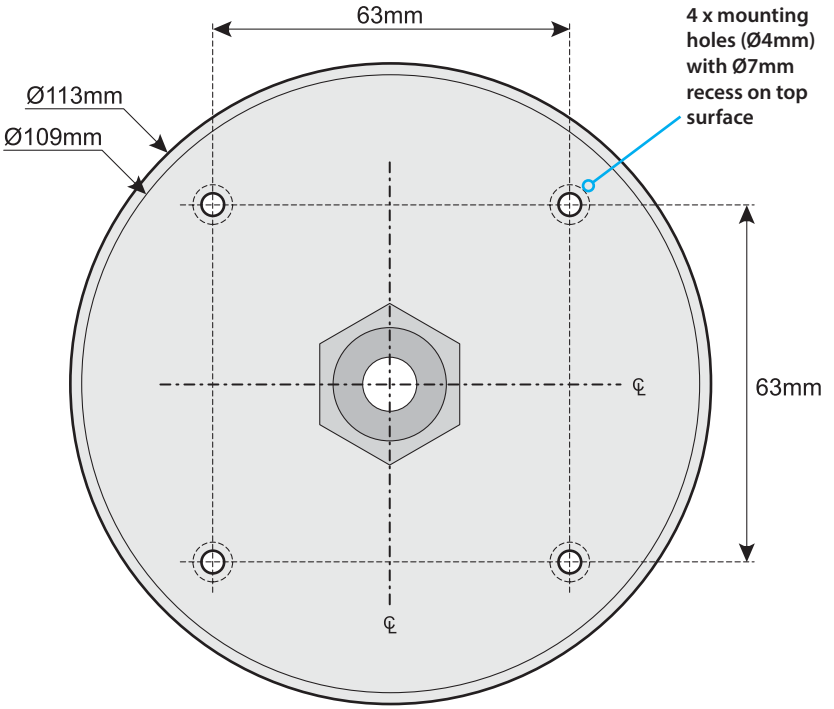
Installation

Mounting

The base plate of the Dyna Flood can be directly mounted onto a standard 4" round electrical outlet box. The data and power cables are fed through two glands in the base plate so allowance should be made for passage of the cable if mounted on a flat surface. You should use bolts with countersunk heads (less than Ø7mm).



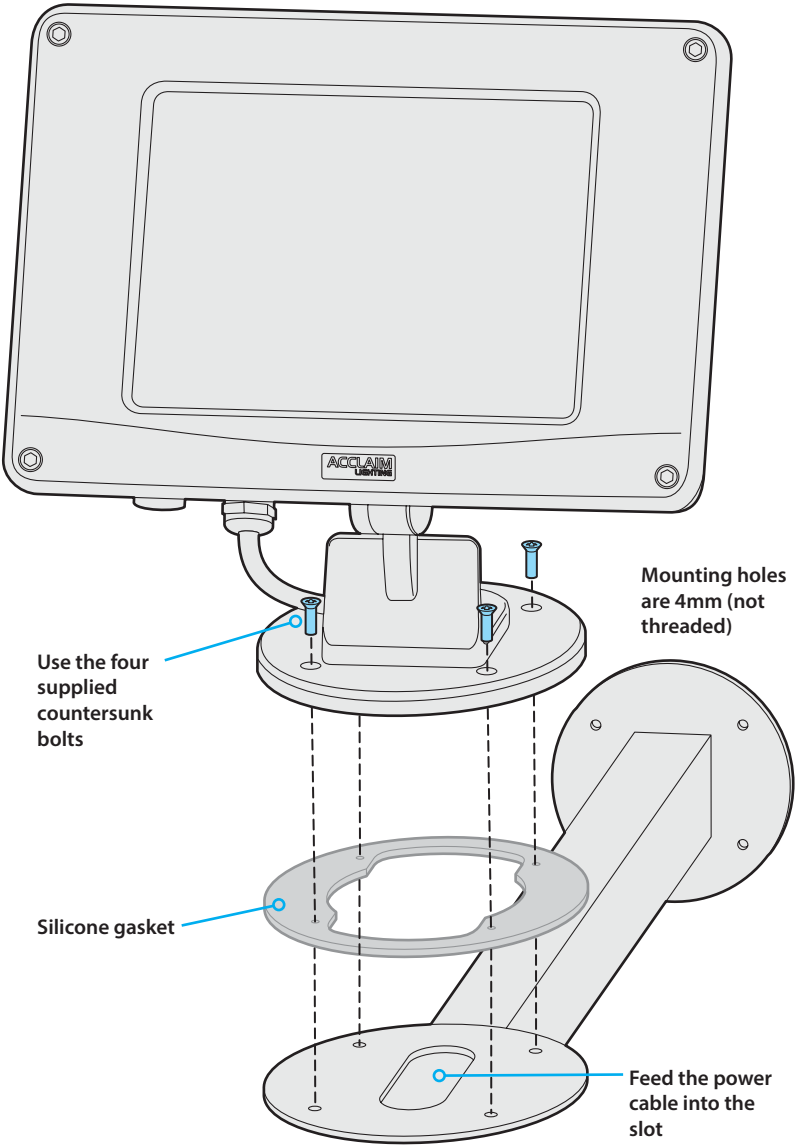
The dimensions of the underside of the base are shown below (at 75% of actual size):



Optional extender bar

A common fixing method is to use one of the optional extender bars. These are available in 6", 12" and 36" lengths.

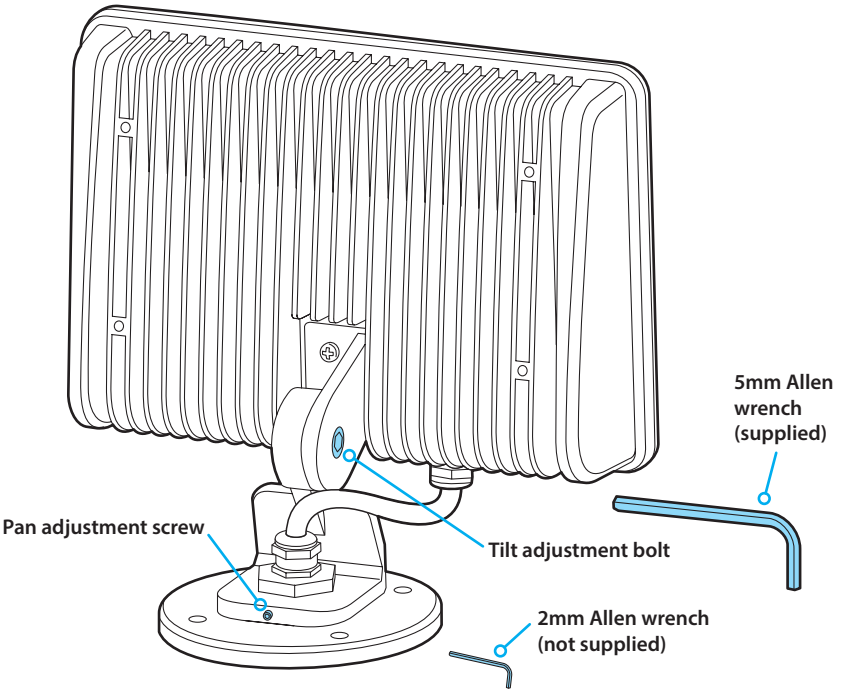
The Dyna Flood can be arranged on the extender bar facing forward or back, as required.



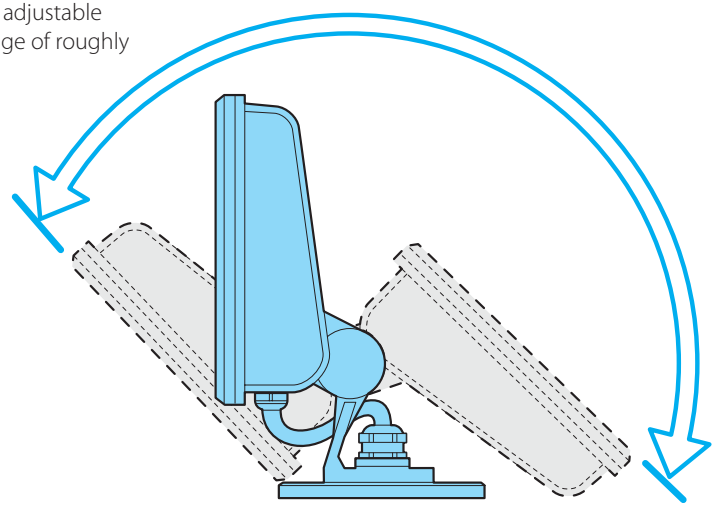
Note: When feeding the cable through the extender bar check for any metal burrs that may have formed during manufacture - take care not to snag the cable.

Pan and tilt adjustment

To prevent any movement once set, the tilt adjustment uses interlocking teeth. This means that you need to slacken the hex bolt completely before the teeth will disengage and allow movement. A 5mm Allen wrench (hex key) is supplied with the fixture for adjusting the tilt angle. A 2mm Allen wrench (not supplied) is required to adjust the pan angle using the small grub screw in the base.



The tilt angle of the Dyna Flood head is adjustable through a range of roughly 180 degrees.



Fitting a light shaping filter

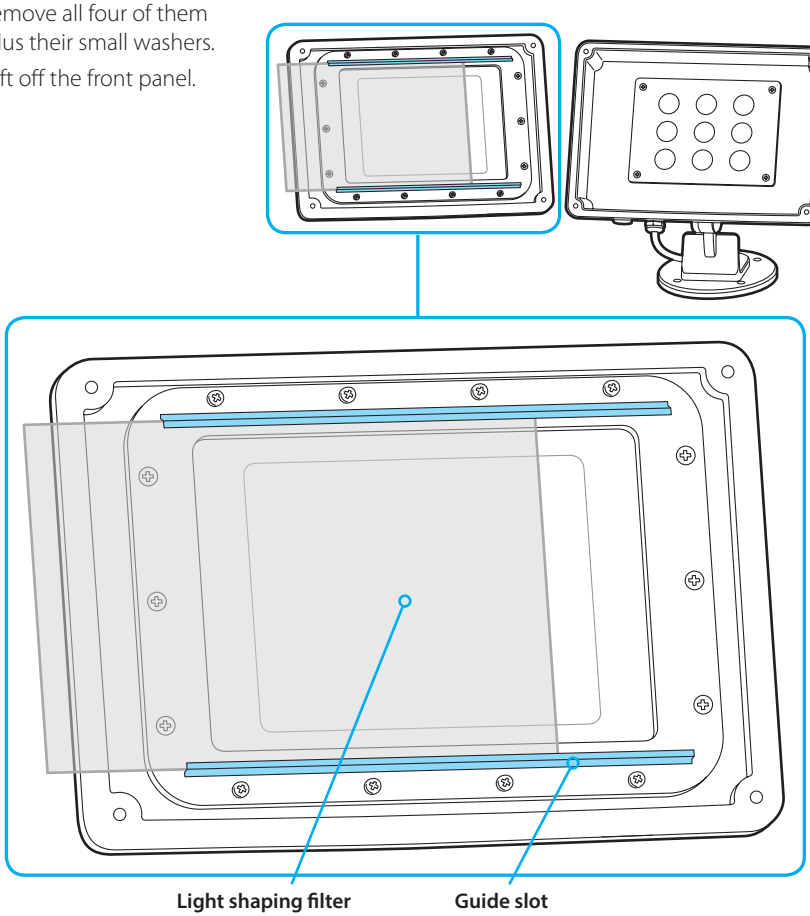
The standard beam angle is 7 degrees. This can be adjusted by inserting an appropriate light shaping filter into the inside of the front panel. The fixture is designed to accept filters that are 6.7" x 4.5" (170 x 115mm) in size and no thicker than 1mm. *Note: Most filters are factory installed before shipment, check your unit.*

To insert a light shaping filter

Note: This operation is best achieved with the Dyna Flood front face lying horizontal.

1 Using a 3mm Allen wrench (hex key), slightly loosen each of the four bolts that secure the front panel to the main body of the fixture. Once all bolts have been suitably loosened, remove all four of them plus their small washers.

2 Lift off the front panel.



3 On the inside face of the front panel you will see two guide slots which hold the light shaping filter. Carefully slide the filter (IMPORTANT: with its coarse side facing the emitters) into the guide slots so that it is held securely.

4 Ensure that the black rubber gasket is correctly in place within its groove around the main body. Carefully replace the front panel and insert the four bolts and their washers.

5 Tighten the bolts until they are hand tight and then tighten them a little at a time in sequence, to avoid warping the front panel. Check that the rubber gasket is forming a water-tight seal.

Fitting the optional wire guard

In installations where there's a risk of damage to the glass lens, the optional wire guard is recommended.

Note: It is possible to install both the wire guard and the glare shield.

To fit the optional wire guard

Note: This operation is best achieved with the Dyna Flood front face lying horizontal.

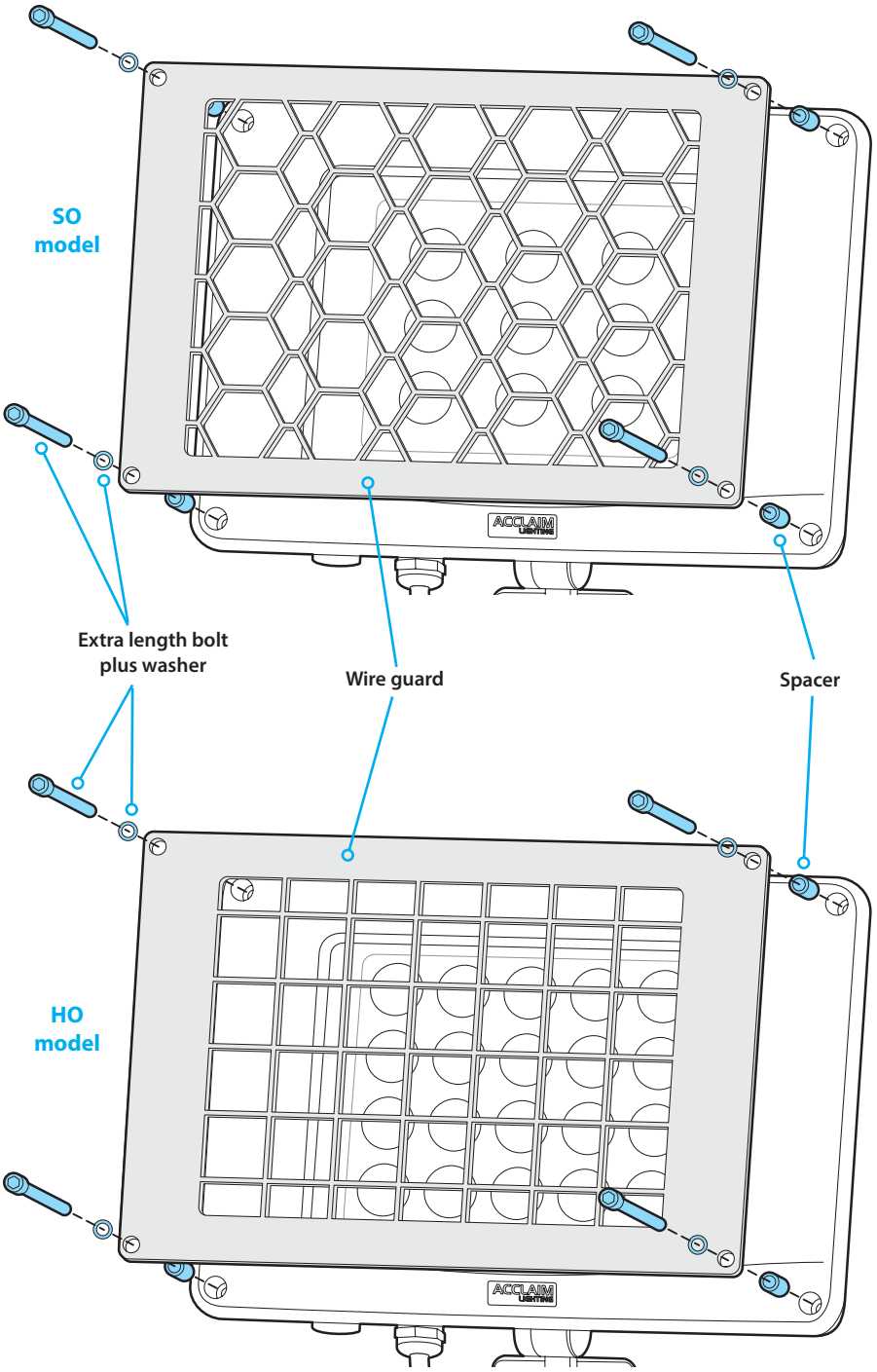
1 Using a 3mm Allen wrench (hex key), slightly loosen each of the four bolts that secure the front panel to the main body of the fixture. Once all bolts have been suitably loosened, remove all four of them plus their small washers. Take care not to dislodge the front panel.

2 In each of the four holes on the front panel, insert one of the spacers (supplied with the wire guard).

3 Place the wire guard onto the front panel so that its mounting holes align with the four spacers.

4 Into each hole insert one of the extra length bolts plus a washer (supplied with the wire guard).

5 Tighten the bolts until they are hand tight and then tighten them a little at a time in sequence, to avoid warping the front panel. Check that the rubber gasket between the front panel and main body has not been dislodged and is forming a water-tight seal.


SO
model
Extra length bolt
plus washer
Wire guard
Spacer
HO
model

Fitting the optional glare shield

In installations where any light spill from the Dyna Flood must be eradicated from a nearby surface, the optional glare shield is recommended.

Note: It is possible to install both the wire guard and the glare shield.

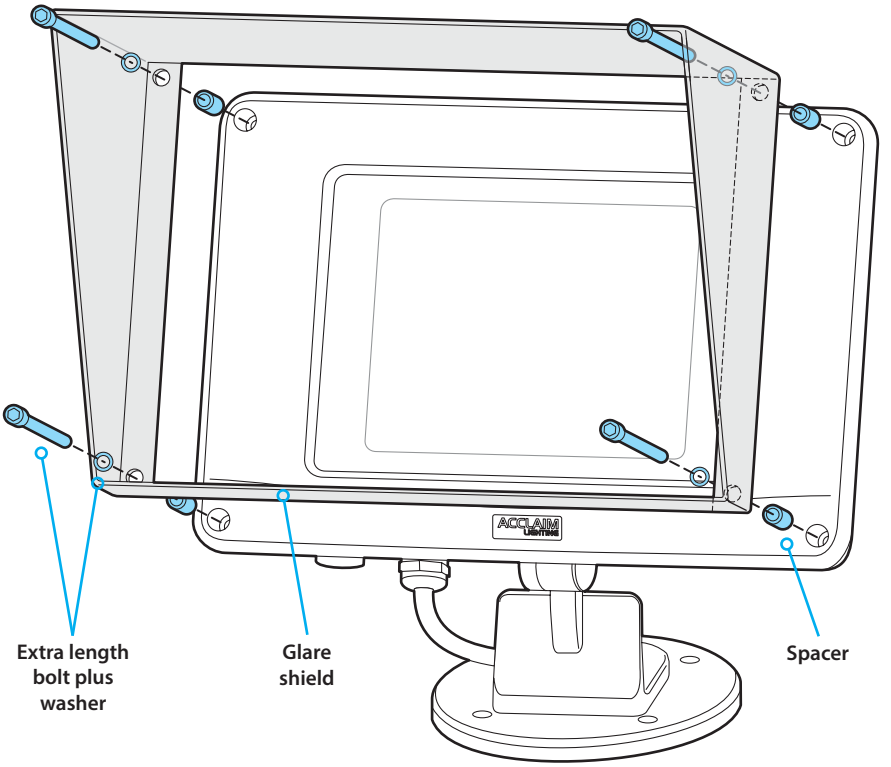
To fit the optional glare shield

Note: This operation is best achieved with the Dyna Flood front face lying horizontal.

1 Using a 3mm Allen wrench (hex key), slightly loosen each of the four bolts that secure the front panel to the main body of the fixture. Once all bolts have been suitably loosened, remove all four of them plus their small washers. Take care not to dislodge the front panel.

2 In each of the four holes on the front panel, insert one of the spacers (supplied with the glare shield).

3 Place the glare shield onto the front panel so that its mounting holes align with the four spacers.



4 Into each hole insert one of the extra length bolts plus a washer (supplied with the glare shield).

5 Tighten the bolts until they are hand tight and then tighten them a little at a time in sequence, to avoid warping the front panel. Check that the rubber gasket between the front panel and main body has not been dislodged and is forming a water-tight seal.

Power wiring

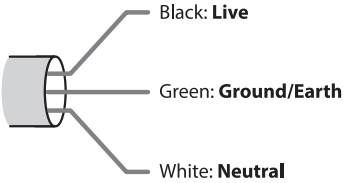
The power cord (roughly 17", 430mm in length) enters the casing via a water-tight gland on the underside of the fixture. As standard the cord is supplied with bare tails.

Both the SO and HO models can accept straight mains inputs (within the appropriate voltage levels for the chosen regional version - see below) or dimmed mains from leading edge (TRIAC*), trailing edge (ELV*) or sinewave dimmers.

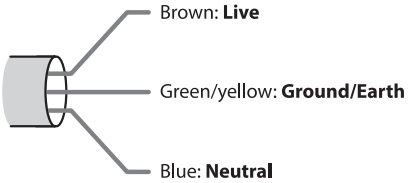
The power requirements are as follows:

- Voltage: 90 to 135VAC, 60Hz (US version) or 200 to 300VAC, 50Hz (European version)
- Power: 25W (SO model), 50W (HO model)

The power cord color designations are as follows:



Power cord colors
US version

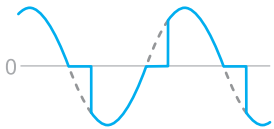


Power cord colors
European version

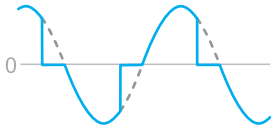
Dimming types

The Dyna Flood circuitry can be used with any of the following types of dimming systems:

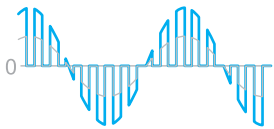
* TRIAC - *(TRIode for Alternating Current)* - Dimmers that use TRIACs for mains dimming operate by delaying the switch-on point until later in each half-wave cycle, thus they affect the leading edge of the sinewave and are best suited to dimming resistive loads such as traditional tungsten lamps. This style of dimming is also called *Forward phase-control*.



* ELV - *(Electronic Low Voltage)* - These dimmers use a transistor type device to cut off the mains output before the zero point of each half-wave cycle, thus they affect the trailing edge of the sinewave. These dimmers avoid the voltage spikes associated with TRIAC-switched leading edge dimmers and are best suited to dimming capacitive loads such as the electronic transformers used with low voltage lighting. This style of dimming is also called *Reverse phase-control*.



Sinewave dimming - These dimmers use an IGBT *(Insulated Gate Bipolar Transistor)* to switch the mains output at high frequencies such that they can recreate a dimmed sinewave with a varying overall amplitude. These dimmers produce the smoothest output of all types.



Please refer to the Acclaim Lighting website for the latest known-good compatible dimmer list.

Further information

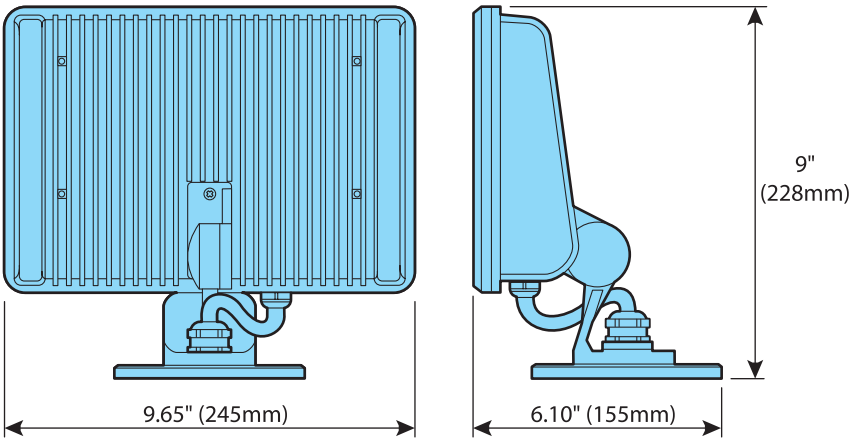
Troubleshooting

No light output is visible when expected.

- Check that power is correctly applied to the fixture and that there is no damage to the power input cord.
- Ensure that the correct model has been selected to suit the local mains voltage level.
- If a dimmed input is being used, check the output from the dimmer. Try temporarily powering the Dyna Flood from an un-dimmed mains socket to confirm correct operation.

Specifications

Native beam angle	7 degrees	
Total lumens	SO model:	1176 @ 7° (CCT: 4000K)
	HO Model:	2455 @ 7° (CCT: 4000K)
Color Rendering Index:	SO model:	80
	HO model:	79
Correlated Color Temp:	2700K, 3000K, 3500K or 4000K (determined at manufacture)	
Efficacy (lm/W)	SO model:	47
	HO model:	49
Lumen maintenance:	70% @ 50,000 hours	
Power input	US version:	90-135VAC 60Hz
	European version:	200-300VAC 50Hz
Power consumption	SO model:	25W
	HO Model:	50W
Operating temperature	-40°F to 122°F (-40°C to 50°C)	
Housing	Die cast aluminum	
Ingress protection	IP66	
Dimensions	9.65" x 9" x 6.10" (245mm x 228mm x 155mm)	
Weight	6 lbs (2.7Kg)	



Limited product warranty

A. Acclaim Lighting™ hereby warrants, to the original purchaser, Acclaim Lighting™ finished products to be free of manufacturing defects in material and workmanship for a standard period of:

- Fixtures: 5 Years (1,825 days) from the date of purchase.
- Flex Products: 3 Years (1,095 days) from the date of purchase.
- Controllers: 2 Years (730 days) from the date of purchase.

It is the owner's responsibility to establish the date and place of purchase and warranty terms by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Acclaim factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Acclaim Lighting™ will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Acclaim Lighting™ shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return there of. Acclaim reserves the right to replace the item with same or similar product at its discretion.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Acclaim concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Acclaim Lighting™ factory unless prior written authorization was issued to purchaser by Acclaim Lighting™; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up nor do we guarantee as part of this warranty any lumen performance during period. Parts not covered by this warranty include: fuses, external power supplies, third party items not manufactures by Acclaim lighting. During the period specified above, Acclaim Lighting™ will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Acclaim Lighting™ under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Acclaim Lighting™. At no time will installation or re-installation or products labor or liability costs will be assumed by Acclaim Lighting. All products covered by this warranty were manufactured after January 1, 2012, and bear identifying serial number marks to that effect.

E. Acclaim Lighting™ reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products describe above. Except to the extent prohibited by applicable law, all implied warranties made by Acclaim Lighting™ in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired.

F. Marine or extreme weather location applications using Acclaim lighting products are subject to a 2 year limited warranty and Acclaim must be notified prior to delivery of units for such applications so that preventative treatment can be made to the products to ensure proper performance and product life with a special marine code coating / sealing process at an additional cost.

G. The consumer's and or dealer's sole remedy shall be such repair or replacement as is expressly provide above; and under no circumstances shall Acclaim Lighting™ be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product. This warranty is the only written warranty applicable to Acclaim Lighting™ products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

www.acclaimlighting.com