BLACK MAGIC LED SERIES
AUXILIARY LIGHTS



HELLA legendary lights

OFF-ROAD AUXILIARY LIGHTS

Take the adventure with you

Offroad – a word which many people associate with adventure and wilderness.

For HELLA however, offroad means so much more. For us it means the aspiration to keep developing new and even better products that can withstand extreme demands and stresses. The New HELLA BLACK MAGIC LED SERIES, our latest innovation, is proof of this.

This auxiliary lights, 100% LED technology, is always going to be an obvious choice for offroad use due to its heavy duty blackout design and compact dimensions.



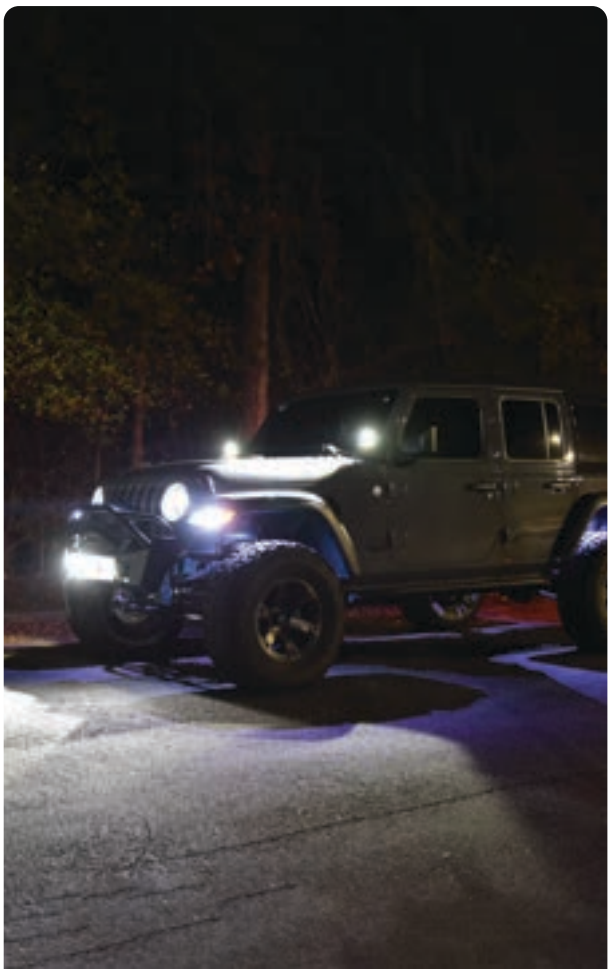








TABLE OF CONTENTS

Introduction 2
Product range 4
Flexible installation 6
Product overview 6

Black Magic LED Series
Cube Sets 8
Mini Lightbars 14
Lightbars 18
Accessories 19





HELLA BLACK MAGIC LED:
REBIRTH OF A LEGEND!

BLACK MAGIC LED
PRODUCT RANGE AT A GLANCE

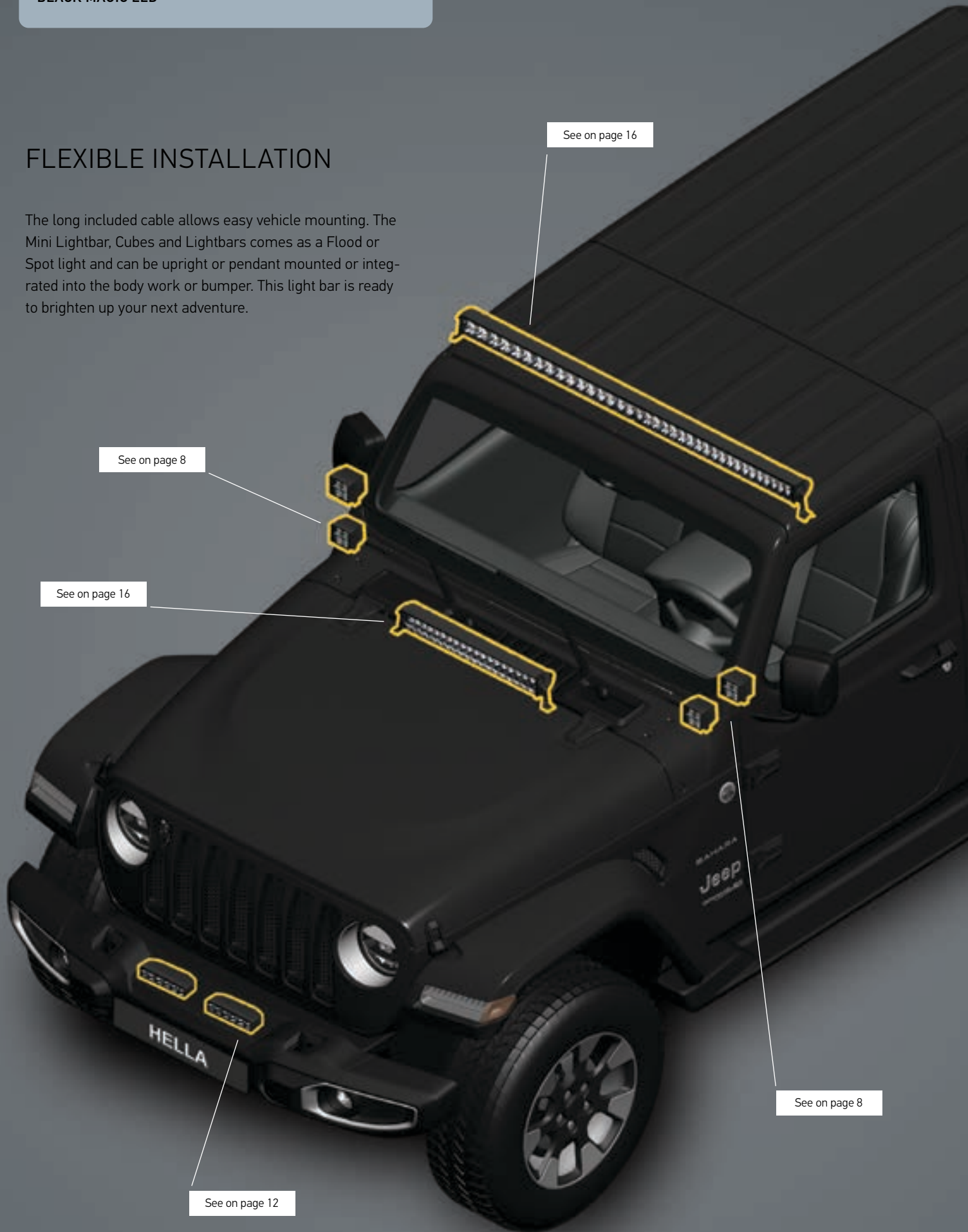
BLACK MAGIC LED AUXILIARY LIGHTS

LED

CUBES	MINI LIGHTBARS	LIGHTBARS
Cubes Kit	**Single**	**Single**
2.7″, Flood 1FA 358 176-801	**6.2″, Flood** 1FB 358 176-201	**20″, Slim** 1FJ 358 176-301
3.2″, Flood 1FA 358 176-811	**6.2″, Spot** 1FB 358 176-211	**32″, Slim** 1FJ 358 176-311
3.2″, Spot 1FA 358 176-821		**40″, Slim** 1FJ 358 176-321
		50″, Slim 1FJ 358 176-331
3.2″, Spot/Flush 1FA 358 176-831	**6.2″Flush Mount, Flood** 1FB 358 176-221	**21.5″, Double** 1FJ 358 176-401

FLEXIBLE INSTALLATION

The long included cable allows easy vehicle mounting. The Mini Lightbar, Cubes and Lightbars comes as a Flood or Spot light and can be upright or pendant mounted or integrated into the body work or bumper. This light bar is ready to brighten up your next adventure.





LED

BLACK MAGIC LED SERIES

THE NEW FULL BLACKOUT APPEARANCE

SPECIFICATIONS

- → Offers some of the toughest dust / water protection on the market
- → Full blackout appearance
- → Including mounting hardware
- → Sleek design
- → Specially developed reflector design for homogeneous illumination

For further information on each product, see general overview on page 8-19



Technical data

Rated voltage	Multi-voltage
Operating voltage	10 – 30 V
Current consumption	2.7″: 1.8 A (12 V) / 0.9 A (24 V) 3.2″: 3.4 A (12 V) / 1.6 A (24 V)
Power consumption	20 W (2.7″) 40 W (3.2″)
Light function	Spot or Flood
Light source	LED
Colour temperature	5,700 Kelvin
Material	Aluminium, black stainless steel bracket
Weight	350 g (single light 2.7″) 358 g (single light 3.2″) 372 g (flush mount 3.2″ single)

Protection class	IP 68, IP 69K
EMC protection	ECE-R10
Mounting	Upright / pendant or flush mounting
Connection	DT connector
Amount of LEDs	4
Length of cable	500 mm cable with DT connector + short adapter harness
Light performance (effective)	1,400 lm (2.7″) 3,000 lm (3.2″)
Application	For Offroad vehicles such as 4x4's, SUV's, Pick-ups, Buggy's, Quads, Trikes, Snow mobiles, Construction Machinery, Tractors



LED

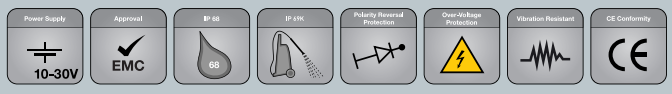
BLACK MAGIC LED SERIES

CUBE SET

HELLA's Black Magic Cubes are available in 2 sizes, 2.7″ and 3.2″. Distinguished by the full blackout appearance and sleek design makes this light stand out from the crowd. Black Magic Cubes received the highest dust and waterproof rating. They come in kits of 2 lights including a wiring harness with DT connector, switch, connector and relays making them easy to install. The 3.2″ is available in Flood or Spot light and can be upright or pendant mounted or integrated into the body work or bumper. HELLA's Black Magic Cubes are ready to brighten up your next adventure.

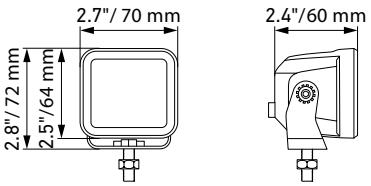
SPECIFICATIONS

- → Full blackout appearance including black brackets
- → Sleek design eliminates dust and dirt from being lodged in edges
- → Each kit includes the wiring harness with DT connector, switch, connector and relays (easy to install)
- → Compact design for universal installation

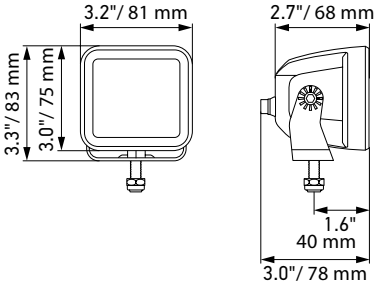


Dimensional sketches of the BLACK MAGIC LED CUBES

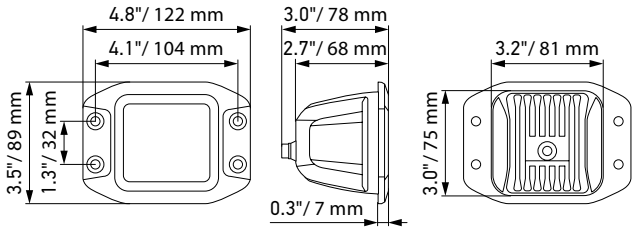
LED Cube 2.7″ (surface mount version)



LED Cube 3.2″ (surface mount version)



LED Cube 3.2″ (flush mount version)

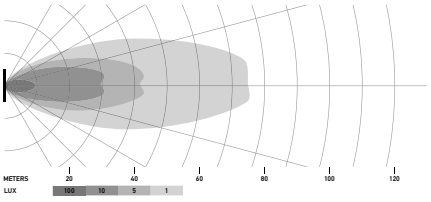


ILLUMINATION

The light distribution charts show the ranges of two lights (a pair).

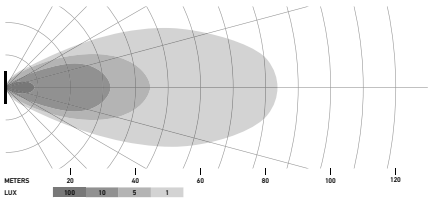
LED Cube KIT 2.7″, Flood





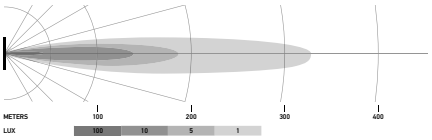
LED Cube KIT 3.2″, Flood





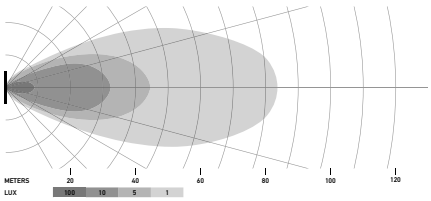
LED Cube KIT 3.2″, Spot





LED Cube KIT 3.2″, Flood / Flush





APPLICATION EXAMPLES







1) 2 x Black Magic Cube: A-Pillar mount – angled outside
2) 2 x Black Magic Cube: Bumper mount

PROGRAM OVERVIEW

Scope of delivery	Description	Part number
	LED Cube Kit 2,7″ (Flood) Includes: (2) LED spotlights, (1) relay, (1) switch and mounting instructions, (1) wiring harness with DT connector	**1FA 358 176-801**
	LED Cube Kit 3.2″ (Flood) Includes: (2) LED spotlights, (1) relay, (1) switch and mounting instructions, (1) wiring harness with DT connector	**1FA 358 176-811**
	LED Cube Kit 3.2″ (Spot) Includes: (2) LED spotlights, (1) relay, (1) switch and mounting instructions, (1) wiring harness with DT connector	**1FA 358 176-821**
	LED Cube Kit 3.2″ (Flood / Flush) Includes: (2) LED spotlights, (1) relay, (1) switch and mounting instructions, (1) wiring harness with DT connector	**1FA 358 176-831**



Technical data

Rated voltage	Multi-voltage
Operating voltage	10 – 30 V
Current consumption	2.6 A (12 V) / 1.3 A (24 V)
Power consumption	30 W
Light function	Spot or Flood
Light source	LED
Colour temperature	5,700 Kelvin
Material	Aluminium, black stainless steel bracket

Weight	470 g (surface mount version) 505 g (flush mount version)
Protection class	IP 68, IP 69K
EMC protection	ECE-R10
Mounting	Upright / pendant or flush mounting
Connection	800 mm cable with open ends
Amount of LEDs	6
Light performance	1,600 lm
Application	For Offroad vehicles such as 4x4's, SUV's, Pick-ups, Buggy's, Quads, Trikes, Snow mobiles

LED

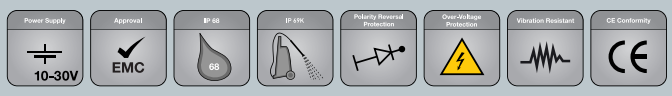
BLACK MAGIC LED SERIES

MINI LIGHTBARS

Distinguished by the full blackout appearance and sleek design that stands out from the crowd with unmatched light output. This product family scored the highest dust / waterproof rating and the edgeless design prevents dust deposits from settling along edges. The long included cable allows for easy vehicle mounting. The Mini Lightbar comes as a Flood or Spot light and can be upright or pendant mounted or integrated into the body work or bumper. This light bar is ready to brighten up your next adventure.

SPECIFICATIONS

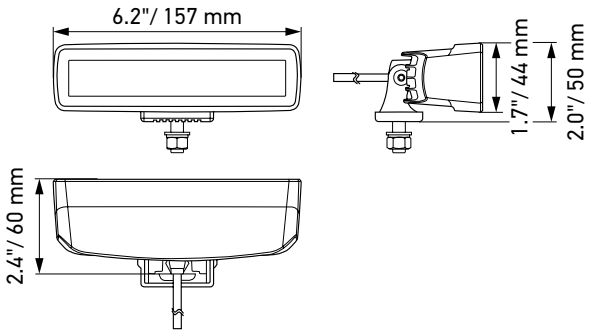
- Offers some of the toughest dust / water protection on the market
- Full blackout appearance
- Including mounting hardware
- Sleek design



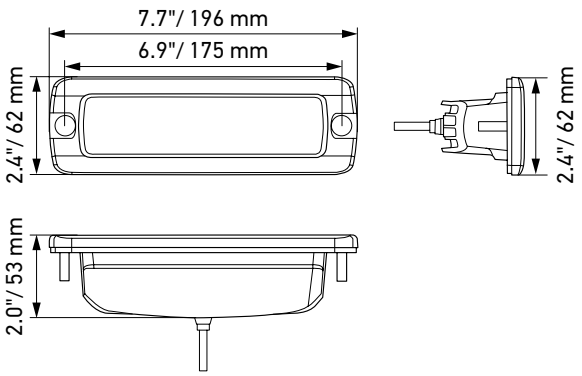
HELLA BLACK MAGIC

Dimensional sketches of the BLACK MAGIC LED MINI LIGHT BARS

Surface mount versions



Flush mount version

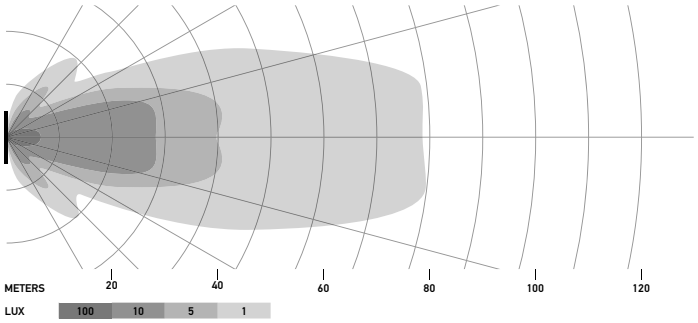


ILLUMINATION

The light distribution charts show the ranges of two lights.

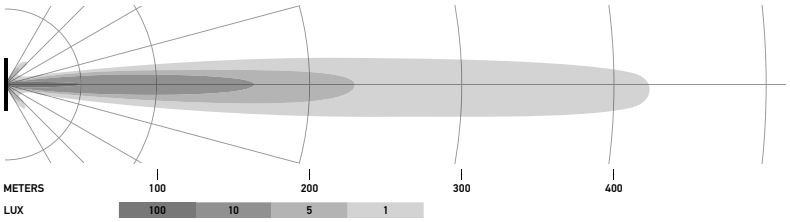
Black Magic Mini Lightbar 6.2″, Flood





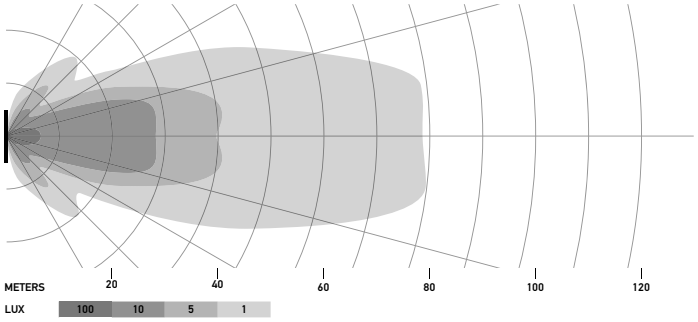
Black Magic Mini Lightbar 6.2″, Spot



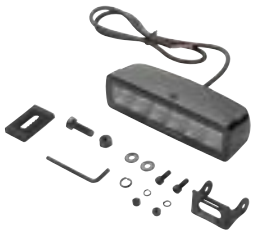


Black Magic Mini Lightbar 6.2″Flush Mount, Flood





PROGRAM OVERVIEW

Scope of delivery	Description	Part number
	LED Mini Lightbar 6.2″ (Flood) Includes: (1) LED spotlight, (1) mounting hardware, (1) mounting instructions	**1FB 358 176-201**
	LED Mini Lightbar 6.2″ (Spot) Includes: (1) LED spotlight, (1) mounting hardware, (1) mounting instructions	**1FB 358 176-211**
	LED Mini Lightbar 6.2″ Flush Mount (Flood) Includes: (1) LED spotlight, (1) mounting frame and screws, (1) mounting instructions	**1FB 358 176-221**

APPLICATION EXAMPLE



1) 2 x Black Magic Mini Lightbar: Front bumper mount



Technical data

Version	LED Slim Lightbar				LED Double Lightbar
	20″	32″	40″	50″	21.5″
Rated voltage	Multi-voltage				
Operating voltage	10 – 30 V				
Current consumption	5.7 – 8 A (12 V) 2.8 – 3.9 A (24 V)	8.9 – 12.5 A (12 V) 4.2 – 6.1 A (24 V)	10.1 – 14.9 A (12 V) 4.9 – 7.8 A (24 V)	11.8 – 19.2 A (12 V) 5.6 – 10.1 A (24 V)	6.7 – 14.6 A (12 V) 3.5 – 7.2 A (24 V)
Power consumption	105 W	165 W	210 W	270 W	200 W
Light function / Light source	Spot (offroad only) / LED				
Colour temperature	5,700 Kelvin				
Material	Aluminium, black stainless steel bracket				
Weight	1,400 g	1,780 g	2,400 g	3,000 g	2,420 g
Protection class/ EMC protection	IP 68, IP 69K, ECE-R10				
Mounting	Upright / pendant				
Connection	2,000 mm cable with open ends				
Amount of LEDs	21	33	42	54	40
Light performance (effective)	max. 6,000 lm	max. 9,000 lm	max. 12,000 lm	max. 15,000 lm	max. 11,000 lm



BLACK MAGIC LED SERIES

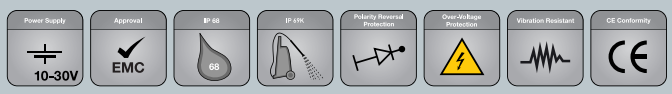
LIGHTBARS

The HELLA Black Magic Lightbars offer driving beams with very powerful lightoutput up to 15,000 lumen, ideal for off-road situations where you need this the most. They have a recognizable and attractive full blackout appearance, slim and edgeless design. Typical applications would be installations as Hood, Bumper, Ground Bumper and Roof Lightbars.
The product scored the highest dust / waterproof rating and the edgeless design prevents dust deposits from settling along edges.

The extra long 2 meter cable allows easy mounting on your vehicle. The Black Magic Lightbars have an integrated thermal sensor that adapts to the ambient temperature. This new feature not only prevents overheating or LED failure, but also increases light output when the ambient temperature is low. In this way the user is given the optimum light under all conditions.

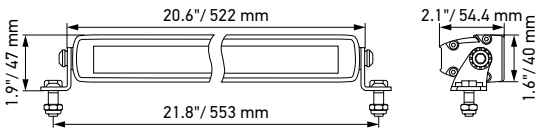
SPECIFICATIONS

- Full blackout appearance
- Including black brackets
- Sleek design
- Temperature Control System
- Intense light output

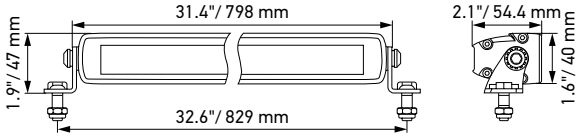


Dimensional sketches of the BLACK MAGIC LED LIGHT BARS

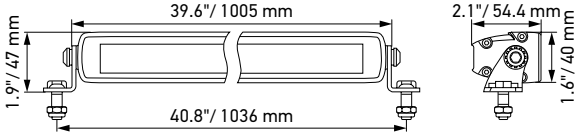
Black Magic Lightbar 20″ (Slim)



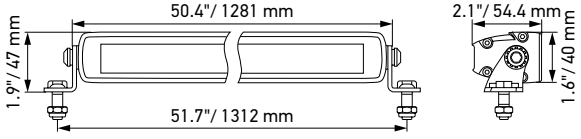
Black Magic Lightbar 32″ (Slim)



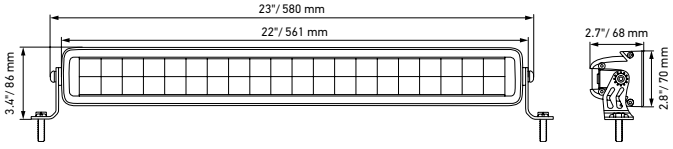
Black Magic Lightbar 40″ (Slim)



Black Magic Lightbar 50″ (Slim)



Black Magic Lightbar 21.5″ (Double)

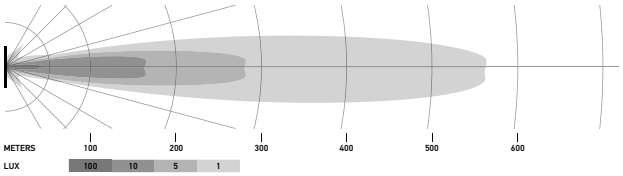


ILLUMINATION

The light distribution charts show the ranges of two lights.

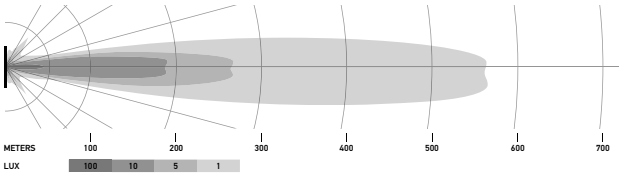
Black Magic Lightbar 20″, Slim





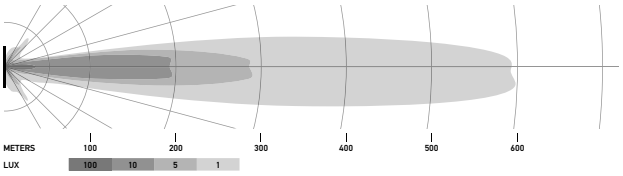
Black Magic Lightbar 32″, Slim





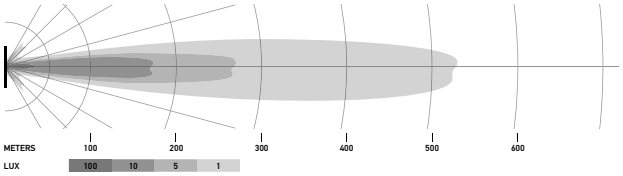
Black Magic Lightbar 40″, Slim





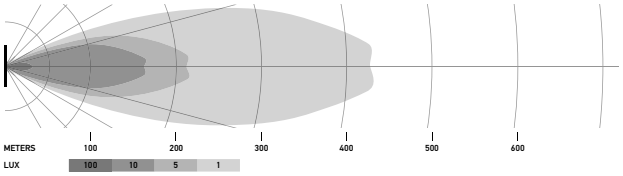
Black Magic Lightbar 50″, Slim





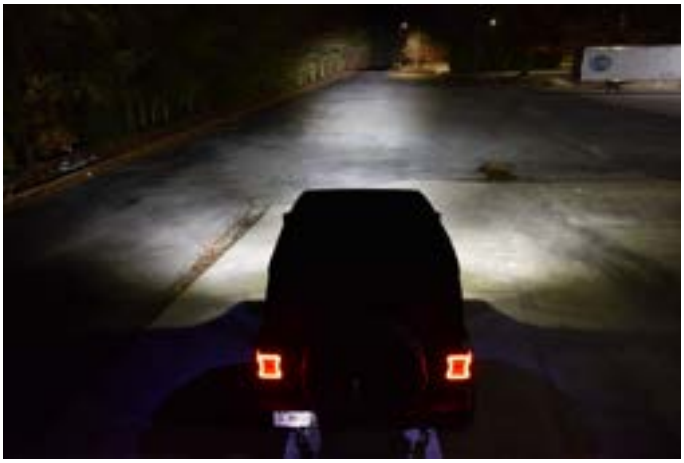
Black Magic Lightbar 21.5″, Double





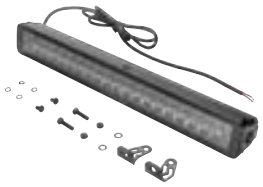
APPLICATION EXAMPLES





Illumination shown in photo made by one: 1 x 40″ Black Magic Slim Lightbar (Hood mount)

PROGRAM OVERVIEW

Scope of delivery	Description	Part number
	LED Slim Lightbar 20″ Includes: (1) LED spotlight, (1) mounting hardware, (1) mounting instructions	**1FJ 358 176-301**
	LED Slim Lightbar 32″ Includes: (1) LED spotlight, (1) mounting hardware, (1) mounting instructions	**1FJ 358 176-311**
	LED Slim Lightbar 40″ Includes: (1) LED spotlight, (1) mounting hardware, (1) mounting instructions	**1FJ 358 176-321**
	LED Slim Lightbar 50″ Includes: (1) LED spotlight, (1) mounting hardware, (1) mounting instructions	**1FJ 358 176-331**
	LED Double Lightbar 21.5″ Includes: (1) LED spotlight, (1) mounting hardware, (1) mounting instructions	**1FJ 358 176-401**

ACCESSORIES

Scope of delivery	Description	Part number
	Slim Lightbar Back Side Mounting Bracket + screws set (2 pcs), recommended to be used for extra support for 40″ and 50″ Lightbar	**8HG 358 176-341**



HELLA Asia Singapore Pte Ltd
Regional Headquarters Asia Pacific
Independent Aftermarket
2 International Business Park
#02-12 The Strategy
Singapore 609930
Tel: +65 6854 7300
Fax: +65 6854 7302
E-mail: info.sg@hella.com
Internet: www.hellaasia.com

© HELLA GmbH & Co. KGaA, Lippstadt
9Z2 999 142-852 J01791/KB/09.21/0.1
Printed in Germany
Subject to technical and price modifications.

www.hella.com/offroad