

Transport Department
Vehicle Safety and Standards Division
Requirements for Lighting Devices
(Light source: Filament and Light Emitting Diode)

1 Introduction

1.1 The Secretary for Transport and Logistics has made the Road Traffic (Construction and Maintenance of Vehicles) (Amendment) Regulation 2024 (“the Amendment Regulation”) to revise the statutory requirements of various lighting devices showing light derived from the source extending from filament to light emitting diode (“LED”) module(s) under Road Traffic (Construction and Maintenance of Vehicles) Regulations (“Cap. 374A”).

1.2 This document serves to provide supplementary guidelines for the accepted lighting device(s) in pursuant to Regulations 89, 97, 98, 103, 105, 111, 114 and 115 of Cap. 374A.

2 Amendment Regulation allowing use of LED lighting device(s) comes in to effect on **1 March 2025**

2.1 To bring lighting device(s) in line with prevalent international vehicle standards and technological development, the statutory requirements of Cap.374A have been amended to allow the use of LED lighting device(s) complying the standards as stipulated under Regulations 89, 97, 98, 103, 105, 111, 114 and 115 of Cap. 374A.

2.2 For details on the concerned regulations of Cap. 374A, please visit “Hong Kong e-legislation” at URL: <https://www.elegislation.gov.hk>

3 Requirements of lighting device(s)

3.1 The lighting device(s) should complies with the corresponding standards as stipulated in Regulations 89, 97, 98, 103, 105, 111, 114 and 115 of Cap. 374A. The following table summarized the acceptable standards for easy reference:

	United Nations Regulation								
	No. 6	No. 7	No. 65	No. 23	No. 112	No. 113	No. 123	No. 148	No. 149
Obligatory front lamp (Cap. 374A Regulation 89)		X						X	
Headlamp carried by vehicles with 2 or 3 wheels (Cap. 374A Regulation 97)					X	X			X
Headlamp carried by vehicles with 4 or more wheels (Cap. 374A Regulation 98)					X		X		X
Obligatory rear lamp (Cap. 374A Regulation 103)		X						X	
Reversing lamp (Cap. 374A Regulation 105)				X				X	
Amber lamp (Cap. 374A Regulation 111)			X						
Direction indicator (Cap. 374A Regulation 114)	X							X	
Stop lamp (Cap. 374A Regulation 115)		X						X	

3.2 **Important notes:**

- 3.2.1 All headlamps must be capable of emitting adequately aligned dipped beams. As stipulated in Regulation 2 of Cap 374A, dipped beam emitted by a headlamp should be deflected downwards or both downwards and to the left to such an extent that they are at all times incapable of dazzling any person who is 8 meters or more in the front and his eye-level is 1 meter or more above the ground. To present any dazzling effect on other drivers or road users due to excessive light intensity of headlamp, the **measured light luminous intensity of headlamp shall not exceed 215,000cd¹**.
- 3.2.2 Any headlamp lighting devices showing light derived from any source other than filament or LED module such as High Intensity Gas Discharge (HID) ² headlamps and laser headlamps are prohibited.

¹ The requirement of maximum light luminous intensity makes reference to relevant requirement under United Nations Regulations.

² With sufficient documents certifying that they meet the international standards, application for approval of HID headlamp can be submitted to Transport Department for consideration. For details, please refer to guideline:

https://www.td.gov.hk/filemanager/en/content_4808/hid_requirement.pdf

- 4 Submission for Lighting device(s) during Type Approval application:
 - (a) Information document of the lighting device(s)³; and
 - (b) A certificate on approved standards⁴ issued by an independent certification body or the vehicle manufacturer's declaration on compliance of approved standards; and
 - (c) A test report prepared by an independent testing body on the concerned test standards;
- 5 Lighting device(s) to be accepted during the pre-registration inspection for individual or parallel import vehicles:
 - (a) the concerned lighting device(s) shall be constructed to approved standards; and
 - (b) Identification Marking shall be indelibly marked on the concerned lighting devices;
 - (c) if an approval mark is not available, a certificate shall be provided confirming that the lighting devices are constructed to the approved standards
- 6 Enquiries
 - 6.1 For enquiries on vehicle type approval application please contact Type Approval Section at 3961 0362.
 - 6.2 For enquiries on pre-registration inspection and vehicle first registration for parallel / individual imported private cars please contact Vehicle Safety Enforcement Section 2nd Unit at 3961 0323.

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February 2025

³ For headlamp the measured light luminance (brightness) should be provided

⁴ Please refer to section 3 of this guideline