

## Traffic control equipment - Warning and safety light devices

### Scope and applications

*This European Standard specifies the requirements for individual electrically operated light devices, called warning lights, emitting a continuous or regular intermittent light of a single colour which, by their colour and position alone, are used to warn, inform or guide road users.*

*It specifies the requirements for visual, structural and operational performance and the relevant test methods to be used.*

*This European Standard is not applicable to lighting devices, which convey messages by additional means (e.g. variable message*

*signs) or which convey a mandatory instruction (e.g. traffic signals) or which are covered by vehicle lighting regulations.*

*Below you will find a table with the most relevant classes of the norm that covers most of the applications, permanent or temporary, used in the European Union.*

*In the next page we present a guide that can help choosing the proper LED light in different situations.*

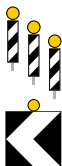


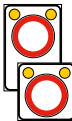











*This guide is not an official transposition of the norm but it is to be considered a recommendation based on our experience and the official transpositions of some countries of the European Union.*

### Luminous intensity - Relevant classes





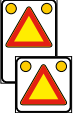










Class	Area of light emitting surface [cm <sup>2</sup> ]	Min. diameter of light emission [mm]	Range of angles		Luminous intensity (Day)		Luminous intensity (Night)
			Horizontal	Vertical	Min. [cd]	Max. [cd]	Dim to
<b>L2H</b>	≥18	48	+7° ... -7°	+5° ... -5°	150	1500	35 %
<b>L6</b>	≥2x250	178.5	+10° ... -10°	+5° ... -5°	10	100	35 %
<b>L7</b>	≥250	178.5	+10° ... -10°	+5° ... -5°	20	100	35 %
<b>L8G</b>	≥250	178.5	+7.5° ... -7.5°	+5° ... -5°	25	100	35 %
<b>L8M</b>	≥250	178.5	+7.5° ... -7.5°	+5° ... -5°	500	1500	35 %
<b>L8H</b>	≥250	178.5	+7.5° ... -7.5°	+5° ... -5°	1500	5000	35 %
<b>L9M</b>	≥700	298.6	+1.5° ... -1.5°	+1.5° ... -1.5°	2000	8000	35 %
<b>L9H</b>	≥700	298.6	+1.5° ... -1.5°	+1.5° ... -1.5°	20000	40000	35 %

# EN 12352 classes

## FIXED applications

											
 Urban roads	<b>Class</b>	L8M L8H	L2H L8M	L2H	L8M L8H	L2H L8M	L2H L8M		L2H	L8M L8H	L8M L8H
	<b>LED light</b>	Basic 200	Basic 102 Basic 201	Basic 102	Basic 201	Basic 200	Basic 200 Basic 201		RGR	Basic 200 Basic 201	Basic 201
  Secondary roads	<b>Class</b>	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L8M L8H	L2H	L8M L8H	L8M L8H
	<b>LED light</b>	Basic 200	Basic 201	Basic 201	Basic 201	Basic 200	Basic 200 Basic 201	Basic 200 Basic 201	RGR	Basic 200 Basic 201	Basic 201
  Main roads and Motorways	<b>Class</b>	L9M L9H			L9M L9H	L9M L9H		L9M L9H	L2H		L9M L9H
	<b>LED light</b>	Basic 302			Basic 304	Basic 302		Basic 302	RGR		Basic 304

## TEMPORARY road work zone applications

											
 Urban roads	<b>Class</b>	L6 L7	L6 L7	L6 L7	L8H L8M	L8H L8M		L8H L8M			
	<b>LED light</b>	D-Star	D-Star	D-Star	Basic 210	Basic 211		Basic 211			
  Secondary roads	<b>Class</b>	L6 L7 L8G *	L6 L7 L8G/M *	L6 L7	L8H L8M	L8H L8M	L8H L8M	L8H L8M	2 x L9M 23 x L8H	2 x L9M 3 x L9H	L8H L8M
	<b>LED light</b>	D-Star	D-Star Basic 210	D-Star	Basic 210	Basic 211	Basic 210	Basic 211	Basic 211 Basic 304	Basic 304	Basic 210 Basic 211
  Main roads and Motorways	<b>Class</b>	L6 L7 L8G *	L6 L7 L8G/M *	L6 L7	L8H L8M	L8H L8M	L9M L9H	L8H L9M L9H	2 x L9M 23 x L8H	2 x L9M 3 x L9H	L8H L8M L9H L9M
	<b>LED light</b>	D-Star	D-Star Basic 210	D-Star	Basic 210	Basic 211	Basic 302	Basic 211 Basic 304	Basic 211 Basic 304	Basic 304	Basic 210 Basic 211 Basic 304

\* only yellow