

# Safety

- Do not cover the ground contact.
- Do not cover the luminaire, hang or fasten anything from it.
- Do not operate if any visible damage can be seen to the product.
- Do not operate if any water ingress has occurred.
- Do not operate if any smoke, steam or crackling noises can be heard from the luminaire.
- Do not operate if any signs of overheating are recognised.
- Avoid installation in any areas where there is a risk of strong mechanical loads.
- Do not place any material over the lens or LED diode/chip.
- Do not insert objects into the luminaire.
- Do not clean using any solvent based abrasive or aggressive product.
- Do not pull any cables connected to the product.
- Do not direct the luminaire into a persons eyes, as this unit may have an intense light output, which if incorrectly used may cause eye damage.
- Light engines/LED'S and other light sources may heat up, please take care when handling the products.
- The manufacturer will not be deemed liable or held responsible for any damages caused by faults or manufacturing defects that may be present in any of its products or the misuse or incorrect installation of this device. Please refer to our trouble shooting guide for further information.
- The manufacturer will not be held liable for any death(s) or injuries caused by misuse or poor installation or any unreported faults of this product version or versions thereof.
- LED's are sensitive to electrostatic discharge. Do not touch the surface of the LED module.
- Do not connect to a temporary electricity supply, this may damage the electronics.
- Light fittings with an integrated emergency option are with a separate installation and wiring leaflet. Please refer to this manual for further details. If the manual is unavailable please contact an ALL LED representative for assistance.
- It is strongly recommended that a Residual-Current Device (RCD) is used with this product to minimise the risk of electrocution.
- REPLACE DAMAGED PRODUCT IMMEDIATELY.
- Keep away from children.

# Returns & Faulty Items

- If any problem is encountered during or after installation, please call ALL LED technical department to get the problem resolved ASAP.
- Please do not just return the item to the outlet you purchased it from, as you are only entitled to a replacement or refund after the unit has undergone testing and the unit has been confirmed as having a manufacturing defect/fault. Your statutory rights are not affected.
- The manufacturer will not be deemed liable or held responsible for any damages caused by faults or manufacturing defects that may be present in any of its products or the misuse or incorrect installation of this device. Please refer to our trouble shooting guide for further information.
- All installations must be carried out in accordance with this installation guide and user manual.
- All goods are supplied under the terms and conditions of ALL LED LTD, a copy of which may be obtained upon written request.

**Environmental Protection**  
Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice



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This product supplied with a limited guarantee, subject to terms and conditions. The manufacturer will not be deemed liable or held responsible for any damages caused by faults or manufacturing defects that may be present in any of its products or the misuse or incorrect installation of this device. Your statutory rights are not affected.



# INSTALLATION GUIDE ABHW012/CCT



**ENSURE POWER SUPPLY IS OFF WHEN HANDLING ANY ELECTRICAL EQUIPMENT.**

- This product may need to be installed by a qualified electrical installer.
- Please read this guide in its entirety to fully understand the products before attempting any install.
- All electrical work should be completed in accordance with the latest IET regulations, and/or any other relevant rules, regulations or laws of the country in which it is being installed.
- The item must be installed in isolation from any insulating material and is adequately ventilated to prevent premature failure.
- Ensure power supply is isolated prior to installation, maintenance or performing any other form of electrical work.
- In the event of incorrect or improper function with specific regard to any of ALL LED's products contact ALL LED for further advice.

## SAFETY WARNING

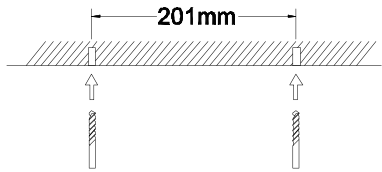
- ENSURE THE PROTECTIVE PLASTIC PLATE LOCATED ON TOP OF THE LED'S IS NEVER REMOVED OR TAMPERED WITH.
- IF THERE IS ANY VISIBLE DAMAGE TO THIS ITEM, PLEASE ENSURE THAT THE POWER IS SWITCHED OFF AND REMAINS OFF.
- DO NOT TOUCH THE LED CHIPS AT ANY POINT DURING, OR AFTER INSTALLATION OF THE LUMINAIRE AS THERE IS RISK OF ELECTRICAL SHOCK.

## Technical Specifications

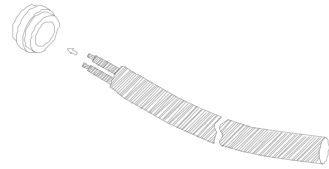
Product Code	ABHW012/CCT		
Useful Luminous Flux (LM)	1036	1143	1027
CCT (Kelvin)	3000K	4000K	6000K
Peak Intensity (cd)	266cd	291cd	261cd
Beam Angle (°)	117°		
SDCM	0.8		
CRI	≥83		
Operating Voltage (V)	170-240V		
Max Output Power (W)	12W		
Operating Current (A max)	0.15A		
Standby Power (W)	≤0.5W		
Power Factor (Pf)	>0.9		
Class	II		
Body Material	Polycarbonate		
Frame Colour	White		
Switching Cycles	15,000		
Ingress Protection	IP65		
Ambient Operating Temperature (°)	-20°C ~ +40°C		
Input Frequency (Hz)	50/60Hz		
Guarantee	3 years		
Life Time (L70 B50)	30,000h		
R9 Colour Rendering Index Value	11		
Survival Factor	0.9		
Lumen Maintenance Factor	96%		
Displacement Factor	>0.9		
Flicker Metric (PstLM)	0.217		
Stroboscopic Effect Metric (SVM)	0.016		

# Installation Guide

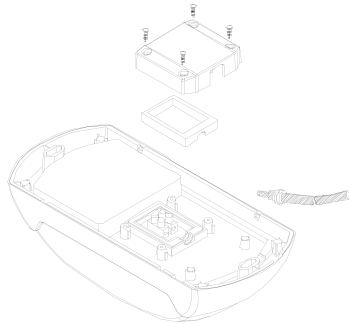
1. We recommend checking the installation with the product for suitability prior to installation.
2. Prepare the surface to receive the luminaire.



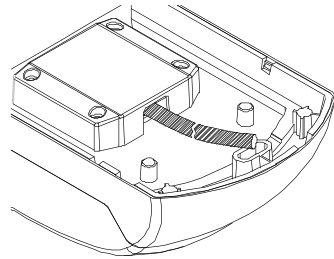
3. Turn off power supply at source to avoid any risk of electric shock.
4. Pass cable through grommet



5. Connect the cables to the terminal by

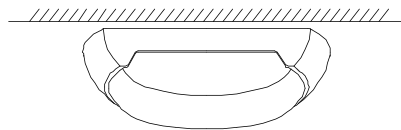


unscrewing the connection cover.



lect the desired output using the CCT switch. Close the connection cover

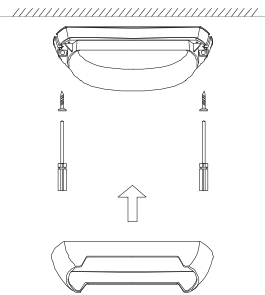
7. Fix the product by using the screws on each side and securing it to the



clicks on all four sides.

9. Turn the power on and check the luminaire is functioning properly.

6. Place the grommet into the groove and se-



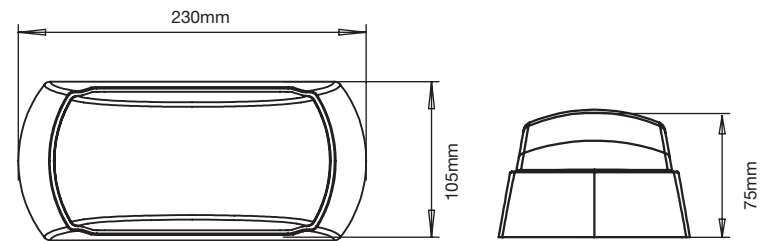
mounting surface.

8. Using gentle force apply the cover back onto the light making sure it

# Trouble Shooting Guide

PROBLEM	CAUSE(S)	SOLUTION(S)
No Light Output From LED's	No power to drive components	A qualified installer/electrician should check the Primary voltage side of the product to check the input voltage.
	Loose connection on circuit	Ensure continuous and correct connection between terminals.
	Overvoltage may have caused damage to the sensitive components	These cases are rare and the item may need replacement and/or investigation as to the cause of failure.
LED's Flashing	Incorrect voltage range being used	Please ensure there is a regulated AC voltage supply within the parameters of the luminaire. Failure to do so will void the warranty.
	LED driver may be connected to a mains dimmer switch	Please remove the dimmer switch and wire the unit to a switch, removing any mains dimmers or other dimmers on the primary side. Use of this product on a dimmer will void the warranty.
	Loose connection on circuit.	Ensure continuous and correct connection between the terminals.

# Dimensions



## ATTENTION

**IF ANY PROBLEMS PERSIST, PLEASE CALL THE ALL LED TECHNICAL DEPARTMENT FOR FURTHER ASSISTANCE.**