

Match ColorTUNE Driver Compatibility

Match ColorTUNE downlights are designed to operate using a shared total drive current across both LED channels (Warm and Cool White). The rated Match ColorTUNE drive current relates to the combined current, not the maximum current available independently on each channel.

For example, Match 1 is rated to a maximum of 200 mA:

- If both channels are at equal output, each operates at approximately 100 mA.
- As CCT changes, the current shifts dynamically between channels.
- If one channel is fully on, the other off, the active channel may receive the full 200 mA.
- At all times, the combined current must remain within the specified maximum.

Driver Compatibility

Not all tunable white or DALI DT8 drivers manage current in the same way.

Some drivers dynamically balance the total current across both channels, while others treat each channel as an independent constant-current output. In these cases, the configured current may be accidentally be delivered to both channels simultaneously, exceeding the specified maximum current with potential to cause:

- Driver protection mode activation resulting in flashing or cycling
- Excessive temperature and reduced LED lifetime
- Permanent LED damage

Recommendation

To ensure correct operation and reliability, Lumino strongly recommends using only Lumino-approved drivers configured to the specified maximum current (via NFC or DIP switch settings).

Where non-recommended drivers are used, specifiers must ensure the drivers are capable of dynamically balancing the total current, and the combined current across both channels cannot exceed the specified maximum rating.

If you are unsure whether a driver is compatible with Match ColorTUNE downlights, please contact Lumino technical support before installation.