

Date:

March 2019

Description:

ARB Intensity V2 Driving Lights & Loom (Flood and Spot)

Application:

Driving Lights

Part No. & Barcode:

See Table on Page 6

Product Group:

399 - ARB Driving Lights

407 - ARB Auxiliary Lighting Looms

Availability Date:

March 2019



Product Specification

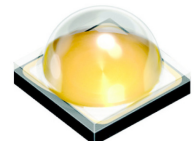
The iconic driving light has been reborn, incorporating the latest optic and LED technology, with subtle styling updates, the ARB Intensity V2 has pushed the limits of driving light technology once again.

During the original V1 development stage, many advances in LED and optics design meant that the LED array and circuitry changed numerous times. With many tens of thousands to be invested in tooling, this meant that the design of the light body needed to be 'future proofed' so that further advances in technology would not require re-tooling and an iconic light styling could be maintained.

The new release of the ARB Intensity V2 uses the same optimal chassis design of the current Intensity light, yet incorporates the latest in LED technology using OSRAM GIANTS and advanced optics via the latest Hyperspot™ technology in our spot configuration. Our flood configuration utilises a further refined design to drive light further down the road as well as spreading the light in front of the vehicle. This is something that can only be achieved with dedicated flood and spot driving lights.

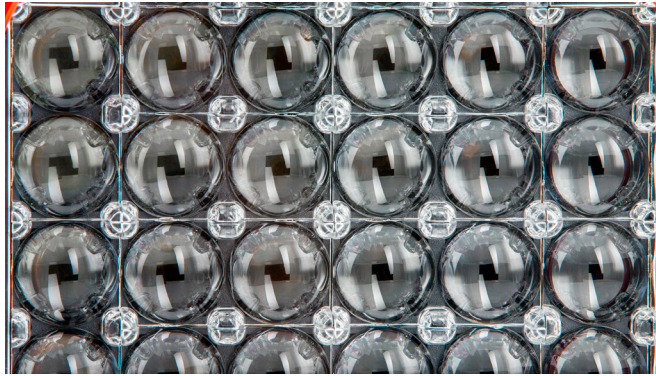
Hyperspot™:

Hyperspot™ is a refined optic used to focus and intensify the light output and drive the LED OSRAM GIANTS at amazing distances down the road, whilst keeping clarity in the beam and controlling the beam pattern to the correct area on the road, without spilling light into areas not required or fore filled by the flood configuration. Pumping a heap of power into a light and getting great distances down the road is all well and good, but if the light is not controlled and focused to the areas required for the natural eye to see, then the power is ultimately wasted.



OSRAM GIANT LEDs:

Additional updates to the ARB Intensity V2 lights is the LED's. ARB Intensity V2 lights have changed to use the OSRAM GIANTS which is a large LED chip that provides an amazing amount of light output. One of the best things about the OSRAM GIANT'S is the amount of power that can be driven into the LED, hence the change in the power used for the new V2 lights, power has been pushed to 165W per light for the AR32's



and 105W for the AR21's and we still haven't maxed out the LED. This produces a massive 20,000 Lumens of raw light output for the AR32's and a huge 13,170 Lumens for the AR21's. Raw lumens is great, but harnessing that power and using it effectively comes back to the precision engineered optics in the ARB V2 Intensities.

Upgraded Loom and Connectors:

The new ARB Intensity V2 Driving lights power draw required updates to the current loom. Harnessing and supplying increased power required a dedicated and quality harness with high current wiring and components designed to handle up to 40 amps. Designing the loom to handle 40 amps allows an increased safety around temperature and voltage/current requirements to drive the Intensity's to their max. Coupled to the new Intensity V2 driving light loom is the two pin DTP connectors, with updated over molded connectors. Another update to improve fitting time and reduce problems while fitting is the plug and play H4 and HB3 waterproof connectors included with the V2 loom.

Temperature Management:

Active, intelligent thermal management of the temperature created by LED's and PCB board has always been a feature of the ARB Intensities. Never compromising on quality, cooling is maximised by the die cast aluminum body which acts as a massive heat sink and allows the dissipation of heat from the LED's quickly, to keep them running at maximum performance. ARB intensity lights are designed to maximize the output in all driving conditions.



Increased Performance:

Distance at 1 lux is the most widely used method of measuring driving lights performance, ARB V2 Intensity lights throw a great distance down the road that can be seen with the natural eye. The AR32 Spot in the V2 update provide 795m which is a 35% increase in light performance of the current Intensity spec, while the AR32 Flood in the V2 update provide 677m of light performance, with up to an 18m spread on each side of the vehicle. The AR21 Spot in the V2 update provide 693m which is over a 35% increase in light performance of the current Intensity spec, while the AR21 Flood in the V2 update provides 555m of light performance, with up to an 18m spread on each side of the vehicle. Furthermore, updates to improve the warmth of the light output help reduce eye strain and fatigue over long driving periods.

New Look:

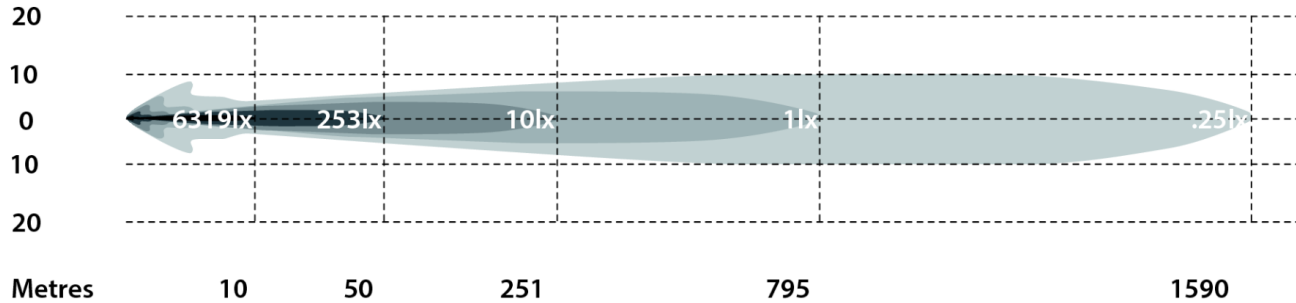
Refining and updating the look of the ARB Intensity V2 Driving lights, ARB includes Black PCB boards to create a deep look into the lights, and also offers a more appealing visual appearance. A lot of work has gone into improving the paint on the bezels of the ARB Intensities with a new paint supplier used and also a unique specified paint which exceeds current automobile requirements for paint UV resistance. Keeping the iconic look of the ARB Intensity, a new V2 logo has been used on the stainless-steel mounting brackets.



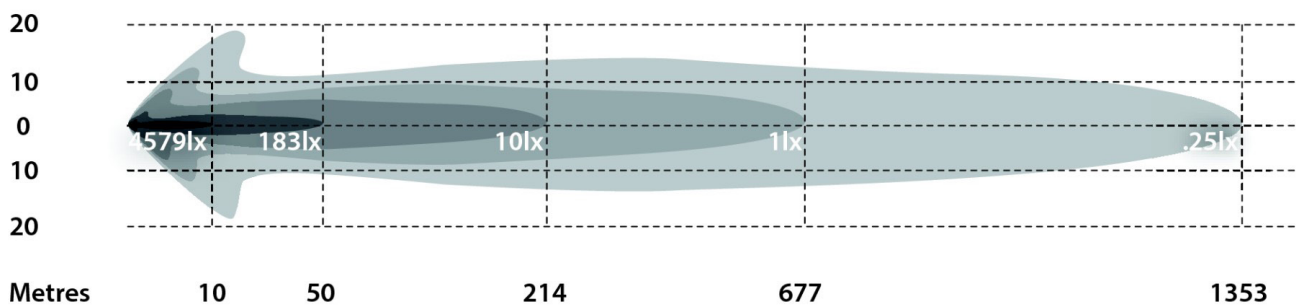
The ARB Intensity V2 is a welcomed update to an Iconic Australian driving light, producing clean crisp light that reaches amazing distances down the road to improve safety in driving on our long vast highways as well as providing excellent forward light when off roading. With the new updates to the ARB Intensity V2 driving lights, spot and flood combinations are an excellent choice to provide good lighting for distance as well as width. Continuing a tradition of never compromising, superior grade electronics and LED's, first class active thermal management, new grades of paint finishes for the bezels, and optimized lens and optic configurations, the ARB Intensity V2 driving lights continue to sets standards in vehicle lighting.

Photometric Data Testing (Single Light Testing):

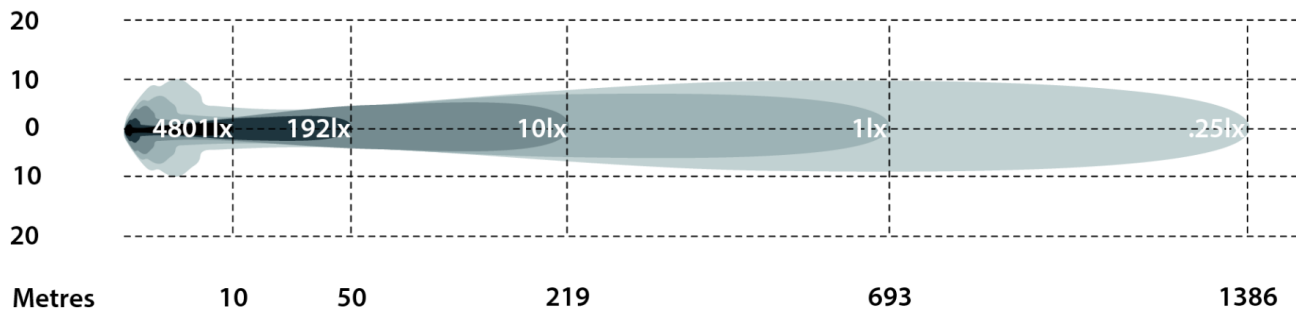
AR32S - V2



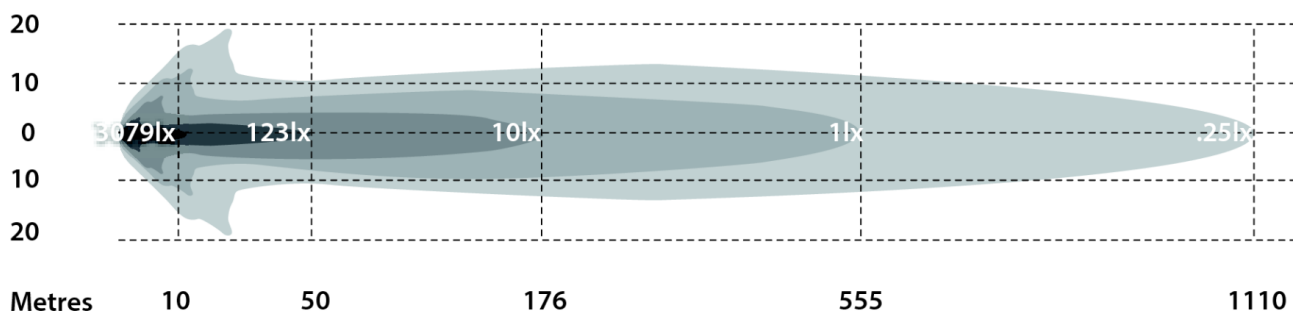
AR32F - V2



AR21S - V2



AR21F - V2



Dual Driving Light Configuration:

1. Dual AR32 V2 Spots - 1310m
2. Dual AR21 V2 Spots - 1050m*

* Further testing is being done to provide a higher accuracy in distance

Features:

- High pressure cast aluminum body
- Virtually indestructible polycarbonate lens
- Hard-Coated, durable poly carbonate protective cover
- 32 or 21 high powered OSRAM® square LED's
- Hyperspot™ LED technology for spot configurations
- 50,000hrs lifespan
- Gore-Tex® breather with pressure tested seals
- Reverse polarity voltage protection
- MIL810-STDG vibration certified (Exceeds Military spec)
- ROHS compliant
- Dust and waterproof to IP68
- Submersible to 3M
- Over and under voltage protection
- Integrated Intelligent thermal management system
- Protected against radio frequency interference (RFI) and electromagnetic (EMC) interference
- Multi position stainless steel mounting brackets.
- Deutsch DTP connector
- 3000hr Automotive paint testing
- Suitable for use with ARB wiring loom – Part No# 3500480

Technical Specifications - AR32V2:

- High output OSRAM® square LED's
- 20,000 Raw Lumens for the AR32V2 Spot and Flood.
 - 7,450 Effective Lumens – Spot
 - 13,680 Effective lumens – Flood
- 10-36 Voltage spectrum
- 165 watts of power
- 11.5A @ 14.4V
- 1 Lux @ 795m Spot and 1 Lux @ 677m Flood
- 6 degree Spread for Spot and 7.5 degree spread for Flood
- Input Cable Length – 450mm
- Operating Temp -40C to 63C (Tested to Exceed 90C)
- 5700K Color Temp
- 3.1Kg
- High Pressure Cast Aluminum Body
- Active Thermal Management Control
- Dimensions - 220.5mm (8.7") x 245mm (9.7") x 119mm (4.7")
- Warranty 2 years

Driving lights Include:

- 1 x Spot Light or 1 x Flood Light
- 1 x Clear Cover
- 1 x Stainless steel mounting bracket
- 1 x Mounting hardware kit



Technical Specifications - AR21V2:

- High output OSRAM® square 150 LED's
- 13,170 Raw Lumens for the AR21V2 spot and Flood
 - o 5,760 Effective Lumens – Spot
 - o 9,100 Effective lumens – Flood
- 10-36 voltage spectrum
- 105 watts of power
- 7.3A @ 14.4V
- 1 Lux @ 693m spot and 1 Lux @ 555m
- 6 degree Spread for Spot and 7.5 degree spread for Flood
- Input Cable Length – 450mm
- Operating Temp -40C to 63C (Tested to Exceed 90C)
- 5700K Color Temp
- 2.5Kg
- High Pressure Cast Aluminum Body
- Active Thermal Management Control
- Dimensions - 220.5mm (8.7”) x 245mm (9.7”) x 119mm (4.7”)
- Warranty 2 years



Driving lights Include:

- 1 x Spot Light or 1 x Flood Light
- 1 x Clear Cover
- 1 x Stainless steel mounting bracket
- 1 x Mounting hardware kit

Dimensions and Further Information:

AR32V2 - 220 X 245 X 119mm

AR21V2 - 190.5 X 212.5 X 115.6mm

Part Number	Description	Barcode
AR32SV2	ARB INTENSITY V2 32 LED SPOT SPOT ROUND 245X220X119	9332018055880
AR32FV2	ARB INTENSITY V2 32 LED FLOOD FLOOD ROUND 245X220X119	9332018055897
AR21SV2	ARB INTENSITY V2 21 LED SPOT SPOT ROUND 212X190X90	9332018055903
AR21FV2	ARB INTENSITY V2 21 LED FLOOD FLOOD ROUND 212X190X90	9332018055910
3500480	ARB WIRING LOOM V2 V2 LOOM ONLY-DTP	9332018055873