

Lightletter

Edition 1 | 2024

**LIGHT.
MULTIFUNCTIONALITY.
DESIGN.
FOR A CITY
WORTH
LIVING IN.**

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Living for light – Light for living

Dear Sir or Madam,

At Hess, we live for light. Light is not only life, light stands for quality of life and assurance. And both are important to us.

Especially in these challenging times, it becomes clear how valuable light is – as an element of life as well as a symbol for looking forward. With our broad product portfolio – from the technically efficient to the smart, multifunctional luminaries – we provide perspectives and set a clear sign for a positive future orientation with our pioneering technologies and modern designs.

And this brings us to the second aspect of our understanding of light – quality of life. Luminaries from Hess bring quality of life to places – in cities and towns, on squares, along streets and in front of buildings. Because light ensures not only orientation and safety, but also influences our perception, our physical condition and mood. Aspects we take into account with our products. Furthermore, we intensively concern ourselves with ecology and sustainability: In addition to intelligent lighting control systems, naturally, we also offer warmer light colours, to create a pleasant and enjoyable atmosphere for us humans as well as animals and nature.

In doing so, we fulfil the latest requirements with smart solutions: Luminaries from Hess are known for their multifunctionality, they also offer intelligent technologies for communication, information, e-mobility, energy and much more. Through our brand VULKAN, we perfectly round off our offer to you with technically efficient luminaries.

The design of urban space is therefore always the design of quality of life. Our projects emphasize this. With Baiersbronn, Zella-Mehlis and Bamberg we again present you with three beautiful references. References that ideally combine light, life and quality of life.

This brings us back to our fascination with light. And its significance for assurance and life. It is wonderful to be able to express oneself through such a unique element.

With this pleasant thought, we would like to send our warmest greetings to you, your employees, your colleagues and your families.

Sincerely,

Hess GmbH Licht + Form

Bridges open up worlds,
lights horizons.

Oliver W. Schwarzmann, Economic poet

Willkomm-Höft
Welcome Point

CONTENT

HESS-NEWS

46

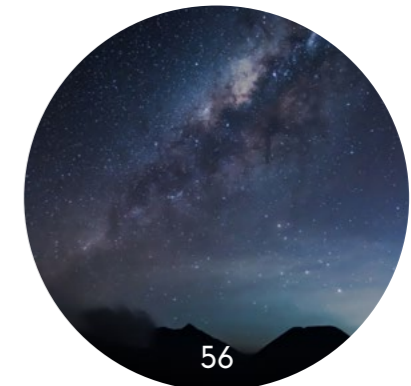
- 46 MADRID 800
- 48 Outdoor exhibition update
- 54 Certifications



GREEN HESS

56

- 56 Earth and light - Environmental protection in outdoor lighting
- 58 Light, naturally seen - Sustainability and ecology in outdoor lighting
- 60 Intelligent control systems



VULKAN-NEWS

62

- 62 Product news



TITLE

08

- 08 Light, multifunctionality and design - for a city worth living in



REFERENCE PROJECTS

16

- 16 Marketplace, Zella-Mehlis (DE)
- 24 Interview with Dipl.-Ing. (FH) Matthias Eschrich
- 28 Thoroughfare, Baiersbronn (DE)
- 36 Interview with the mayor Michael Ruf
- 40 Wilhelm Square, Bamberg (DE)



LIGHT, MULTIFUNCTIONALITY AND DESIGN – FOR A CITY WORTH LIVING IN. AND MUCH MORE.

Our cities are becoming more crowded – just as our requirements are becoming more rigorous and more diverse. Therefore, the resulting needs are increasingly being focused on in urban planning. The challenge: To reconcile the variety of concerns with the most diverse aspects, such as mobility, for example. Nature. The consideration of any historical heritage, not least taking into account political demands and specifications. →

What makes a city worth living in? What does a city look like in which people feel comfortable, in which they are happy to see each other and in which all of these needs are perceived?

In the last issue of our Lightletter, we already discussed the importance of light:

Excerpt from Lightletter 1/22: What can light do?

Light has a triple effect: visual, biological and emotional. The visual function is a central aspect for humans – we need light in order to see.

But the non-visual function or effect of light continues to play an increasingly important role. This is referred to as circadian lighting, which on the one hand involves influencing the “inner clock” – that is to say, stabilising the biorhythm.

On the other hand, it also has to do with the emotional quality of light, which means taking into consideration criteria related to architecture, aesthetics and psychological perception. Targeted lighting management is tantamount to

staging – effects, moods and entire appearances are influenced. What’s more, accents are set and perception is controlled.

It is crucial to know what is to be illuminated in which environment under which conditions. In addition, the question of which roll the light should play is important – Is its roll to emphasize, to structure, to identify, to create connections or to create security?

Light is a tremendously powerful means of communication. It sets accents, creates and transport feelings and moods. (End of excerpt).



In urban spaces, **lighting** has a multifaceted meaning: It provides orientation and security. It also serves to set the scene and accentuate, provides communication and identity. That is a lot, but not everything: At Hess, not all lighting is created equal – our lighting is not just light.

We understand lighting as an intelligent medium for creation, interaction and supply. Hess luminaires transform the cities and urban spaces of today into the smart places of tomorrow.

Light – Multifunctionality – Design. Our understanding of a city worth living in is based on these three core concepts. →



One of the most well-known urban planners, Jan Gehl from Denmark, postulates the thesis that a city worth living in can be recognized in particular by the extent of its environmental awareness. In our society, this awareness is in the foreground in a way it never has been before.

For one thing, nature offers us the ultimate space for rest and relaxation. At a time when "work-life balance" is no longer just a modern concept, but is increasingly finding its way into corporate philosophies, urban **green spaces and waters** bodies fulfil important functions as recreational zones and nature that can be experienced by people.

They are places of relaxation, "becoming grounded" and for spending time. That is also reflected in our urban planning concepts, that increasingly focus on this circumstance.

Political efforts to increase environmental awareness have by now reached all the city stakeholders - regardless of the size of a municipality. The goal is to raise consciousness of environmentally friendly behaviour and to incorporate corresponding goals in urban planning.



A further increasingly important issue - not only for environmental awareness - is **e-mobility**. According to the McKinsey Electric Vehicle Index (May 2022), Europe has taken the leading position on the world market for electric vehicles with a 20% share of newly sold vehicles.

Overall, worldwide sales doubled from 2021 to 2022. To keep pace with this increase, in terms of infrastructure, 10,000 charging stations would have to be installed in Europe alone - every week!

Here too, multifunctional lighting systems show what they can do: They are key for cities with environmental awareness. For example through sensors for measuring emissions, linked to intelligent control systems and sensors or, as charging units for electric vehicles: Our luminaires - whether from Hess or Vulkan - can be "environmentally conscious". →

In addition, there are still many other factors that make up a city worth living in. For all residents. We humans, for example have the need for security through night-time illumination. Insects however, prefer little to no light.

For this reason - at least in especially sensitive areas - needs-based, intelligent lighting controls and very warm light colours, such as our new light colour **Amber (1800 K)** are gaining in importance.

The need for holistic lighting concepts, that are powerful as well as environmentally friendly and can be perfectly integrated into any space, is greater than ever.

Professional lighting design and smart, multifunctional or technically reduced, efficient luminaires significantly contribute to solving the various requirements and to a city worth living in.



In this issue, we present a few projects in which light, multifunctionality and design have played an important role in the context of a city or urban space worth living in.

Like in **Baiersbronn in Baden-Württemberg**, where a completely new design of the main thoroughfare was implemented as part of a comprehensive redesign, to significantly increase the attractiveness for traffic on the one hand and an inviting atmosphere for people on the other.



Or the marketplace in **Zella Mehlis in Thuringia** (image above), which fulfils many functions after its redesign and thus more than meets the multifunctional demands of a modern place. Security, communication and the supply of e-mobility there are in harmony with a uniform townscape. In both projects, there was enough room for green spaces and recreational areas.

Also in the **UNESCO World Heritage city of Bamberg**, a roundabout was illuminated in a special way. Also with light and best design.

Made by Hess. ●



ZELLA-MEHLIS, GERMANY

A living room for Zella-Mehlis

Mayor Richard Rossel inaugurated the newly designed marketplace, of the town centre in southern Thüringer Wald, with the words "Welcome to the living room of Zella-Mehlis." Attractiveness, security, a forward-looking approach - Today, the Zella-Mehlis market stands for all of these things. →



Attractiveness, security, a forward-looking approach – The citizens of Zella-Mehlis wished for precisely these attributes, within the framework of a competition in which their ideas and concepts were asked for, at the beginning of the planning phase of the construction project “Weekly farmers’ market on the Heinrichsbach”.

In addition to parking areas and water features, the wish list also included reduction of traffic congestion and accessibility as well as artistic aspects of space design. Starting point: The grey, ageing area of town was in need of a comprehensive redevelopment and redesign that was implemented from spring 2017 until summer 2020.



The Mehlis market with the bordering square areas, fulfils several functions which had to be considered in the implementation. The location of the weekly farmers’ market is an area which is also used for town-centre parking and as a venue for events and a place to meet and greet. This diversity of requirements also had to be taken into consideration in the lighting, which had to fulfil these requirements. Standard-compliant illumination, power supply, WiFi access point, camera – The multifunctional RENO ELEMENTS from Hess offers all these application possibilities and many more.



The result is: A total of 10 illuminating columns, each with a height of 5 m, enhance the location with their clear and pure look. The striking design increases the attractiveness of the square during the day and give it additional character.

The efficient LED modules ensure security, visibility and perfect illumination at night. Additional URBAN spotlights, that are integrated in some of the columns, set design accents and illuminate the pedestrian walkways. →



A place to linger – during the day and also at night.

Reference Project

Opening up the stream that runs through it was also one of the central concerns in the citizens' idea competition. Large steel fisher sculptures, designed by architect Hagen Höllering and created in the blacksmith's shop of the artist Dr. Ulrich Barnickel, now give the bank a special charisma and transform the urban space into an inspiring place to linger.



Reference Project

Further elements of the new design include atmospheric lighting effects for the benches, for which six of our innovative ACCADIA L300 in-ground spotlights were integrated and their asymmetrical reflectors precisely adapted to the conditions on site. →



Our REGULUS tree grates and METOR tree guards were used to round off the modern and elegant appearance of the newly designed marketplace as well as to protect the newly planted trees. In perfect combination with our high-quality waste receptacles (PUNTO model) for keeping the area clean and tidy.

All in all, a living room has indeed been created in Zella-Mehlis – A modern, smart square with a pleasant atmosphere, that fulfils the wishes of the citizens and improves the townscape in an impressive way as well.

The project was subsidised by funds from the European Regional Development Fund (ERDF). ●

RENO ELEMENTS
www.hess.eu/en/reno-elements



PUNTO
www.hess.eu/en/punto



METOR
www.hess.eu/en/metor



REGULUS
www.hess.eu/en/regulus



ACCADIA
www.hess.eu/en/accadia-l

PROJECT INFO ⓘ

Client: City of Zella-Mehlis
Lighting design: Matthias Eschrich, IGS INGENIEURE GmbH & Co. KG Weimar / Zella-Mehlis office
Landscape architect: Hagen Höllering, Dr. Schmidt Planungsgesellschaft
Artist: Dr. Ulrich Barnickel
Photos: City of Zella-Mehlis, Peter Baum
Products: RENO ELEMENTS illuminating column, PUNTO waste receptacle, REGULUS tree grate, METOR Q2 tree guard, URBAN65 spotlight, ACCADIA L300 in-ground luminaire

A multifunctional oasis of well-being

The engineering office IGS INGENIEURE GmbH & Co. KG Weimar / Zella-Mehlis office was in charge of planning the lighting concept of the newly designed weekly marketplace on the "Heinrichsbach" creek. Graduate engineer Matthias Eschrich supervised the project.



Mr. Eschrich, the planning for the redevelopment of the weekly marketplace on the "Heinrichsbach" creek began in 2017. When we look at the photographs of the original state, it's hard to believe what the square once looked like. What ideas were behind the redesign?

The town "caretaking task force" from Zella Mehlis wanted to transform the weekly marketplace into a high quality town square with multiple uses. First and foremost, a place to linger and relax as well as a meeting place for citizens of all age groups should be created. The development and opening of the "Heinrichsbach" creek as a natural element and also a habitat for insects, was a significant aspect of creating a green space in the town.

Additionally, the planning included the use of the square as a venue for special festivities, like neighbourhood festivals, a possible use for merchants in the context of markets and, of course, as a parking lot for cars, campers, electric vehicles and motorbikes.

The three fisherman figures, by the sculptor Dr. Ulrich Barnickel, were to be a further highlight of the square.

How important was the involvement of the town citizens to you?

The involvement of the citizens was a very important part of the project planning. The town administration organized a joint idea search for the redesign: "Your idea for your town" As part of the kick-off event in the summer of 2014, a large question mark was set up on the square and the citizens were called to pin their ideas, wishes and suggestions there.

After four months of collecting ideas, the suggestions were processed and summarized in a joint workshop. In the process, it became clear that there was a broad consensus regarding the redesign and future function of the square. On the basis of this brainstorming, the project was finally conceived and an invitation to tender was issued in the spring of 2019.

Has the involvement of citizens been well received and have their ideas been realised?

Both the kick-off party and the workshop to develop the project concept enjoyed active participation. On Urban Development Promotion Day in May 2017, the planning was presented once again and building and town tours were offered.

It was possible to consider all of the ideas submitted by the citizens.

When designing the square, you opted for a luminaire with an extraordinary daytime effect – the smart RENO ELEMENTS. Why?

The aim of the lighting design was to create another highlight for Zella-Mehlis and the surrounding area, in addition to the previous high-profile projects "Train Station / Town Hall Square / Mehlis Market". All requirements for a modern and sustainable smart city project should also be fulfilled.

„The involvement of the citizens was a very important part of the project planning.“



Photo: City of Zella-Mehlis



According to the town's specifications, the luminaires were to make an important contribution to the perception and enhancement of the weekly marketplace alongside the other urban planning and artistic elements. It was about the modern provision of the square with a luminaire that stands out for its form but also for its function. →





What were your requirements for the lighting, namely the night effect?

The focus was on lighting the square in accordance with standards, highlighting the fishermen and seating elements and illuminating the connecting path leading across the square, as well as illuminating a tree in the area of the access road to the square. Insect-friendly lighting without glare for the neighbouring buildings was also important for the project.

With its linear and angular appearance, the RENO ELEMENTS embody a modern and striking luminaire design, which is nevertheless absolutely timeless. For a cozy impression of the square during the evening and night hours, we chose the warm white light colour 3000 K. The night-time dimming of the luminaires, during the dark hours with limited traffic, also enables sizeable energy savings.

The RENO ELEMENTS is a luminaire designed for multifunctionality. Why was that important to you and what was installed in addition to "light".

We definitely want a smart square. Due to its design, the RENO ELEMENTS could be equipped with all of the elements necessary for the electrotechnical supply of the square:

For example, with a WiFi module, two pre-fittings for a later installation of video cameras, also CEE and Schuko plug sockets with the corresponding FI and LS circuit breakers for a flexible, safe and powerful electric supply to the merchants.

Additionally, the URBAN LED recessed luminaire was integrated into the RENO ELEMENTS (see picture series below).

The weekly marketplace is now a "smart" square. What does this mean to you?

All participants worked together to implement a further unique building project in the town of Zella-Mehlis and to place another highlight alongside the previous major projects in the town.

Personally, when I see the square, especially in the evening hours, I am happy that our team, together with the town of Zella-Mehlis and the contractors, has succeeded in making a valuable contribution to the modernization of the town and has increased the quality of life. In addition, our engineering office has another reference object, which will help us acquire further smart city projects in the future.

„On the one hand, the square is a further oasis of well-being in the town. On the other hand, it can be used for a variety of functions.“

What are your first experiences and impressions in relation to the acceptance and the usage of the new square?

On the one hand, the square is a further oasis of well-being in the town. On the other hand, it can be used for a variety of functions.

For the citizens, it is now a meeting place for entertainment, recreation, a place where people can have their needs met and children can play - a place for families!

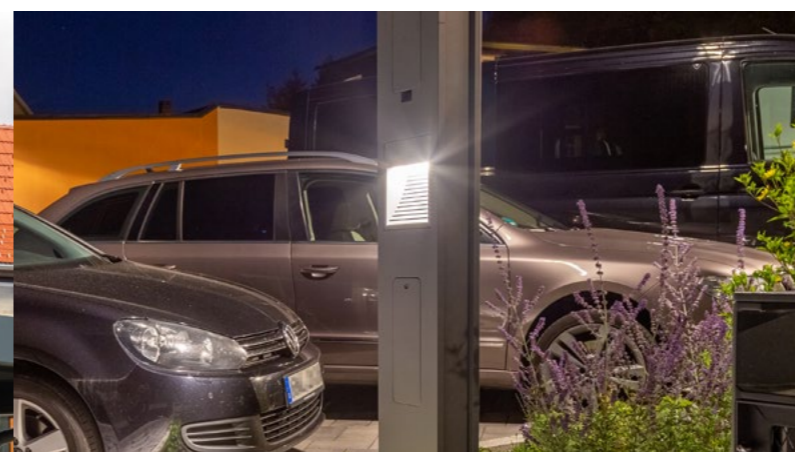
Mr. Eschrich, thank you very much for your time. ●



The RENO ELEMENTS... with camera module ...



... in matching finish ...



... with additional path lighting ...



... with further spotlights for accentuation.

BAIERSBRONN, GERMANY

Successful design: From a simple thoroughfare to an urban showcase project

Baiersbronn in the northern Black Forest, in the district of Freudenstadt. The largest tourist municipality and the second largest municipality in Baden Württemberg, in terms of area, is famous for its haute cuisine beyond the state borders thanks to its excellent top gastronomy. A paradise for those seeking relaxation and for gourmets. →

Reference Project

Baiersbronn is located directly on federal road 462, right next to the famous Black Forest High Road (B500) and therefore on one of the central tourist tangents in internationally sought-after holiday region.

As a result, the municipality and the commissioned planner attached great importance to creating a sustainable passageway with a very pleasant atmosphere during the realignment of the Baiersbronn thoroughfare, despite the volume of traffic.

“Regarding the redesign of the main thoroughfare, we can almost speak of a revolutionary idea, (...) to transform a simple, highly frequented strip of asphalt into an urban showcase project”, is how the mayor Michael Ruf assesses the successful modification of the street “Freudenstädter Straße” in his community.



Photo: Monika Braun (Schwarzwälder Bote)

The lower village of Baiersbronn is the arrival, transit and distribution point. These central functions also had to visually be done justice to and so, the preparations for the large-scale redesign began as early as 2015.

The participation of the citizens of Baiersbronn was an important factor. Their ideas and wishes were to be included. After all, the renovation was not only about a technical upgrade but rather, the focus was a visible and lasting increase in the attractiveness of the lower village.



A promenade should be created along the street and the pedestrian area in front of the shops should be expanded. At the same time, vehicle parking spots were incorporated and a greater emphasis was placed on greenery.

Reference Project

Overall, the entire area was to be made more attractive for pedestrians and be more actively used. Through the integration of a landscaped “centre strip” consisting of individual green islands, the lanes were physically separated from one another and thus crossing the street was also made pedestrian-friendly.

Also of importance for the urban planning was the widening of the Forbach, which runs through the area, in the course of flood protection measures and the accompanying creation of a simplified access to its banks – an invitation to linger and relax. →



The street lighting was also to set highlights complementing this new appearance. The requirement was to use luminaires that are not only capable of bathing the "Freudenstädter Straße" in an excellent light at night, but also to emphasise the high-quality atmosphere of the outdoor space during the day with a clear and minimalist design.

Our VILLAGE 300 pole-mounted luminaire was chosen, which perfectly blends into the new and harmoniously designed townscape - and sets accents itself. The cylindrical luminaire head with 5 circumferential rings has a LEVO3 LED module with an output of 37W or 53W. What's more, the luminaires are dimmed up to 50% of their output via StepDIM.

The community's special wish was to install poles with reinforced walls, which have also have Schuko plug sockets for the annual Christmas lighting, for example. We were happy to fulfil this wish and therefore strong winds and snow loads are no problem - even when Christmas lighting is used at the same time. →





In addition to the VILLAGE 300 luminaires, 39 RUBY R in-ground spotlights in RGBW from our sister company Griven were also installed – all in the landscaped centre strip of the road.

These provide a truly atmospheric illumination including ideal staging of the trees and plants – individually and depending on the season and in a wide variety of colour shades.

Thus the “Freudenstädter Straße” in Baiersbronn has developed into a chic and atmospheric section of the road, that has also become a pleasant place to spend time and which gives the municipality a new and unmistakable character. ●



VILLAGE 300
www.hess.eu/en/village300



RUBY R
bit.ly/3psBNoa

PROJECT INFO



Client: Municipality of Baiersbronn
Lighting design: Hess GmbH Licht + Form, Planstatt Senner
Landscape architect: Planstatt Senner
Photos: Hess GmbH Licht + Form, Monika Braun (Schwarzwälder Bote newspaper)
Products: VILLAGE 300, RUBY R



BAIERSBRONN IN THE BLACK FOREST

From a strip of asphalt to a showcase project

Baiersbronn, a “feel-good community in the Black Forest”, recently transformed a rather dreary main through-road into an urban showcase project, further enhancing its attractiveness and appeal. We spoke with Michael Ruf, the mayor of the municipality of Baiersbronn, about the more than successful re-development project.

Mr. Ruf, Baiersbronn is certainly one of the most famous tourist communities in Baden-Württemberg. What role did this play in the redesign of the main thoroughfare?

A very central roll. The “Freudenstädter Street” (Freudenstädter Straße) is, so to speak, our visiting card for arriving guests as well as people who are merely passing through our municipality. Until now, the street design was rather bleak and not very appealing.

How did you involve the citizens of your municipality?

Straight from the beginning of the redevelopment of the area, there was a comprehensive planning process in which citizens were highly involved. For the respective construction phases, informational evenings or workshops were repeatedly offered, in which the public participated. During the construction phase, there was a monthly

construction site meeting at which the current status was presented.

How were their wishes implemented within the framework of the planning?

Every effort was made to try and include the wishes and suggestions in the planning. Naturally, there were limits, where street and traffic law-related concerns conflicted with these. However, a compromise was always sought, especially with the residents.

Environmental protection today, more than ever, is an essential factor in the new development or redevelopment of cities and municipalities. How important was the “green idea” to you?

It was always our goal to make the local “greenery” that is present in the village a more tangible experience. By designing the street space with trees and plants, this area has become decidedly friendlier. A grey, dreary asphalt dessert has given way to a blooming, colourful flower-filled landscape. →



“It was always our goal to make the local “greenery” that is present in the village a more tangible experience.”



What were the fundamental goals of the lighting concept?

The goal was to use a successful concept to give the "Freudenstädter Street" a significance beyond its borders, also in terms of lighting. The special character should remain and be experienced in the evening and at night.

What was the decisive reason that you chose the VILLAGE 300 luminaire from Hess?

We were looking for a luminaire that had a certain elegance, modernity and quality but at the same time, did not have too much of an urban design. The VILLAGE 300 luminaire combines exactly the things which perfectly fit to Baiersbronn.



The illumination of the landscaped median strip is certainly a (further) highlight. Where did you get the idea and how are you utilising the possibility of colour changes today?

We got the idea on an informational visit, with parts of the municipal council, to the company Hess in Villingen. We were there to make a selection from the wide variety of luminaires. We then came across the possibility of in-ground spotlights, which the board and I were immediately enthusiastic about. Today we use different colours and moods, depending of the time of year.



"Every day when I drive on this part of the street, I am pleased with the appearance and the effect."

How was the lighting concept received by the population?

The new design of the street lighting was very well received. In the beginning, there was a heated debate about which colour should be chosen for the centre island. But that of course, is a matter of taste.

What importance does this constructional measure have for you personally / how do you evaluate it?

Personally, I am happy that I was able to be part of the planning and realisation of this important infrastructure measure. Every day when I drive on this part of the street, I am pleased with the appearance and the effect.

What is your next big project?

Currently, we are involved in further projects within the course of the redevelopment of the lower village of Baiersbronn. At the same time, we have additional projects for the implementation of the "TAL X Freudenstadt & Baiersbronn State Garden Show 2025" which means a further improvement of the urban development situation in Baiersbronn.

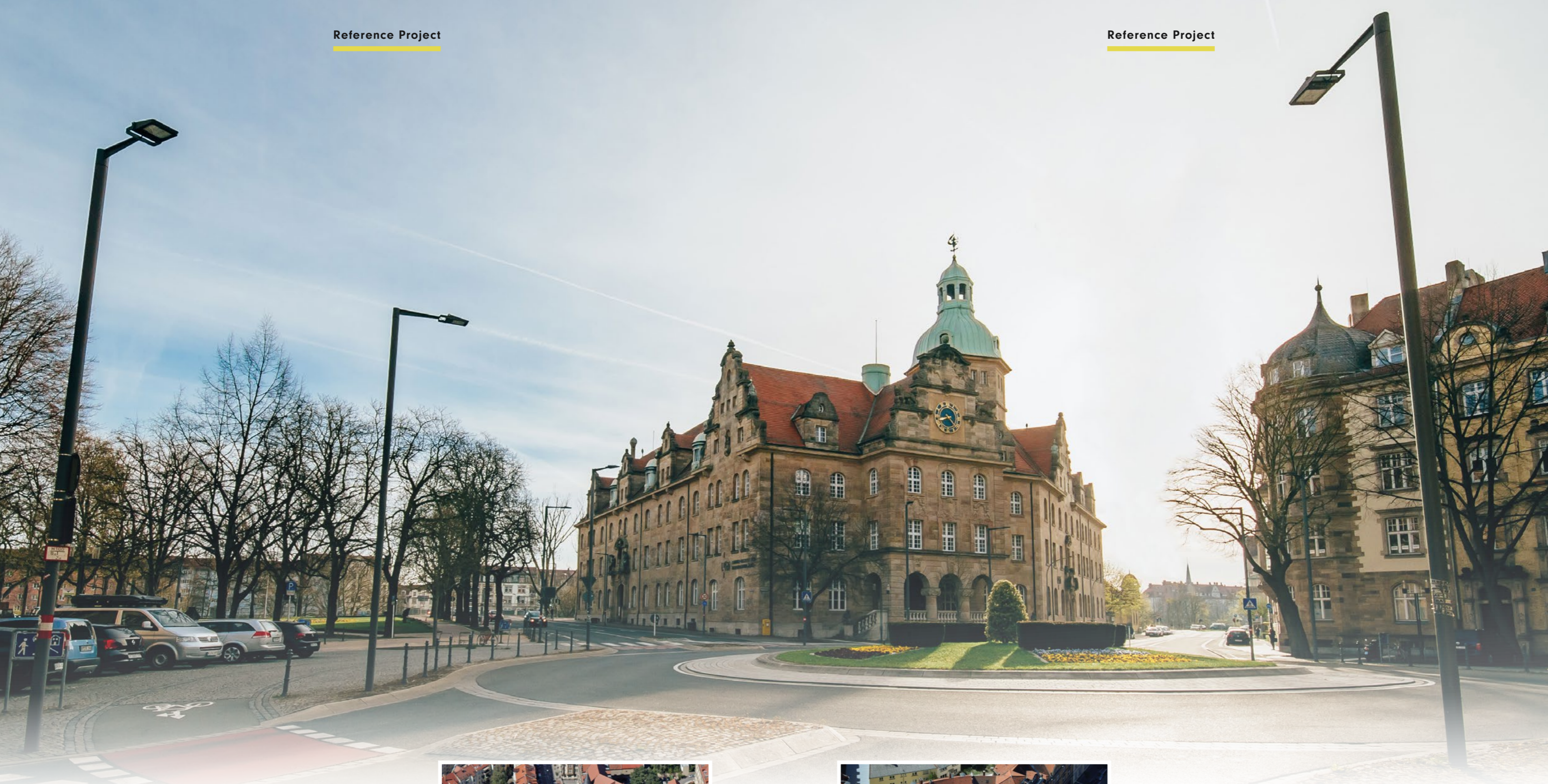
Mr. Ruf, thank you very much for your time. ●

BAMBERG, GERMANY

Wilhelm Square, Bamberg: Update for an important junction

Centrally located and surrounded by historical buildings worth seeing, Wilhelm Square in Bamberg is a striking and important gateway to the city centre. Luminaires from Hess were already used in the course of the redesign of the circular square in 2011. Now, these have been replaced by new ones. →





Eye-catcher based on historical model

Before the former redesign, Wilhelm Square was in a structurally poor condition, the traffic routing was one-sided, which was hardly sufficient for the complex traffic situation. Finally, extensive sewer work in the years 2007 – 2009 laid the foundation for a general restructuring.

The goal – to combine traffic efficiency with urban attractiveness and, at the same time, to design the square inspired by the historical model – was achieved at the time.



Photo: Stadtplanungsamt Bamberg/ Hajo Dietz_Luftbild Nürnberg



Photo: Stadtplanungsamt Bamberg/ Hajo Dietz_Luftbild Nürnberg

Ring-shaped bundeling of traffic routes

In this way, the “square of rings” was created in 2011. Designed in a nested manner, with successive circles from the inside to the outside: The central island as the central core, then a road, followed by a mixed-traffic area including a cycle path and resident parking spaces, arranged in an arc, continuing with a green strip including trees and a pavement along the buildings.

In addition to the visual effects, thanks to the roundabout, the capacity of the important junction as well as its safety were increased. Motorists, pedestrians and cyclists have since benefited from the well-designed arrangement. →

Hess luminaires accentuate the importance – during the day and at night

The earlier redesign of the important square naturally also included appropriate equipping with attractive luminaires. At that time, Hess was chosen. And now, the update is also coming from Hess – with two absolutely top of the line luminaires: REVARA and RESIDENZA, a mix of powerful, reduced, stylistic design as well as a wealth of variants and versatility.



REVARA
www.hess.eu/en/revara

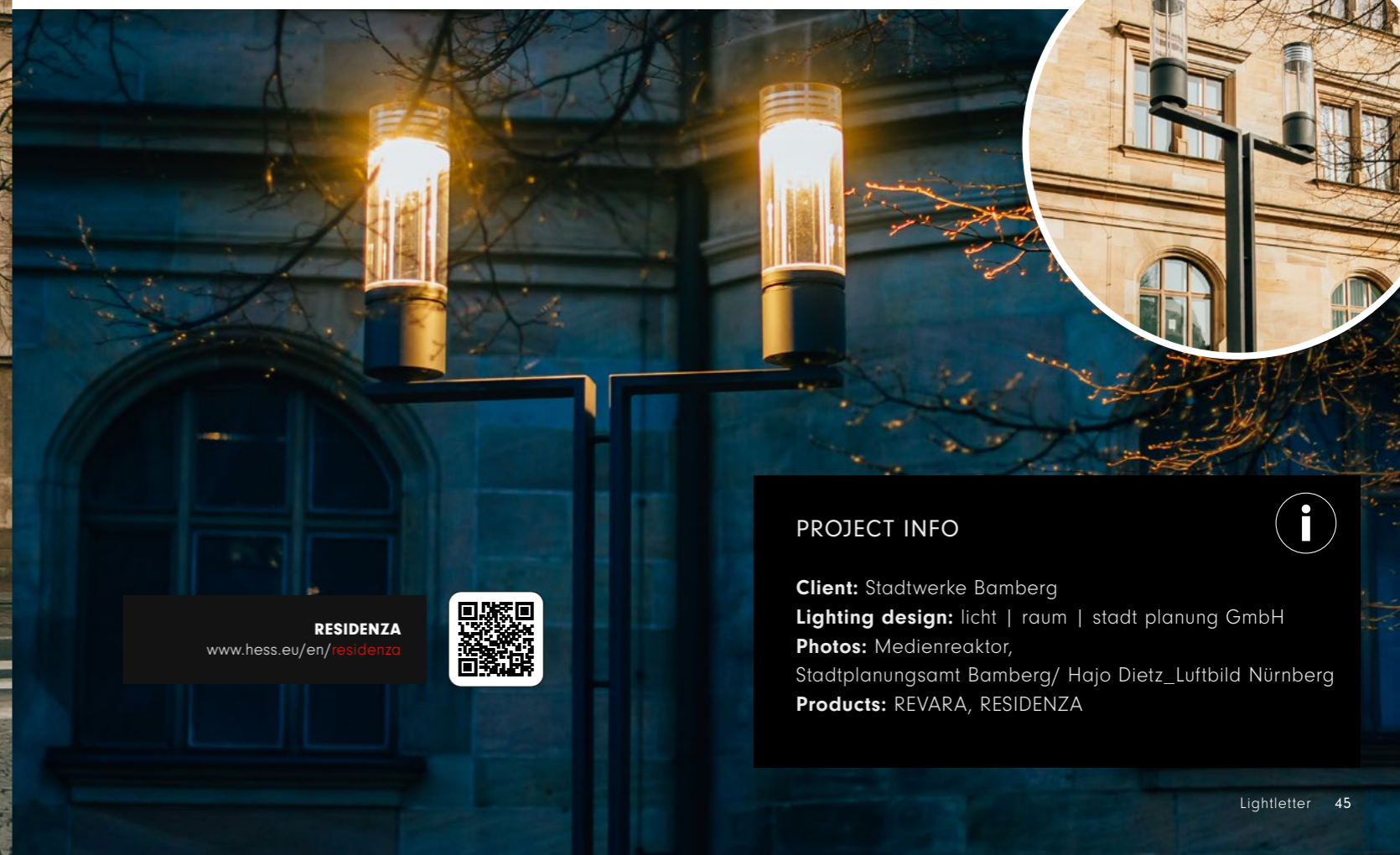
In detail: The 15 REVARA L 1400 luminaires with optics, especially for main thoroughfares, were newly installed directly at the roundabout – in the light colour 3000 K. The luminaires are all equipped with CLM (Constant Lumen Management), this means that the integrated electronics keep the luminous flux constant over the luminaire's service life by increasing the current. Furthermore, the luminaires are dimmed to 50 % via AstroDIM from 10:00 p.m. – 5:00 am.



The path surrounding the roundabout was equipped with 16 RESIDENZA luminaire heads on double brackets. The LED luminaires feature O8 optics (rotationally symmetrical light distribution) and also have a CLM function. Here, the light colour is also 3000 K. Via the intelligent AstroDIM control,

the luminaires are also dimmed to 50 % at the same time, i.e., from 10:00 p.m. – 5:00 am.

Then as now, an all-round success – here in the truest sense of the word. ●



RESIDENZA
www.hess.eu/en/residenza



PROJECT INFO

Client: Stadtwerke Bamberg
Lighting design: licht | raum | stadt planung GmbH
Photos: Medienreaktor, Stadtplanungsamt Bamberg/ Hajo Dietz_Luftbild Nürnberg
Products: REVARA, RESIDENZA



NEW IN OUR PRODUCT PORTFOLIO

MADRID 800

A familiar luminaire is back:

The MADRID 800. The timeless and elegant MADRID is available in this version with a luminaire canopy and with a diameter of 805 mm. The glass cylinder of the 800 version is also 80 mm higher, it complements the “little sister” MADRID 600. The usual details and specifications can be found online under

www.hess.eu/en/madrid

MADRID 600

MADRID 800



MADRID
www.hess.eu/en/madrid

VILLINGEN-SCHWENNINGEN, GERMANY

Outdoor exhibition update

We have not only brought our outdoor exhibition in Villingen-Schwenningen up to date technically, but have also enhanced it with many new highlights! Experience our outdoor exhibition ...

... during the day ...



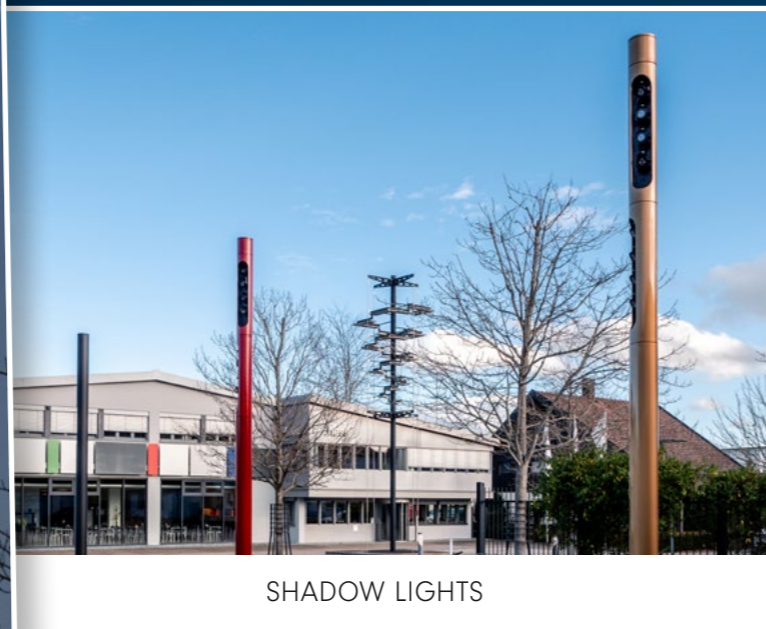
... and at night ...



... and offers you many new things to discover and marvel at, for example ...



SHADOW LIGHTS



SHADOW LIGHTS



E-Mobility - CITY ELEMENTS charging station



Bollards



Site furnishings



REVARA various versions



REVARA bracket detail



Vulkan V3224



Vulkan V3051 and V3081



We warmly invite you to do so! ●

Consistently up to date!

It is our aspiration to continue to improve. To achieve this, we have ourselves, our systems, our products and also our partners and memberships audited and certified wherever necessary.



This certification is ultimately both confirmation and incentive to continue to strive for improvement and quality.

In the interest of quality and in your interest as our customer.



Earth and light – Environmental protection in outdoor lighting

Protection of our planet is one of the central challenges of our time. And also concerns outdoor lighting, which has an impact on nature. For this reason, we are intensively concerned with sustainability and ecology in this area. We recently addressed the trend towards warmer light colours, for example, with the introduction of our Amber light colour (1800 Kelvin).

However, environmental protection in outdoor lighting goes beyond the topic of light colour – i.e. „light pollution“. Simply explained, this is the brightening of the night sky by means of artificial light sources. This affects plants, animals and not least us humans.

This effect has many different causes. The design of the luminaires, including the lighting design, plays a central role. The widely held belief that long-wave light, with a lower proportion of blue, is the solution falls short and is not conclusively scientifically proven.

Environmentally friendly outdoor lighting starts beforehand – in the product and project planning.

The goals:

1. A maximum reduction of stray light upwards (ULOR = Upper Light Output Ratio),
2. a light colour that is precisely matched to the respective lighting situation, as well as
3. a lighting intensity adapted to actual needs.

On the design side, there are a variety of ways to achieve a low ULOR. For example: A luminaire canopy, adjustable luminaire heads, precise optics or reflectors. Shields can also be used to direct the light precisely to where it is needed, thus avoiding unwanted „light dispersion“, i.e. light pollution.

Professional lighting design ensures that light sources are optimally placed and perfectly oriented. In addition, intelligent control and dimming systems enable ideal adjustment of the lighting or its intensity to the actual needs. The spectrum here ranges from firmly defined light reduction steps to sensor-controlled lighting – both guarantee optimal results.

Conclusion: Pioneering luminaire construction, sophisticated lighting design and active, intelligent control and dimming systems help to reduce light pollution to a minimum. In this way, we protect our world and – last but not least – also save money. This is environmental protection that benefits everyone. ●

Light, naturally seen – Sustainability and ecology in outdoor lighting

There is a greater awareness of environmental and species protection today than ever before. This also applies to outdoor lighting, which has an impact on nature as an artificial light source. For example, there are currently various efforts to switch from cold to warmer colour temperatures, such as 3000 Kelvin, with a focus on insect-friendliness.

We are already taking this development into account with the introduction of significantly warmer light temperatures, including our new light colour Amber with 1800 K.

At 2700 K, the blue component is already significantly reduced compared to 3000 K, though maintaining a pleasant colour rendering index that offers a corresponding visual comfort.

Our phosphor-converted Amber lies in a high, reddish colour spectrum. The proportion of blue and the associated impacts on humans and the environment are thus greatly minimised.

In contrast to the colour Real Amber, Amber (1800 K) has a higher efficiency. In addition, the spectral distribution is greater due to the phosphorus. Effect: Improved colour rendering index of illuminated surfaces and objects.

A significant reduction in light emission, also known as "light pollution", is ensured by our highly efficient LED luminaires, combined with precise optics for optimal control of light direction as well as a wide range of intelligent control and dimming systems.

In this way we bring together the requirements of environmental and species protection with an attractive design of the outdoor space at the same time!

We produce at our site in Villingen-Schwenningen. Our depth of added value is accordingly high – and our distances are accordingly short.

Since 2011, we have been certified with our environmental management system in accordance with DIN EN ISO 14001, and since 2015 also in accordance with EMAS (Eco-Management and Audit Scheme), the seal of approval of the European Union.

EMAS is one of the most demanding systems for sustainable environmental management worldwide.

Compliance with legal requirements and regulations is a matter of course for us.

In addition, due to our EMAS certification, we undergo an annual audit, which takes the form of a comprehensive environmental audit. Our environmental statement is publicly available. It is validated by an independent environmental verifier supervised by the State.

The requirements of DIN EN ISO 14001 are part of EMAS, we also have an ISO 14001 certificate. Due to our EMAS certification, we also fulfil the energy audit obligation in accordance with the Energy Services Act (EDL-G). ●

Intelligent control systems

For needs-based control of the light, the DAVLIK luminaire can be connected to various control systems by Hess. DIMPro for example, allows for an individually adaptable control of the light intensity. You will continue to benefit from this additional efficiency increase for a long time. The simple and efficient maintenance concept allows for quick and easy replacement of the LED modules.



DALI

The controller fitted as standard with a DALI interface can easily be integrated into a DALI controlled lighting system.



StepDIM

The luminaires' factory default programming is intended for single-stage night-time dimming (30, 50, or 70 %). The control is integrated in the ballast and operates via an additional 230 V control lead.



AstroDIM

The customer can specify up to two night-time dimming stages (for example 80 % and 40 %) over a continuous dimming range from 10 to 100 %. The relevant values are preset at the factory. The driver determines the theoretical midnight time based on switch-on and switch-off and dims to preset times before and after this theoretical midnight. This is a self-contained and stand-alone system which requires no additional equipment.



DIMPro

With the addition of a movement detector and an antenna in the luminaire housing plus an external master module equipped with GPS an intelligent dimming schedule can be implemented. The master module transmits location, date and time to other luminaires in the system. The system's data can be remotely accessed and new software versions uploaded if required.

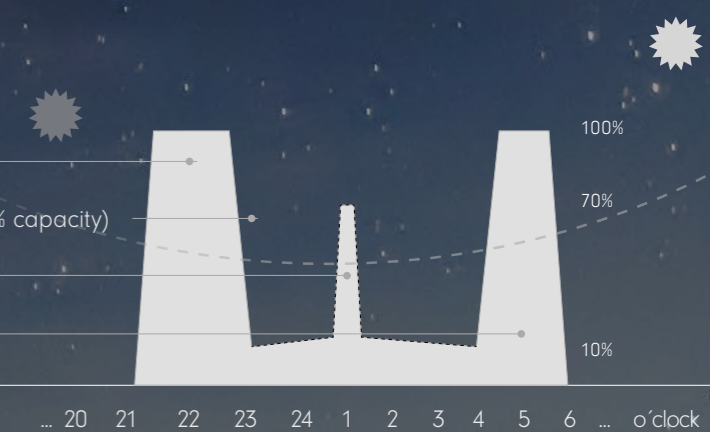
The LED luminaires offer one night-time dimming stage (10 - 100 %) along with the capacity to add a second, freely defined level, for example if a car passes in the street. The luminaires can be pre-programmed or programmed on site.

Evening (high volume of traffic, e.g. 100 % capacity)

Night-time dimming (low traffic volume, e.g. from 11 p.m. onwards, to 10 % capacity)

Event (e.g. 70 % capacity, temporary)

Morning (high volume of traffic, e.g. 100 % capacity)



News

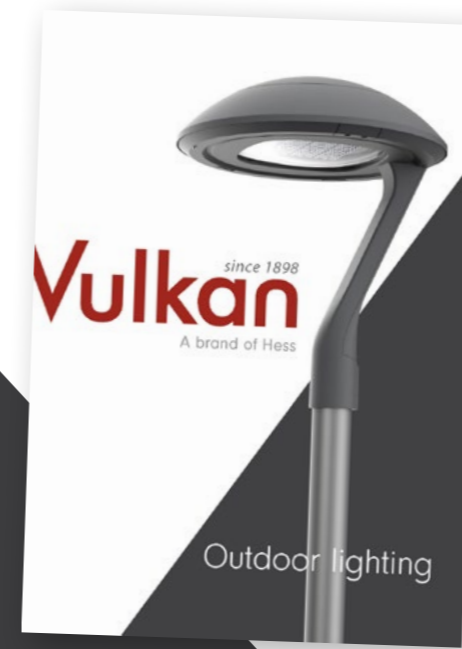
Our brand Vulkan stands for products that are of premium quality, in terms of engineering, and are extremely efficient – as they have been for more than a century! With Vulkan, we offer cities, municipalities and energy suppliers, technically highly advanced products for a standard-compliant illumination of streets, central traffic intersections, car parks, pedestrian zones and public facilities.

The luminaires are designed for a high level of technical functionality and maximum energy efficiency. We achieve both through the use of the latest LED technology and our high level of competence in the area of mechanical design. In addition, we align ourselves very closely with our customer requirements when developing new products. Depending on the corresponding application area, we develop lighting technology that is optimally matched to the requirements.

VULKAN – Quality from the Black Forest.



V3606

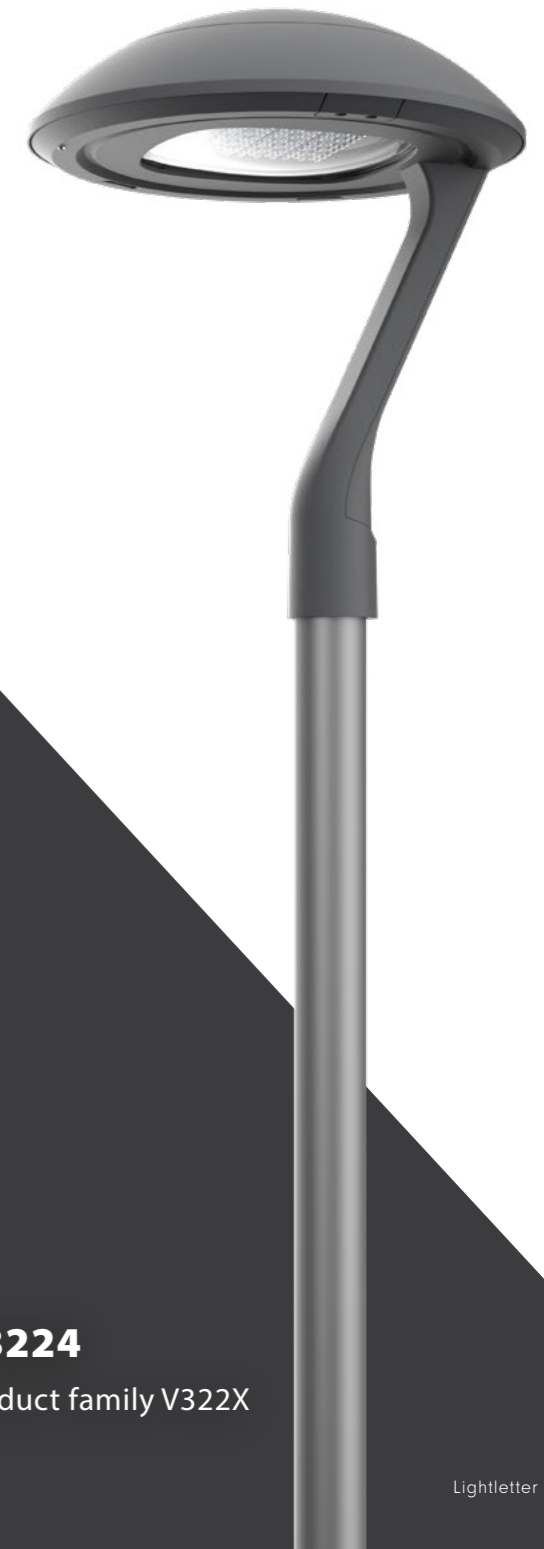


Vulkan – Catalogue Update 2023
tinyurl.com/2zyw4sda



V3210

Product family V321X



V3224

Product family V322X



V9702

Product family V970X



V9802

Product family V980X

V321X



V3210



V3211



V3212



V3213

Decorative luminaire family in 2 sizes for holistic lighting concepts

- ✓ Small version with four mounting possibilities for a uniform appearance across all application situations
- ✓ Luminaire family with decorative design language
- ✓ Compact design of the housing for easy installation
- ✓ Easy maintenance via separately removable electronic ballast carrier



V3211
www.vulkan.eu/en/decorative-lighting/v3211

V3211

V322X



V3224



V3224
www.vulkan.eu/en/decorative-lighting/v3224



V3220



V3221



V3222



V3223



V3224

Decorative luminaire family in 2 sizes for holistic lighting concepts

- ✓ Small version with five mounting possibilities for a uniform appearance across all application situations
- ✓ Luminaire family with decorative design language
- ✓ Compact design of the housing for easy installation
- ✓ Easy maintenance via separately removable electronic ballast carrier

V970X



V9702



V9701

V9702

V9703

Versatile and simple spotlight with bracket for wall or traverse mounting

- ✓ Functional headlight family with three sizes for a uniform appearance across all application situations
- ✓ Compact design for easy installation
- ✓ Easy maintenance via separately removable electronic ballast carrier
- ✓ Mounting bracket for wall or traverse mounting, Quick adjustment for simplified angle adjustment
- ✓ Separate ballast optionally possible (e.g. installation in lower pole section for easy maintenance)



V970X
www.vulkan.eu/en/flood-and-sports-light/v970x

V980X



V9802



V9801

V9802

V9803

Versatile spotlight with bracket for wall or traverse mounting

- ✓ Functional headlight family with three sizes for a uniform appearance across all application situations
- ✓ Compact design for easy installation
- ✓ Mounting bracket for wall or traverse mounting, Quick adjustment for simplified angle adjustment
- ✓ ECG located in a separate LED driver box, which is detached from the housing by default, e.g. for installation on the truss or in the pole base for easy maintenance



V980X
www.vulkan.eu/en/flood-and-sports-light/v980x

V3606



Modern interpretation of the classic linear luminaire

- ✓ Luminaire in slender, classic linear luminaire design
- ✓ Optimal for pole heights from 6 m to 12 m
- ✓ High quality aluminium housing
- ✓ Can be used as a side mounted and pole top mounted luminaire
- ✓ Components can be supplied and exchanged as spare parts



V3606
www.vulkan.eu/en/street-lighting/v3606



V3606

Hess GmbH Licht + Form · Lantwattenstraße 22 · 78050 Villingen-Schwenningen



Vulkan
since 1898
A brand of Hess

Technically advanced
outdoor luminaires -
Quality from the Black Forest

WWW.VULKAN.EU



V3210

V3224