

TO: Teams Manufacturers

CATEGORY: LMP1 LMP2 LMGTE Pro LMGTE Am

DECISION N°: WEC_1920-D0035-LMP1-LMP2-Rain lights modes

DATE: 20/02/2020

FROM: The Endurance Committee

SUBJECT: Rain lights modes requirements for LMP1 & LMP2

APPLICABLE REGULATION

- 2020 Technical Regulations for LMP1 Prototype Hybrid
- 2020 Technical Regulations for LMP1 Prototype Non Hybrid
- 2020 Technical Regulations for LMP2 Prototype Homologated in 2017

DECISION

Due to the feedbacks on brightness of the new mandatory endplate rain light for LMP cars, we ask you to implement two level of brightness modes:

- Level High - full brightness mode for daytime
- Level Low - reduced brightness mode for night

These two modes can be automatically linked to the high beam command, but the driver must be able to select it in case of exceptional request (heavy rain/fog during night, car running in high beam in case of low beam failure, ...).

To implement the two modes, the technical requirements are:

- Level High – full brightness
 - Keep the 50% duty cycle (125ms ON – 125ms OFF).
- Level Low – reduced brightness
 - Option 1 (preferred) is to use the inhibit input on the rain light.
Apply a PWM at 300Hz frequency on the inhibit input and use a duty cycle of 70% for day mode and 30% for night mode.
 - Option 2 (alternative) is to modulate the duty cycle of the 4Hz flashing.
Apply a duty cycle of 20% (50ms ON – 200ms OFF). This modification replaces the fix duty cycle of 50% in art 10.3.2.c of the Technical Regulations.

We take the opportunity to remind you that no sticker should be applied on the side of the light for an optimal heat transfer.

PERIOD OF VALIDITY/APPLICATION OF THE DECISION

This decision comes into effect:

- with immediate application**
- from:

And is applicable:

- until further notice**
- for the mentioned Competition(s) only: