Light is complete

Siteco Streetlight 20 LED

The practical range of luminaires for road lighting, from parkways to motorways.
Light is OSRAM
Streetlight 20 LED

The practical luminaire range for road lighting, from parkways to motorways.
Completely practical: a single solution for all applications

Efficient operation, highly durable, low maintenance, reliable Siteco quality and high quality of light for safety and well-being: Streetlight 20 LED is a practical range of mast luminaires with lens technology suitable for cycle paths, business premises, residential streets, collection roads and multi-lane carriageways. The luminaires feature light distribution characteristics and lumen levels precisely matched to the specific application.

The choice: more efficiency or greater performance
The customer decides: the Streetlight 20 LED is available in two versions with all construction sizes, one with optimised efficiency and the other with higher lumen output.

Optimised efficiency: Streetlight 20 LED
The Streetlight 20 LED features very good lumen/watt values. The luminaires operate extremely efficiently and achieve significant energy savings. The system has also been designed for an extremely long service life of 100,000 operating hours (L90/B10), thus protecting the environment and its resources.

High luminous flux: Streetlight 20 LED Power
With the Streetlight 20 LED Power, lumen output has been further increased via modified current feed. This also enables smaller construction sizes to be used for standard-compliant lighting, in turn reducing investment costs.

A uniform design throughout.
The Streetlight 20 LED features a concise, consistent appearance across all construction sizes.
Variable use
Three mast adapters (42 mm, 60 mm and 76 mm) enable all construction sizes to be used as side-entry or post-top luminaires.

A professional complete package for road lighting
- four construction sizes for applications in all lighting classes
- for mounting heights 3 to 14 metres
- two light colours enable differing design concepts
- extremely long service life and very efficient continuous operation
- simple, sustainable modular concept for rapid mounting and safe module replacements on the mast (ESD protection)
- high tightness with extremely robust workmanship

*planned delivery availability from spring 2016
**planned delivery availability from summer 2016
Good light for good feelings

Comfort and safety influence our sense of well-being – the Streetlight 20 LED achieves outstanding lighting results for this purpose.

Uniform light without risk of glare
A simple and convincing concept – lenses assembled directly above the high-performance LEDs disperse light almost without light spill. The precisely targeted lenses of high quality PMMA create very high levels of uniformity and therefore good vision. The planar distribution of light points avoids the danger of glare from typical observer positions. Edge printing on the toughened safety glass further optimises the soft brightness transitions.

Two light colours for differing design concepts
According to the desired atmosphere, high quality of light is created in either warm white (3000 K) or neutral white light (4000 K).

Discreet looks during the day
The modern and unobtrusive luminaire design of the Streetlight 20 LED blends harmoniously into highly diverse surroundings. This is also due to the construction sizes – the Streetlight 20 micro LED for example, specifically designed for paths and residential streets, has a length of just 41 cm and width of 22 cm. This gives it a very discreet appearance during the day even at mast heights of 4 to 5 metres.

Inconspicuous but effective.
Precisely calculated edge printing on the toughened safety glass provides effectively soft luminance transitions at the periphery of light distribution.
Harmonious and inviting with the Streetlight 20 LED
Well-illuminated roads that do not encroach on adjacent property and land promote levels of well-being in residential areas.
Shown: Streetlight 20 micro LED with 3000 K.

<table>
<thead>
<tr>
<th>Streetlight 20 micro LED</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated luminous flux*</td>
<td>1840 to 3150 lm (Power)</td>
</tr>
<tr>
<td>Rated power*</td>
<td>17 to 30 W (Power)</td>
</tr>
<tr>
<td>Luminaire luminous efficacy*</td>
<td>up to 108 lm/W</td>
</tr>
<tr>
<td>Mounting height (recommended)</td>
<td>approx. 3 to 6 m</td>
</tr>
</tbody>
</table>

*with constant luminous flux control
A strong concept for top performance

A construction design reduced to the essentials but without any compromise in quality typifies the Streetlight 20 LED.

Simple and sustainable modular concept
The Streetlight 20 LED has a consistently modular design to bring together simple handling with high levels of efficiency and sustainability. The construction principle, identical across all sizes, is based on the following components:
- The carrier housing consists of connection compartment, mast adapter and connection box.
- The upper luminaire section is designed as a complete module with LED module, ECG and control.

Extremely long service life
All components have been designed for very long lifespans – the efficient, standard version of the Streetlight 20 LED for example achieves around 100,000 operating hours (L90/B10). This corresponds to problem-free use over 20 to 25 years with typical usage. After this period has expired, the complete module including electrical components can be replaced with ease while the carrier housing remains on the mast.

- Highly durable diecast housing without cooling ribs for optimum thermal management
- High-efficiency LED unit connected constructively with the housing for heat dissipation and equipped with a sensor for temperature monitoring
- ESD-protected LED module the complete module can be replaced on the mast
- Electronic control unit OSRAM OPTOTRONIC® OT4DIM
- Opening safeguard for simple mounting and maintenance
Sustainable and efficient with the Streetlight 20 LED

An awareness for costs and the environment increases the acceptance of investments and provides financial flexibility for other projects.

Shown: Streetlight 20 mini LED with 4000K.

<table>
<thead>
<tr>
<th>Streetlight 20 mini LED</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated luminous flux*</td>
<td>3800 to 6130 lm (Power)</td>
</tr>
<tr>
<td>Rated power*</td>
<td>31 to 56 W (Power)</td>
</tr>
<tr>
<td>Luminaire luminous efficacy*</td>
<td>up to 121 lm/W</td>
</tr>
<tr>
<td>Mounting height (recommended)</td>
<td>approx. 4 to 8 m</td>
</tr>
</tbody>
</table>

*preliminary data with constant luminous flux control
Safely fulfilling requirements

Whether for narrow paths, wide roads or other traffic zones – six light distribution patterns and a variety of lumen levels make the Streetlight 20 LED highly flexible.

Standard-compliant light for all lighting classes
The Streetlight 20 LED is highly flexible in use. The luminaire emits light complying with appropriate standards for all lighting classes and represents a luminaire system for most typical road lighting applications. With lumen levels to 30,000 lm, the luminaire is designed for mounting heights from 3 to 14 metres.

Simple planning with clear nomenclature
Only a wide range of optics with matched beam distribution characteristics for a variety of needs is able to achieve good photometric results. It’s here that the innovative LED lens technology of the Streetlight 20 LED with its precise light control offers lighting designers genuine added value. The five light distribution patterns of this system meet all typical needs for technical road lighting.

A further plus is provided by simple and clear nomenclature indicating specific light distributions, thus simplifying planning. Individually calculating a system is however indispensable – only this can confirm selection of the suitable optic.

Uniform quality of light due to platform concept
While application possibilities for the Streetlight 20 LED are extremely diverse, the characteristic of the lighting result remains uniform thanks to the luminaire’s platform concept. This enables situations with various mounting heights, e.g. with the transitions from collection roads to residential streets, to be harmoniously illuminated with a uniform quality of light.

Asymmetric light distribution characteristics

- **ST0.5a** for narrow streets, paths and cycle paths
  - e.g. in residential areas

- **ST0.8a** for roads with normal widths
  - for luminous intensity class 4,
  - e.g. collection roads and residential streets

- **ST1.0a** for normal roads
  - e.g. main thoroughfares

- **ST 1.3a for wide roads**
  - e.g. expressways

- **ST1.5a for very wide roads and parking areas**
  - e.g. in conflict zones such as crossroads and roads with adjacent areas
Streetlight 20 midi LED
Rated luminous flux\* 5950…14,000 lm
Rated power\* 47…118 W (Power)
Luminaire luminous efficacy\* up to 131 lm/W
Mounting height (recommended) ca. 6…12 m

*preliminary data with constant luminous flux control

Safe and standard-compliant with the Streetlight 20 LED
Roads, paths, crossroads and crossings are best illuminated with specific light distribution patterns and uniform light characteristics. Shown: Streetlight 20 midi LED with 4000K.
It's simple – benefit in the long-term thanks to quality

The Streetlight 20 LED provides added value in the long run due to long-lasting components, an intelligently designed system and good workmanship.

Mounting – quick and almost tool-free

1. The housing is opened and closed without tools via a hinge on the underside of the carrier housing. A safeguard fixes the upper part.

2. The connection cable is fixed with the strain-relief and inserted into the connection terminal. All-round sealing on the complete module reliably seals the inside of the luminaire.

Exchanging the module and ECG – simple and safe

- **Tool-free module replacement**: the complete folded-up module, isolated from the mains, is pushed sidewards out of its rear support. The module is protected from ESD.

- **Double ESD protection**: the protected socket system also prevents electrostatic discharge during ECG replacement.

Continuous operation – stable with low maintenance

- **A long system service life** – the electronic components are designed for a service life of up to 100,000 operating hours (L90/B10), corresponding to 20 to 25 years with typical use.

- **Extremely high tightness**: the complete luminaire system has very high tightness (IP66). An air-permeable membrane prevents condensation in the inner of the luminaire.

- **Extremely robust**: housing of diecast aluminium and optical enclosure of toughened safety glass (IK09).

- **Continuous self-cleaning effect**: the luminaire housing with smooth surfaces, soft edges and Siteco® grey metallic (DB702S) powder coating achieves complete water drainage and rapid drying. Due to its construction the optical enclosure is subject to hardly any soiling, and rain washes any deposits away.

- **High overvoltage protection**: 10kV voltage stability enables the Streetlight 20 LED to survive overvoltage caused by switching operations in the network, lightning strikes and electrostatic charges.
Long-lasting with low maintenance – the Streetlight 20 LED

The high quality of the overall system saves both effort and costs especially at high, difficult-to-access mounting heights.

Shown: Streetlight 20 maxi LED with 4000K.

Streetlight 20 maxi LED

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated luminous flux*</td>
<td>15,000 to 24,000 lm (Power)</td>
</tr>
<tr>
<td>Rated power*</td>
<td>124 to 225 W (Power)</td>
</tr>
<tr>
<td>Luminaire luminous efficacy*</td>
<td>up to 120 lm/W</td>
</tr>
<tr>
<td>Mounting height (recommended)</td>
<td>approx. 8 to 14 m</td>
</tr>
</tbody>
</table>

*preliminary data with constant luminous flux control
LED – already today the most efficient technology

Making the most of savings potential – the basis is the mature and intelligent technology of the Streetlight 20 LED, in itself highly efficient. The unbeatable advantage is its stepless and loss-free reduced mode. Conventional luminaire technologies can of course also be reduced, although for 50% luminous flux around 65% of energy is required even with a modern HST luminaire. In comparison, the Streetlight 20 LED achieves 50% luminous flux with less than 50% energy.

All light sources lose luminous flux over the years, and for this reason when planning with conventional lamps the luminous flux is set to exceed the standard-compliant requirement. The disadvantage: more energy is consumed at the start than needed. Constant luminous flux control with the Streetlight 20 LED Plus is different: its luminous flux is set from the start to the individually required level and this is automatically maintained over the complete service life - energy waste becomes a thing of the past.

Reduced mode
Saving energy via reduced operation: luminous flux reduction of 50% with HME and HST lamps means significantly less energy savings than with the Streetlight 20 LED Basic.

Constant luminous flux control
Constant luminous flux control compensates for the reduction in luminous flux caused by ageing. Over-dimensioning is no longer necessary, achieving minimisation of power consumption/road surface at constant lighting levels.
LED – already today the most efficient technology

Energy consumption

100% mode

Night-time reduction to 50%

Dimming without control wires*

<table>
<thead>
<tr>
<th>Energy consumption [kWh/a]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HME</td>
</tr>
<tr>
<td>16,440</td>
</tr>
<tr>
<td>13,128</td>
</tr>
<tr>
<td>13,128</td>
</tr>
</tbody>
</table>

Save efficiently in three steps.

1. **100% mode**
   - The disadvantage for HME and HST: in terms of luminous efficacy and optical efficiency these are inferior to LED technology. The Streetlight 20 LED Plus advantage: achieves best values due to optimal light control of the Siteco LED technology.

2. **Night-time reduction to 50%**
   - The disadvantage for HME and HST: reduction to 50% luminous flux saves only around 35% of energy. The Streetlight 20 LED Plus advantage: the less LEDs are fed with current the more efficient they function. With a reduction to 50% luminous flux more than 50% of energy is saved.

3. **Dimming without control wires**
   - The disadvantage for HME and HST: they must be retrofitted with a control unit. The Streetlight 20 LED Plus advantage: luminous flux can be set according to requirements. The setting for maximum operating level and two reduction levels can be freely defined and programmed with the Siteco® Service Box.

**84.4 %**

less energy consumption and CO₂ savings possible compared to conventional HME lamp technology.

Basis for calculation: 1 km road; light points: 30; lighting class: M6; mounting height: 6.5 m; mast spacing 36 m; 4000 operating hours/year; with reduced operation: 1600 h at 100% mode, 2400h at 50% mode; CO₂ factor: 0.6 kg CO₂/kWh. All luminaires fulfil the same photometric task. Connected load: HME: 125 W, power consumption 137 W (50 %: 91 W); HST: 70 W, power consumption 83 W (50 %: 54 W); Streetlight 20 LED Plus: power consumption 33.2 W (50 %: 16.6 W).

*Streetlight 20 mini Plus, dimming mode: 1600 h at 100%, 1400h at 50%, 1000h at 25%.
The choice: more efficiency or even higher performance

Are lower investments more important or longer and more efficient operation? Versions are available for both calculation models.

**Streetlight 20 LED: optimised LED operating current**
Optimally designed LED operating current is a determining factor for the very long lifespan and outstanding lumens per watt values of the Streetlight 20 LED. Thanks to low-maintenance and disruption-free continuous operation, high savings potential is achieved across the complete service life with low operating current. The system remains intact so long that new investments are only required 4 to 5 years later with typical usage durations.

**Streetlight 20 LED Power: maximum LED operating current**
Power versions in all construction sizes with higher lumen output are ideal for customers focusing on investment costs. Adapted current feed provides an optimised investment cost per lumen ratio because thanks to higher lumen levels, a smaller construction size is often sufficient for road lighting complying with standards.

---

The matrix above shows lumen levels available for the various construction sizes and versions. The lowest value in each case represents luminous flux in dimmed state. The maximum value represents 100% rated luminous flux without dimming.
Planning comparison
Typical example: the lighting installation of a residential street with M6 lighting class must be refurbished.
The Streetlight 20 mini LED for example is available with outstanding luminaire luminous efficacy of 118 lm/W.
The luminaire can be used in dimming mode.
The alternative is the smaller Streetlight 20 micro LED Power.

Available luminaires

<table>
<thead>
<tr>
<th></th>
<th>Streetlight 20 mini LED</th>
<th>Streetlight 20 micro LED Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated luminous flux of luminaire</td>
<td>3000 lm (dimmed)</td>
<td>3000 lm</td>
</tr>
<tr>
<td>Connected load</td>
<td>24 W</td>
<td>29 W</td>
</tr>
<tr>
<td>Luminaire luminous efficacy</td>
<td>118 lm/W</td>
<td>103 lm/W</td>
</tr>
<tr>
<td>Service life</td>
<td>100,000 h (L90/B10)</td>
<td>80,000 h (L85/B10)</td>
</tr>
</tbody>
</table>

Benefits of both versions

<table>
<thead>
<tr>
<th></th>
<th>Streetlight 20 mini LED</th>
<th>Streetlight 20 micro LED Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower energy consumption</td>
<td></td>
<td>Less investment costs</td>
</tr>
<tr>
<td>Longer module lifespan;</td>
<td></td>
<td>extended further with dimming mode</td>
</tr>
</tbody>
</table>

Payback calculation

Total investment
13,940 Euro

Total savings after 25 years of operation
63,610 Euro (6,15% return)

Basis for calculation: static cost comparison, 1 km carriageway, 30 light points, 4000 operating hours/year, 0.20 euros per kW/h;
Old system: HME 125 W (137 W), 4000 h with 100%
New system: Streetlight 20 mini LED Plus (4000 K), 1600 h with 100% = 33.2 W; 2400 h in reduced mode = 16.6 W
8.2 t CO2 savings per km/a
*payback of surplus investment costs after approx. 4.6 years
For new ideas and more convenience

Intelligently controlled light is able to improve energy efficiency and increase the quality of life – take the Streetlight 20 LED.

Light according to needs
In cars, ABS and ESP provide improved safety, and the intelligent control of heating, blinds and lighting improves the quality of living in new buildings. The Streetlight 20 LED ensures that precisely the right quantity of light is emitted to the specific target at the right time. Luminaires can be set individually or in groups for specific lighting tasks and dimming values and periods can be specified, meaning operation is according to requirements and with optimised energy consumption.

A positive location factor
Intelligent light management is a positive location factor for municipalities – inner city areas that have a gastronomic flair are transformed into oases of well-being thanks to inviting light. Sightseeing attractions highlighted with light are harmoniously emphasised because wide-area and road lighting systems are matched accordingly. Residential areas radiate a high quality of life, because residents are aware during both day and night that their surroundings are worth living in.

From simple on/off switching to integrating in extensive light management systems, all Streetlight 20 LED versions can be equipped with various control features.

- **ON/OFF** The Streetlight 20 LED basic version includes classic ON/OFF switching as well as overheat protection assembled in all luminaires. Reduced mode is not possible.
- **Plus** The DALI-programmable Plus control package offers more convenience. StepDIM enables installations with a control wire to reduce luminous flux by 50% within a group. AstroDIM provides flexibility with five timer-based, independent dimming levels for illumination duration and luminous flux.

- **Premium** Even more flexibility and efficiency is available due to integration into intelligent, networked light management and monitoring systems via Powerline, or alternatively, wireless radio connections in a self-sufficient WLAN network with OT4DIM and Street Light Control (SLC) and luminous flux. Please contact your sales representative for further information about individual solutions.

Functional package details

<table>
<thead>
<tr>
<th></th>
<th>Standard</th>
<th></th>
<th>Efficiency</th>
<th></th>
<th>Communication</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Overheat protection</td>
<td>Power reduction</td>
<td>Flexible luminous flux configuration</td>
<td>Time-dependent luminous flux control</td>
<td>Constant luminous flux control</td>
<td>Digital communication interface</td>
</tr>
<tr>
<td>Premium</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Plus</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>ON/OFF**</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*planned launching 2016
Smart solutions for smart cities

Internet access via a luminaire – the Streetlight 20 LED supports WLAN expansion in towns and cities.

WLAN in the public sphere is feasible
WLAN in public spaces is no longer just distant reality and no longer a mammoth infrastructure project. The ever-increasing desire of politicians, companies and citizens can become reality – the Street Light Control (SLC) light management system lays the basis for intelligent networking in smart cities. SLC is part of the Premium performance package of the Streetlight 20 LED.

Intelligence from light head to light head
The new generation of the SLC system wirelessly connects luminaires via radio in a network based on the future-fit IP V6 network standard. Information is transmitted from light head to light head and communicated via a router and internet to the central control point. Important is that the system has sufficient flexibility to intelligently search for another path in a self-healing way if a unit fails.

New features with smart cities
The radio network is available everywhere where luminaires are located and has the ability to become the backbone for completely new smart city services – on the one hand for wide-area information network structures in towns and cities and on the other for new sensor-supported services, for example reporting free parking lots, measuring traffic densities or guiding complete traffic flows. Municipal services can also be connected up to the system, for example when sensors communicate the filling states of garbage containers. Appealing technical options also become available for advertisers with the supply of real-time information to displays.
Simple planning with new light distribution characteristics

Applications and ranges

High-performance LED units with precisely matched lens technology enable highly precise, uniform and efficient road lighting. Streetlight 20 LED light distribution characteristics make work easier for planners thanks to easily understandable designations indicating typical application areas as well as depth illumination and light characteristic. The final selection of luminaires however requires project-oriented calculation, taking into account on-site conditions and the appropriate lighting class. Your sales representative would be glad to help.

Light distribution with road lighting

<table>
<thead>
<tr>
<th>1st position</th>
<th>2nd position</th>
<th>3rd position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical application</td>
<td>Depth illumination</td>
<td>Light characteristic</td>
</tr>
<tr>
<td>ST = street</td>
<td>0.5, 0.8, 1.0, 1.3, 1.5</td>
<td>a = asymmetric, L/R = left/right</td>
</tr>
</tbody>
</table>
| PC = pedestrian crossing

Example 1: Streetlight 20 micro LED

W = 0.5 x H
D = 6 x H
H = 5m
6 x 5 m = 30m (max. mast spacing)
W = 0.5 x H
0.5 x 5m = 2.5m depth illumination
**ST0.8a** light distribution for regular wide roads, asymmetric distribution, G4

Example 2

Streetlight 20 mini LED

Light distribution ST0.8a

\[ W = 0.8 \times H \]

\[ D = 6 \times H \]

\[ W = 6 \times 6m = 36m \] (max. mast spacing)

\[ W = 0.8 \times 6m = 4.8m \] depth illumination

---

**ST1.0a** light distribution for regular roads, asymmetric distribution

Example

Streetlight 20 mini LED

Light distribution ST1.0a

\[ W = 1.0 \times H \]

\[ D = 6 \times H \]

\[ W = 6 \times 8m = 48m \] (max. mast spacing)

\[ W = 1 \times 8m = 8m \] depth illumination

---

**ST1.3a** light distribution for wide roads, asymmetric distribution

Example 4:

Streetlight 20 midi LED

Light distribution ST1.3a

\[ W = 1.3 \times H \]

\[ D = 6 \times H \]

\[ W = 1.3 \times 10m = 13m \] depth illumination

---

**ST1.5a** light distribution for very wide roads, asymmetric distribution

Example 5:

Streetlight 20 maxi LED

Light distribution ST1.5a

\[ W = 1.5 \times H \]

\[ D = 6 \times H \]

\[ W = 1.5 \times 12m = 18m \] depth illumination
The right luminaire for any application

The Streetlight 20 LED range at a glance

<table>
<thead>
<tr>
<th>Design</th>
<th>Module size</th>
<th>ECG/control</th>
</tr>
</thead>
<tbody>
<tr>
<td>micro</td>
<td>Maximum power consumption (at 4000K with luminous flux tracking)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Streetlight 20 micro LED:</strong> up to 840 lm (17W)</td>
<td><strong>ON/OFF</strong> or <strong>Plus</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Streetlight 20 micro LED Power:</strong> up to 3150 lm (30W)</td>
<td></td>
</tr>
<tr>
<td>mini</td>
<td>recommended mounting height 3 to 6 m</td>
<td></td>
</tr>
<tr>
<td>midi</td>
<td>recommended mounting height 4 to 8 m</td>
<td></td>
</tr>
<tr>
<td>maxi</td>
<td>recommended mounting height 8 to 14 m</td>
<td></td>
</tr>
</tbody>
</table>

All technical specifications: November 2015
The Streetlight 20 LED features a series of configurations for typical road lighting applications that are proven in practice and commonly found. Each luminaire can also be individually configured, with the 12-digit product number structure making selection simpler for planners.

<table>
<thead>
<tr>
<th>Light color</th>
<th>Light distribution</th>
<th>Lighting classes</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000K, 4000K</td>
<td>ST0.5a</td>
<td>P4, P5, P6</td>
<td>walkways</td>
</tr>
<tr>
<td>CRI &gt;70</td>
<td>ST0.8a</td>
<td></td>
<td>cycle paths</td>
</tr>
<tr>
<td></td>
<td>ST1.0a</td>
<td></td>
<td>service roads</td>
</tr>
<tr>
<td></td>
<td>ST1.3a</td>
<td></td>
<td>residential roads</td>
</tr>
<tr>
<td></td>
<td>ST1.5a</td>
<td></td>
<td>small parking lots</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST0.8a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST1.0a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST1.3a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST1.5a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PC-L/R</td>
<td></td>
</tr>
</tbody>
</table>

Order data online: genuine environmental protection and always up-to-date. Our Streetlight 20 LED order data pages can be simply downloaded in PDF format at www.siteco.com/bestellservice – this saves paper and protects valuable resources.
Sales Germany | Austria | Switzerland

Sales Germany
Lighting Solutions

Hamburg Sales Region
Valvo Park, Gebäude 10a
Tarpen 40
22419 Hamburg
Tel: +49 40 537120-50
Fax: +49 40 537120-77
E-mail: hanover@siteco.de

Hanover Sales Region
Dorfstrasse 17
30519 Hanover
Tel: +49 511 874152-3
Fax: +49 511 874152-40
E-mail: hannover@siteco.de

Lünen Sales Region
An der Wethmarheide 34
44536 Lünen
Tel: +49 2306 2004-0
Fax: +49 2306 2004-20
E-mail: ruhr@siteco.de

Frankfurt Sales Region
Solmsstrasse 2, Gebäude A/B
60486 Frankfurt/Main
Tel: +49 69 970974-0
Fax: +49 69 970974-11
E-mail: frankfurt-main@siteco.de

Berlin Sales Region
Nonnendammallee 44
13629 Berlin
Tel: +49 30 355309-0
Fax: +49 30 355309-20
E-mail: berlin@siteco.de

OSRAM GmbH
Headquarters:
Marcel-Breuer-Strasse 6
80807 Munich, Germany
Tel: +49 89 6213-0
Fax: +49 89 6213-2020
www.osram.com

OSRAM Customer Service Centre
(KSC) Germany:
Parkring 33
85748 Garching
Tel: +49 89 6213-6000
Fax: +49 89 6213-6001

Leipzig Sales Region
Fuggerstrasse 1a
04158 Leipzig
Tel: +49 341 52677-0
Fax: +49 341 52677-20
E-mail: leipzig@siteco.de

Munich Sales Region
Marcel-Breuer-Strasse 6
80807 München
Tel: +49 89 621366-11
Fax: +49 89 621366-30
E-mail: muenchen@siteco.de

Nürnberg Sales Region
Alersberger Straße 185
90461 Nürnberg
Tel: +49 911 94178-0
Fax: +49 911 94178-31
E-mail: nueremberg@siteco.de

Stuttgart/Mannheim
Sales Region
Rutesheimer Straße 24
70499 Stuttgart
Tel: +49 711 880237-0
Fax: +49 711 880237-30
E-mail: stuttgart@siteco.de

Joseph-Meyer-Straße 13–15
68167 Mannheim
Tel: +49 621 39701-0
Fax: +49 621 39701-30
E-mail: manheim@siteco.de

Austria Sales Headquarters
Siteco Österreich GmbH
Leonard-Bernstein-Straße 10
1220 Vienna
Tel: +43 1 25024-0
Fax: +43 1 25024-255
E-mail: info@siteco.at

Austria Sales Offices
Graz
Haushamer Straße 2
8054 Graz-Seiersberg
Tel: +43 316 284503
Fax: +43 316 284503-90
E-mail: graz@siteco.at

Innsbruck
Tiergartenstraße 37
6023 Innsbruck
Tel: +43 512 3943-43
Fax: +43 512 3943-45
E-mail: innsbruck@siteco.at

Klagenfurt
Spitalbergweg 20
9020 Klagenfurt
Tel: +43 463 48188-0
Fax: +43 463 48188-05
E-mail: klagenfurt@siteco.at

Switzerland Sales Headquarters
OSRAM AG
In der Au 6
Post box 2179
8401 Winterthur
Tel: +41 900 919109
Fax: +41 52 2099829
E-mail: info@osram.ch

Find your contact person anywhere in the world at:
www.osram.com/contacts

Order number 802P023GB
LS Marketing 03.2016 | Technical modifications and errors subject to change.

© 2016 OSRAM

www.lightingsolutions.osram.com