Light defines
Siteco LED Town
and Park Luminaires

Efficient lighting for roads, paths and plazas with high quality of light and superior visual comfort.

Light is OSRAM
Designing exterior spaces with innovative LED luminaires

The LED Module 540 heralds the future of town and park lighting. The module is characterised by a high level of visual comfort and unique optical control, as well as innovative LED technology that also promises a high level of acceptance with residents.

The module can be fitted into all mushroom and lantern-design town and park luminaires from the OSRAM subsidiary Siteco, achieving a substantial contribution in terms of energy and costs as well as both decorative and sustainable outdoor lighting for cities, towns and local councils.

LED Module 540: one single module for all luminaires
More clarity – all town and park luminaires feature clear covers for attractive appearances during the day and night as well as high lighting quality.
One single module, many advantages

- Low energy consumption due to high luminaire luminous efficacy (up to 100 lm/W) and demand oriented control options
- Long rated service life of up to 80,000 operating hours (L80/B10)
- High visual comfort, uniform illumination of the road and an exceptional glare reduction
- Decorative day and night-time effect and improved visual guidance
- Easy mounting, low maintenance and future-safe modular construction
The future of urban lighting is modular

Just one module for a wide diversity of applications – a requirement provided to perfection for town and park lighting with the Siteco LED Module 540: one module for eight different types of luminaire, three reflector geometries for all typical applications, two light colours for design-oriented or functional lighting and three luminaires control options (Basic/Plus/Premium) as well as further features.
The modular design of Siteco town and park luminaires complies with further important requirements as well:

— High-performance LED arrays significantly reduce energy consumption
— Highly precise HD reflectors guide the light efficiently onto the road section
— High inherent material quality and material processing enables a long life for all components
— The LED components and electronic control gear are replaced in a sustainable way, and the durable module body remains for decades on the mast
— Innovative control technology enables optimisation of energy consumption according to requirements
Luminous cones mark the way. Siteco town and park luminaires with their luminous white module bodies are seen from afar, providing outstanding visual guidance for traffic participants, and without glare for residents or pedestrians.

As such, the LED Module 540 sets new standards for road lighting.

The module provides guidance for streetscapes as previous mushroom luminaires did, but thanks to state-of-the-art lighting technology a better road illumination with outstanding quality of light can be achieved.

The body is constructed of durable diecast aluminium and features a high-reflection white coating for modern and aesthetically appealing day and night-time effects.

### Module body

The LED reflectors efficiently guide the light directly onto the ground, and light rays in the peripheral areas are emitted onto the module body. With its specific form, the body reflects precisely defined light components to achieve a decorative effect, that in turn transforms the module body itself into a luminous component.
LED Module 540: one module for all luminaires

CITY-LIGHT family

- Cylindrical cover; slender canopy with low tilt (PLUS) or as dome (ELEGANCE)
- Elegant, transparent new interpretation of the classic lantern design, specifically for town centres and residential areas
- Three reflector geometries
  (see page 11), two light colours

CITY-LIGHT PLUS LED  CITY-LIGHT ELEGANCE LED
A modular design for sustainable use

Only a completely modularly developed product can genuinely protect resources and be sustainable. This is the guiding philosophy for the future-proof design of the LED Module 540.

The ECG and LED unit are separately connected to the module body, enabling individual replacement with higher-performance components in the future. All components are completely pre-assembled with delivery of the luminaire, and the module body itself can be used over decades thanks to high quality materials and material processing. This means that the greatest part of luminaire materials remains permanently on the mast, in contrast to many other LED road luminaires.

Intelligent thermal management

Consistent heat dissipation of the LED Module 540 enables full exploitation of its performance potential, because cool surroundings increase the energy efficiency and durability of the system.

LED-typical heat development is kept at bay due to the relatively low current feed of the system, and is effectively dissipated from the module head over the suitably constructed module body.

The same principle applies to the ECG integrated in the module base. The constructional principle prevents any build-up of heat possibly caused by tightly assembled components.
**LED unit**

The photometric unit consists of high-performance LED components with highly precise HD reflectors assembled on a high quality diecast aluminium element as support platform. Light is guided specifically to the ground with avoidance of direct light spill to the sky. This achieves light immission of less than 3%.

The LED unit is pre-assembled in the module body upon a delivery. Only four screws must be released to replace the unit to integrate subsequent LED upgrades.

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**Module body**

The module body combines the robust gear tray, cover and canopy, aids orientation in road traffic and dissipates heat from the LEDs and electronic control gear. The body is attached to the gear tray with a bayonet catch.

A spiral cable with plug connector enables convenient and safe electrical connection.

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**ECG/gear tray**

The control unit is pre-connected to the gear tray for rapid, simple mounting, and the complete assembly is attached in the mast mounting element with three screws. A special feature: a protective foil separates the connection terminal from the housing, providing an electrically safe construction.
A high light quality contributes to safety consciousness

The sophisticated optics of Siteco LED town and park luminaires enable premium lighting systems, providing a reliable solution for the dilemma of many market-standard LED luminaires to avoid glare for pedestrians, vehicle drivers and residents in typical observer positions thanks to its specific construction.

Harmonious transitions in contrast facilitate viewing and the uniform distribution of light avoids dark zones, while supporting a subjective sense of safety and security. The key to this are the precisely calculated faceted reflectors in the Siteco LED Module 540. These split the rays from the high-powered LEDs into planar, pleasant light.

Asymmetric wide distribution
Typical applications:
- Collection, service and residential roads, pedestrian zones
- Applications in e.g. residential districts
- Mast spacing up to approx. 35 m
  Mounting height 3 m...6 m

Asymmetric extremely wide distribution
Typical applications:
- Service and residential roads, cycle paths and park paths, building entrances
- Also suitable for wide mast spacing and simultaneously low mounting heights
- Mast spacing up to 40 m
  Mounting height 3 m...6 m

Symmetric distribution
Typical applications:
- Parking areas, plazas, large-area urban spaces
- For uniform and discreet illumination in public spaces and exposed zones in parking areas
- Mast spacing up to 30 m
  Mounting height 3 m...6 m

LED Module 540: one module for all luminaires
LANTERN family

- Cylindrical cover below: upgraded above
- CLASSIC and DELUXE with housing frame, LANTERN with self-supportive cover
- New interpretation of traditional post-top luminaires, e.g. for the upgrading of urban districts
- Three reflector geometries and two light colours

LANTERN LED  LANTERN CLASSIC LED  LANTERN DELUXE LED
Flexible lighting solutions increase urban appeal

The level of urban appeal and quality of life is determined by individual well-being, and lighting plays a major part in this. The appearance of lighting influences the surroundings, with form and design playing a primary role during the day and the quality of light at night.

Both directly affect the feeling of safety, personal well-being and identification with the surroundings.

Siteco town and park luminaires allow these factors to be individually planned and designed, and warm white or neutral white light colours enable either more design-oriented or functional lighting.

The HD spreader can also be used for challenging photometric tasks, further optimising the uniformity of light emitted and additionally increasing visual comfort.
Atmosphere and well-being
Image on left: A warm white light color provides a pleasant feeling of comfort and warmth. It supports a positive environment and well-being and thus grants a high quality of stay in public space. Warm white is therefore especially suitable for residential streets, pedestrian zones and urban plazas and paths.

Functionality and safety
Above: Neutral white light communicates a feeling of improved vision, provides more time for responding in road traffic and also increases the sense of safety and security for traffic participants. Neutral white is therefore ideal for roads with high traffic loads as well as parking lots.

High Definition Spreader
- Additional cover for greater uniformity with light distribution
- Improves visual comfort for pedestrians and vehicle drivers
- Protects from direct viewing of LEDs and improves the module appearance
- Fixed without tools

Decorative ring
- Silver-coloured cover for the base of the LED Module 540
- Colour-matched to the body of Siteco town and park luminaires
- Fitted without tools during luminaire mounting
less energy consumption and greenhouse gas emissions with simultaneously improved light conditions on roads

LED Module 540 (from 14 W) up to 80% less energy consumption and greenhouse gas emissions with simultaneously improved light conditions on roads

System with LED Module 520/42W

Obsolete system (up to 15 years)/HSE 70W

Obsolete system (older than 15 years)/HQL 125W
Intelligent control saves further energy

In addition to the use of efficient LED technology, further energy can be saved by using intelligent controls. Not every traffic situation, type of weather or time of the day needs the same quantity of light, and at the same time lighting must always comply with legislative standards, with the maxim being as little as possible and as much as is required.

Modern LED technology can be dimmed and switched steplessly and almost without power loss, and individual, electronic control is possible. In this way luminaires can be specifically set for their application with high precision and according to needs, and with minimum energy for operation.

Up to 16% of energy can be additionally saved for example via constant luminous flux control available with the Plus control package, that renders the over-dimensioning of lighting installations unnecessary and compensates for the age-related reduction in luminous flux.

Three functional packages are available:

- Maximum flexibility and efficiency via integration into intelligent, networked light management and monitoring systems
- Intelligent, self-sufficient light management system for lighting according to requirements based on individual programming
  - Electronic type plate and automatic data exchange for smart performance updates (see page 21)
- Night-time reduction at times of low traffic density to 50% rated luminous flux, at less than 50% rated power, via one control wire

### Functional package details*

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<th>Standard</th>
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<th>Communication</th>
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<td>Power reduction</td>
<td>Flexible luminous flux configuration</td>
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*more on page 20 onwards
A technically convincing concept for practitioners

Simple installation, low-maintenance operation and low logistical effort – Siteco LED town and park luminaires have been designed completely to the needs of practitioners.

Mounting and electrical connection on the mast are achieved with a few steps and without special tools. The clear PMMA-cover and the canopy elements white underside, upper side coated in Siteco® metallic grey (DB 702S) are extremely resistant to adverse weather and also repel soiling.

Easy installation
See for yourself: The LED Module 540 is connected and put to use with just a few turns of the hand. Simply scan the QR code and download the video onto your mobile phone, or see www.siteco.com/led-module-540-mounting
The cover is positioned over the LED Module 540. The luminaire canopy is then fixed via a thread to the module head.

**Attach the module body**
Attach the module body with pre-assembled LED unit via the bayonet catch. Electrical plug connection is via an inner spiral cable.

**Fix the cover and canopy**

**Future-proof – the next level**

The modular luminaire design has been planned for practical use. This includes the possibility of simple modular replacement of the LED unit and electrical components, to simplify material procurement and luminaire settings.

**LED unit**
The LED unit can be simply released from the module body with just four screws for upgrading to future, higher-performance LEDs or following expiry of the LED operating service life.

**Electronic type plate**
Modules with the Plus or the Premium package feature a special component that stores type information, power and operating data of the module (such as operating hours) and application-specific settings. This information can be read out on-site, enabling the simple identification of spare parts for example.

**Automatic data exchange**
Modules with the Plus or the Premium package also feature automatic data exchange for power adjustment between the LED module and ECG. This enables a seamless luminaire operation with previously used luminaire settings, for example pre-set dimming levels. If more efficient components of later generations are installed, the appearance of the lighting installation is not changed – individual luminaires operate with greater efficiency, a manual readjustment is no longer required.
Good light is created with precise tools

Professional lighting is a highly complex interaction of various factors, concerning not a cure-all but always the best solution for individual needs. In order to plan quick, easy, reliable and yet individual and efficient solutions by yourself, we developed a series of useful tools.

All applications and calculators are available for free on our website. Of course we can also help you personally with on-site analyses and advice, and can also provide support when designing individual technical solutions.

Cost Efficiency Calculator

The Siteco Cost Efficiency Calculator is a web application for evaluating the cost efficiency of two outdoor lighting installations. The installations (‘comparison installation’ and ‘new installation’) can be compared to each other over a variable service life in terms of investment costs and operating costs. For evaluating cost efficiency the amortisation of an investment over the service life is calculated both statically and dynamically and displayed in figures and tables.

The cost efficiency calculator makes available the following information and services:
- Simple step-by-step user guidance
- A clear comparison of the old and new system
- Data for investment, operating and energy costs
- Reliable amortisation calculations
- Tabular and graphical display of results
- Documentation and download of results as PDF files
- Creation and saving of individual projects

The cost efficiency calculator:
http://www.siteco.com/eco-calculator-outdoor
**Siteco Lighting Tool**

The tool enables you to select a product with just a few clicks and to transfer this to RELUX and DIALUX lighting planning programs. The Indoor and Outdoor product ranges are available. The products can be selected via the catalogue structure (product segment, group or family) or via features (mounting method, lamp type, lamp quantity, control unit etc.). The tool also offers the complete text search as a further search option. Data can be forwarded to DIALUX and RELUX via drag and drop. The tool is aimed at users having knowledge of lighting planning and specifically valid standards.

The tool is intended to provide support when searching for optimal luminaires from the Siteco product spectrum, and provides answers to the following questions for example: Which luminaire meets the specified lighting class with the widest mast spacing? Which luminaire meets the specified lighting class with the lowest energy consumption per metre? Which lighting class is met by the luminaire for a specific road arrangement? Results can be printed out or saved as PDF files.

The Siteco Lighting Tool:

[www.siteco.com/lighting-calculation](http://www.siteco.com/lighting-calculation)

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**Siteco luminaire test road**

Scientific surveys are one thing, but personal experience counts for more. Interested parties can experience a comparison between modern LED luminaires and conventional luminaire systems on the luminaire test road at the Siteco company premises in Traunreut, Germany. A wide variety of application scenarios can be simulated. Various mounting heights, mast spacing distances and luminaire technologies can be specified to achieve realistic situations. In addition, the performance of the LED Module 540 can be experienced in the in-house luminaire park.

Interested? Then simply contact your personal Siteco sales representative.
### Functional packages in an overview: Basic, Plus, Premium

Intelligent control functions are a part of all Siteco LED outdoor luminaires. With such intelligence integrated into the LED operating electronics, the efficiency potential of LEDs can be exploited even more. The control functions make use of the outstanding feature of LED light sources to reduce luminous flux without loss in order to increase energy and cost savings.

The control functions of Siteco LED town and park luminaires are combined in three different functional packages: Basic, Plus and Premium. The values for luminous flux are either factory-set (Basic package), can be individually set with the Siteco Service Box (Plus package) or centrally set via Street Light Control (Premium package). The Plus and Premium versions offer the widest spectrum of efficient control of LED luminaires according to needs.

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<tr>
<th>Basic package</th>
<th>Plus package</th>
<th>Premium package</th>
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<tbody>
<tr>
<td><strong>Power reduction, overheat protection</strong></td>
<td><strong>Power reduction, overheat protection, constant luminous flux control, flexible luminous flux parameterisation, time-dependent luminous flux control, digital communication interface, automatic data exchange, electronic type plate</strong></td>
<td><strong>Power reduction, overheat protection, constant luminous flux control, flexible luminous flux parameterisation, time-dependent luminous flux control, automatic data exchange, electronic type plate, Street Light Control</strong></td>
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<tr>
<td><strong>Benefits:</strong>&lt;br&gt;— Wired power reduction (twilight switching)&lt;br&gt;— Two factory-set illuminance levels (complete darkness / twilight)</td>
<td><strong>Benefits:</strong>&lt;br&gt;— Precise parameterisation of the luminaire to ambient conditions, or operation via the Siteco® Service Box&lt;br&gt;— Intelligent, self-sufficient light management system</td>
<td><strong>Benefits:</strong>&lt;br&gt;— Central control and automatic monitoring of each light point is possible&lt;br&gt;— Reduction of maintenance paths and costs&lt;br&gt;— Improved safety awareness via adaptation of lighting according to needs</td>
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</table>
Power reduction
All Siteco LED luminaires are equipped with an intelligent connection for detection of power reduction via a switched control wire (230V). Factory setting with power reduction via control wire: Lst = 230V: 100% rated luminous flux (complete darkness) | Lst = 0V: 50% rated luminous flux (twilight).
The switching logic can be reversed with the service box for luminaires in the Plus version. With no control wire the luminaire emits 100% rated luminous flux (connection remains free).

Overheat protection
The temperature of the LED module and operating electronics is permanently monitored. With excessive temperature the lighting level and power rating is automatically reduced and the luminaire can cool down. When a lower temperature threshold is reached, the luminaire returns to the original lighting level and power rating. This function is purely a protective function to secure the long service life despite possible operating errors (e.g. unintended daytime switching with very high ambient temperatures or with direct sunlight). During operation within the predefined specifications, luminaire temperatures remain safe.

Constant luminous flux control
All light sources, including LEDs, are subject to luminous flux degradation over the service life. This must be taken into account in the planning phase and the system must be correspondingly over-planned. This leads to excessive illumination and energy waste. The Siteco constant luminous flux control counteracts this degradation, and continuously adds to the output of the LEDs. Rated luminous flux thus remains constant over the service life. The light source degradation factor is 1, the maintenance factor is increased. In this way, over-planning is no longer necessary. This means energy-optimised and standard-compliant lighting at all times.

Flexible luminous flux parameterisation
By the binding to fixed wattages with conventional lamps (e.g. 70W, 100W, 150W) only in rare cases is the calculated result of a lighting installation achieved. The next higher wattage must be specified, the system is overlit, energy is wasted. With flexible luminous flux setting the light level can be adapted individually and precisely to the calculated result.
Both switch-on value (full night) and reduction values (twilight) can be adapted according to needs.

Time-dependent luminous flux control
The luminaire calculates an artificial (virtual) midnight based on the nominal operating period of the previous five days. On the basis of this midnight value, time windows can be defined in which the luminaire is reduced in one or two steps to freely settable lighting levels. Because of the constant internal updating of the nocturnal operating hours the luminaire adapts automatically to the seasonally varied burning durations.

Digital communication interface
This function represents the interface between the luminaire and the external world. It enables all required parameters such as lighting level, reduction control and automatic night-time reduction to be modified according to needs via the Siteco Service Box. Connection to higher-level control systems is also via this interface (on request).

Automatic data exchange
Enables replacement of the module without manual resetting of luminous flux parameters: if a module (PLUS ECG or LED module) is replaced at any time during the system life, luminaires automatically continue operation with identical lighting levels and operating settings (timer, light levels). Modules exchange performance and operating data independent of module types and module generation.

Electronic type plate
Enables the simple, rapid identification of the ECG module and LED module and possible spare parts. It contains all module information and operating settings (serial number, module performance data, operating data/operating hours, and operating settings such as dimming levels and timer settings). The electronic type plate can be read out with the Service Box to be used as a basis for creating operating statistics.

Street Light Control
Street Light Control enables the individual triggering of luminaires without supplementary cabling from a central control point, control according to requirements and monitoring. Data transmission is via the existing power network via a standard LON protocol. Consumption values are recorded and logged, and any luminaire faults are sent automatically via e-mail or SMS. Maintenance plans can be set as desired and maintenance excursions optimised.
LED Town and Park Luminaires with the LED Module 540

Features for all luminaires

- Net luminous flux: approx. 1400 to 2300 lm
- Power consumption: from 14 W
- System efficiency: up to 100 lm/W
- Rated service life: up to 80,000 hrs. (L80/B10)
- Voltage 220 – 240 V
- Connection: 5-pole terminal, max. 2.5 mm²
- Module body of diecast aluminium
- Body serves as decorative element and for optical guidance
- Colour: white
- Protection rating: IP54, IK 04, IP65 (on request)
- Insulation class II
- Dimensions: 650 mm x 586 mm
- Weight: 6.8 kg

Lighting classes

All lantern-design luminaires with LED Module 540 and CITY-LIGHT PILLAR 260 LED

S1  S2  S3

Light colours for all luminaires

- 3000 K, warm white light for a pleasant atmosphere
- 4000 K, neutral white light for a neutral atmosphere

Photometrics for all luminaires

- HD reflector technology with light distribution over three zones achieves precise light control, optimal lighting results and maximum visual comfort
- Reflector of high-performance polymer, highly specular vapourised
- HD spreader available as an optional accessory, improves uniformity of light distribution

Control packages for all luminaires
Asymmetric wide distribution
Primary applications:
collection roads, residential roads, pedestrian zones
Mast spacing: to approx. 35 m
Mounting height 3 m…6 m

Asymmetric extremely wide distribution
Primary applications:
service and residential roads, cycle paths and paths in parks, building entrances
Mast spacing to 40 m
Mounting height 3 m…6 m

Symmetric wide distribution
Primary applications:
parking areas, plazas, large-area urban spaces
Mast spacing to 30 m
Mounting height 3 m…6 m

Premium
Maximum flexibility and efficiency via intelligent, networked Street Light Control light management

Plus
Also includes luminous flux tracking, 2-level power reduction and electronic type plate

Basic
With night-time reduction to 50 %
### MUSHROOM LUMINAIRE LED

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### LANTERN LED

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### LANTERN CLASSIC LED

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## LANTERN DELUXE LED

- **Asymmetric wide distribution**
- **Asymmetric extremely wide distribution**
- **Symmetric distribution**

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## CITY-LIGHT PLUS LED

- **Asymmetric wide distribution**
- **Asymmetric extremely wide distribution**
- **Symmetric distribution**

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## CITY-LIGHT ELEGANCE LED

- **Asymmetric wide distribution**
- **Asymmetric extremely wide distribution**
- **Symmetric distribution**

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### LED Town and Park Luminaires | Order Data

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#### CITY-LIGHT BOLLARD 120 LED

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### Premium control package

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### Optical accessories

#### HD spreader

For all luminaires | can be retrofitted without tools

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<th>Order number (Siteco)</th>
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#### Decorative ring

For all luminaires | can be retrofitted without tools

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### Further accessories

for all luminaires

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<tr>
<td>Cover, PMMA, clear, ø = 200mm, for CITY-LIGHT ELEGANCE LED, CITY-LIGHT PLUS LED</td>
<td>4039806059666</td>
<td>5NA54900XG</td>
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<td>Cover, PMMA, clear, ø = 185mm, for LANTERN LED</td>
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<td>5NC54700XG</td>
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<tr>
<td>Cover, PMMA, clear, ø = 185mm, for MUSHROOM LUM. LED</td>
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<td>5LA53220XG</td>
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<tr>
<td>Post top mounting element, aluminium, diecast, spigot size: 76mm</td>
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<td>5LA52201XH08</td>
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<td>Reducer, aluminium, diecast, uncoated spigot size: 76/60mm</td>
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<td>5LA52201XR</td>
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