Manual for mounting the Cree 1304 COB

The COB needs to be **cooled as much as possible**, to extend it's life time.

The COB can be mounted with a double sided adhesive pad, but before applying the pad, make sure that you have done a few things first.

The connecting wires need to be soldered on the edge contacts of the COB. Because of it's perfect heat transmission, do the soldering prior to the mounting, otherwise the soldering iron may not have enough capacity to solder the wires, or even let the tin flow....

Keep a good eye on the **+ and –** contacts, the + and – need to be soldered to the correct pins in the plug too
Do not forget to slide the sleeve over the cable first.....

To make the best possible heat transfer, make sure both surfaces, that on the back of the COB and that on the head of the metal to be as flat and clean as possible. Best use Aceton or other good degreaser.

Once the tape starts to stick there is hardly a way back, so first mark the exact center position on the metal part, and try to paste "first time right".
If the COB is in the right spot, apply some pressure

ONLY ON THE CERAMIC, AND NOT ON THE YELLOW PART.

The Dimmer can be connected to a USB charger (500 mA or more) at max power, the drawn current will be to high for a PC USB port. (may be used with lower intensities)

The dimmer output is 9 volt 500 mA and is made especially for this (model) COB, so do not connect aother LED emitters, they may die.

Using the dimmer, When connected to the COB and (powered) USB, the dimmer can be switched on with the switch (1) the yellow indicator goes on.
Regulating intensity can be done by rotating the yellow knob, CCW for lower, CW for higher intensity.

The switch only switches off the dimmer, not the USB charger, so take that from the mains when not in use for longer time

Inside the dimmer is a small trimmer, that is set to the needed 9 volt and 500mA, do not adjust the trimmer !
Also inside on the green PCB is a fuse 1 Amp but it cannot be exchanged by users (SMD 0603 is hard to handle) a very small indicator LED on the PCB shows (when on) that the fuse is still OK

NEVER LOOK STRAIGHT IN THE BEAM OF A HIGH POWER LED
CHANCE ON EYE DAMAGE
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