

### 1 to 10V DC dimming function for output current adjustment (Typical)

Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95% to 108%

### 10V PWM signal for output current adjustment (Typical): Frequency range - 100 to 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Output current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95% to 108%

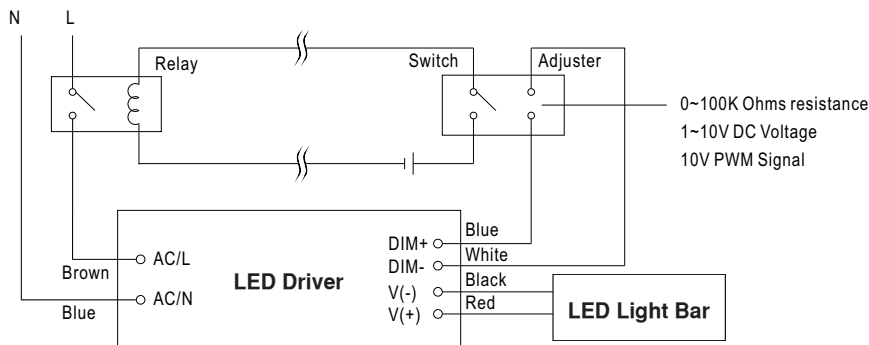
### Reference resistance values for output current adjustment (Typical)

Resistance value	10K $\Omega$	20K $\Omega$	30K $\Omega$	40K $\Omega$	50K $\Omega$	60K $\Omega$	70K $\Omega$	80K $\Omega$	90K $\Omega$	100K $\Omega$	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95% to 108%

### Dimming Connection Diagram

The following diagram shows how the LED Lighting Fixture can be turned ON/OFF with a switch and relay.

- The constant current output level can be adjusted through the output cable by connecting a suitable Adjuster between DIM+ and DIM-.
- The LED Lighting Fixture can be turned ON/OFF by the switch.



### Warranty Statement

**Congratulations!** The product you have selected comes from Hella - one of the world's leading manufacturers of lighting products. The product comes with a 5 year warranty from end user purchase covering faults in materials, components or workmanship.

In the unlikely event that you should experience a confirmed warranty related problem with your purchase, Hella will, at its discretion, either repair, replace or refund the purchase price of the product.

Warranty services may be obtained by returning the product within the warranty period to the Hella Dealer where the product was originally purchased. This warranty is in addition to and does not preclude any other rights or remedies available to the consumer under any local legislation related to the provision of goods or services.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty does not cover:

- 1.) Claim/s as a result of normal wear and tear or of any modifications and / or alterations to the product in any shape or form.
- 2.) Claim/s as a result of non-compliance of the assembly, service and operating instructions and/or any unfit or improper use.
- 3.) Any expenses incurred in the process of making the claim.

Note: For lamps sold in Australia warranty services are provided by Hella Australia Pty Ltd, 54-76 Southern Rd, Mentone VIC 3194. Customer Service 1800 061 729 [custservice@na.hella.com](mailto:custservice@na.hella.com), [http://www.hella.com/produktion/HellaAU/WebSite/Channels/Company/Hella\\_Australia\\_Pty/Hella\\_Australia\\_Pty.jsp](http://www.hella.com/produktion/HellaAU/WebSite/Channels/Company/Hella_Australia_Pty/Hella_Australia_Pty.jsp)

For general comments about HELLA's products please contact us on E-mail at [techfeedback@hella.co.nz](mailto:techfeedback@hella.co.nz)

### INSTRUCTION SHEET

for: **Part No. 1GJ 958 084-xxx**



## BL350 LED Light Bar - 240V AC Version

### Introduction

HELLA LED products offer many advantages over conventional bulb lamps. Significantly reduced power consumption, ultra long life and high tolerance to shock and vibration make LED lamps the ideal choice for the harsh environments.

This LED Lighting Fixture comprises of two main components; the LED Light Bar and the LED Driver.

### LED Light Bar Specification

Light Source	LED
Luminaire performance*	~2200 lumens (white)
Colour Temperature	5000K (white)
Operating Voltage	36V DC
Operating Current	0.7A max.
Power Consumption	26W max.
Housing Material	'Non-metal' thermally conductive housing
Lens Material	Heavy duty Grilamid®
Cable	Pre-wired with 1.7m of sheathed multi-core cable
Degree of Protection	IP66 / IP67
Operating Temperature	-40 to 40°C
Weight	670g (including cable)
Electrical Protection	None
Warranty	5 years

- LED Light Bar is suitable for indoor use or outdoor use.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.4m is not expected.
- The external flexible cable of this LED Light Bar or LED Driver cannot be replaced; if the cord is damaged, the LED Light Bar or LED Driver shall be destroyed.

\* Luminaire Performance refers to the real performance of the lamp, not the much higher theoretical performance of the LEDs, as is often used.

### LED Driver Specification

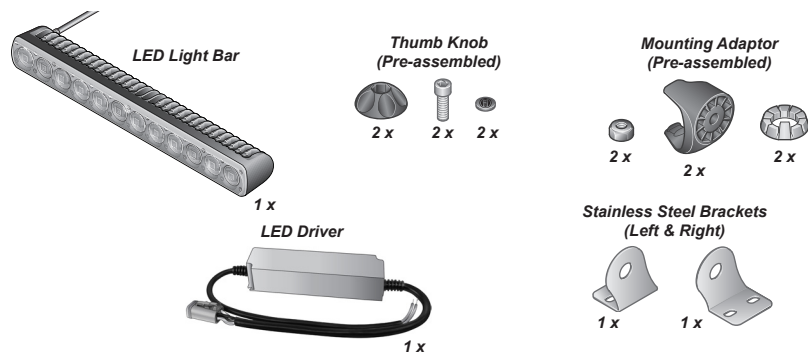
Manufacturer	MEAN WELL
Model	LPF-25D-36
Input Voltage Range	90 to 305V AC / 127 to 431V DC
Input Frequency Range	47 to 63Hz
Voltage Output	36V DC
Constant Current Output	0.7A
Rated Power	25.2W
Dimming	1 to 10V DC / 10V PWM Signal / Resistance
Housing Material	Fully isolated plastic case
Cable	Pre-wired with 0.3m of sheathed multi-core cable on AC input and DC output
Degree of Protection	IP67
Operating Temperature	-35 to 70°C
Weight	380 g
Electrical Protection	Short circuit / Over current / Over voltage / Over temperature
Warranty	5 years

- Only use the LED Driver supplied with the LED Light Bar. HELLA will not be liable for any damages or losses that may occur from using other LED Drivers not certified for use with this product.
- LED Driver is suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immersion in water for longer than 30 minutes.
- LED Driver must be installed by a licensed electrician.
- For further information on the LED Driver, please refer to latest specification on the MEAN WELL website ([www.meanwell.com](http://www.meanwell.com)).

### Electromagnetic Compatibility (EMC)

This LED Lighting Fixture is an electronic device. The electrical circuits contain components that suppress possible interference, both emission as well as susceptibility, to the limits prescribed in international regulations.

## Scope of Supply

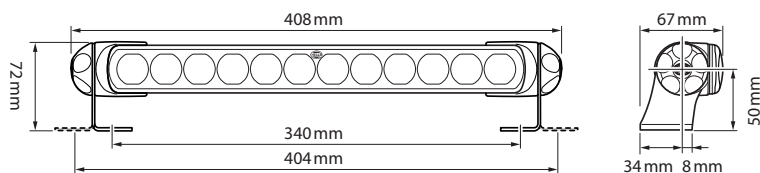
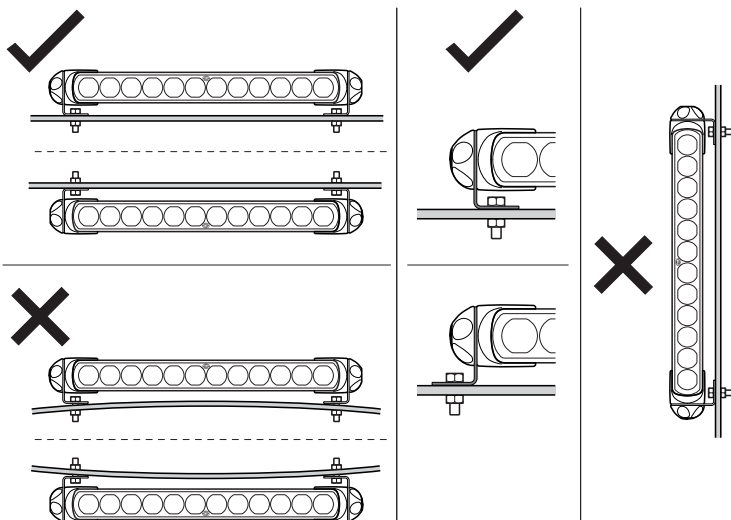


## LED Light Fixture Mounting

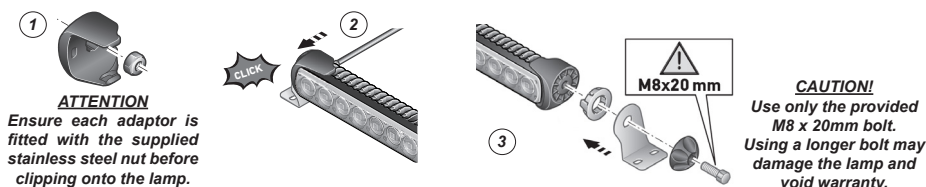
This LED Light Bar is supplied with brackets that require assembly. Before assembly please check that all components have been supplied and read all instructions prior to installation.

**ATTENTION:** Each adaptor will be supplied pre-assembled, you must remove the thumb knob before clipping the adaptors onto the lamp. Ensure each adaptor is fitted with the supplied stainless steel nut before clipping onto the lamp. The nut can not be fitted once the adaptor has been clipped onto the lamp.

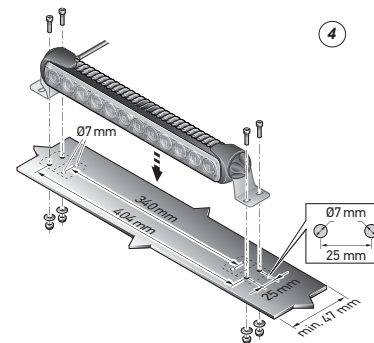
**CAUTION!** Use only the provided M8 x 20mm bolt. Using a longer bolt may damage the lamp and void warranty.



## Clip adaptors onto lamp then assemble bracket.



## Securely fasten lamp onto desired mounting location.



## LED Light Fixture Wiring

The LED Driver should only be used behind a switch or relay without permanent connection to mains supply. Connect mains supply to the LED Driver as per table below.

The output cable for the LED Driver and the input cable for the LED Light Bar are pre-terminated with 4 Pole Deutsch connectors as per the tables below.

LED Driver Cable	LED Driver Cable Colour	Connect to	Deutsch Connector Pole No.	LED Light Bar Cable Colour	Connect to	Deutsch Connector Pole No.
Input Cable	Blue	AC Neutral	-	Black	DC (-) on LED Driver	4
	Brown	AC Live	-	Red	DC (+) on LED Driver	3
Output Cable	Black	DC (-) on LED Light Bar	4	-	Plugged or DIM+	2
	Red	DC (+) on LED Light Bar	3	-	Plugged or DIM-	1
	Blue	DIM+	2			
	White	DIM-	1			

Note 1: Do not reverse the polarity of DC supply to the LED Light Bar as it will cause permanent damage.

Note 2: Do not remove the white sealing plugs from the Deutsch connector if the dimming functionality of the LED Driver is not to be utilised.

## LED Light Fixture Dimming Function

The output of the LED Light Bar can be dimmed through the LED Driver output cable by using a 1 to 10V DC signal, 10V PWM signal or resistance between DIM+ and DIM- cables. Typical values for the dimming signal or resistors are shown in tables on page 4. A suggested wiring diagram is also shown on the same page.

To connect the DIM+ and DIM- cables, remove the two white sealing plugs from the Deutech connector on the cable for the LED Light Bar.

Prepare two cables by crimping a Deutsch pin terminal 0460-202-16141 (HELLA P/N 9.4960.02) to each cable. Insert each cable into the 4 Pole Deutech connector as per the table above.