

EVOLVE LITE DATASHEET



Redtronic's Evolve Lite lightbar is the newest generation, aerodynamic, modular lightbar - like never seen before. Available in a total of 10 varying lengths, each lens section of the lightbar is independently silicone sealed, making water and dust ingress a thing of the past.

Through extensive CFD (computational fluid dynamics) testing along with practical field based tests, Redtronic have developed one of the most aerodynamic lightbars to ever exist which results in improved fuel efficiency and vastly reduced wind noise for those inside the vehicle.

Available in single colour (amber LED) as well as featuring clear or coloured lens options. The cable exit location can easily be changed without compromising the seal or affecting the product warranty.

The Evolve Lite has been designed to be as lightweight as possible. The design of the electrical circuit keeps current draw to a minimum, making the lightbar extremely EV (Electric Vehicle) friendly (The 47 inch / 120cm fully populated model draws an unbelievable 2.5 amps at 12 volts!). The unique optic helps support a lightbar that is UV stable, long lasting and provides an exceptional light output. There is an integrated photosensor, that means each lightbar has an autoDim feature which can be enabled/disabled via the synchronisation cable.

The highly serviceable design of the lightbar means that in cases where damage occurs to any lens section, it can easily be replaced by simply unscrewing the 4 screws securing it to the aluminium extrusion without disrupting the rest of the lightbar. The logic of the lightbar design is that no matter what damage is incurred, the lightbar never has to be removed from the vehicle roof, as each lens section is independently sealed and connected via plug and play watertight connectors. In the rare occasion damage does occur and the elements breach the lens, it is impossible for water/dust to transfer between lens sections. It can turn VOR (Vehicle off road) repairs from days into minutes and allows workshops to easily replace parts being completely modular.

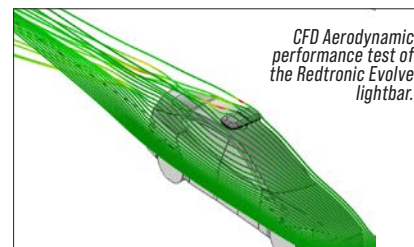
Each section includes air vents that allow effective air transfer in/out of the lens, eradicating the opportunity for condensation to accumulate. Waterproof/sealed connectors run through the base of the lightbar, allowing for a quick plug and play solution. There has never been a better opportunity for customers wishing to configure or assemble their own lightbar.

The Redtronic Evolve Lite lightbar meets the requirements of IP69K to protect against dust & water, is ECE R65 (Class I), EMC R10 approved and comes with a 3 year warranty. The Evolve Lite lightbar is manufactured in the UK by Redtronic.



MODULAR | SERVICEABLE | AERODYNAMIC

- Low-profile, aerodynamic & lightweight lightbar minimising wind noise
- 10 Length Options Available - 55cm - 201 cm
- Independently sealed modular lens sections to offer a highly serviceable design
- All models dual voltage (10 – 32 VDC)
- Low current electrical circuit designed with EV (Electric vehicles) in mind
- 5mm Ultra-strong UV stabilised polycarbonate lens
- Numerous preconfigured specifications & clear or coloured lenses
- User adjustable cable exit location
- Unique optics offering wide angle & intense light output
- AutoDim/Photosensor included as standard
- IP69K Dust & Water Resistance
- UN ECE R65 Class 1 (amber) approved
- UN ECE R10 approved
- 3 Year Warranty

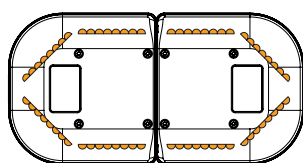


All Evolve Lite configurations are available in clear and amber lens options. The displayed part numbers are labelled for each configuration.

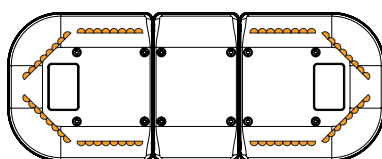
☐ **CLEAR LENS ORDER CODE**

☒ **AMBER LENS ORDER CODE**

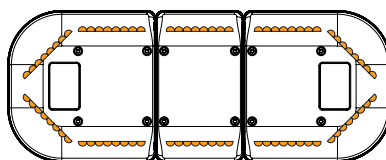
☐ **EL55A_Z1**
☒ **EL55A_Y2**
 55cm / 21.5" Length
 64 LEDs
 Approx. 1A (Left-Right) @12V
 Approx. 2A (All LEDs On) @12V



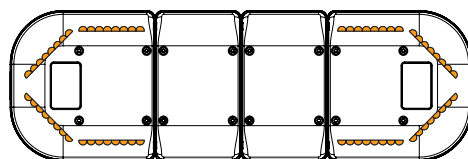
☐ **EL71A_Z01**
☒ **EL71A_YE2**
 71cm/30" Length
 64 LEDs
 Approx. 1A (Left-Right) @12V
 Approx. 2A (All LEDs On) @12V



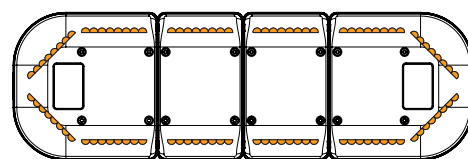
☐ **EL71A_ZB1**
☒ **EL71A_YD2**
 71cm/30" Length
 80 LEDs
 Approx. 1.5A (Left-Right) @12V
 Approx. 3A (All LEDs On) @12V



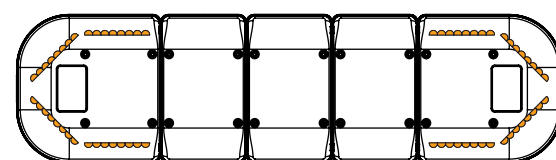
☐ **EL88A_Z001**
☒ **EL88A_YEE2**
 88cm/34.5" Length
 64 LEDs
 Approx. 1A (Left-Right) @12V
 Approx. 2A (All LEDs On) @12V



☐ **EL88A_ZAA1**
☒ **EL88A_YCC2**
 88cm/34.5" Length
 96 LEDs
 Approx. 1.75A (Left-Right) @12V
 Approx. 3.5A (All LEDs On) @12V



☐ **EL104A_Z0001**
☒ **EL104A_YEEE2**
 104cm/41" Length
 64 LEDs
 Approx. 1A (Left-Right) @12V
 Approx. 2A (All LEDs On) @12V



EL104A_ZABA1

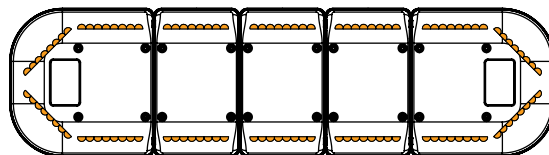
EL104A_YCDC2

104cm/41" Length

112 LEDS

Approx. 2A (Left-Right) @12V

Approx. 4A (All LEDs On) @12V



EL120A_Z00001

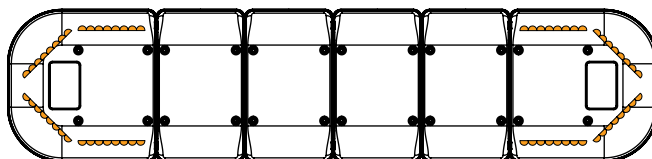
EL120A_YEEEE2

120cm/47" Length

64 LEDS

Approx. 1A (Left-Right) @12V

Approx. 2A (All LEDs On) @12V



EL120A_ZAAAA1

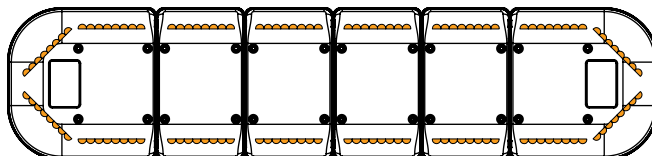
EL120A_YCCCC2

120cm/47" Length

128 LEDS

Approx. 2.25A (Left-Right) @12V

Approx. 4A (All LEDs On) @12V



EL136A_Z000001

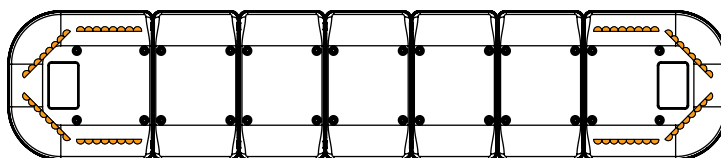
EL136A_YEEEE2

136cm/53.5" Length

64 LEDS

Approx. 1A (Left-Right) @12V

Approx. 2A (All LEDs On) @12V



EL136A_ZAABAA1

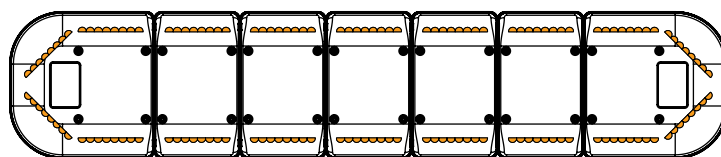
EL136A_YCCDCC2

136cm/53.5" Length

144 LEDS

Approx. 2.5A (Left-Right) @12V

Approx. 5A (All LEDs On) @12V



EL153A_Z0000001

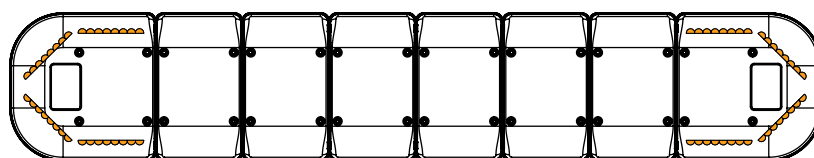
EL153A_YEEEEEE2

153cm/60" Length

64 LEDS

Approx. 1A (Left-Right) @12V

Approx. 2A (All LEDs On) @12V



EL153A_ZAAAAAA1

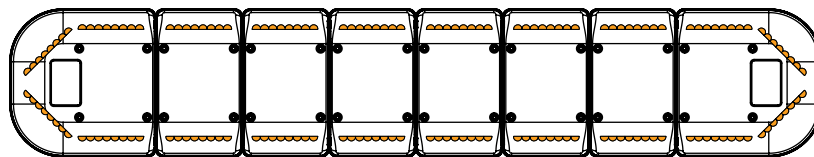
EL153A_YCCCCCC2

153cm/60" Length

160 LEDS

Approx. 2.75A (Left-Right) @12V

Approx. 5.5A (All LEDs On) @12V



EL169A_Z00000001

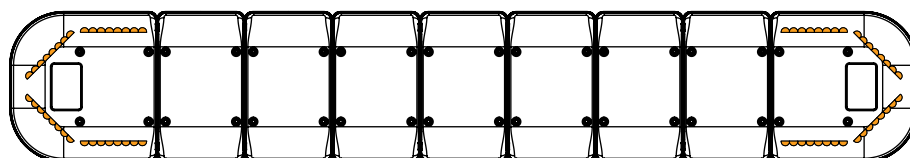
EL169A_YEEEEEEE2

169cm/66.5" Length

64 LEDS

Approx. 1A (Left-Right) @12V

Approx. 2A (All LEDs On) @12V



EL169A_ZAAABAAA1

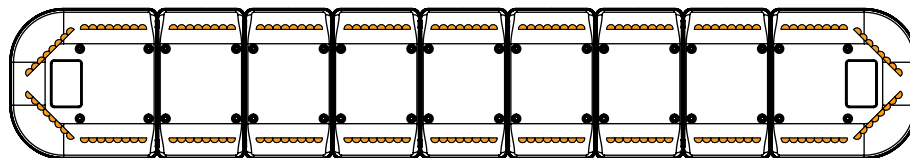
EL169A_YCCDCCCC2

169cm/66.5" Length

176 LEDS

Approx. 3A (Left-Right) @12V

Approx. 6A (All LEDs On) @12V



EL185A_Z000000001

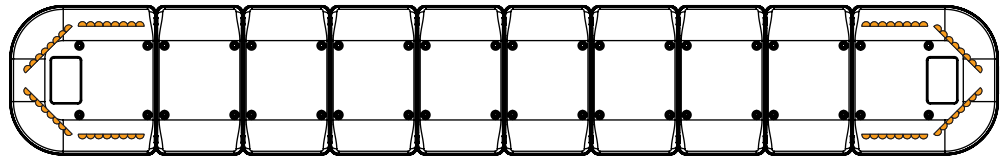
EL185A_YEEEEEEEE2

185cm/73" Length

64 LEDs

Approx. 1A (Left-Right) @12V

Approx. 2A (All LEDs On) @12V



EL185A_ZAAAAAAA1

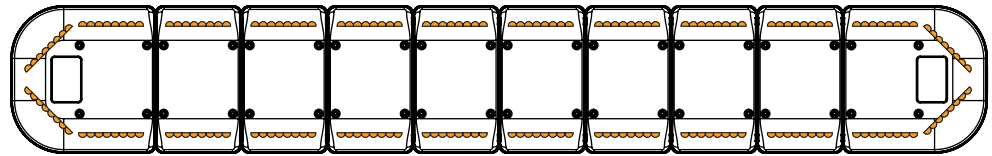
EL185A_YCCCCCCCC2

185cm/73" Length

192 LEDs

Approx. 3.25A (Left-Right) @12V

Approx. 6.5A (All LEDs On) @12V



EL201A_Z000000001

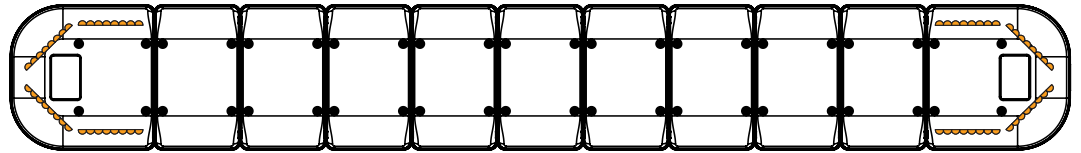
EL201A_YEEEEEEEE2

201cm/80.5" Length

62 LEDs

Approx. 1A (Left-Right) @12V

Approx. 2A (All LEDs On) @12V



EL201A_ZAAAABAAAA1

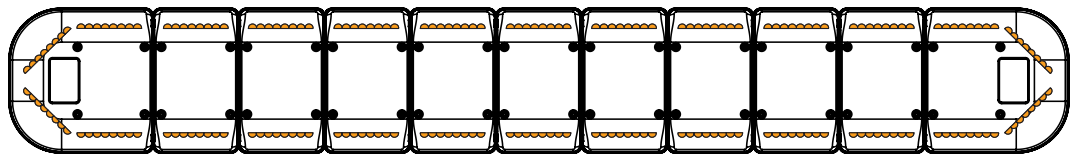
EL201A_YCCCDCCCC2

201cm/80.5" Length

208 LEDs

Approx. 3.5A (Left-Right) @12V

Approx. 7A (All LEDs On) @12V



ARE YOU SEEKING MORE ADVANCED FEATURES?

The **Evolve Pro** provides an array of enhanced functionalities, including Alley lights, traffic director, takedowns, Gatsos, and rear reds, among others. For a comprehensive list of specifications and options, please refer to the Evolve Pro documentation.

EVOLVE
THE NEXT GENERATION LIGHTBAR
PRO

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