



siteco

LED Lighting Tools | Exterior



Streetlight 10 mini LED

Streetlight 10 mini LED sets the standard for an LED outdoor luminaire designed completely according to energy efficiency and lighting quality requirements. Purist, functional design comes together with high power LEDs and outstanding photometrics, and as such, Streetlight 10 mini LED eminently complies with the requirements of DIN EN 13201 for S and up to the ME lighting classes. The concept of the replaceable optical module is also highly future-fit: it can be simply upgraded and thus ensures a sustainable and future proof use of the high quality luminaire housing. The microprocessor-controlled LED operating electronics allow even more potential for efficiency. Luminance levels can be individually set according to needs for the performance packages 'Plus' (with SERVICE BOX) and 'Premium' (with Siteco Light Control). By installing a supplementary mast controller, the luminaire can be simply integrated into the Siteco Control system.

Anwendung

- service roads, collecting roads, squares
- mounting heights: 4 – 6m
- mast spacing: 30 – 40 m
- lighting class: S3 – S6, ME5

Produktvarianten

- neutral white light colour:
Streetlight 10 mini for S lighting class
Streetlight 10 mini for ME lighting class
- with 'Basic', Plus or Premium control functions via high quality LED engine

- + newly developed reflector technology optimised for the specific application sector
- + optical module with high power LEDs ensures sustainability, fitness for the future and easy maintenance via simple replacement
- + capsuled LED module, ready to plug in (IP66)
- + constant luminous flux control ('Plus') for accurate and highly efficient road lighting
- + easy programming and configuration via the Siteco SERVICE BOX ('Plus') proven gear tray with electrical and electronic components is easily accessible and replaceable
- + adjustable luminaire inclination for optimal adaptation to lighting situations and road geometries
- + integrative, future-fit luminaire design
- + minimized light spill long
- + lifetime and low loss of luminous flux via optimised thermal management (50,000 h, 88%)
- + low power consumption with very good photometric results ensures efficient and cost-effective road lighting
- + 3-zone reflectors for optimal, homogeneous road lighting



DL® 20 LED

DL® 20 LED impressively demonstrates how high performance LED technology can be combined with outstanding design. The town and park luminaire with state-of-the-art LED technology fulfils DIN EN 13201 for the S and ME lighting classes so that standard-compliant road and town square lighting can be achieved with high energy efficiency and a high design appeal. The microprocessor-controlled LED operating electronics enable even more efficiency. With the 'Plus' performance package, luminance can be individually set according to needs.



Application

- residential areas, ancillary roads, squares, parks, local transit roads and town centres
- mounting heights: 4 – 6m
- mast spacing: 25 – 30m
- lighting classes: S and ME

Product variants:

- warm white or neutral white light colour
 - symmetrical or asymmetrical distribution
 - asymmetrical wide light distribution with cycle path optic
 - with Plus control functions via high quality LED engine
 - upgrading to Premium luminaire via additional mast controller possible at any time
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- + patented glare-free multiple light deflection with high power LEDs
 - + combination of micro LED reflector of aluminum vapor-coated plastic and luminaire reflector
 - + in MIRO® quality and high quality white glass
 - + 2-component construction: arm and ring with LED module
 - + optimised storage and reduced installation time
 - + optimised thermal management: driver recessed in mast mounting element, luminaire housing acts as heat sink for the LED module technology
 - + poles: for standard 76mm steel pole
 - + SM 300 series design pole
 - + long lifetime (50,000 hrs)
 - + IP66, insulation class II



DL® 10 LED

DL® 10 LED points the way to how lighting in the future will be powered by LED technology: excellent performance and an unique design combined with spectacular colour accenting and control of luminance according to requirements, united in a visionary tool for lighting. DL® 10 LED complies with DIN EN 13201 for ME and S lighting classes, supplying standard-compliant light for the illumination of streets and town squares.



Application

- urban areas: prestigious squares, town centres, shopping streets, pedestrian zones, streets
- mounting heights: 4.5 – 6m
- mast spacing: 32m
- lighting classes: 5 classes, ME3c, ME5

Product variants:

- DL® 10 LED with neutral white LED, asymmetric wide distribution
 - DL® 10 LED with neutral white LED, asymmetric wide distribution and RGB LED optical waveguide system for colour accents
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- + designing with light – the presenting and highlighting of public areas
 - + a unique design
 - + LED luminaire with white LED light and optional
 - + RGB LED component for effective colour accenting
 - + with RGB LED optical waveguides, thousands of colours can be created
 - + a perfectly matched optical system consisting of lenses, prisms and reflectors
 - + comfortable programmable and configurable: luminaire control via Siteco Light Control, Siteco SERVICE BOX or DMX/SDI ('Basic', 'Plus', 'Premium' control packages)
 - + long lifetime (50,000 hrs)
 - + IP65, insulation class II



LED town- an park luminaires

MUSHROOM LUMINAIRE LED, LANTERN LED, CITY-LIGHT LED, CITY-LIGHT Bollard LED and CITY-LIGHT Pi-lar LED are contemporary and highly efficient solutions for refurbishment of existing lighting installations. The LED Module 520 allows an easy upgrading of out dated luminaires to a state-of-the-art technology. The microprocessor-controlled LED operating electronics enable even more efficiency. Luminance levels can be individually set according to needs for the performance packages 'Plus' (with SERVICE BOX) and 'Premium' (with Siteco Light Control).





Application

- residential areas, ancillary roads, squares, parks, local transit roads
- mounting heights: 4 – 6m
- mast spacing: 25 – 30m
- lighting classes: S4 – S6, ME5

Product variants

- warm white or neutral white light colour
 - symmetrical or asymmetrical distribution
 - with 'Basic', 'Plus' or 'Premium' control functions via high quality LED engine
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- + LED module in proven, classic luminaire design
 - + high quality LED lighting technology with high power LEDs for refurbishment of luminaires or completely new systems
 - + streetlighting in accordance with DIN EN 13201 standard
 - + highly efficient white light as replacement for inefficient high pressure mercury vapour lamps (HME lamps banned from 2015)
 - + energy savings through advanced LED technology
 - + lower invest with option to refurbish with LED Module S20
 - + long lifetime (50,000 hrs)
 - + IP54, insulation class II



DL[®] 500 MIDI LED

DL[®] 500 MIDI LED enables existing installations to be expanded with a high level of energy efficiency so that the familiar optical and harmonious appearance of the installation is maintained. The DL[®] 500 MIDI design classic, thanks to state-of-the-art LED technology and precisely matched optical systems, can of course be planned and installed for new installations according to DIN EN 13201. LED modules can be replaced simply in new LED versions due to Siteco gear tray technology. The module can also be individually set according to requirements via the microprocessor-controlled LED operating electronics with the 'Plus' (with SERVICE BOX) and 'Premium' (with Siteco Light Control) performance packages.



Application

- residential areas, ancillary, service and collecting roads
- mounting heights: 4 – 6m
- mast spacing: 24 – 32m
- lighting classes: S5, ME5

Product variants

- neutral white light colour
- asymmetrical wide distribution
- with LED Module 2 (28 LEDs) or LED Module 3 (40 LEDs)
- with 'Basic', 'Plus' or 'Premium' control functions via high quality LED engine

- + ideal for the expansion of existing installations - optical appearance of town lighting is maintained
- + innovative LED gear tray technology with precisely matched lenses and reflectors for energy-efficient lighting
- + LED insert for lighting of roads according to standard DIN EN 13201, for wider luminaire spacing with uniform illumination of the road
- + optical enclosure of toughened safety glass, structured and reflection-reduced for excellent glare elimination and very good homogeneity
- + constant luminous flux control ('Plus') for precise and highly efficient road lighting
- + very simple mounting and maintenance: gear tray can easily be replaced for later upgrading
- + high system service life (50,000 hours)
- + IP65, insulation class II



SQ 50 LED

The SQ 50 LED road luminaire has been designed to modernise existing installations with high energy efficiency and to supply standard-compliant lighting for new installations.

The familiar, contemporary and functional housing accommodates a gear tray with state-of-the-art LED technology and precisely matched optical systems. This principle ensures that with the supplementing of existing road lighting systems with efficient SQ 50 LED light points, the harmonious overall appearance of the installation is maintained.

The LED luminaire can be individually set according to needs via the microprocessor-controlled LED operating electronics for the performance packages 'Plus' (with SERVICE BOX) and 'Premium' (with Sitemco Light Control).

Application

- residential areas, ancillary, service and collecting roads
- mounting heights: 4 – 6m
- mast spacing: 24 – 32m
- lighting classes: S5, ME5

Product variants

- neutral white light colour
- asymmetrical wide distribution
- with LED Module 2 (28 LEDs) or LED Module 3 (40 LEDs)
- with 'Basic', 'Plus' or 'Premium' control functions via high quality LED engines

- + ideal for the expansion of existing installations - optical appearance of town lighting is maintained
- + innovative LED gear tray technology with precisely matched lenses and reflectors for energy-efficient lighting
- + LED insert for lighting of roads according to standard DIN EN 13201, for wider luminaire spacing with uniform illumination of the road
- + optical enclosure of white glass with excellent transmission factor, structured and reflection-reduced for excellent glare limitation and very good homogeneity
- + constant luminous flux control ('Plus') for precise and highly efficient road lighting
- + very simple mounting and maintenance: gear tray, can easily be replaced for later upgrading
- + long system service life (50,000 hrs)
- + IP66, insulation class II



SR 50 LED

The SR 50 LED with its functional and classic road luminaire design is especially suitable for the expansion of existing systems with efficient LED technology.

The luminaire allows DIN EN 13201-compliant installations to be achieved with large luminaire spacings. The LED module based on Siteco gear tray technology can be replaced in the new LED versions, ensuring subsequent upgrading to even more efficient LED modules in the future. The microprocessor-controlled LED operating electronics ensure additional sustainability. Luminance levels can be individually set according to needs for the performance packages 'Plus' (with SERVICE BOX) and 'Premium' (with Siteco Light Control).



Application

- residential areas, ancillary, service and collecting roads
- mounting heights: 4 – 6m
- mast spacing: 24 – 32m
- lighting classes: S5, ME5

Product variants

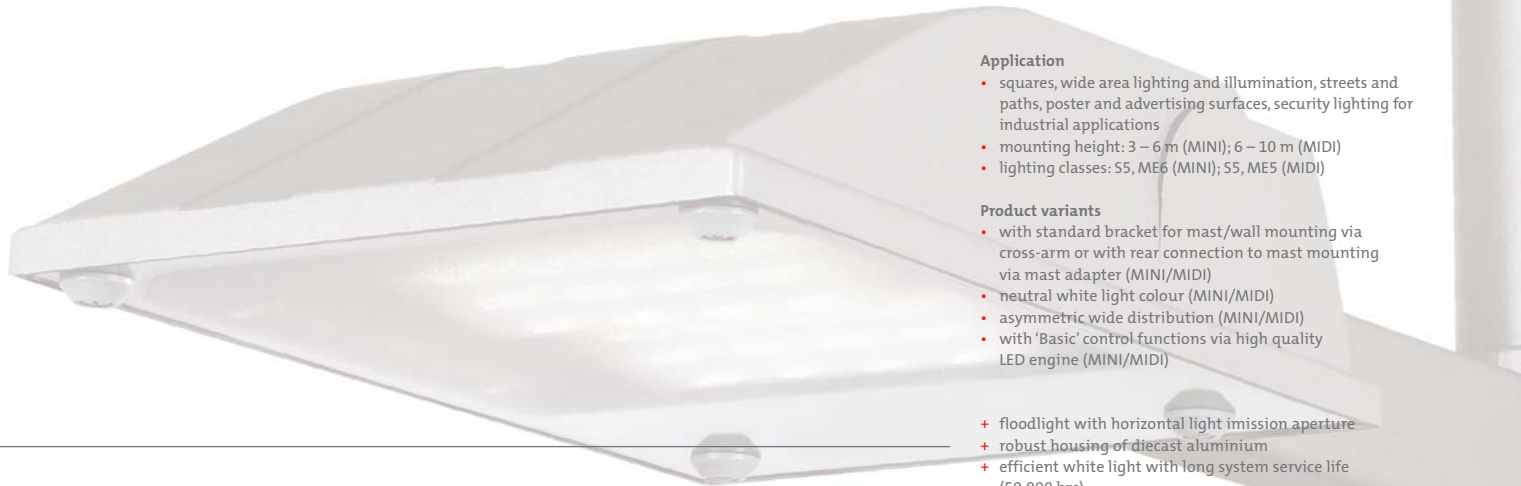
- neutral white light colour
- asymmetrical wide distribution
- with LED Module 2 (28 LEDs) or LED Module 3 (40 LEDs)
- with 'Basic', 'Plus' or 'Premium' control functions via high quality LED engine

- + ideal for the expansion of existing installations - optical appearance of town lighting is maintained
- + innovative LED gear tray technology with precisely matched lenses and reflectors for energy-efficient lighting
- + LED insert for lighting of roads according to standard DIN EN 13201, for wider luminaire spacing with uniform illumination of the road
- + optical enclosure structured and reflection-reduced for excellent glare control and very good homogeneity
- + constant luminous flux control ('Plus') for precise and highly efficient road lighting
- + very simple mounting and maintenance: gear tray, can easily be replaced for later upgrading
- + for post-top and side entry mounting, adjustable inclination 0...15°
- + long system service life (50,000 hrs)
- + IP65, insulation class II



SiCOMPACT® A2 MINI/MIDI LED

The SiCOMPACT® A2 MINI LED and MIDI LED floodlights are outstandingly suited to the standard-compliant lighting of town squares and also for the illumination of horizontal surfaces. The timeless, functionally designed luminaire housing accommodates a high performance LED module. 24 (MINI) or 84 (MIDI) white high power LEDs create pleasant, neutral white light. A sophisticated optical system of lenses and the optical enclosure minimises glare and spill light.



Application

- squares, wide area lighting and illumination, streets and paths, poster and advertising surfaces, security lighting for industrial applications
- mounting height: 3 – 6 m (MINI); 6 – 10 m (MIDI)
- lighting classes: S5, ME6 (MINI); S5, ME5 (MIDI)

Product variants

- with standard bracket for mast/wall mounting via cross-arm or with rear connection to mast mounting via mast adapter (MINI/MIDI)
- neutral white light colour (MINI/MIDI)
- asymmetric wide distribution (MINI/MIDI)
- with 'Basic' control functions via high quality LED engine (MINI/MIDI)

- + floodlight with horizontal light emission aperture
- + robust housing of diecast aluminium
- + efficient white light with long system service life (50,000 hrs)
- + wide distribution (road optic) via LEDs with oval flood lenses combined with structured enclosure (toughened safety glass)
- + minimal light spill with horizontal configuration
- + lighting class for glare control and reduction of spill light: G6 according to EN 13201-2
- + IP66, insulation class I (MIDI), insulation class II (MINI)



LED tunnel luminaire

The Siteco LED tunnel luminaire makes optimal use of the specific properties of LED technology: it benefits from a long system service life (LEDs 100,000 hours and the driver 50,000 hours) and features high resistance against vibration, humidity and dust.

A precisely matched construction of LEDs and optical systems provides wide light distribution with a high level of uniformity. The Siteco LED tunnel luminaire is thus outstandingly suited to the standard-compliant illumination of tunnel transit zones and underpasses.



Application

- transit zones in tunnels and underpasses
- mounting height: 4 – 6 m

Product variants

- neutral white light colour
- symmetrical wide distribution

- + high-power LEDs with integrated and optimized optics for high visual comfort
- + lighting cover of single pane safety glass, structured and non-reflective for excellent glare control and very good uniformity
- + high corrosion resistance by using AlMg 2.5 and stainless steel 1.4571 (AS1316 Ti) pickled and passivated
- + optimized thermal management: heat sink from aluminum extrusion AlMg 2.5 with cooling fins
- + low maintenance costs due to longer maintenance intervals and easy changeability of all components: System life (LEDs: 100,000h, gear: 50,000h)
- + reduction of CO₂ emissions and smaller operating costs due to reduced energy consumption
- + use of Siteco Light Control (SLC): Continuous dimming of the lighting system from 20%–100% over Powerline
- + IP66, insulation class I and II

Premium



- Central control and automatic monitoring of each light point
- No additional cabling required
- Reduction of maintenance paths and costs
- Better security via adaptation of lighting according to needs

Plus



- Precise parameterisation of the luminaire to the ambient conditions or application
- Additional functions for optimising light points
- Can be activated via the Siteco SERVICE BOX
- No additional control components required

Basic

- Wired power reduction (twilight switching)
- Two lighting levels permanently at factory (complete darkness/twilight)

Light according to needs via intelligent control

- **Performance package Premium** | Power reduction, Overheat protection, Constant luminous flux control, Flexible luminous flux parameterisation, Time-dependent luminous flux control, Digital communication interface, Siteco Light Control
- **Performance package Plus** | Power reduction, Overheat protection, Constant luminous flux control, Flexible luminous flux parameterisation, Digital communication interface, Digital communication interface
- **Performance package Basic** | Power reduction, Overheat protection



Power reduction

with 230V control voltage via supplementary control wire. Factory pre-setting: control signal $L_{st}=0V \rightarrow$ approx. 50% luminous flux (approx. 40% consumption) control signal $L_{st}=230V \rightarrow$ 100% luminous flux (comparable with familiar „twilight switching“ for power reduction) With the 'Plus' version this process can be reversed if required.



Time-dependent luminous flux control

Power reduction without a control wire. An integrated timer adjusts the luminous flux of the luminaire according to time. Switching times and luminous flux can be individually set. Four switching times and luminous flux for the maximum operating level and two reduction levels can be freely defined (comparable with the familiar switching for power reduction with high pressure lamps).



Digital communication interface

Interface for parameterising luminaire with the SERVICE BOX.



Constant luminous flux control

The luminous flux is kept constant over the complete service life, the age-dependent reduction of luminous flux is permanently controlled; optimal energy consumption, reduced consumption costs, extension of the LED service life via lower thermal load.



Flexible luminous flux parameterisation

The luminous flux of each luminaire can be set individually and almost continuously. Luminous flux for the maximum operating level and for two reduction levels can be defined at random:

- Efficient operation of each luminaire via adaptation of basic settings according to requirements
- With the replacement of individual light points with LED modules these can be matched precisely to the lighting level of the remaining light points



Overheat protection

Permanent monitoring of the LED temperature. With critical temperatures, power consumption is automatically reduced and only returns to the ori-

ginal level when an uncritical temperature is regained. This function is purely a protective function for the luminaire to secure the long service life despite operating errors (e.g. unintended daytime switching with very high ambient temperatures). During operation within the predefined specifications, luminaire temperatures remain safe.



Siteco Light Control

Control and monitoring of luminaires from a control centre without additional control wires:

- Data transmission via standardised LON protocol via the lighting cable (Powerline)
- Central, networked control
- Precise planning and recording of energy consumption and maintenance
- Optimisation of maintenance paths and costs
- Precise output adaptation
- Absorption of energy peaks
- Optimisation of operating costs
- Switching and dimming of each individual luminaire according to the immediate situation and according to needs
- Automatic monitoring of each individual light point, and automatic messaging via e-mail or SMS with faults

Questions and answers concerning Siteco LED outdoor luminaires

LED technology will play an increasingly important role in lighting technology in the future, because it has the potential for less carbon dioxide emissions, lower costs and a better quality of light. For many consumers this technology is still new, and there exists a need for explanatory information.

As a team of lighting experts, Siteco understands the technology of LED, which is why we have answered a range of important questions about the topic.

For which application segments does Siteco currently offer LED luminaires, and which priorities does Siteco set with the development of LED luminaires?

In the outdoor sector, Siteco focuses upon technical road luminaires and decorative mast luminaires for town and park lighting. Building vicinity lighting (facade illumination) also plays an important role.

Which application segment is currently the most promising?

The use of LED technology is of interest where long burning times are typical, for example with road lighting. In addition the size of the lumen package and the specific lighting task should be considered. Because lumen packages are lamp-dependent, the question of which lamp type is to be replaced by LED must first be answered.

Siteco thus offers two possibilities for the use of LED technology in road lighting.

- „Retrofit“ modules based on the gear tray as a substitute for conventional lamps in existing luminaire housings (e.g. LED Module 520).
- LED luminaires where in ideal cases the complete luminaire is matched to LEDs to create a perfect symbiosis of energy efficiency and lighting task. (e.g. SL 10 mini and midi)

For road lighting, 70W high pressure sodium vapour lamps (HST) for example can be sensibly replaced by LED.

The precondition for this is that photometrics and luminaire technology are optimised for the use of LED. Our LED Module 520 retrofit inserts comply with this requirement.

For larger lumen packages retrofit modules are no longer suitable, and in such cases pure LED luminaires such as the Street-light 10 mini or midi make the most of their innate technical advantages.

LEDs are a good solution where special demands are placed on the lighting, for example where light is to be used for presentation. The control possibilities and the colour mixing of LEDs make them especially suitable for presenting as well as for dynamic, coloured lighting design outdoors, predominantly for facade illumination. Where properties such as stepless dimming and highly saturated colours (without the requirement

for a supplementary filter) are of importance, LEDs are also a highly suitable light source. From the point of view of dimming and control, for Siteco there is particularly interesting potential with road lighting. Here enormous possibilities for saving come about in terms of energy consumption.

Already today Siteco LED luminaires enable saving up to three quarters of energy consumption in comparison with conventional mercury vapour lamps, and in many European countries, around one third of light points in outdoor applications are still equipped with these inefficient lamps.

Can trends be seen in luminaire development and engineering that enable replacement of conventional technology in existing installations with LED light sources?

Yes indeed. For applications where the luminaire service life is longer than the LED service life (for example in road lighting where economic service lives exceeding 30 years are achieved), Siteco has already developed replacement concepts. The key to this sustainability in the retrofit sector is found in the Siteco LED gear tray technology: light sources, optics, thermal management and control gear are all accommodated by a central module (Module 520 for Siteco town and park luminaires such as the Mushroom and Lantern).

Technical LED road luminaires are entirely designed with modular constructions, which means that replacing the control gear or LED unit at the end of the service life is highly simple.

What are the benefits of this solution?

The Siteco LED gear tray technology enables light sources, optics and control gear to be accommodated by a central module, and so in this way existing systems with conventional lamps can be upgraded to the latest technological standards. Siteco for example offers such a solution with the LED Module 520 for the decorative town and park luminaires.

For outdoor sectors, the LED retrofit modules and the new innovative LED luminaires with sophisticated designs complement each other ideally in the market.

Retrofit modules are applied as energy-efficient lighting solutions in existing obsolete systems, especially with classic town and park luminaires with more traditional designs, as well as with system expansions with a view to maintaining the appearance of the town's lighting.

LED luminaires such as the DL[®] 10 or DL[®] 20 impress not only with their level of efficiency but also with their modern designs.

How are outdoor luminaires designed explicitly for the use of LED such as the DL[®] 10, DL[®] 20 and Streetlight 10 limited in their applications?

The luminaires are intended primarily for planning new installations or for the replacement of complete light points. These luminaire concepts designed specifically for the use of LED exploit the full potential of the technology: all luminaire

components are constructed to extract a maximum of efficiency and energy savings from the new technology. The constructions open the way for completely new design flexibility. The LED outdoor luminaires with new design approaches are intended for modern, future-oriented town and street landscapes with their optimised technology and maximum potential for energy savings.

Does the use of LED luminaires bring with it greater implementation of lighting control?

Yes. Compared to conventional light sources, LEDs offer outstanding possibilities for 'wear-free' switching and dimming. As such, applications with which a luminaire is controlled via a sensor for example will become more popular with the advance of LEDs. With the SERVICE BOX, Siteco offers a parameterising device that can adapt the functions of the Siteco LED outdoor luminaires and optimise these according to their actual lighting tasks. In addition, the settings of a luminaire can be transferred to other luminaires with low effort. Colour sequences such as with the DL[®] 10 for example are defined conveniently in the office and transferred via the SERVICE BOX to the luminaire. Following parameterising the SERVICE BOX is then removed again. Customers are able to achieve maximum cost and energy savings with the optimisation of settings for Siteco LED outdoor luminaires according to their specific project requirements, without the need to invest in supplementary control components.

Which factors must be taken into account when comparing the performance evaluation of LEDs with conventional light sources? According to which criteria should the energy efficiency of LEDs be evaluated?

Until now it was normal to consider lumens per watt, meaning that measurements of how many lumens per watt emitted from the light sources were taken directly at the luminaire head. Merely considering the light sources is however only part of the truth. When evaluating LEDs it is necessary to take into account the complete chain of effects. This means that with LEDs the complete system must be considered, including optics/light guiding components, control and others. Of elementary importance when evaluating LED systems is the light that is actually emitted (for example onto the road). With streetlighting for example the power consumption (W) must be put into proportion with mean luminance (cd/m²), luminaire spacing (m) and width of carriageway (m). At the end of it all it's a matter of ensuring lighting in compliance with the least possible W per cd/m² and year. Specifying lumens or lumens/watt is therefore not the whole truth. With highly efficient light control, Siteco LED luminaires can achieve better lighting results with less lumens.

With the „Street Lighting Energy Optimizer“, Siteco offers an online calculation tool with which customers can simply and conveniently determine the most energy efficient solution for a specific type of road, available at:

www.siteco.de/de/produkte/planungswerkzeuge.html



This brings up the next question:

Is it really energy-efficient to illuminate 100% during the complete phase of darkness?

Yes and no. Where traffic needs such illumination then yes, but there are still many situations where during the night the lighting level can be reduced for specific time periods. With Siteco LED luminaires in the Plus and Premium packages customers can dim lighting according to periods of time to achieve optimum energy efficiency and fulfilment of lighting tasks.

Are guarantees offered by Siteco for their LED luminaires?

Yes. We of course place complete trust in the quality of our products and initially offer the guarantees that are standard in the industry. In addition though we also offer an extended manufacturer guarantee defined according to the specific product and application. Further details about this are available at www.siteco.de/de/service/garantie.html

Headquarters Germany

Siteco Beleuchtungstechnik GmbH

Georg-Simon-Ohm-Straße 50
83301 Traunreut | Germany
Tel.: +49 8669 33-0
Fax: +49 8669 33-397
E-Mail: info@siteco.de
Internet: www.siteco.com

Sales Europe

Austria (Central Office)

Leonard-Bernstein-Straße 10
1220 Vienna
Austria
Tel.: +43 1 250 24 0
Fax: +43 1 250 24 255
E-Mail: wien@siteco.at

Belgium

Cebeo NV
Oude Gentweg 100
2070 Zwijndrecht (Burcht)
Belgium
Tel.: +32 3 250 51 11
E-Mail: info.be@siteco.be

Bosnia and Herzegovina

Siteco Sistemi d.o.o
Trzaska c.23
2000 Maribor
Slovenia
Tel.: +386 23 00 42 77
Fax: +386 23 32 52 02
E-Mail: slovenia@siteco.com

Bulgaria

Siteco Sistemi d.o.o
Trzaska c.23
2000 Maribor | Slovenia
Tel.: +386 23 00 42 77
Fax: +386 23 32 52 02
E-mail: slovenia@siteco.com

Croatia

Siteco Sistemi d.o.o
Trzaska c.23
2000 Maribor | Slovenia
Tel.: +386 23 00 42 77
Fax: +386 23 32 52 02
E-mail: slovenia@siteco.com

Czech Republic

Siteco Lighting, spol s.r.o.
U Nikolajky 1085/15
15000 Praha 5-Smichov
Czech Republic
Tel.: +420 251 013 800
Fax: +420 251 560 772
E-Mail: p.sedlacek@siteco.cz

Denmark

Siteco Denmark Representative
Odinsvej 31
6500 Vojens | Denmark
Tel.: +45 73 54 04 50
Fax: +45 73 54 04 51
E-Mail: info.dk@siteco.com

Finland (Indoor Luminaires)

iGuzzini Finland & Baltic Oy
Lemuntie 3-5
00510 Helsinki | Finland
Tel.: +358 207 28 98 40
Fax: +358 98 02 45 66
Web: www.iguzzini.fi

Finland (Outdoor Luminaires)

Silux Oy Ab
Kuninkaankartanontie 46A
02780 Espoo | Finland
Tel.: +358 98 02 20 77
E-Mail: info@silux.fi

France

SiDelux S.A.R.L
56 bis rue du Vieux Colombier
51100 Reims | France
Tel.: +33 3 26 61 72 29
Fax: +33 3 26 61 80 19
E-Mail: sidelux@orange.fr

Greece

Siemens A.E.
Artemidos 8
15125 Amaroussio
Athens
Greece
Tel.: +30 10 68 64 578
Fax: +30 10 68 64 562

Hungary

Siteco Österreich GmbH
Leonard-Bernstein-Straße 10
1220 Vienna | Austria
Tel.: +43 1 250 24 0
Fax: +43 1 250 24 255
E-Mail: wien@siteco.at

Ireland
Siteco Ltd.
Unit 3–4 Grosvenor Business Park
Horsfield Way
Bredbury Industrial Estate
Stockport SK6 2SU
United Kingdom
Tel.: +44 1 61 40 60 800
Fax: +44 1 61 49 46 756
E-Mail: info@siteco.co.uk

Italia
Siteco Lighting Systems S.r.l.
Viale Fulvio Testi 11
20092 Milan | Italy
Tel.: +39 02 66 11 71 07
Fax: +39 02 66 11 30 56
E-Mail: info@sitecoitalia.it

Latvia
SIA SILICA
Kurzemes prospekts 16–29
LV 1067 Riga | Latvia
Tel.: +371 67 69 59 50
Fax: +371 29 47 26 56
E-Mail: janis@silicalatvija.lv

Lithuania
UAB "Sviesos Studija"/
THINKLIGHT
T. Sevcenkos g. 16A
3111 Vilnius | Lithuania
Tel.: +3705 2395910
Fax: +3705 2395911
E-Mail: info@thinklight.lt

Luxembourg
LUX-INOTEC
5280 Sandweiler
Zone Industrielle Rolach, Hall 4
Luxembourg
Tel.: +352 26665588 20
Fax: +352 266655 89
E-Mail: r.michels@inotec.lu

Netherlands
Industrielicht B.V.
Van Hennaertweg 7
2952 CA Alblasserdam
The Netherlands
Tel.: +31 78 6920 900
Fax: +31 78 6920 905
E-Mail: info@industrielicht.nl

Norway
Siteco Belysning AS
Tevlingveien 23
1081 Oslo | Norway
Tel.: +47 23 37 32 50
Fax: +47 23 37 32 60
E-Mail: siteco@siteco.no

Poland
Siteco Lighting Poland Sp. z o.o.
Migdalowa 4
02-796 Warszawa | Poland
Tel.: +48 22 645 11 83
Fax: +48 22 645 11 84
E-Mail: siteco@siteco.pl

Portugal
Siemens S.A.
A & D Iluminação
Rua Irmãos Siemens 1
2720-093 Amadora
Portugal
Tel.: +351 2 14 17 83 96
Fax: +351 2 14 17 80 27
E-Mail: info.pt@siteco.com

Serbia
Siteco Sistemi d.o.o
Trzaska c.23
2000 Maribor
Slovenia
Tel.: +386 23 00 42 77
Fax: +386 23 32 52 02
E-mail: slovenia@siteco.com

Slovenia
Siteco Sistemi d.o.o
Trzaska c.23
2000 Maribor
Slovenia
Tel.: +386 23 00 42 77
Fax: +386 23 32 52 02
E-mail: slovenia@siteco.com

Slovakia
Siteco Lighting, spol s.r.o.
U Nikolajky 1085/15
15000 Praha 5-Smichov
Czech Republic
Tel.: +420 251 013 800
Fax: +420 251 560 772
E-Mail: p.sedlacek@siteco.cz

Spain
Siteco Lighting S.L.U.
Ronda de Europa, 5
28760 Tres Cantos
Madrid
Spain
Fax: +34 91 514 7661
E-Mail: esinfo@siteco.com

Sweden
Annell Ljus + Form AB
Surbrunnsgatan 14
11421 Stockholm | Sweden
Tel.: +46 8 442 90 00
Fax: +46 8 442 90 25
E-Mail: info@annell.se
Switzerland
Siteco Schweiz AG
Airport Business Center 62
3123 Belp-Bern | Switzerland
Tel.: +41 3 18 18 28 28
Fax: +41 3 18 18 28 20
E-Mail: info@siteco.ch

United Kingdom
Siteco Ltd.
Unit 3–4 Grosvenor Business Park
Horsfield Way
Bredbury Industrial Estate
Stockport SK6 2SU
United Kingdom
Tel.: +44 1 61 40 60 800
Fax: +44 1 61 49 46 756
E-Mail: info@siteco.co.uk

Sales Worldwide

Australia
Siteco Lighting (M) Sdn. Bhd.
No 3A-15, IOI Business Park, No 1,
Persiaran Puchong Jaya Selatan, No 1
47100 Puchong | Malaysia
Tel.: +60 380704722
Fax: +60 380708845
E-Mail: info@siteco.com.my

Bangladesh
Siteco Lighting (M) Sdn. Bhd.
No 3A-15, IOI Business Park, No 1,
Persiaran Puchong Jaya Selatan, No 1
47100 Puchong | Malaysia
Tel.: +60 380704722
Fax: +60 380708845
E-Mail: info@siteco.com.my

Middle East (Central Office)
Siteco Lighting Systems
Al Shoala Building, A Block, 2nd
floor 204-205
Dubai
Tel.: +971 4 294 44 72
Fax: +971 4 294 44 79
E-Mail: info.me@siteco.com

Republic Korea
Siteco Lighting (M) Sdn. Bhd.
No 3A-15, IOI Business Park, No 1,
Persiaran Puchong Jaya Selatan, No 1
47100 Puchong
Malaysia
Tel.: +603 8070 4722
Fax: +603 8070 8845
E-Mail: info@siteco.com.my

Russia (Central Office)
Siteco Lighting Systems
Krasnoproletarskaya str. 7
Building 2
127006 Moscow
Russia
Tel.: +7 49 57 92 79 25 37 5
Fax: +7 49 57 92 53 02
E-Mail: info@siteco.ru

Singapore
Siteco Lighting (M) Sdn. Bhd.
No 3A-15, IOI Business Park, No 1,
Persiaran Puchong Jaya Selatan, No 1
47100 Puchong
Malaysia
Tel.: +60 380704722
Fax: +60 380708845
E-Mail: info@siteco.com.my

South Africa
Lighting Innovations LTD.
2 Carey Road
ZA-2091 Wynberg
Rep. South Africa
Tel.: +27 011 444 1168
Fax: +27 011 444 0116
E-Mail: craig@
lightinginnovations.co.za

South East Asia & Pacific
Siteco Lighting (M) Sdn. Bhd.
No 3A-15, IOI Business Park, No 1,
Persiaran Puchong Jaya Selatan, No 1
47100 Puchong | Malaysia
Tel.: +60 380704722
Fax: +60 380708845
E-Mail: info@siteco.com.my

Sri Lanka

Siteco Lighting (M) Sdn. Bhd.
No 3A-15, IOI Business Park, No 1,
Persiaran Puchong Jaya Selatan, No 1
47100 Puchong | Malaysia
Tel.: +60 380704722
Fax: +60 380708845
E-Mail:info@siteco.com.my

Taiwan

Siteco Lighting (M) Sdn. Bhd.
No 3A-15, IOI Business Park, No 1,
Persiaran Puchong Jaya Selatan, No 1
47100 Puchong | Malaysia
Tel.: +60 380704722
Fax: +60 380708845
E-Mail:info@siteco.com.my

Turkey

Siteco Aydınlatma Teknigi Tic. ve
San. Ltd. Sti.
Fahrettin Kerim Gökay Cad. No:31
B Blok Altunizade
34662 Istanbul | Turkey
Tel.:+90 216 327 45 45
Fax: +90 216 545 51 51
E-Mail:info@siteco.com.tr

Venezuela

Dierck Sistemas de Iluminacion
4ta Avendia y 5ta Transversal
Quinta Mandalay
Los Palos Grandes
1060 Caracas | Venezuela
Tel.: +58 21 22 87 08 64
Fax: +58 21 22 87 01 23
E-Mail: info@dierck.vc

Headquarters Germany

Siteco Beleuchtungstechnik GmbH
Georg-Simon-Ohm-Straße 50
83301 Traunreut | Germany
Tel.: +49 8669 33-0
Fax: +49 8669 33-397
E-Mail: info@siteco.de
Internet: www.siteco.com

Siteco Customer Service

Queries concerning product technology:
Tel.: +49 8669 33-844
Fax: +49 8669 86532-944
E-Mail: technicalsupport@siteco.de

Questions concerning delivery times and order status:
Tel.: +49 8669 33-822
Fax: +49 8669 33-397

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The logo for Siteco, featuring the word "siteco" in a bold, lowercase, sans-serif font. A small red dot is positioned above the letter "i".