



Edelux

Optical System

The Edelux utilizes the offset mirror IQ-Tec by Busch & Müller. Unlike conventional optical systems for headlights it catches quite a large part of the emitted light and provides a wide, evenly and brightly lit road surface. The Edelux is 3 times as bright as the best halogen headlight.

Since the front edge of the light field is clearly defined glaring of oncoming cyclists is avoided. Little scattered light diffuses upwards, which means it hardly glares the rider indirectly under foggy weather conditions.

The black ring around the mirror protects the rider's night vision against direct blinding. The antireflective front glass is scratch resistant and lets through 6% more light than panes made of plastic would do.

By adjusting the LED precisely and testing each headlight we provide constant quality.

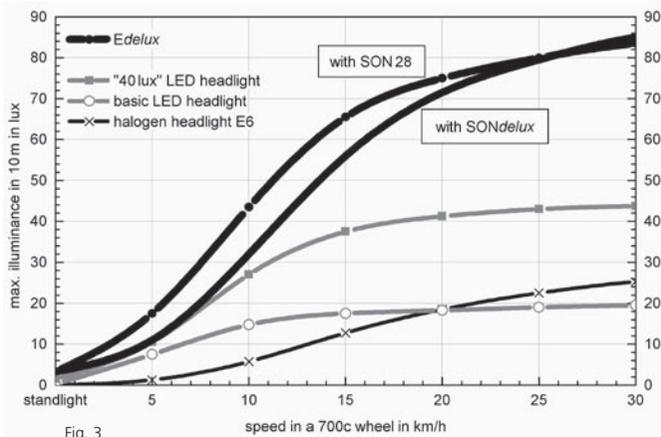
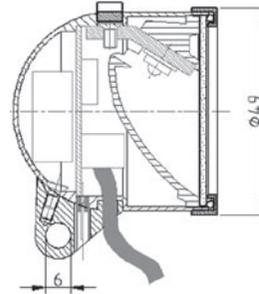


Fig. 3 Illuminance of a selection of headlights run with a SON 28 hub dynamo, rear light B&M DToplight connected

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Mechanics / Electrical system / Heat flow

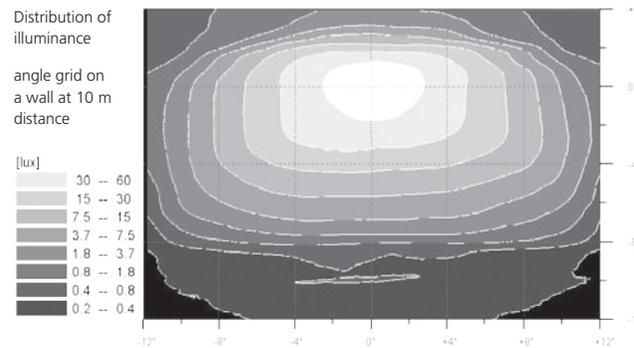
Efficiency and LED lifetime mainly depend on its cooling. This is why we placed the LED on a massive copper heat sink, which in turn conducts the heat to the aluminium housing, and then to the outside air. At high speed the good cooling allows for an increase of 20% luminous flux compared to usual LED headlamps, some of which can reach more than 100° Celsius (210° F).



The switching ring with its nose is undestructable and allows „blind“ switching even when wearing thick gloves. In sensor position the light turns on in the beginnings of darkness, uninfluenced by street lamps or car headlights.

The Edelux headlight is watertight. Its robust, low-loss coaxial cable resists even rough treatment.

The Edelux has a rear light connection, but can be used without a rear light as well.



Technical Data

Light source:	2.4 / 3 Watt high-performance LED (>100 lm/W)
German mark of conformity:	⌚ K 607
Feed cable:	coaxial cable, PVC-free, Ø 3 mm
Cable lengths:	60 cm, SON connectors fitted, alternatively, 140 cm with loose connectors
Connection for rear light:	blade connector 2.8 mm and 6 mm eyelet connector (enclosed)
Switch:	switch ring with magnet, reed-contact
Functions:	automatic light sensor and capacitor standlight
Seal:	O-ring
Housing:	aluminum 6082 T6
Colours:	silver polished, anodized black or red
weight:	85 g
Guarantee:	5 years

