



siteco

DL[®] 50

The perfectly styled
family of luminaires.

Types,
Data sheets,
Configuration –
all at a glance:

DL[®] 50





Design that takes us into the future.

Life is getting more and more complex, as are the responsibilities of a city administration. SITECO's DL° 50 at least makes one municipal area of responsibility simple, predictable and fit for the future: the issue of light.

DL° 50 is a range of luminaires for an entire city – from narrow paths to multilane arterial roads. As a solution bridging the gap between technical and decorative lighting, it is the epitome of what characterizes urban lighting: highly efficient, non-glare light with precision light distribution, combined with an elegant exterior in the tradition of classically technical luminaires.

This design vocabulary enables the DL° 50 family to dovetail with any architectural environment. Of modular design, featuring two sizes and a range of installation options, it blends in perfectly with the environments in which it operates and nevertheless enables consistent streetscape design.

DL° 50 – that means outstanding technical features, concealed in visually appealing designs.

- **Its living space – urban environments.**

Made for urban life in all its facets: with the aid of specific light distribution patterns, the DL° 50 family cuts a dash in both the historic market square and along the urban highway.

- **Its character – completely flexible.**

The DL° 50 really is an extended family of mast and catenary luminaires. Available in two sizes, with various installation options and can be combined with decorative bracket arms.

- **Its vision – the future.**

Linked in an interconnected world? No problem with the DL° 50 family. It masters everything that light in the Smart City must be capable of. You decide the configuration level.



✓ **Saves time and money**

- Convenient installation thanks to preinstalled connection cable
- Control parameters can be set straight after installation without requiring a cherry picker on the street
- Simple, quick identification of luminaire using QR code
- Low operating costs and short amortization period thanks to maximum energy efficiency

✓ **Provides design flexibility**

- Wide range of installation versions in the form of side-entry mast, post-top mast or catenary luminaires in a unitary design for the entire city
- Appropriate light distribution patterns for all urban applications – HD faceted reflectors ensure precision light control, a high degree of visual comfort and safety

✓ **Safeguards your decision for the future**

- Can be flexibly upgraded using a Zhaga Book 18 standard Smart Interface to connect control system components retrospectively
- Sustainable replacement concept for ECG unit through automatic data exchange between ECG and LED module
- All components are reusable and 100 % recyclable



DL[®] 50 in all its diversity.


Be it large or small, mounted on ropes, masts or bracket arms, in a decorative or technical environment – the DL[®] 50 family matches its surroundings perfectly. For municipalities that means urban planning flexibility and an assured future.

With a family of luminaires that simply knows no bounds.

- ❶ DL[®] 50 mini catenary luminaire
- ❷ DL[®] 50 midi catenary luminaire
- ❸ DL[®] 50 midi side-entry mast luminaire
- ❹ DL[®] 50 midi post-top mast luminaire
- ❺ DL[®] 50 mini post-top mast luminaire
- ❻ DL[®] 50 midi side-entry mast luminaire with bracket arms
- ❼ DL[®] 50 mini / midi wall luminaire





A close-up photograph of a young child with light-colored hair, looking down at a clear, faceted, pyramid-shaped object held in their hands. The background is a soft, warm, golden glow, suggesting sunlight or a bright light source. The child's face is partially visible, and they appear to be examining the object with interest.

Precision is no matter of chance.

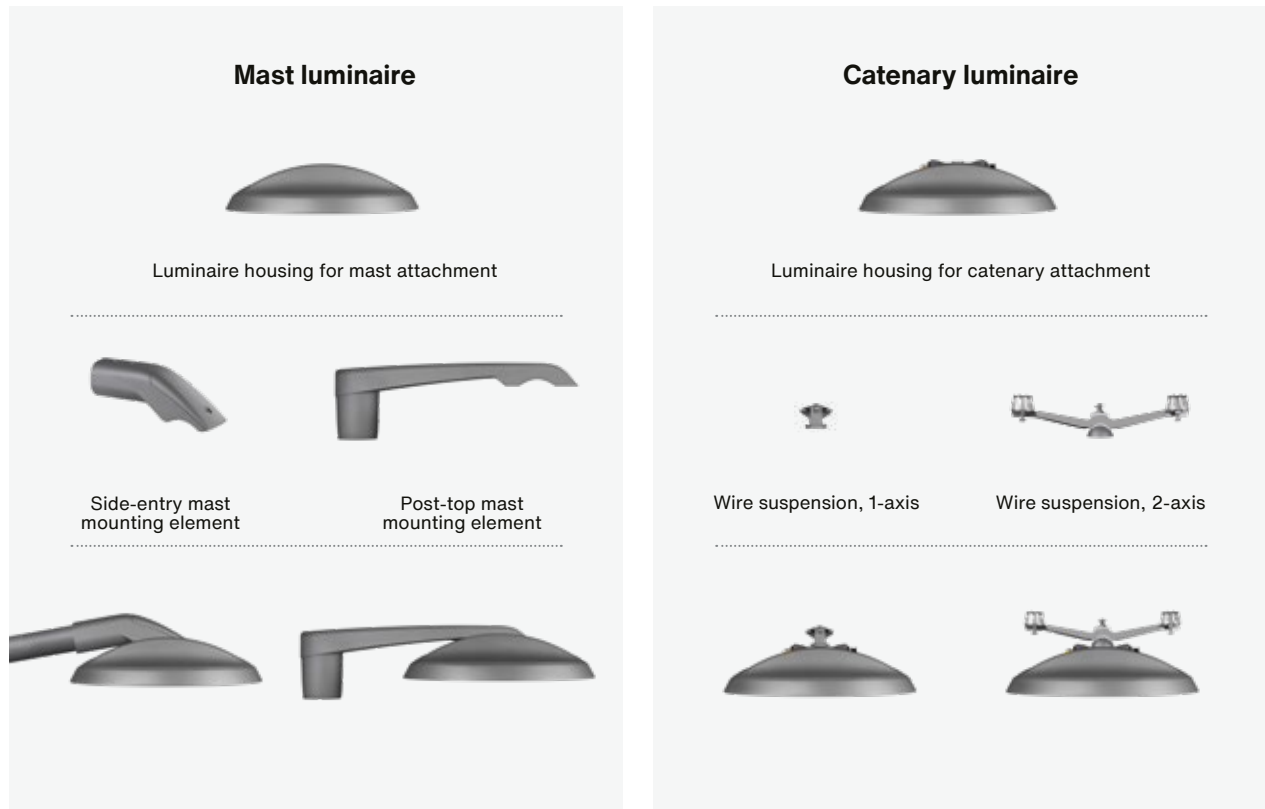
Precision does have a name: 3-zone faceted reflector. These SITECO reflectors transform the high luminance of the high-performance LEDs into homogeneous, pleasant light featuring a high degree of visual comfort. This guarantees precision illumination of paths, streets and plazas/squares. Standardized and entirely without scattered light and glare, ideal for both humans and animals. Talking of animals: The DL[®] 50 family operates without UV / IR radiation and is available in a range of warm light colors. This enables the attraction effect on nocturnally active insects to be reduced to a minimum.

Systematic lighting design.

Powerful, flexible, versatile – the list of DL° 50 characteristics is a long one. But what matters most is that its modular design always means that this luminaire is exactly the solution that you require for your city and for your special application. Particular esthetic accentuation can also be provided in combination with decorative masts and bracket arms. For light that is literally not just off the rack.

An overview of the options:

The DL° 50 family is of modular design. As with every precisely matched modular system, the required elements can be pieced together. For a consistent design style, simpler assembly and enhanced inventory management.



SITECO urban and park luminaires ...

... accentuate.

Decorative solutions style outdoor spaces day and night. They shine and illuminate – for example with coordinated light colors as well, depending on where they are used.

... invite.

People like being in places where it is pleasant. Decorative light creates atmosphere and ensures people feel good.

More than light.

Solutions such as the DL® 50 family do not just simply illuminate cities. They are an elementary part of the cityscape – day and night. Like purely technical solutions, they promote traffic safety and enable energy-saving operation that factors in all aspects of environmental protection. And yet decorative light can do so much more. Urban lighting with high esthetic pretensions gives a city atmosphere and its unmistakable character leaves its mark.

My city. My light. SITECO solutions for urban spaces.

... link and structure.

SITECO's urban lighting solutions enable consistent cityscapes to be conceptually designed. Or they intentionally style certain urban zones, for example historic downtowns.

... act as a design feature.

Featuring styling that contrasts, urban luminaires provide esthetic accentuation in cityscapes, on request in combination with self-designed masts.

... provide orientation.

Decorative solutions do not take a back seat at night. They clearly indicate what directions roads take and function as reference points.



DL[®] 50 versions



DL[®] 50 mini

Technical data

Rated luminous flux: from 1,440 to 7,310 lm

Rated input power: up to 58 W

Luminaire efficacy: up to 148 lm / W

Rated service life: up to 100,000 h (L97 / B10)

Recommended mounting height: 4 – 8 m

Applications

Residential streets, collection roads, cycle paths, pedestrian crossings, inner city areas

Light distributions

1 2 3 4 5 6 (see diagram below)



DL[®] 50 mini catenary luminaire

Technical data

Rated luminous flux: from 2,800 to 7,310 lm

Rated input power: up to 53 W

Luminaire efficacy: up to 148 lm / W

Rated service life: up to 100,000 h (L97 / B10)

Recommended mounting height: 4 – 8 m

Applications

Collection roads, main roads, inner city areas

Light distributions

1 2 3 4 5 6 (see diagram below)

Applies to all DL[®] 50 versions

Optical concept

Multizone faceted reflector, made of plastic, silver-coated, highly specular

Light colors

4,000 K, 3,000 K, 2,200 K on request

Color rendering: CRI > 70 / 80

Luminous intensity classes: G1, G3, G4, G6

Light emission: 0 %

Type of protection

IP66

Safety class: SK II

Impact resistance: IK08

Installation

Post-top mast mounting element: 76 / 60 mm with reducer

Side-entry mast mounting element: 60 / 42 mm with reducer

Catenary luminaire: with 1 swivel and / or rotary axis

All versions are available with Smart Interface



Technical data

Rated luminous flux: from 7,340 to 15,490 lm
Rated input power: up to 116 W
Luminaire efficacy: up to 140 lm / W
Rated service life: up to 100,000 h (L97 / B10)
Recommended mounting height: 6 – 10 m

Applications

Residential streets, collection roads, pedestrian crossings, plazas / squares, inner city areas

Light distributions

1 2 3 4 5 6 (see diagram below)

Technical data

Rated luminous flux: from 7,340 to 15,490 lm
Rated input power: up to 116 W
Luminaire efficacy: up to 141 lm / W
Rated service life: up to 100,000 h (L97 / B10)
Recommended mounting height: 6 – 10 m

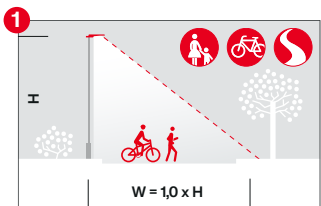
Applications

Collection roads, main roads, plazas / squares, inner city areas

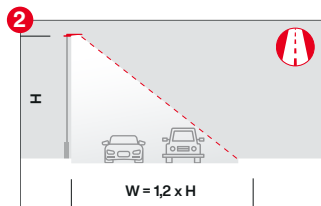
Light distributions

1 2 3 4 5 6 (see diagram below)

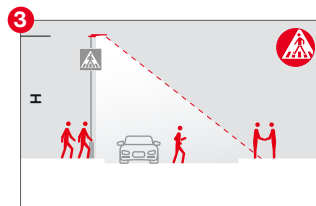
Light distributions for DL® 50 versions:



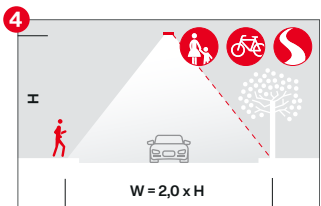
P1.0a – for narrow paths, streets and cycle paths



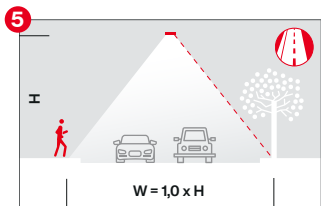
ST1.2a – for normal streets and wide streets



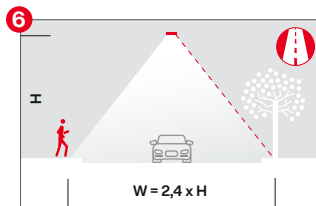
PC-L/R – for pedestrian crossings



P1.0s – for narrow paths and streets



ST0.5s – for narrow streets



ST1.2s – for normal streets and wide streets

Benefits provided by modern lighting control systems



Improved safety for people on roads and protection from vandalism



Sustainability through the protection of environmental resources and the animal world



Energy efficiency improvements through dimming according to requirements



Optimized operational management using current diagnostic data and documented systems

Upgrade, control and monitor DL[®] 50 the smart way:
with SITECO Connect.



Get going quickly with SITECO Connect

From simple control to a connected system.

There is a good reason why people refer to “city lights” when describing the special attraction of urban spaces. SITECO solutions makes cities and communities even more livable. Thanks to efficient, connected and sustainable lighting solutions.

Thanks to a Smart Interface, DL[®] 50 has standardized interfaces that comply with the Zhaga Book 18 standard, which enables the plug & play installation of a range of compatible radio control systems and sensors.

The Smart Interface not only ensures a secure future, it also enables additional flexibility and greater independence. Cities and municipalities can adopt the control technology gradually – the time of launching or retrofitting can be selected as required.

SITECO Connect 31



SITECO Connect 21



SITECO Connect 11



100 %
Flexibility thanks to upgrades

Start off simply, upgrade flexibly.

Upgrades provides 100% flexibility

SITECO Connect 31: **Individual luminaires**

Individual luminaires are activated or dimmed with a local motion detector.



Example: The motion detector activates just one luminaire.

SITECO Connect 21: **Several luminaires connected locally**

Several luminaires are connected via radio.

The luminaires in the network communicate and synchronize with one another.

The luminaires are synchronously or continuously activated or dimmed.



Example: The motion detector also switches neighboring luminaires via radio link.

SITECO Connect 11: **Several luminaires connected with remote access**

The luminaires are connected via radio.

Settings can be defined from the office via the network with remote access and status messages sent automatically.

Existing inventory and workflow systems like luxData by sixData can be used as a master.



Example: The network of luminaires works synchronously and is remotely monitored.



Project: City of Mannheim,
Germany
Product: DL® 50



Perfectly coordinated
lighting design
for an entire city.

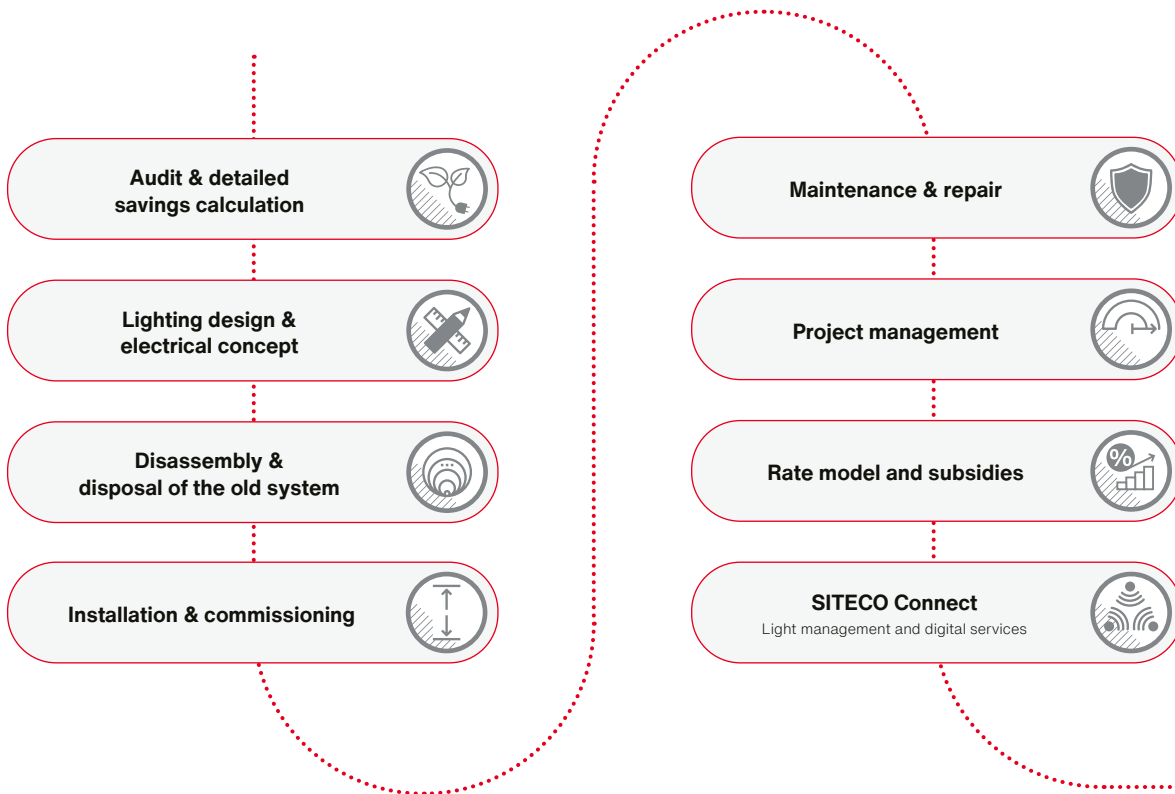
Project: City of Mannheim,
Germany
Product: DL® 50

**SITECO DL® 50 links the
arterials in Mannheim's
downtown area, and
does not compromise on
functionality and design.**



SITECO Services

All-round carefree with a strong partner network.



With our service model, you get turnkey solutions from a single source – from planning and installation to maintenance and financing. The choice is yours: from pure lighting to the “all-round carefree package”.

SITECO is your planning and development partner for every lighting solution.

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