Road [5]

Top performance along any route

Ed. 02
2022

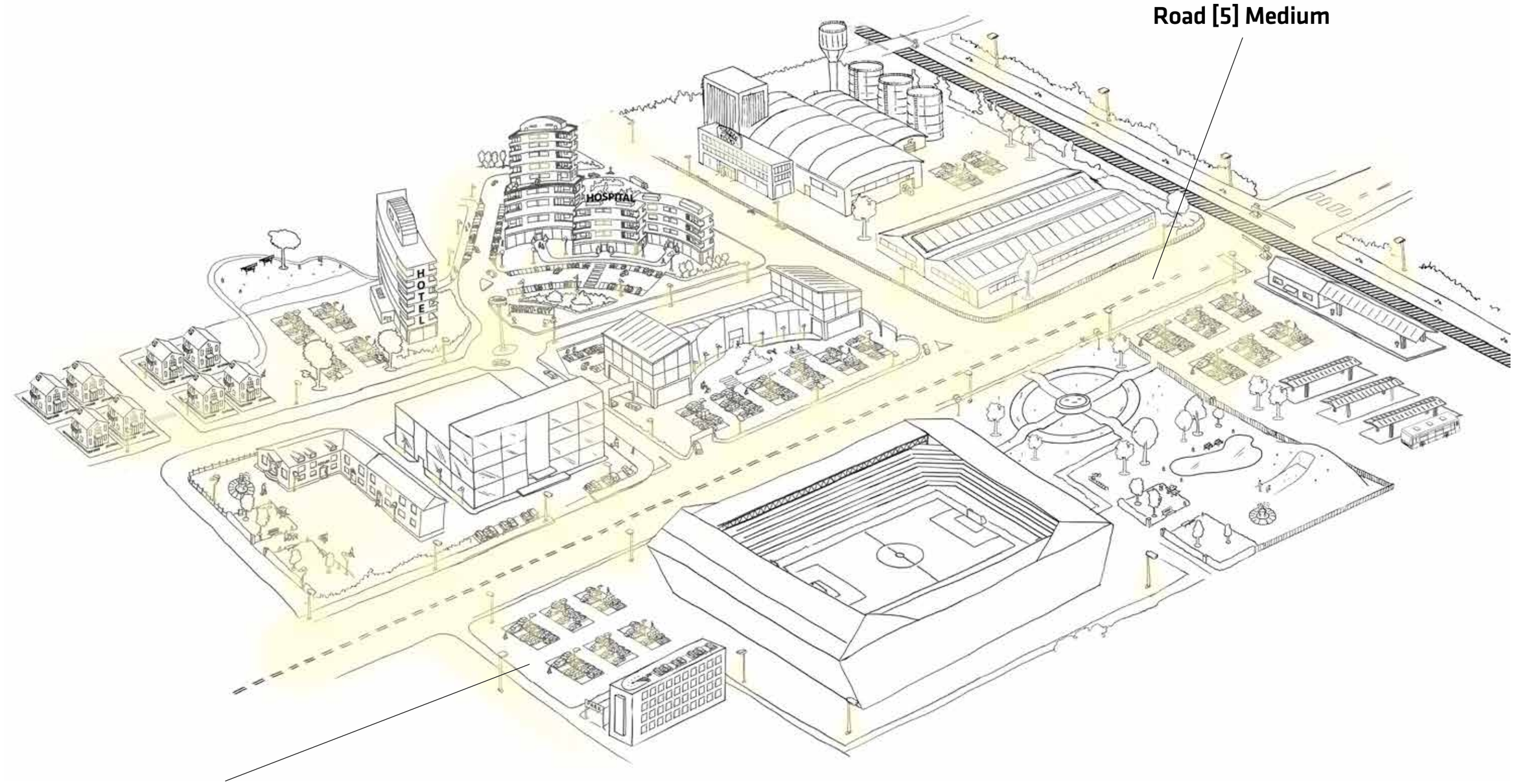
CONTENTS

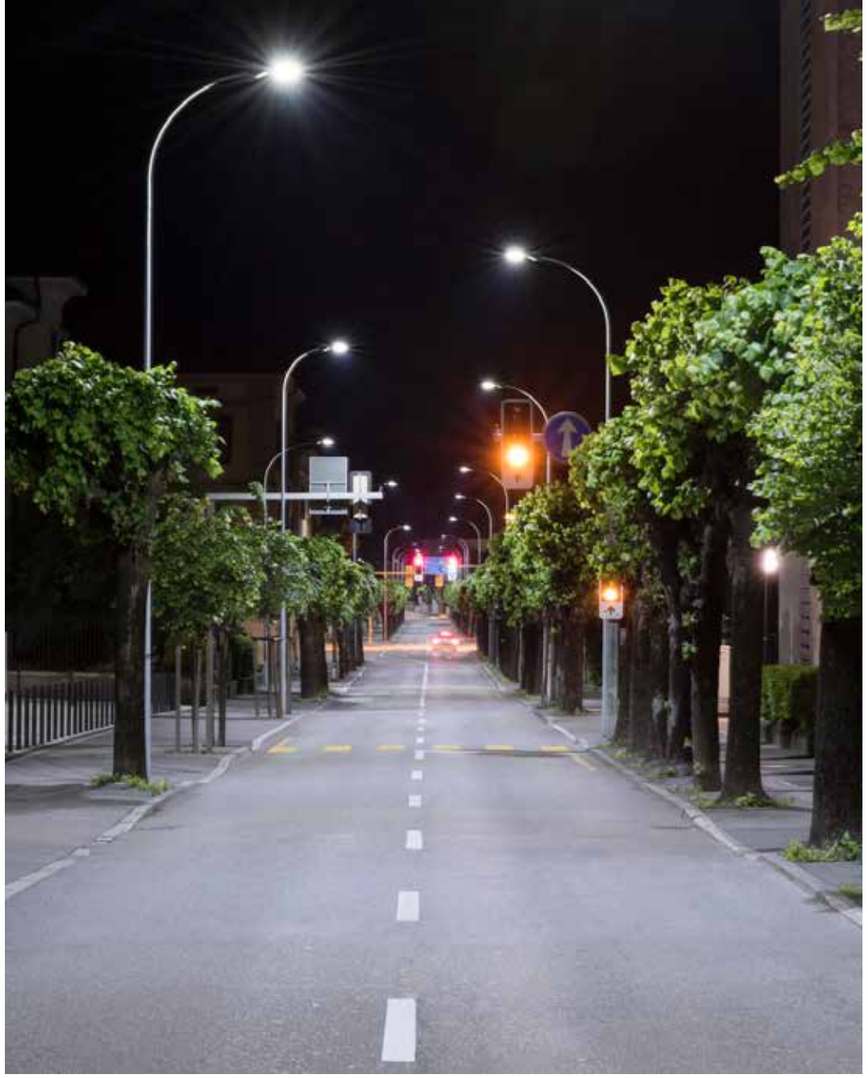
Road [5]

Road [5] is an elegant and practical range of LED lighting fixtures for street and urban applications. The range is designed to offer great lighting performance, simplify device installation and maintenance and to achieve maximum energy savings.

Road [5] is the ideal solution to light any type of urban and suburban street, roundabouts, large areas and car parks, both for new installations and for relamping solutions.

Road [5]





Road [5]

MODULARITY

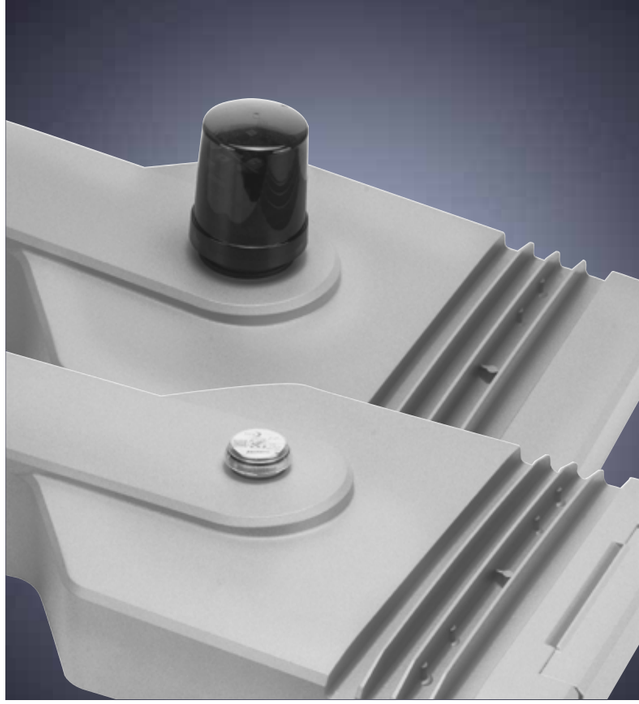
The Road [5] range has been designed around the modularity of the optical unit. The various types of urban and suburban streets require a choice of different lighting distributions. This is why every Road [5] luminaire has different types of optics that meet all lighting design requirements.

FLEXIBILITY

Wiring can be carried out even when the device is already installed (simplified tool-free opening), thus reducing maintenance time and ensuring an exceptionally safe operation. The wide choice of settings and accessories make Road [5] suitable for any installation requirements.

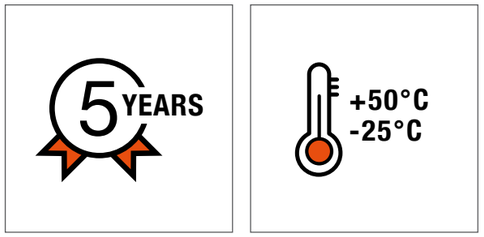
CONNECTIVITY

In order to optimise operating costs, the Road [5] range is designed to accommodate the main remote management devices, adapting to existing or preferred central systems (powerline or Wi-Fi).



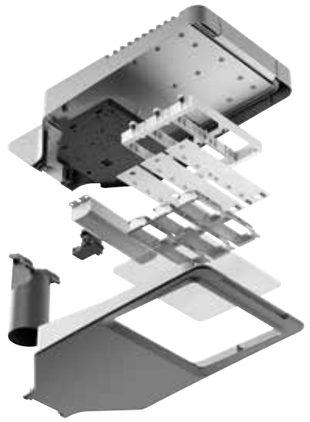
Maximum performance over time

The new silver PVD aluminium reflectors ensure high luminous efficiency and high thermal stability, while maintaining the inherent characteristics during the design phase over a long period. Road [5] guarantees a working life greater than or equal to 115,000 hours (L90B10@Tq25°C) or 150,000 hours (L80B50) in standard conditions of use.



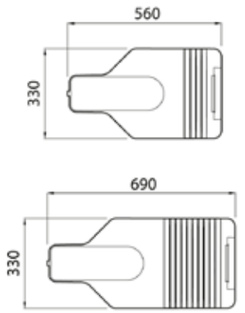
Simple design and maximum reliability

The essential geometric forms of Road [5] ensure adequate lighting in all types of urban and suburban streets, blending perfectly into the environment where they are installed. The careful design and close attention to thermal dissipation means the unit can attain drive currents that are higher than standard while still ensuring excellent lighting performance.



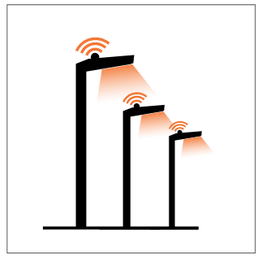
Lightness and practicality

Road [5] has been designed to be a highly functional product in every aspect: the materials and shapes make it lightweight and easy to handle even by a single operator, while the spring-loaded handle opening system allows access to the supply compartment without the use of tools. Installation and maintenance operations can be performed easily and safely, guaranteeing the rated degree of protection without the requirement to perform specific checks or other adjustments.



Smart lighting

Road [5] is available with different smart lighting solutions that comply with the NEMA and ZHAGA standards. The practical dimensions of the electrical unit compartment also enable the integration of dedicated devices in the luminaire for enhanced intelligent light management.



Different supply currents

Road [5]can be supplied with different LED supply currents (0.35 A, 0.7 A, 0.85 A and 1 A) and are therefore suitable for any application requirement. For prescriptions and specific projects, the standard currents can be further customised in order to obtain the flow and absorption data required by the project requirements. This feature, combined with the modular optics, makes Road [5] an exceptionally flexible system.

Light control

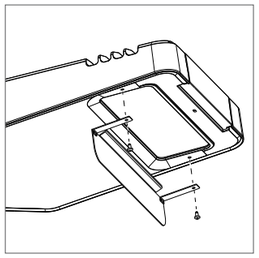
Road [5] has been developed to ensure the highest quality of light without compromising visual comfort, while maintaining minimal light pollution levels. The recessed light source and the optional backlight reduction screen significantly reduce glare to achieve more precise and controlled lighting, suitable for any application.

High quality performance

The entire lifecycle of Road [5] is being constantly monitored by the world-class GEWISS laboratories that rank in the top 10 globally in terms of the number of certifications. GEWISS laboratories are recognised by IMQ (Istituto del Marchio di Qualità [Italian Quality Mark Institute]) and by the main international testing bodies as Level 3 Customer Testing Facilities. Road [5] has been subject to the most stringent tests to certify resistance, longevity and performance in extreme conditions to maintain its guaranteed features and functionality over long periods in any lighting design project.

Remote surge protection device

Road [5] is equipped with integrated surge protection as standard that exceeds all the minimum regulatory requirements. For maximum surge protection, the product can be fitted with a specific remote device (SPD), which can be installed directly into the shell at the base of the pole to enable quicker testing and replacement without accessing the device at a height.

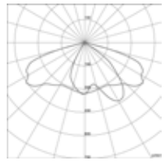
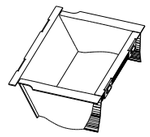
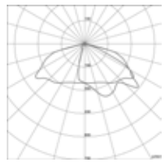
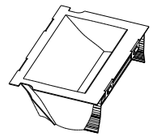
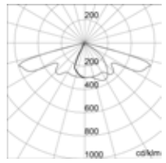
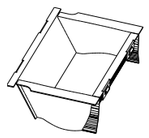


IP 66

IK 08

CE

Advanced optical systems for all application needs

Name	Photometry	Optical design
Wide		
Huge		
Cycle/pedestrian path		

Technical data

	MINI	MEDIUM
Insulation class	CL.I - CL.II	
Protection grade	IP66	
Impact resistance	IK08	
Optics	Huge - Wide - Cycle	Huge – Wide
Power	13-74 W	55-186 W
Luminous flux	Up to 9900 lm	Up to 25800 lm
Efficiency	Up to 155 lm/W	Up to 150 lm/W
Colour temperature (CCT)	3,000 K- 4,000 K	
Colour rendering index (CRI)	CRI>70	
Operating temperature	- 25C + 50°C	
Power supply	220 - 240 V	
Control system	Standalone - Bi-level - 1-10V - DALI - NEMA - ZHAGA	
Colour	Graphite grey and silver grey	
Rotation	±20° - step of 5°	
Opening	Tool-free, with handle	
Lifetime	L90B10 (Tq=25°C) > 115,000 h	
Power surge protection	up to 10/10 kV	

Road [5]

LED luminaire for lighting urban and suburban roads, car parks and cycle/pedestrian paths

Road[5] is the range of LED lighting fixtures that completes the offer for street and urban applications. The range has been designed to offer optimum lighting performance, simplify luminaire installation and maintenance and promote maximum energy savings. With an array of different platforms and protocols, Road [5] is the ideal solution for smart lighting and for illuminating all types of urban and suburban roads, roundabouts, large outdoor areas and car parks, in both new and existing installations. Suitable for pole-top and outreach installations with tilt adjustment in steps of 5°, Road [5] is available in two different sizes and six motor configurations to meet every lighting requirement.

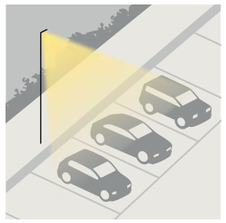
IK 08

IP 66

5 YEARS

APPLICATIONS

Roads

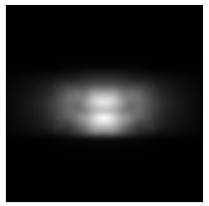


Car parks

Roundabouts

Cycle/pedestrian paths

LIGHT BEAM DISTRIBUTION



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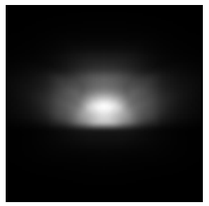

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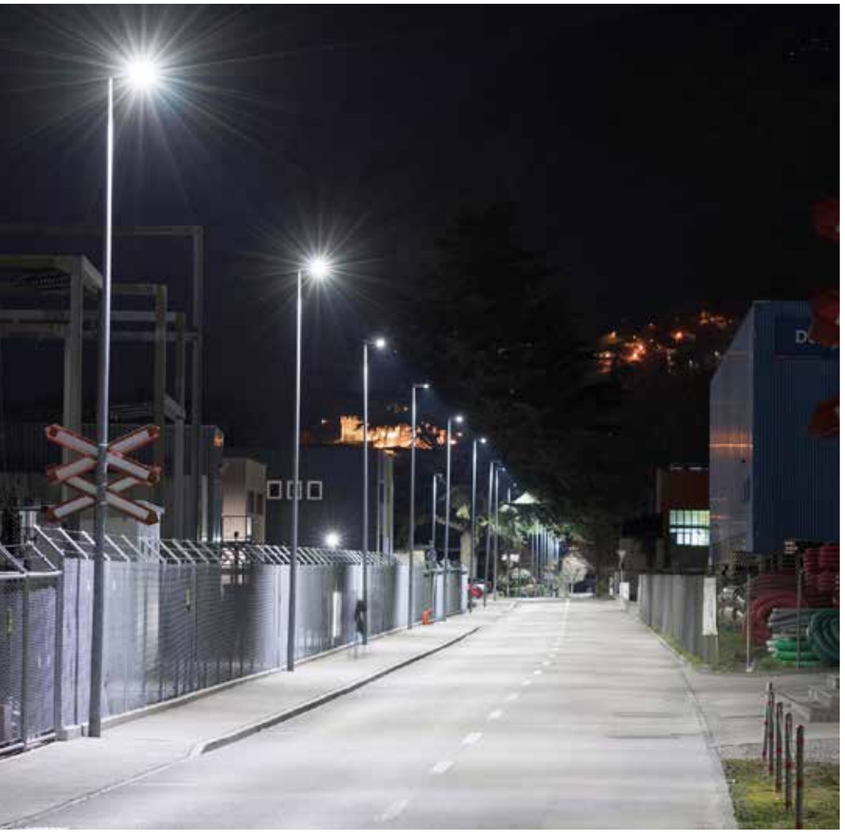
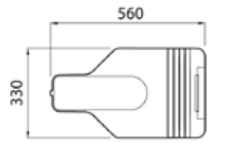
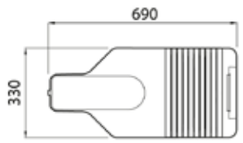
Cycle/pedestrian path

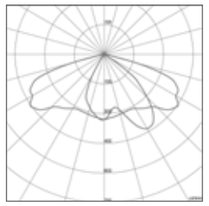


SIZE





PHOTOMETRY



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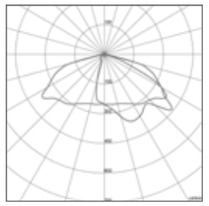

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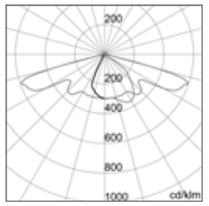


Cycle/pedestrian path

GENERAL INFORMATION

Application	Roads / Car parks / Crossroads and roundabouts / Cycle/pedestrian paths
Colour	Graphite Grey – Silver Grey
Source	LED - not replaceable
Power consumption	13 - 186 W
Lifetime	L90B10 (Tq25°C) > 115,000 h L80B50
Weight	6.4 - 9.1 kg
Warranty	5 years
Operating temperature	- 25°C + 50°C

OPTIC AND LIGHTING FEATURES

Optics	Wide - Huge – Cycle
Luminous flux	Up to 25,800 lm
Luminous efficacy	Up to 155 lm/W
Colour temperature	3,000 K - 4,000 K
Colour rendering index	CRI>70
Standard deviation colour matching	CRI>70 SDCM = 5

MATERIALS

Body	Die-cast aluminium
Screen	Ultra-clear toughened glass, 4 mm thick
Optical unit	Reflectors in optic PVD silver aluminium
External screws	Stainless steel
Colour finish	OUTDOOR polyester powder coating

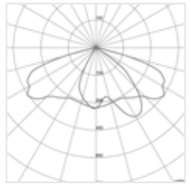
INSTALLATION AND MAINTENANCE

Installation and assembly type	Pole-top or outreach
Orientation	In steps of 5 degrees
Cabling	Watertight cable gland
Driver box	Integrated
Maximum area exposed to wind	0.15 m^2

ELECTRICAL FEATURES AND LIGHT MANAGEMENT

Power supply voltage	220 - 240 V
Rated frequency	50/60 Hz
Power supply	Integrated
Protection device	Up to DM 10 kV / CM 10 kV
Control system	Standalone - Bi-level - 1-10V - DALI - NEMA - ZHAGA
Insulation class	Class I - Class II

Road [5] - wide optic

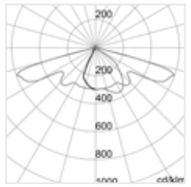


CLASS II

Code	Control system	Colour temperature	Luminous flux of the device (lm)	Absorbed power (W)	Luminous efficiency (lm/W)	Number of modules	Size
GWR5231	Stand alone	4,000 K	2,000	13	154	1 (1x3 LED)	Mini
GWR5251B	Bi-power with self-learning	4,000 K	2,700	19	142	1 (1x3 LED)	Mini
GWR5271B	Bi-power with self-learning	4,000 K	3,700	26	142	1 (1x3 LED)	Mini
GWR5271	Stand alone	4,000 K	3,700	26	142	1 (1x3 LED)	Mini
GWR5211B	Bi-power with self-learning	4,000 K	5,000	37	135	1 (1x3 LED)	Mini
GWR5211	Stand alone	4,000 K	5,000	37	135	1 (1x3 LED)	Mini
GWR5252B	Bi-power with self-learning	4,000 K	5,400	37	146	2 (2x3 LED)	Mini
GWR5272B	Bi-power with self-learning	4,000 K	7,300	51	143	2 (2x3 LED)	Mini
GWR5272	Stand alone	4,000 K	7,300	51	143	2 (2x3 LED)	Mini
GWR5212	Stand alone	4,000 K	9,100	66	138	2 (2x3 LED)	Mini
GWR5212B	Bi-power with self-learning	4,000 K	9,900	74	134	2 (2x3 LED)	Mini
GWR5253B	Bi-power with self-learning	4,000 K	8,100	55	147	3 (3x3 LED)	Medium
GWR5273B	Bi-power with self-learning	4,000 K	11,000	77	143	3 (3x3 LED)	Medium
GWR5273	Stand alone	4,000 K	11,000	77	143	3 (3x3 LED)	Medium
GWR5213B	Bi-power with self-learning	4,000 K	14,800	115	133	3 (3x3 LED)	Medium
GWR5213	Stand alone	4,000 K	14,800	115	133	3 (3x3 LED)	Medium
GWR5254B	Bi-power with self-learning	4,000 K	10,800	73	148	4 (4x3 LED)	Medium
GWR5274B	Bi-power with self-learning	4,000 K	14,600	102	143	4 (4x3 LED)	Medium
GWR5274	Stand alone	4,000 K	14,600	102	143	4 (4x3 LED)	Medium
GWR5214B	Bi-power with self-learning	4,000 K	19,700	148	133	4 (4x3 LED)	Medium
GWR5214	Stand alone	4,000 K	19,700	148	133	4 (4x3 LED)	Medium
GWR5255B	Bi-power with self-learning	4,000 K	13,500	91	148	5 (5x3 LED)	Medium
GWR5275B	Bi-power with self-learning	4,000 K	18,300	127	144	5 (5x3 LED)	Medium
GWR5275	Stand alone	4,000 K	18,300	127	144	5 (5x3 LED)	Medium
GWR5215B	Bi-power with self-learning	4,000 K	21,500	155	139	5 (5x3 LED)	Medium
GWR5215	Stand alone	4,000 K	21,500	155	139	5 (5x3 LED)	Medium
GWR5256B	Bi-power with self-learning	4,000 K	16,200	109	149	6 (6x3 LED)	Medium
GWR5276B	Bi-power with self-learning	4,000 K	21,900	153	143	6 (6x3 LED)	Medium
GWR5276	Stand alone	4,000 K	21,900	153	143	6 (6x3 LED)	Medium
GWR5216B	Bi-power with self-learning	4,000 K	25,800	186	139	6 (6x3 LED)	Medium
GWR5216	Stand alone	4,000 K	25,800	186	139	6 (6x3 LED)	Medium

Available for projects and specific designs: Class I, CCT and CRI add-ons, versions 1-10 V, DALI, 5-step, NEMA, Zhaga

Road [5] - Cycle/pedestrian path optic

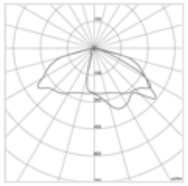


CLASS II

Code	Control system	Colour temperature	Luminous flux of the device (lm)	Absorbed power (W)	Luminous efficiency (lm/W)	Number of modules	Size
GWR5371MV	DALI – 5-STEP	4,000 K	1,900	26	73	1 (1x3 LED)	Mini
GWR5371M	Dimmable 1-10 V	4,000 K	1,900	26	73	1 (1x3 LED)	Mini
GWR5372MV	DALI – 5-STEP	4,000 K	3,800	51	75	2 (2x3 LED)	Mini
GWR5372M	Dimmable 1-10 V	4,000 K	3,800	51	75	2 (2x3 LED)	Mini

Available for projects and specific designs: Class I, CCT and CRI add-ons, versions: standalone, bi-level, NEMA, Zhaga

Road [5] - Huge Optic



CLASS II

Code	Control system	Colour temperature	Luminous flux of the device (lm)	Absorbed power (W)	Luminous efficiency (lm/W)	Number of modules	Size
GWR5131	Stand alone	4,000 K	1,900	13	146	1 (1x3 LED)	Mini
GWR5151B	Bi-power with self-learning	4,000 K	2,600	19	137	1 (1x3 LED)	Mini
GWR5171B	Bi-power with self-learning	4,000 K	3,500	26	135	1 (1x3 LED)	Mini
GWR5171	Stand alone	4,000 K	3,500	26	135	1 (1x3 LED)	Mini
GWR5111B	Bi-power with self-learning	4,000 K	4,700	37	127	1 (1x3 LED)	Mini
GWR5111	Stand alone	4,000 K	4,700	37	127	1 (1x3 LED)	Mini
GWR5152B	Bi-power with self-learning	4,000 K	5,100	37	138	2 (2x3 LED)	Mini
GWR5172B	Bi-power with self-learning	4,000 K	6,900	51	135	2 (2x3 LED)	Mini
GWR5172	Stand alone	4,000 K	6,900	51	135	2 (2x3 LED)	Mini
GWR5112	Stand alone	4,000 K	8,600	66	130	2 (2x3 LED)	Mini
GWR5112B	Bi-power with self-learning	4,000 K	9,300	74	126	2 (2x3 LED)	Mini
GWR5153B	Bi-power with self-learning	4,000 K	7,700	55	140	3 (3x3 LED)	Medium
GWR5173B	Bi-power with self-learning	4,000 K	10,400	77	135	3 (3x3 LED)	Medium
GWR5173	Stand alone	4,000 K	10,400	77	135	3 (3x3 LED)	Medium
GWR5113B	Bi-power with self-learning	4,000 K	13,900	115	125	3 (3x3 LED)	Medium
GWR5113	Stand alone	4,000 K	13,900	115	125	3 (3x3 LED)	Medium
GWR5154B	Bi-power with self-learning	4,000 K	10,200	73	140	4 (4x3 LED)	Medium
GWR5174B	Bi-power with self-learning	4,000 K	13,800	102	135	4 (4x3 LED)	Medium
GWR5174	Stand alone	4,000 K	13,800	102	135	4 (4x3 LED)	Medium
GWR5114B	Bi-power with self-learning	4,000 K	18,600	148	126	4 (4x3 LED)	Medium
GWR5114	Stand alone	4,000 K	18,600	148	126	4 (4x3 LED)	Medium
GWR5155B	Bi-power with self-learning	4,000 K	12,700	91	140	5 (5x3 LED)	Medium
GWR5175B	Bi-power with self-learning	4,000 K	17,200	127	135	5 (5x3 LED)	Medium
GWR5175	Stand alone	4,000 K	17,200	127	135	5 (5x3 LED)	Medium
GWR5115B	Bi-power with self-learning	4,000 K	20,300	155	131	5 (5x3 LED)	Medium
GWR5115	Stand alone	4,000 K	20,300	155	131	5 (5x3 LED)	Medium
GWR5156B	Bi-power with self-learning	4,000 K	15,300	109	140	6 (6x3 LED)	Medium
GWR5176B	Bi-power with self-learning	4,000 K	20,700	153	135	6 (6x3 LED)	Medium
GWR5176	Stand alone	4,000 K	20,700	153	135	6 (6x3 LED)	Medium
GWR5116B	Bi-power with self-learning	4,000 K	24,400	186	131	6 (6x3 LED)	Medium
GWR5116	Stand alone	4,000 K	24,400	186	131	6 (6x3 LED)	Medium

Available for projects and specific designs: Class I, CCT and CRI add-ons, versions 1-10 V, DALI, 5-step, NEMA, Zhaga

Code	Description
GWR5191	Backlight screen for ROAD [5] mini
GW84096	Graphite grey painted conical pole length 5.5 m
GW87591	Graphite grey painted conical pole length 6.8 m
GW84097	Graphite grey painted conical pole length 7.8 m
GW87592	Graphite grey painted conical pole length 8.8 m
GW87593	Graphite grey painted conical pole length 9.8 m
GW87581	Single pole head bracket Ø60 mm
GW87582	Double pole head bracket Ø60 mm
GW87586	Variable height bracket length 1 m
GW87587	Variable height bracket length 0.5 m
GW86167	Wall-mounting bracket

GEWISS AT YOUR SERVICE

DESIGN TEAM

To support you in the design of your electrical or lighting system, GEWISS provides specialised designers who can answer all your questions or help you with the design draft, to ensure quality and professionalism.

SOFTWARE

BIM
LIBRARY

BIM is an online software application that can be used on any internet-connected device (smartphone, tablet, or PC) for downloading BIM models of GEWISS products.

DIALUX
PLUGIN

PlugIn for professional light design with GEWISS products, for use with Dialux® software.

RELUX
PLUGIN

PlugIn for professional light design with GEWISS products, for use with Relux® software.

REVIT
PLUGIN

PlugIn for creating BIM projects with GEWISS products, for use with Revit® software.

WWW.GEWISS.COM

Our website is constantly evolving to ensure that you always have up-to-date information and useful work tools that can be downloaded or accessed online at any time. In this section, you can also build your own custom catalogue and save your favourite products and services, to save time when viewing them, or simply keep them as an archive for your projects.

DOCUMENTATION

GEWISS produces various types of documentation for each product and solution range, including technical data sheets, specifications, flyers, family or service brochures and Solution catalogues for the various application sectors, with detailed information about integrated and IoT solutions. Request the documentation you need from your trusted supplier or visit gewiss.com

GEWISS

Visit **www.gewiss.com** and follow us on:

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