portfolio

LUNUX

LIGHTING SOLUTIONS

PRODUCT CATALOG 2019

LUNUX

A PASSION FOR THE BEST LIGHTING

Light is brightness. And much more. Good lighting can put products and public buildings in the right perspective, optimize working conditions, and boost sales. And not to be forgotten, light is also a factor of well-being and security, and is thus very essential. Who would know that better than you and us? We also know our responsibility as a luminaire manufacturer, supplier, and partner. That is why we not only expanded our product portfolio, but also optimized the competence and flexibility of the new LUNUX. We provide proof of this on the following pages. Our offer corresponds to the current requirement situation. It is popular because modern LED lighting technology and lighting assortments are sustainably adapted to your success.

Sincerely yours,

Franz-Josef Deckers,
Managing Director

Mathias Schmidt,
Managing Director

Contents

OUTDOOR LIGHTING

INTERIOR LIGHTING

Our light worlds

No light source is brighter, more efficient, and more environmentally friendly than LED. Everyone can agree on that. But even the most recognized current light source is of no use if we don't make the best of it: A light source that provides comfort, orientation, and maximum security to people inside and outside. And that is exactly what we do. By using state-of-the-art LED lighting technology and producing perfectly adapted and highly efficient luminaires.

CITY

An urban environment offers ideal design latitude for our creative lighting technology which we are using specifically to make traffic routes, parks, and plazas brighter, safer, and more attractive. At the same time, we are shedding new light on economically and ecologically impressive urban environments.

PAGE 8

ARCHITECTURE

Modularity facilitates adjustment. This applies to the lighting of modern and historic cities. That is why Eco Circle is the ideal lighting solution for decorative streetlights since the light source is modernized without changing the cityscape.

PAGE 12

RAILROAD

Due to the highly differentiated application requirements such as railroad crossings, platforms, railroad tracks, pedestrian underpasses, etc., LED railroad lighting has to provide a very variable and versatile range of luminaires. And that is exactly what we have.

PAGE 16

All technical specifications can be downloaded as a complete and up-to-date version at www.lunux-lighting.com under the respective product.

INDUSTRY & LOGISTICS

Work and make something happen, that is how value creation works. And that is exactly what we facilitate with our long-life luminaires for industrial, logistics, and storage spaces. Our lighting systems are professionally planned, perfectly adapted, and intelligently controlled.

PAGE 20

PARKING GARAGES

The atmosphere in underground garages and parking garages is often perceived as oppressive, and this is often due to insufficient illumination. We will achieve a solution that meets high safety requirements with specific light control and flexible light adjustment.

PAGE 24

PETROL STATIONS

With their diverse spaces, rooms, and functions, petrol station are ideal for lighting which is universally suitable, can be used anywhere, and above all is highly efficient. We also guarantee: Perfect suitability and lighting output as required.

PAGE 28

PUBLIC BUILDINGS

The reputation and appearance of a community depend to a large extent on the state of its public buildings. With our special lighting program, we promote the prestigious character of the building and public accessibility through bright, friendly spaces.

PAGE 32

RETAIL TRADE

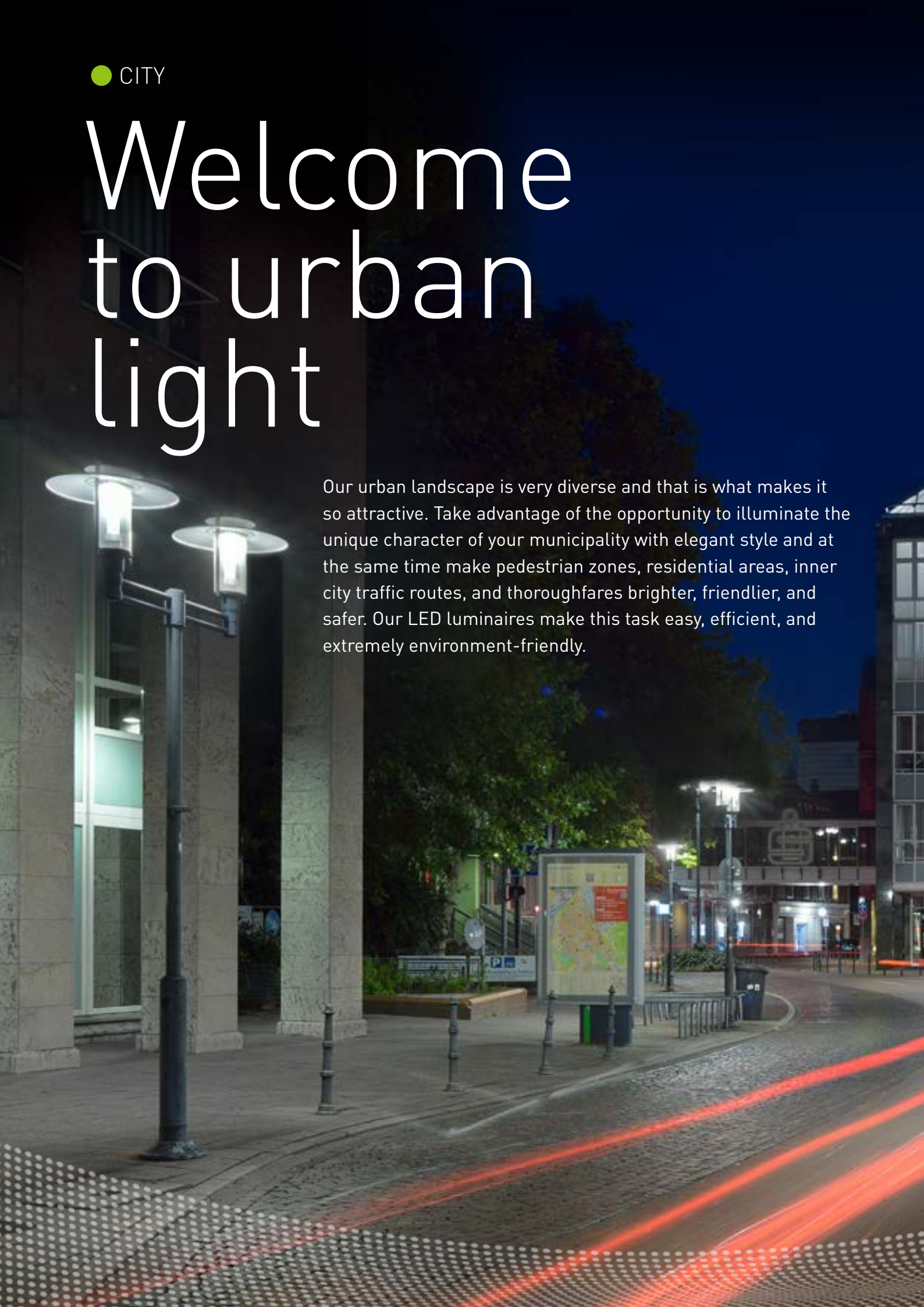
Friendly staff, a generously presented range of products, and a stimulating atmosphere is precisely what makes successful shops attractive. We contribute to this with special luminaires and spotlights.

PAGE 36

CITY

Welcome to urban light

Our urban landscape is very diverse and that is what makes it so attractive. Take advantage of the opportunity to illuminate the unique character of your municipality with elegant style and at the same time make pedestrian zones, residential areas, inner city traffic routes, and thoroughfares brighter, friendlier, and safer. Our LED luminaires make this task easy, efficient, and extremely environment-friendly.



Our products for city lighting

	 Stateline	 Park	 Twin	 Case	 Square	 Slim	 Slim L	 Slim Twin	 Helius 120
Roads in residential areas		●	●		●	●	●	●	●
Pedestrian crossings		●	●	●			●	●	
Main roads	●		●	●	●		●	●	●
Parking facilities / walkways		●			●				●
Parking areas	●	●	●	●					●
Bikeways		●							●
Secondary Roads	●	●	●	●		●	●	●	●
Page	46	52	52	52	56	58	58	58	62

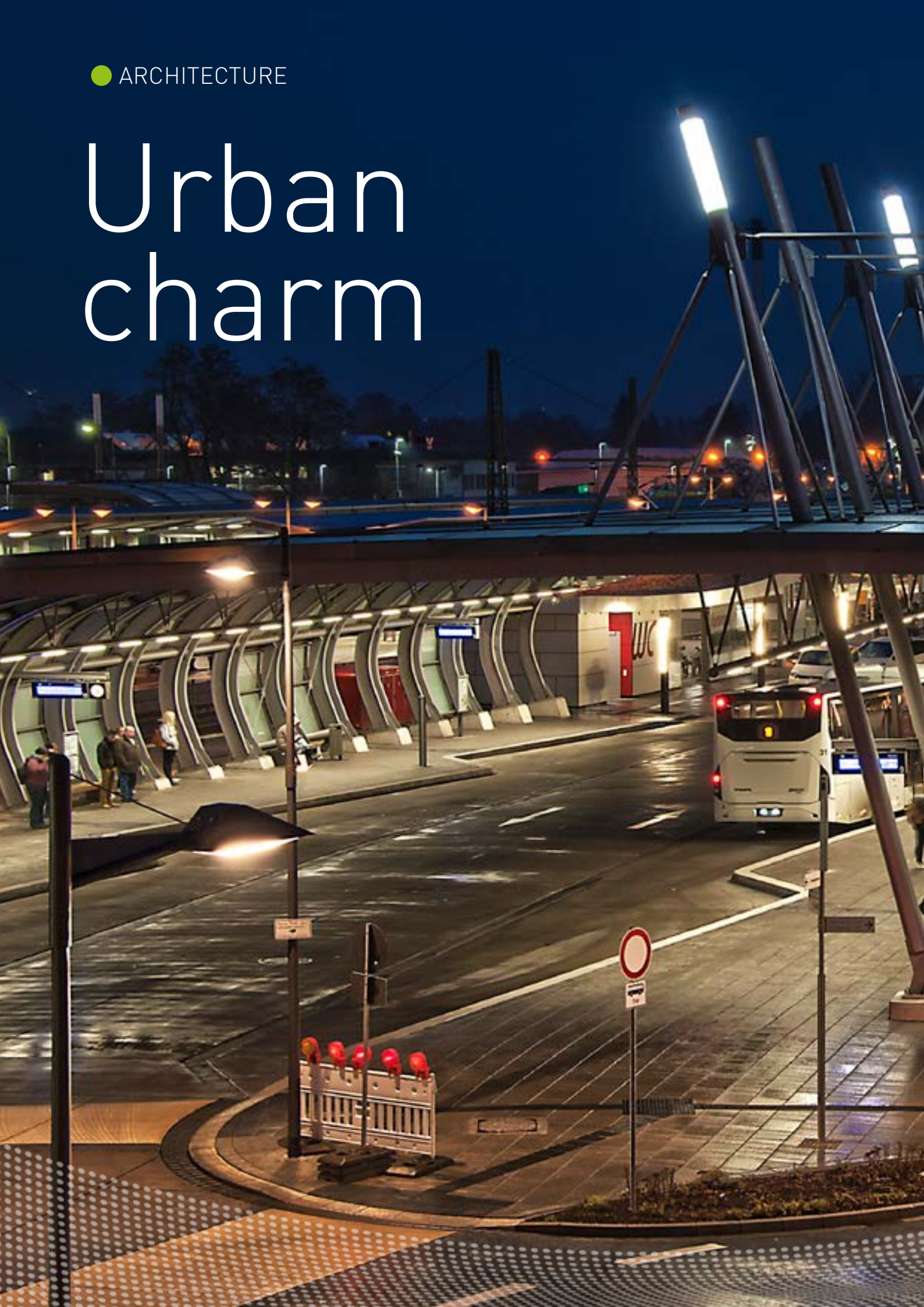
	 Tempus 539	 Cylinder Lights C40	 Cityline	 54x	 Shade	 Moon	 Konus 740	 417-2	 Mushroom 401-5
Roads in residential areas	●	●	●	●	●	●		●	●
Pedestrian crossings									
Main roads									
Parking facilities / walkways	●	●	●	●	●	●	●	●	●
Parking areas	●	●	●	●	●	●		●	●
Bikeways									
Secondary Roads	●			●					●
Page	88	90	92	94	96	100	106	108	104

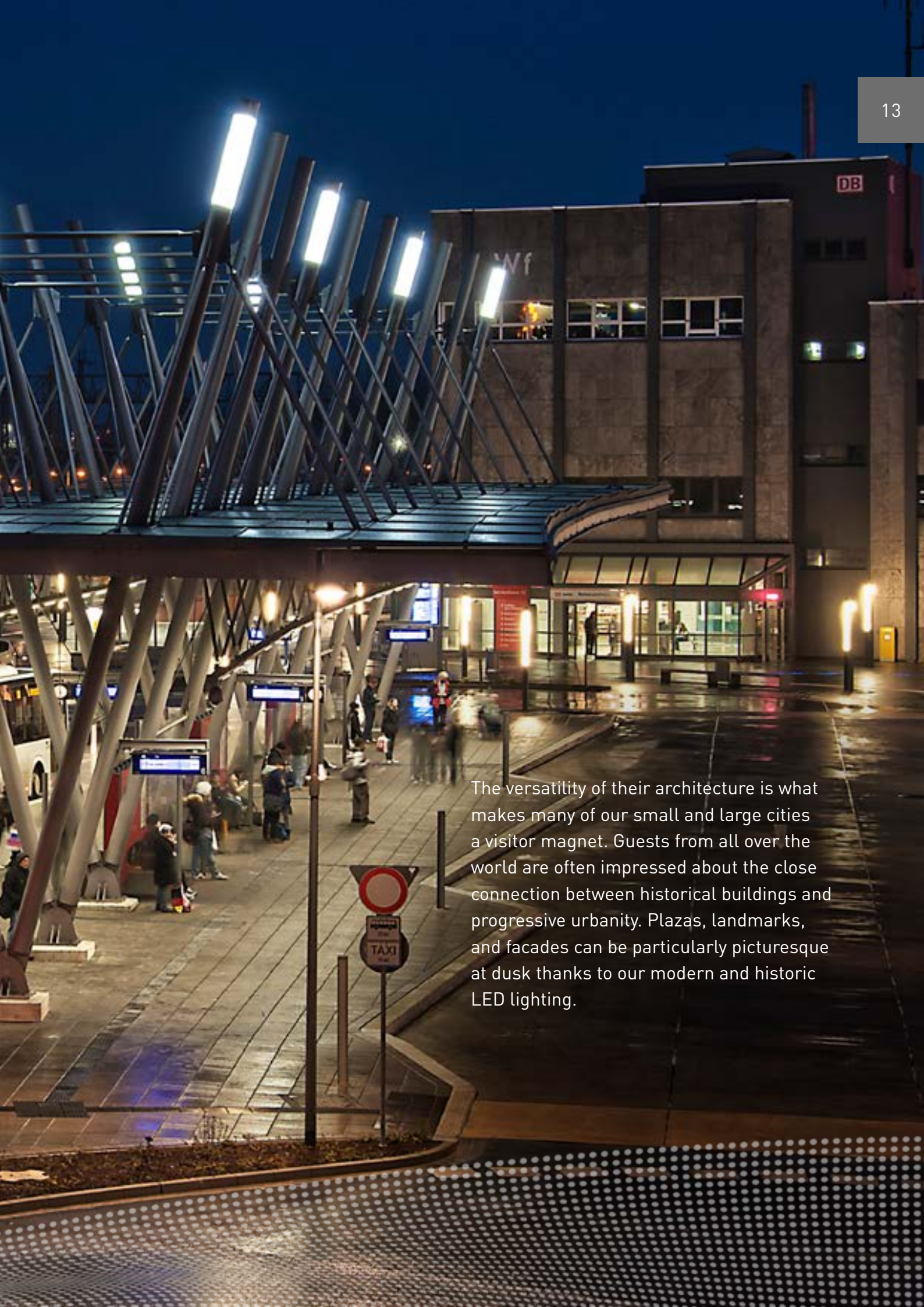
 Helius 121	 Helius 120 L	 Trapez 143	 Trapez 144	 Trapez 145	 Fritz 114	 Fritz 115	 Ellipse 130	 Ellipse 131	 Primus 111	 Catenary luminaire 171-8	 Jüterborg 1007	 500 501 502	 Tempus 538
●		●	●	●	●	●	●	●		●	●	●	●
●			●					●					
●		●	●			●		●		●			
				●	●	●	●		●		●	●	●
●	●	●	●	●			●	●			●	●	●
							●						
●		●	●	●	●	●	●	●			●	●	●
62	64	64	66	66	68	68	70	70	74	78	82	84	86

 24X	 Classica 028	 03X	 Schinkel Lantern 465	 Alt-Berlin	 Gas Lighting 9650	 45x	 Cubeline	 Cologne 606	 Horizonte 7020	 Poller 7030	 Convex 3066	 VGL 31-6 LED
●	●	●	●	●	●	●						
												●
	●	●	●	●	●	●	●	●	●	●	●	
●												
	●	●										
●	●	●										
102	110	112	116	118	120	122	126	128	132	134	138	142

ARCHITECTURE

Urban charm





The versatility of their architecture is what makes many of our small and large cities a visitor magnet. Guests from all over the world are often impressed about the close connection between historical buildings and progressive urbanity. Plazas, landmarks, and facades can be particularly picturesque at dusk thanks to our modern and historic LED lighting.

ARCHITECTURE

Our products for architectural lighting

	 Square	 Fritz 114	 Fritz 115	 Primus 111	 Jüterbog 1007	 500 501 502	 Tempus 538	 Tempus 539	 Cityline
Roads in residential areas	●	●	●		●	●	●	●	●
Bridges / staircases									
Pedestrian zones				●					
Historic Buildings									
Parking facilities / walkways	●	●	●	●	●	●	●	●	●
Parking areas	●				●		●	●	●
Plazas	●	●	●	●		●			●
Page	56	68	68	74	82	84	86	88	92

	 Gas Lighting 9650	 45x	 Cubeline	 Cologne 606	 Horizonte 7020	 Poller 7030	 3001	 Convex 3066
Roads in residential areas	●	●						
Bridges / staircases							●	●
Pedestrian zones				●	●	●		
Historic Buildings	●	●						
Parking facilities / walkways	●	●	●	●	●	●		●
Parking areas								
Plazas				●	●	●		
Page	120	122	126	128	132	134	136	138

 54x	 Konus 740	 417-2	 Shade	 Schinkel Lantern 465	 Alt-Berlin
●		●	●	●	●
	●				
				●	●
●	●	●	●	●	●
●		●	●		
	●		●		
94	106	108	96	116	118

RAILROAD

All aboard

The colorful life and hustle and bustle in railway stations and on platforms has not lost any of its charm even nowadays. The observer is presented with a multi-faceted typology of travelers. Starting with the always fast-paced professional commuter to the visibly expectant vacationer. One thing is true for everyone: They all rely on good orientation, safety, and good light. Our luminaires guarantee that!

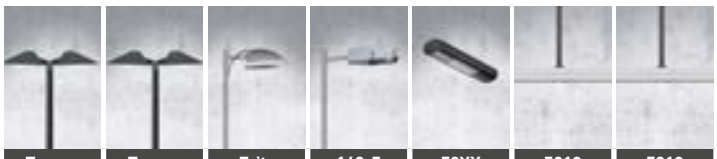

D
06

RAILROAD

Brilliant perspective for railroad, city trains, and subways

	Block Form Lighting DB 17X	Block Form Lighting DB 18X	Quantus DB 191	Quantus DB 192	Quantus DB 192-1	Quantus DB 194	Ellipse DB	Ellipse LED DB
Covered platform								
Platform / uncovered platform			●	●			●	●
Railroad crossing								
Railroad track	●	●		●	●	●		
Pedestrian underpass								
Underground passenger transport systems								
Page	146	148	150	150	150	150	154	156

The operators of rail-bound vehicles are not confronted with problems that are typical of other modes of transport and routes. However, there are highly sensitive areas that can only be addressed with state-of-the-art technologies and first-class lighting. This applies for any and all types of railroads, city trains, and subways. The focus is especially on safety for passengers and staff, both on the route and at the stops. LUNUX assists with optimization through expert advice, comprehensive service, and a large portfolio for all interior and exterior areas. With the best light, maximum efficiency, and easy handling.



Trapez DB 14X	Trapez LED DB 14X	Fritz DB	162-5 DB	50XX	5010	5010 LED
				●	●	●
●	●	●				
			●			
				●		
					●	●
160	162	164	166	168	170	172

INDUSTRY AND LOGISTICS

Industrial light

Industrial value creation depends on how well internal business conditions are adapted to workplaces and work processes. This includes office and administration areas, as well as production, warehouses and outdoor areas. Light plays an ever more important role as an influencing factor. Our LED lighting range of products provides decisive accents.


Rauchen verboten

INDUSTRY

Our products for industrial lighting

	 Q-Rail Line	 Q-Rail Cross	 Q-Rail Plus	 IL2 Plus	 IL Up	 IL Forta	 Basic	 Box
Exits and entrances								
Outdoor areas / facades					●			
Office space								
Entrance areas / corridors								
Warehouses	●	●	●	●	●	●	●	●
Production workshops	●	●	●	●	●	●	●	●
Technical ancillary rooms						●	●	●
Page	182	182	186	194	202	214	204	212

										
Office Eco	Lyra	Neo	Como 68	Como 170/210	Space Eco	Park	Twin	Helius 120	Helius 121	Helius 120 L
						●	●	●	●	●
						●	●			●
●	●	●	●	●						
●	●	●	●	●	●					
●	●	●	●	●						
216	226	228	230	232	218	52	52	62	62	64

PARKING GARAGES

Secure parking

The users of parking garages want high safety standards and clear orientation aids. That is quite feasible. The most suitable means are: consistent camera surveillance and ideal illumination of the parking areas, as well as the entrances and exits. Our luminaires achieve exactly that with constant light quality, customized light control, and flexible light adjustment.

MULTI-LEVEL GARAGE

Our products for multi-level garage lighting

	 Basic	 Box	 IL Forta	 IL Up	 Office Eco	 Lyra	 Neo	 Como 68	 Como 170/210
Exits and entrances									
Outdoor areas / facades				●					
Parking areas									
Inside parking zones	●	●	●						
Technical ancillary rooms	●	●	●		●	●	●	●	●
Page	204	212	214	202	216	226	228	230	232

 Park	 Twin	 Helius 120	 Helius 121	 Helius 120 L
●	●	●	●	●
●	●			●
●	●	●	●	●
52	52	62	62	64

PETROL STATIONS

Refueling

The consumer-friendly “day and night service” of modern petrol stations comes with a price. Customers may not immediately understand why. Tenants and operators, however, only need to take a look at their electricity bill. The logical consequence would be to: convert the entire lighting system to smart, energy-saving LED lighting. We will help you with advice and action.


Shop
Kassenschalter

PETROL STATIONS

Our products for petrol station lighting

	 Frame	 IL Forta	 Basic	 Box	 Office Eco	 Pacta	 Tega	 Lyra	 Neo
Outdoor areas / facades									
Office space					●			●	●
Parking areas									
Shops					●	●	●	●	●
Petrol area	●			●					
Technical ancillary rooms		●	●	●	●			●	●
Car wash		●	●	●					
Workshops		●	●	●					
Page	208	214	204	212	216	222	224	226	228

 Como 68	 Parum	 Q-Rail Line	 Q-Rail Cross	 IL2 Plus	 IL Up	 Park	 Twin
					●	●	●
●							
						●	●
●	●	●	●				
●							
		●	●	●	●		
230	234	182	182	194	202	52	52

PUBLIC BUILDINGS

Open spaces

The optimal success prospects of large-scale urban projects require planning certainty, tight coordination, and smooth cooperation. A real challenge for all parties involved. Nevertheless, by combining different luminaires, we were able to convince our customers in many cases because we have the necessary know-how, as well as a range of LED luminaires that promises the greatest possible benefit for all parties, building owners and users alike.


WC

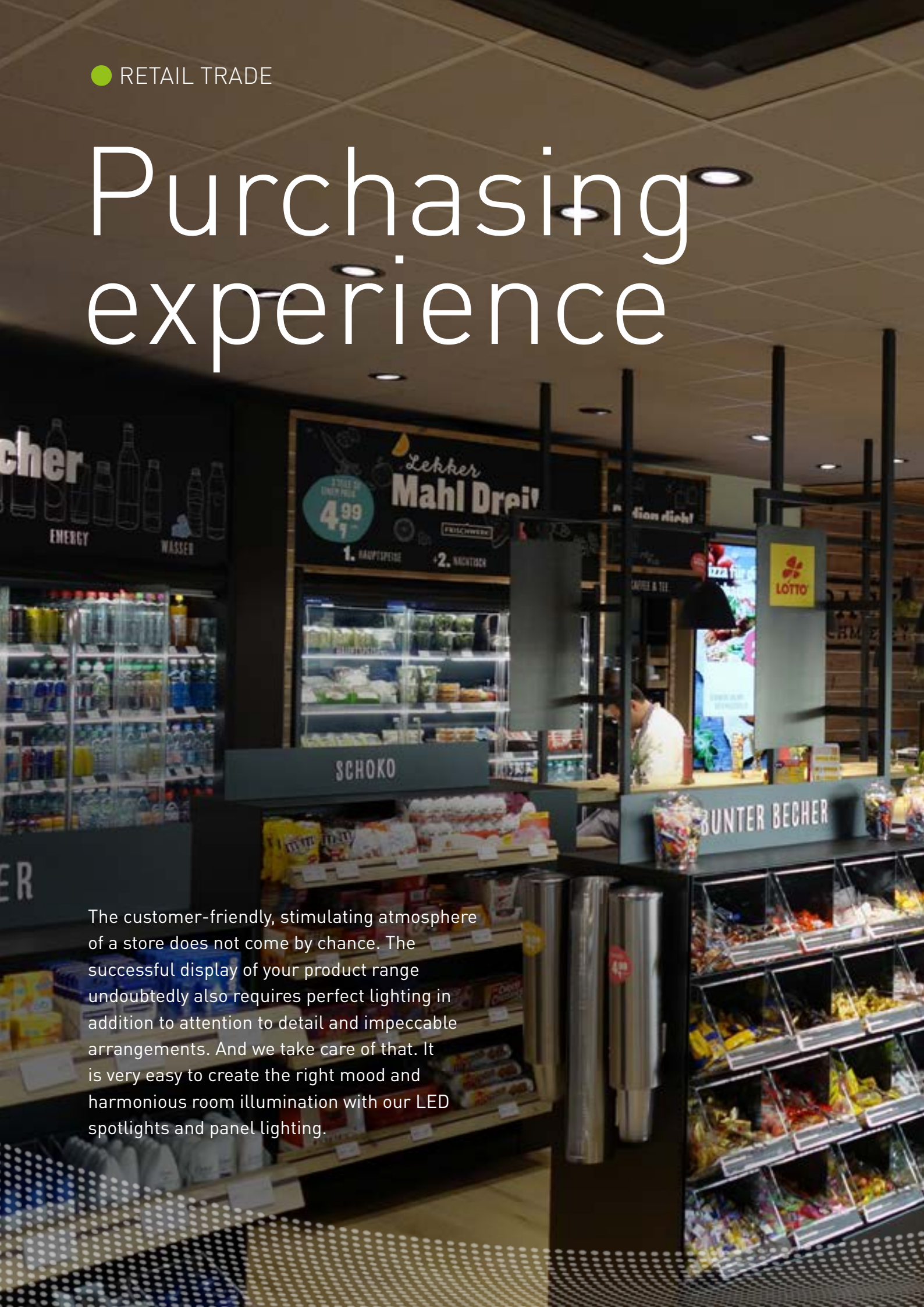
Our products for public buildings

	 Office Eco	 Lyra	 Neo	 Como 68	 Como 170/210	 Space Eco
Outdoor areas / facades						
Office space	●	●	●	●	●	
Entrance areas / corridors	●	●	●	●	●	●
Technical ancillary rooms	●	●	●	●	●	
Page	216	226	228	230	232	218

			
IL Up	**Basic**	**Box**	**IL Forta**
●			
	●	●	●
202	204	212	214

RETAIL TRADE

Purchasing experience



The customer-friendly, stimulating atmosphere of a store does not come by chance. The successful display of your product range undoubtedly also requires perfect lighting in addition to attention to detail and impeccable arrangements. And we take care of that. It is very easy to create the right mood and harmonious room illumination with our LED spotlights and panel lighting.


DHL
FRUCHTIGES
Jetzt
NEU!

Our products for shop lighting

	 Pacta	 Tega	 Lyra	 Neo	 Como 68	 Como 170/210	 Parum	 Office Eco	 Space Eco
Outdoor areas / facades									
Office space			●	●	●	●		●	
Entrance areas / corridors			●	●	●	●		●	●
Food / Fashion	●	●	●	●			●		
Warehouses									
Shops	●	●	●	●	●	●	●	●	
Technical ancillary rooms			●	●	●	●		●	
Sales rooms	●	●	●	●	●	●	●	●	
Page	222	224	226	228	230	232	234	216	218

 Q-Rail Line	 Q-Rail Cross	 IL2 Plus	 IL Up	 IL Forta	 Box	 Basic	 Park	 Twin
			●				●	●
●	●							
●	●	●	●	●	●	●		
●	●							
				●	●	●		
●	●							
182	182	194	202	214	212	204	52	52

Let’s get smart

Smart street lighting – Smart City in Lux

It is very apparent that: LED is the light source of the future. We are doing our utmost to further strengthen this strong position within the framework of LUNUX LED lighting technology. We create innovations which sustainably improve light adaptation and efficiency. That is exactly what we are achieving with “SMART,” the intelligent lighting control. Its use opens up unprecedented options for municipal lighting, because the entire administration and flexible control of the system can be handled with “SMART” via a web portal and smartphone. For example, the brightness levels can be dimmed to current requirements at any time, energy consumption is controlled, and electricity costs can be saved.

SMART+

Maximum flexibility

By integrating control components based on radio, UMTS, and Powerline, you will achieve the highest degree of flexibility and greatest possible scope for the integration of the luminaires into customer-specific control systems. In addition, the luminaires can be programmed according to the customer's specific requirements.

SMART

Intelligent control

This control level has an open interface to the light control (1-10 V / DALI) and you therefore have the option to integrate the luminaires into a control system.

BASIC+

Flexible dimmer profile

The equipment with memory-programmable module allows self-sufficient control in steps (Astrodimm). This provides a substantially expanded solution adapted to the environment and the respective objectives.

BASIC

Power line control

(This is a network-connected interface control system of 50% / 100%. For infrastructures with 2-phase control.

EASY BASIC

On / Off function

This version completes the intelligent lighting control system as a basic version.

LIGHT WORLDS

City and Architecture


TAXI

STATELINE.
FLEXIBLE.
INTELLIGENT.
MODULAR.

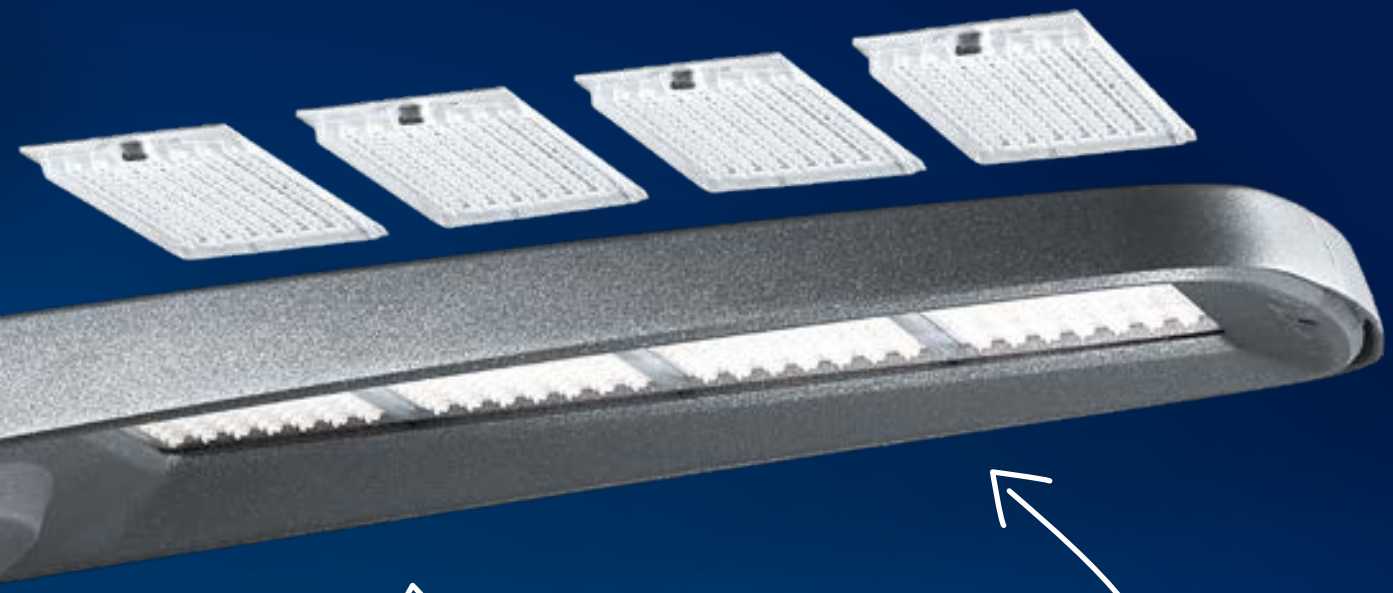
IP67
SMART-BOX is sealed

SMART-BOX
Consists of an electronic driver and optional intelligent building blocks

PLUG & PLAY
SMART-BOX can be changed without tools

FLEXIBLE
Sensors and antennas can be additionally integrated

MODULAR
Modular LED module can be changed quickly and without tools (Plug & Play)



SHOCK RESISTANT
IK08

PERFECTLY INSULATED
LED modules are completely coated with silicone

EASY TO USE
Application areas:
S and ME classes

HELLUX

TECHNICAL LIGHTING

STATELINE

Modular LED lighting concept to cover all different types of streets (S and ME classes)

Integrated optical system with guaranteed minimal losses

Perfectly insulated LED unit

Highly adaptable electronic concept

Replaceable electronic driver unit, comprising electronic driver and optional intelligent modules (housing IP67)

Other advantages:

- Modules and box can be replaced without tools (Plug & Play)
- Optional constant luminous flux possible
- Development and production in Germany

The most important areas of application:

- All outdoor areas
- Roads in residential areas
- Secondary roads
- Main roads
- Parking areas

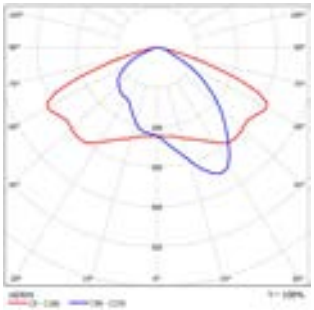
BASIC BASIC+ SMART SMART+

Technical specifications

	STATELINE	
LIGHTING FIXTURES BODY		
Material	Aluminum die casting, PC / ABS fire resistant	
Coloring (powder coating)	DB 703	
Mounting type	60 or 76 mm spigot size for top-mounted luminaires	42 or 60 mm spigot size for side-mounted luminaires
Orientation possibilities	Tilt adjustable: 0° to +15°	Tilt adjustable: -15° to 0°
Dimension (l x w x h)	815 x 350 x 130 mm	
Weight	12.5 kg	
Area exposed to wind	FW = 0.07 m²	
IP Protection class	IP67	
Glass type	Tempered glass / PMMA	
Shock resistance / impact resistance	IK08 (tempered glass)	
PHOTOMETRIC PROPERTIES		
Light source type	Lights with 2, 3 or 4 modules	
Optical system	Lens optics, integrally molded to the LED, made of optical silicone	
Rated luminous flux	4,000 – 20,000 lm	
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, 1 – 10 Volt or DALI	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N)	10 KV	
INSTALLATION SUGGESTIONS		
Application areas	All outdoor areas such as roads in residential areas, secondary roads, main roads and parking areas	
Installation height	4 – 12 m	
Lighting classes	S / ME	
Admitted ambient temperature (ta)	from -40 °C to +40 °C	
OTHER PROPERTIES		
Certificate	CE 10 VDE EMC	

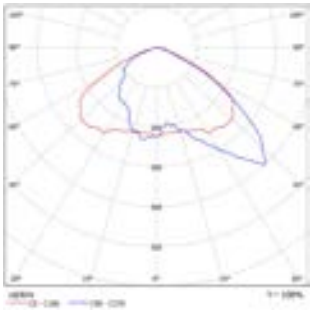
Optics and light distributions

M **Streets of the ME and S lighting classes**



asymmetrical

L **Illumination of surfaces**



asymmetrical

ECO MODULE.
IT CAN BE THAT SIMPLE.
AND IT IS.

The ECO modular concept for sustainable light, today and tomorrow

Interfaces
Sustainability thanks to using the same interfaces and a 20-year availability guarantee

Protection class
IP67

Plug & Play
Easy installation and removal in the lighting fixtures body via plug connector – "Plug & Play"

Thermal management
Best thermal management through material mix and thermal monitoring

PMMA
Excellent resistance to weathering, aging, and yellowing

Made in Germany
Development and production
in Germany

Simple replacement
Contact security (protection class II)
enables replacement under load

Electrical driver electronics
Night-time dimming,
DALI and 1 - 10 V capability

Connector

SMART

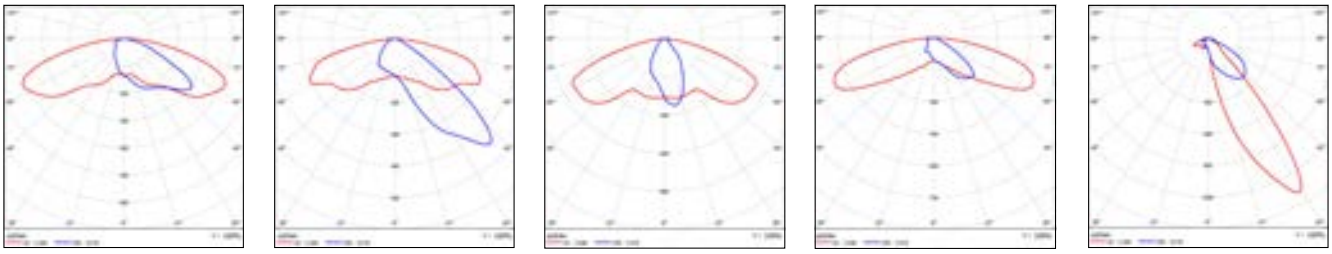
BASIC

Optics
9 different optics for
optimum light – even
greater efficiency
through integration
into the cover lens

Variations
A range of different performance
classes and light colors available.
Can optionally be used as
emergency lighting

ECO MODULES
AN OVERVIEW OF ALL MODULES

StreetLine



S

S-Optics
S lighting class streets
- → Particularly wide asymmetrical distribution
- → Low installation height (4 – 6 m)
- → Large mast spacing (→ 35 m)
- → Negative light point projection

M

M-Optics
ME lighting class streets
- → Wide distribution, but less range than for S-Optics
- → Medium to high installation heights (5 – 10 m)
- → Medium mast spacing (25 – 40 m)
- → Slight positive to negative light point projections
- → Well suited for lights with forward tilt

C

C-Optics
Streets with projecting light points (mast poles with circular curved brackets)
- → For narrow streets and paths with medium to high light points (5 – 8 m)
- → Medium to large mast spacing (25 – 35 m)

U

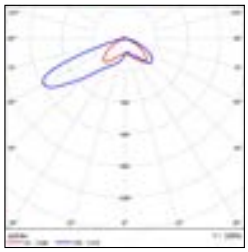
U-Optics
Streets with low installation heights (4 – 6 m)
- → Large mast spacing (→ 40 m)
- → Wide asymmetrical distribution
- → Low installation heights

F

F-Optics
Pedestrian crossings
- → Specially for pedestrian crossings
- → Standards-compliant in accordance with DIN 67523
- → Positive contrast for better recognition of pedestrians
- → Installation height (4 – 8 m)

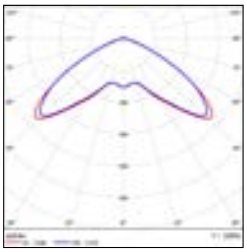
Illustration similar to

IndustryLine



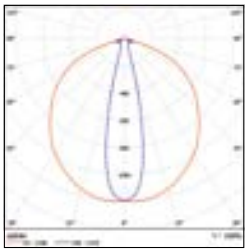
P

P-Optics
Parking garages and underground garages
- → Rectangular asymmetrical distribution
- → Complete lighting of the parking space
- → Reduced glare in the direction of the road lane
- → Can be used as emergency lighting



I

I-Optics
Petrol station, parking garages and parking decks
- → Wide rotationally-symmetrical light distribution
- → Versatile and universal application
- → Can be used as emergency lighting



WW

WW-Optics
Walls, facades and billboards
- → Especially narrow emission at one level
- → Very homogeneous light

G

G-Optics
Petrol stations
- → Deep-wide radiating optics

HELLUX

TECHNICAL LIGHTING

STREETLINE

Efficient: High-performance LED lighting technology including light control system

Costs: Long-term cost security and cost-structure transparency

Sustainable: Luminous flux over lifetime 80% after 100,000 operating hours

Safe investment: Replacement part availability of at least 20 years

Other advantages:

- Modular LED system with integrated electronics
- Technology guarantee
- Average lifetime: 100,000 operating hours
- Demand-oriented configurable, asymmetrical light distribution
- Variably adjustable from -15° to +15° tilt
- Completely preassembled with connection cables and modules
- Intelligent control possible
- Integrated overheating protection
- Maintenance-optimized design

Application areas:

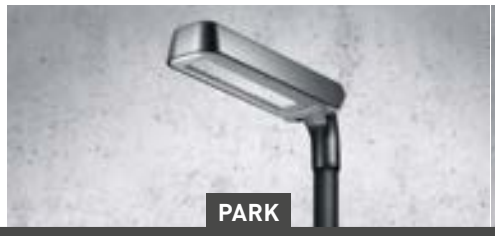
- Parks
- Plazas
- Roads in residential areas
- Secondary roads
- Main roads

BASIC BASIC+ SMART

TECHNICAL LIGHTING

STREETLINE

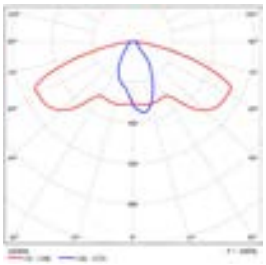
Technical specifications



LIGHTING FIXTURES BODY				
Material	Aluminum die casting		Housing pan and luminaire base made of die-cast aluminum	
Coloring (powder coating)	DB 703		DB 703	
Mounting type	60 or 76 mm spigot size side-mounted or top-mounted luminaires	42 or 65 mm for side-mounted luminaires	60 or 76 mm spigot size for side-mounted or top-mounted luminaires	42 or 65 mm for side-mounted luminaires
Orientation possibilities, tilt adjustable...	-15° to +15°	0° to -15°	-15° to +15°	0° to -15°
Dimensions (length x width x height)	680 x 160 x 110 mm		680 x 240 x 110 mm	
Weight	6.5 kg		9.5 kg	
Area exposed to wind	FW = 0.08 m²		FW = 0.08 m²	
IP Protection class	IP67/ IP69 K		IP67/ IP69 K	
Glass type	PMMA		PMMA	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	1 Eco module with 14 LEDs or 28 LEDs		2 Eco modules with 14 LEDs or 28 LEDs each	
Optical system	PMMA individual optics		PMMA individual optics	
Rated luminous flux	1,250 – 5,000 lm		2,500 – 10,000 lm	
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, 1 – 10 Volt or DALI		Optional control phase (50 % / 100 %), dimmer profile, 1 – 10 Volt or DALI	
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Protection Class II		Protection Class II	
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz		220 – 240 V/ 50 – 60 Hz	
Surge protection (L-N)	10 KV		10 KV	
INSTALLATION SUGGESTIONS				
Application areas	Parks, plazas, roads in residential areas, secondary roads		Parks, plazas, roads in residential areas, roads in residential areas, secondary roads, main roads	
Installation height	4 – 7 m		4 – 8 m	
Lighting classes	ME / S		ME / S	
Admitted ambient temperature (ta)	-40 °C to +40 °C		-40 °C to +40 °C	
OTHER PROPERTIES				
Certificate	CE 10 VDE EMC		CE 10 VDE EMC	

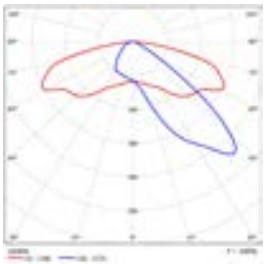
Optics and light distribution for Park and Twin

C **Narrow streets and paths**



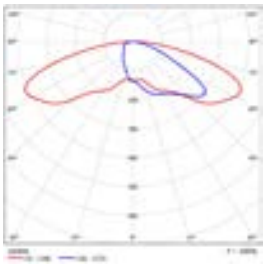
asymmetrical

M **Streets in the ME lighting classes**



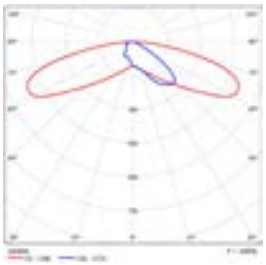
asymmetrical

S **Streets in the S lighting classes**



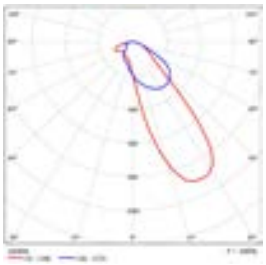
asymmetrical

U **Streets with low installation height and large mast spacing**



asymmetrical

F **Pedestrian crossings**

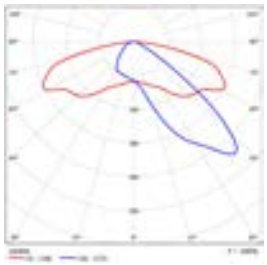


asymmetrical

LIGHTING FIXTURES BODY	
Material	Aluminum die casting
Coloring (powder coating)	DB 703
Mounting type	60 or 76 mm spigot size side-mounted or top-mounted luminaires
Orientation possibilities	Tilt adjustable from -15° to +15°
Dimensions (length x width x height)	680 x 440 x 110 mm
Weight	14.5 kg
Area exposed to wind	FW = 0.08 m²
IP Protection class	IP67/ IP69 K
Glass type	PMMA
Shock resistance / impact resistance	IK08
PHOTOMETRIC PROPERTIES	
Light source type	4 Eco modules with 14 LEDs or 28 LEDs each
Optical system	PMMA individual optics
Rated luminous flux	5,000 – 20,000 lm
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, 1 – 10 Volt or DALI
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTIES	
Protection class	Protection Class II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz
Surge protection (L-N)	10 KV
INSTALLATION SUGGESTIONS	
Application areas	Secondary roads, main roads, roads in residential areas, plazas
Installation height	6 – 12 m
Lighting classes	ME / S
Admitted ambient temperature (ta)	-40 °C to +40 °C
OTHER PROPERTIES	
Certificate	CE 10

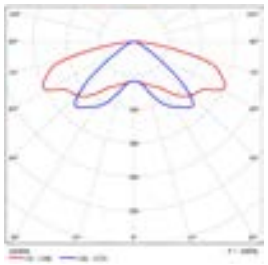
Optics and light distribution for Case

M **Streets in the ME lighting classes**



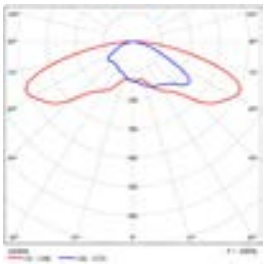
asymmetrical

M **Streets in the ME lighting classes**



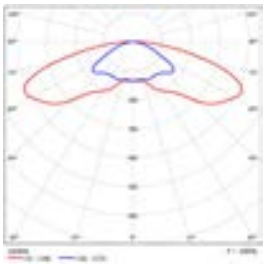
symmetrical

S **Streets in the S lighting classes**



asymmetrical

S **Streets in the S lighting classes**



symmetrical

HELLUX

TECHNICAL LIGHTING

SQUARE

Efficient: High-performance LED lighting technology including light control system

Costs: Long-term cost security and cost-structure transparency

Sustainable: Luminous flux over lifetime 80% after 100,000 operating hours

Safe investment: Replacement part availability of at least 20 years

Other advantages:

- Modular LED system with integrated electronics
- 4 LED modules
- Modules, asymmetrical light distribution
- Technology guarantee
- Average lifetime: 60,000 operating hours
- Completely preassembled with connection cables and modules
- Night setback of 50%
- Integrated overheating protection
- Maintenance-optimized design

Application areas:

- Parks
- Plazas
- Roads in residential areas

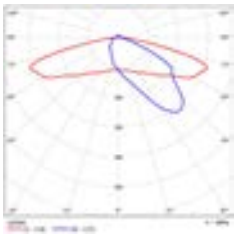
BASIC

Technical specifications

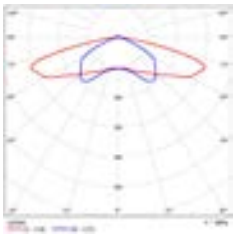
	SQUARE
LIGHTING FIXTURES BODY	
Material	Housing wall and luminaire base made of aluminum die casting, housing stanchion made of extruded aluminum profiles
Coloring (powder coating)	DB 703
Mounting type	76 mm spigot size
Dimensions (length x width x height)	700 x 700 x 500 mm
Weight	15.5 kg
Area exposed to wind	FW = 0.15 m²
IP Protection class	IP67/ IP69 K
Glass type	PMMA
Shock resistance / impact resistance	IK04/ IK05/ IK08
PHOTOMETRIC PROPERTIES	
Light source type	4 Eco modules with 8 LEDs each
Optical system	PMMA individual optics
Rated luminous flux	2,400 – 6,800 lm
Dimming (Power control)	Control phase
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTIES	
Protection class	Protection Class II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz
Surge protection (L-N)	6 KV
INSTALLATION SUGGESTIONS	
Application areas	Parks, plazas, roads in residential areas
Installation height	4 – 7 m
Lighting classes	ME / S
Admitted ambient temperature (ta)	-40 °C to +40 °C
OTHER PROPERTIES	
Certificate	CE 10 VDE EMC

Optics and light distributions

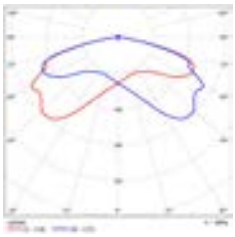
S



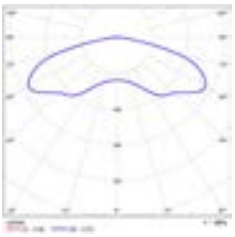
Rectangular asymmetrical distribution



Rectangular symmetrical distribution

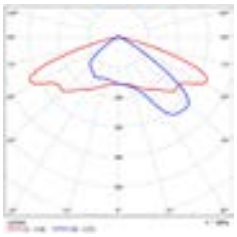


Corner distribution

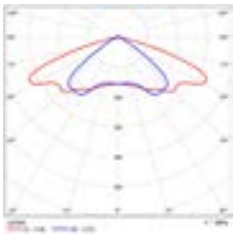


Square distribution

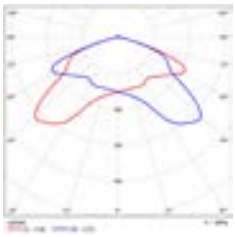
M



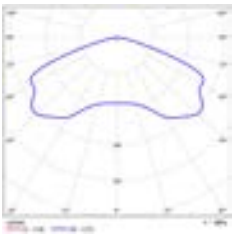
Rectangular asymmetrical distribution



Rectangular symmetrical distribution



Corner distribution



Square distribution

HELLUX

TECHNICAL LIGHTING

SLIM

Modular LED system with up to 2 modules and integrated electronics

Sustainable concept with technology guarantee

Modular light distribution

Completely preassembled with connection cables and modules

Availability of replacement parts: At least 20 years

Other advantages:

- Aligned to light classes S5 to S2 and ME6 to ME4
- Average lifetime: 100,000 operating hours
- Intelligent control possible
- Integrated overheating protection
- Development and production in Germany

Application areas:

- Roads in residential areas
- Secondary roads
- Main roads
- Industrial outdoor areas

BASIC BASIC+ SMART

TECHNICAL LIGHTING

SLIM

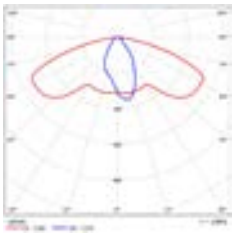
Technical specifications

LIGHTING FIXTURES BODY			
Material	Extruded aluminum profile		
Coloring (powder coating)	DB 703		
Mounting type	60 or 65 mm spigot size for side-mounted luminaires	42 mm spigot size for side-mounted luminaires	60 or 65 mm spigot size for side-mounted luminaires
Dimensions (length x width x height)	700 x 135 x 110 mm	1,440 x 135 x 110 mm	1,160 x 135 x 110 mm
Weight	4.5 kg	approx. 6.7 kg	approx. 5.8 kg
Area exposed to wind	0.07 m²	0.15 m²	0.12 m²
IP Protection class	IP67/ IP69 K		
Glass type	PMMA		
Shock resistance / impact resistance	IK08		
PHOTOMETRIC PROPERTIES			
Light source type	1 Eco module with 14 LEDs or 28 LEDs each		
Optical system	PMMA individual optics		
Rated luminous flux	1.250 – 5,000 lm		
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, 1 – 10 Volt or DALI		
Temperature management	✓		
Constant Light Output (CLO)	Optional		
ELECTRICAL PROPERTIES			
Protection class	Protection Class II		
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz		
Surge protection (L-N)	10 KV		
INSTALLATION SUGGESTIONS			
Application areas	Roads in residential areas, secondary roads, main roads, outdoor areas in industrial zones		
Installation height	4 – 8 m		
Lighting classes	ME / S		
Admitted ambient temperature (ta)	-40 °C to +40 °C		
OTHER PROPERTIES			
Certificate	CE 10 VDE EMC		

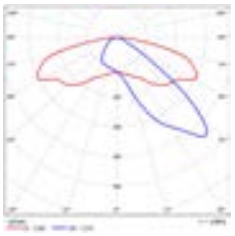
Optics and light distributions

Example light distribution 2,500 lm
installation height: 5 m

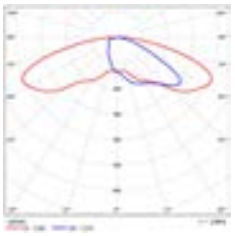
C Narrow streets and paths



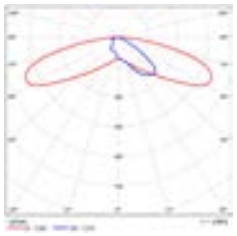
M Streets of the ME lighting classes



S Streets in the S lighting classes



U Streets with low installation heights and large mast spacing

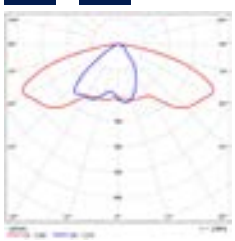


LIGHTING FIXTURES BODY		
Material	Extruded aluminum profile	
Coloring (powder coating)	DB 703	
Mounting type	42 mm spigot size for side-mounted luminaires	60 or 65 mm spigot size for side-mounted luminaires
Dimensions (length x width x height)	1,440 x 135 x 110 mm	1,160 x 135 x 110 mm
Weight	approx. 7.7 kg	approx. 6.8 kg
Area exposed to wind	0.15 m²	0.12 m²
IP Protection class	IP66/ IP69 K	
Glass type	PMMA	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	2 Eco modules with 14 LEDs or 28 LEDs each	
Optical system	PMMA individual optics	
Rated luminous flux	2,500 – 10,000 lm	
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, 1 – 10 Volt or DALI	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz	
Surge protection (L-N)	10 KV	
INSTALLATION SUGGESTIONS		
Application areas	Roads in residential areas, secondary roads, main roads, outdoor areas in industrial zones	
Installation height	4 – 8 m	
Lighting classes	ME / S	
Admitted ambient temperature (ta)	-40 °C to +40 °C	
OTHER PROPERTIES		
Certificate	CE 10 VDE EMC	

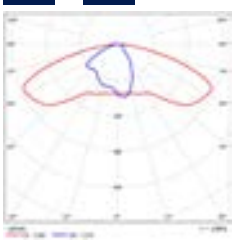
Optics and light distributions

Example light distribution 5,000 lm, tilt angle from +15°
Lens alignment diagonal or lengthwise to module

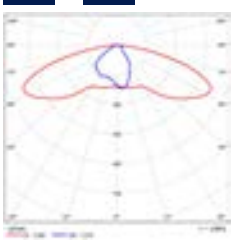
C + M ARB



C + S ARB



C + U ARB



HELLUX

TECHNICAL LIGHTING

HELIUS

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and LED modules at 100.000 h

Easy installation: Orientation possibilities in one pass from -10° to +115°

Future-proof: Specially designed to use state-of-the-art LED technology

Other advantages:

- Lumen packages from 1,000 lm to 12,000 lm
- Two different luminaire sizes
- As side-mounted and top-mounted
- Can be pivoted when mounted from -2° to +88° in increments of 5°

Application areas:

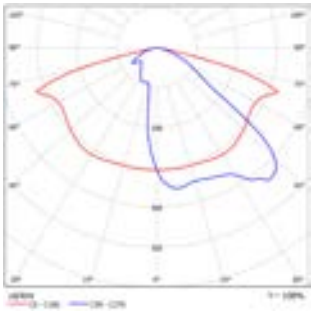
- Main roads, roads in residential areas
- Entrances / exits
- Parking facilities / walkways
- Parking areas
- Bikeways
- Local distributor road

EASY BASIC | BASIC | BASIC+ | SMART | SMART+

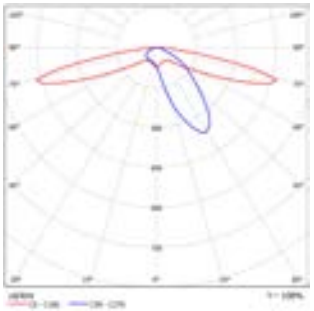
Technical specifications

	HELIUS 120		HELIUS 121	
LIGHTING FIXTURES BODY				
Material	Aluminum die casting		Aluminum die casting	
Coloring (powder coating)	DB 703		DB 703	
Mounting type	42, 60 or 76 mm Post top or side mounting		42, 60 or 76 mm Post top or side mounting	
Orientation possibilities (in 5°-steps)	-100° to +25° (side-mounted) or -10° to + 115° (top-mounted)		-100° to +25° (side-mounted) or -10° to + 115° (top-mounted)	
Dimensions (length x width x depth)	515 x 306 x 94 mm		610 x 306 x 94 mm	
Weight	approx. 7 kg		approx. 8 kg	
Area exposed to wind	0.04 m²		0.04 m²	
IP Protection class	IP66		IP66	
Glass type	Tempered glass		Tempered glass	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs	LED modules with mid-power LEDs (silicone module	LED modules with high-power LEDs	LED modules with mid-power LEDs (silicone module
Optical system	Asymmetric wide beam, wide beam or forward-radiating light distribution		Asymmetric wide beam, wide beam or forward-radiating light distribution	
Rated luminous flux	1,000 – 8,000 lm (500 lm steps) at 3,000 / 4,000 K	1,000 – 6,500 lm (500 lm steps) at 3,000 K 1,000 – 8,000 lm (500 lm steps) at 4,000 / 5,000 K	8,500 – 12,000 lm (500 lm steps)	8,000 – 10,000 lm (500 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI		Optional control phase (50 % / 100 %), dimmer profile or DALI	
Interface for light management	NEMA or Zhaga book 18 socket (ZHAGA socket optional on the top and bottom)		NEMA or Zhaga book 18 socket (ZHAGA socket optional on the top and bottom)	
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Class I / II		Class I / II	
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz		220 – 240 V/ 50 – 60 Hz	
Surge protection (L-N / L|N ground)	10 kV		10 kV	
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, entrances / exits, main roads, parking areas / walkways, parking areas, bikeways, secondary roads, pedestrian crossings		Roads in residential areas, entrances / exits, pedestrian crossings, main roads, parking areas, secondary roads	
Installation height	3.5 – 10 m		8 – 12 m	
Lighting classes	M / P		M / P	
Admitted ambient temperature (ta)	-30 °C to +40 °C		-30 °C to +40 °C	
OTHER PROPERTIES				
Certificate	EK CE		EK CE	

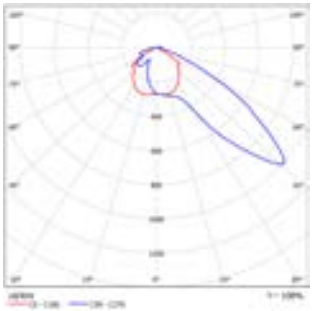
Optics and light distributions for all variants



Asymmetric wide beam



Wide beam



Forward beam

HELLUX

TECHNICAL LIGHTING

HELIUS 120 L

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and LED modules at 100.000 h

Easy installation: Orientation possibilities in one pass from -10° to +115°

Future-proof: Specially designed to use state-of-the-art LED technology

Other advantages:

- Lumen packages from 4,000 lm to 8,000 lm
- Two different luminaire sizes
- As side-mounted and top-mounted
- Can be pivoted when mounted from -2° to +88° in increments of 5°

Application areas:

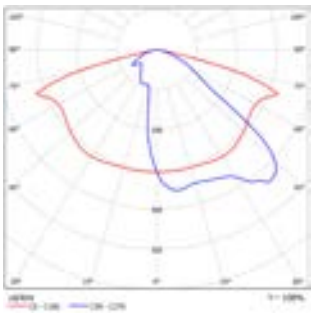
- Parking areas
- Facades
- Multi-level garage
- Industry

EASY BASIC | BASIC | BASIC+ | SMART | SMART+

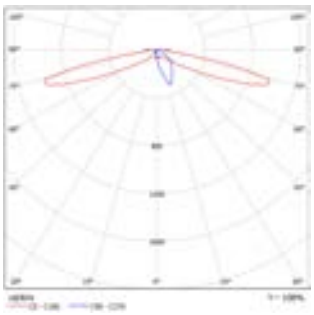
Technical specifications

	HELIUS 120 L
LIGHTING FIXTURES BODY	
Material	Aluminum die casting
Coloring (powder coating)	RAL 9006 or DB 703
Mounting type	60 or 76 mm Side-mounted or top-mounted
Orientation possibilities (in 5°-steps)	-100° to +25° (side-mounted) or -10° to + 115° (top-mounted)
Dimensions (length x width x depth)	515 x 306 x 94 mm
Weight	approx. 7 kg
Area exposed to wind	0.04 m²
IP Protection class	IP66
Glass type	Tempered glass
Shock resistance / impact resistance	IK08
PHOTOMETRIC PROPERTIES	
Light source type	LED modules with high-power LEDs
Optical system	Asymmetric wide beam, wide beam or forward-radiating light distribution
Rated luminous flux	4,000 – 8,000 lm (1.000 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, DALI or Zhaga Socket
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTIES	
Protection class	Class I / II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
Surge protection (L-N / LIN ground)	6 / 8 kV
INSTALLATION SUGGESTIONS	
Application areas	Parking areas, facades, multi-level garage, industry
Installation height	3.5 – 8 m
Lighting classes	ME / S
Admitted ambient temperature (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE

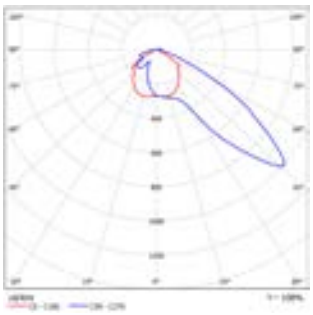
Optics and light distributions for all variants



Asymmetric wide beam



Wide beam



Forward beam

HELLUX

TECHNICAL LIGHTING

TRAPEZ

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and LED modules at 85,000 h

Holistic: Unified design of the product family for your various applications

Other advantages:

- Luminaire series in three sizes
- Optics for various applications

Application areas:

- Roads in residential areas
- Pedestrian crossings
- Main roads
- Parking areas
- Secondary roads
- Parks and walkways

EASY BASIC | BASIC | BASIC+ | SMART | SMART+

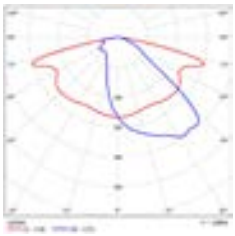
TECHNICAL LIGHTING

TRAPEZ

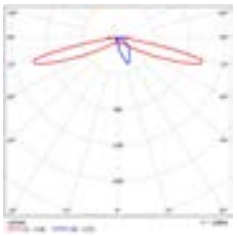
Technical specifications

	TRAPEZ 145		TRAPEZ 144	
LIGHTING FIXTURES BODY				
Material	Aluminum		Aluminum die casting	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Side-mounted (Ø 42 x 100 mm) and top-mounted (Ø 76, 60 mm)		Side-mounted (Ø 42 x 100 mm) and top-mounted (Ø 76, 60 mm)	
Orientation possibilities	None (basic inclination of 2°)		Basic inclination of 2°	
Dimensions (length x width x depth)	700 x 250 x 210 mm		870 x 330 x 270 mm	
Weight	approx. 10 kg		approx. 14 kg	
Area exposed to wind	0.08 m²		0.12 m²	
IP Protection class	IP65		IP65	
Glass type	PMMA / PC		PMMA / PC	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs	LED-Modules with Mid-Power-LED (Silicone Module)	LED modules with high-power LEDs	LED-Modules with Mid-Power-LED (Silicone Module)
Optical system	Asymmetric wide beam, wide beam or forward-radiating light distribution		Asymmetric wide beam, wide beam or forward-radiating light distribution	
Rated luminous flux	1,000 – 8,000 lm (500 lm steps)	1,000 – 10,000 lm (500 lm steps)	4,500 – 12,000 lm (500 lm steps)	4,000 – 11,000 lm (500 steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, DALI or Zhaga Socket		Optional control phase (50 % / 100 %), dimmer profile, DALI or Zhaga Socket	
Interface for light management	NEMA or Zhaga book 18 socket (ZHAGA socket optional on the top and bottom)		NEMA or Zhaga book 18 socket (ZHAGA socket optional on the top and bottom)	
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Class I / II		Class I / II	
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz		220 – 240 V/ 50 – 60 Hz	
Surge protection	10 kV		10 kV	
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, parking facilities/ walkways, parking areas, secondary roads, pedestrian crossings		Roads in residential areas, parking facilities/ walkways, parking areas, secondary roads, pedestrian crossings	
Installation height	3.5 – 8 m		4 – 10 m	
Lighting classes	M / P		M / P	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C to +35 °C	
OTHER PROPERTIES				
Certificate	CE EN 10		CE EN 10	

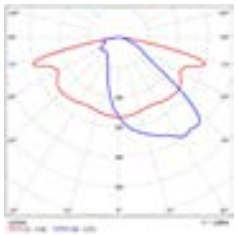
Optics and light distributions



Asymmetric wide beam



Wide beam

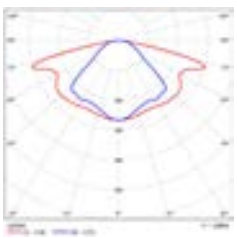


Asymmetric wide beam

TRAPEZ 143

LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	RAL or DB	
Mounting type	Top-mounted (Ø 76, 60 mm)	
Orientation possibilities	None (basic inclination of 2°)	
Dimensions (length x width x depth)	1,420 x 330 x 270 mm	
Weight	approx. 28 kg	
Area exposed to wind	0.19 m²	
IP Protection class	IP65	
Glass type	PMMA / PC	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	LED modules with high-power LEDs	LED-Modules with Mid-Power-LED (Silicone Module)
Optical system	Asymmetric wide beam, wide beam or forward-radiating light distribution	
Rated luminous flux	2x 1,000 – 8,000 lm (500 lm steps)	2x 1,000 – 10,000 lm (500 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI	
Interface for light management	NEMA or Zhaga book 18 socket (ZHAGA socket optional on the top and bottom)	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTIES		
Protection class	Class I / II	
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz	
Surge protection (L-N)	10 kV	
INSTALLATION SUGGESTIONS		
Application areas	Roads in residential areas, main roads, Parking areas, secondary roads	
Installation height	5 – 10 m	
Lighting classes	M / P	
Admitted ambient temperature (ta)	-25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE EN 10	

Optics and light distributions



symmetrical

HELLUX

TECHNICAL LIGHTING

FRITZ

Customizable: Synthetic decorative trim available in five different colors (Fritz 115 only)

Versatile: Suitable as technically functional and as a decorative lighting

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and module at 85,000 h

Award-winning design: IF Design Award (Fritz 114)

Application areas:

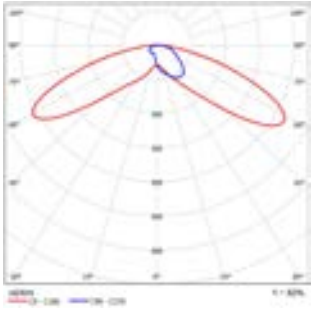
- Roads in residential areas
- Main roads
- Parks and walkways
- Plazas
- Secondary roads

EASY BASIC | BASIC | BASIC+ | SMART

Technical specifications

	FRITZ 114	FRITZ 115
LIGHTING FIXTURES BODY		
Material	Cast aluminum	Cast aluminum
Coloring (powder coating)	RAL or DB	RAL or DB
Mounting type	Top-mounted (Ø 76 / Ø 60) via support arm	Top-mounted (Ø 76 / Ø 60) via support arm
Orientation possibilities	Basic inclination of 0°	Basic inclination of 0°
Dimensions (length x width x depth)	830 x 340 x 320 mm	1,030 x 380 x 340 mm
Weight	approx. 10 kg	approx. 13 kg
Area exposed to wind	0.096 m²	0.19 m²
IP Protection class	IP65	IP65
Glass type	PMMA	PMMA
Shock resistance / impact resistance	IK08	IK08
PHOTOMETRIC PROPERTIES		
Light source type	LED modules with high-power LEDs	LED modules with high-power LEDs
Optical system	Asymmetric wide beam light distribution	Asymmetric wide beam light distribution
Rated luminous flux	1,000 – 8,000 lm (500 lm steps)	8,500 – 12,000 lm (500 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓	✓
Constant Light Output (CLO)	Optional	Optional
ELECTRICAL PROPERTIES		
Protection class	Class I / II	Class I / II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz	220 – 240 V/ 50 – 60 Hz
Surge protection (L-N / L|N ground)	6 / 8 kV	6 / 8 kV
INSTALLATION SUGGESTIONS		
Application areas	Roads in residential areas, parking facilities/ walkways, plazas, secondary roads	Roads in residential areas, main roads, parking facilities/ walkways, plazas, secondary roads
Installation height	3.5 – 8 m	5 – 10 m
Lighting classes	ME / S	ME / S
Admitted ambient temperature (ta)	-25 °C to +35 °C	-25 °C to +35 °C
OTHER PROPERTIES		
Certificate	CE	CE
OPTIONS		
Extension for mast Ø 60 / 42x100 mm	✓	✓
Optional surge protection	10 kV	10 kV
Adjustment angle for boom to 1.5°	✓	✓

Optics and light distributions for all variants



Asymmetric wide beam

HELLUX

TECHNICAL LIGHTING

ELLIPSE

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and module at 85,000 h

Esthetic: Simple and clear shape language with a perfect LED design

Application areas:

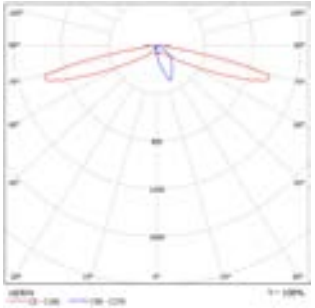
- Roads in residential areas
- Pedestrian crossings
- Main roads
- Parking areas
- Secondary roads

EASY BASIC | BASIC | BASIC+ | SMART | SMART+

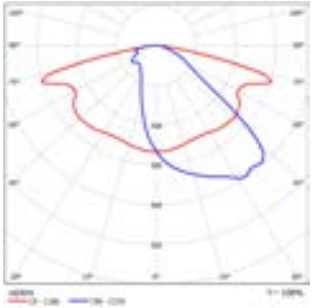
Technical specifications

	ELLIPSE 130		ELLIPSE 131	
LIGHTING FIXTURES BODY				
Material	Aluminum die casting		Aluminum die casting	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Side-mounted or top-mounted (Ø 76 / 60 mm)		Side-mounted or top-mounted (Ø 76 / 60 mm)	
Orientation possibilities	Basic inclination of 5° or 10°		2° to 14° (in 3° steps)	
Dimensions (length, width, depth)	637 x 300 x 180 mm		860 x 340 x 180 mm	
Weight	approx. 8.5 kg		approx. 11.5 kg	
Area exposed to wind	0.1 m²		0.15 m²	
IP Protection class	IP66		IP66	
Glass type	Tempered glass		Tempered glass	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs	LED Modules with Mid-Power-LEDs (Silicone Module)	LED modules with high-power LEDs	LED Modules with Mid-Power-LEDs (Silicone Module)
Optical system	Asymmetric wide beam, wide beam or forward-radiating light distribution		Asymmetric wide beam, wide beam or forward-radiating light distribution	
Rated luminous flux	1,000 – 8,000 lm (500 lm steps)	1,000 – 6,500 lm (500 lm steps) at 3,000 K 1,000 – 8,000 lm (500 lm steps) at 4,000 / 5,000 K	4,500 – 12,000 lm (500 lm steps)	4,000 – 10,000 lm (500 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI		Optional control phase (50 % / 100 %), dimmer profile or DALI	
Interface for light management	Zhaga book 18 socket (ZHAGA socket optional on the bottom)		NEMA or Zhaga book 18 socket (ZHAGA socket optional on the bottom)	
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Class I / II		Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 kV		10 kV	
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, parking facilities/ walkways, parking areas, bikeways, secondary roads, pedestrian crossings		Roads in residential areas, pedestrian crossings, main roads, parking areas, secondary roads	
Installation height	3.5 – 10 m		6 – 12 m	
Lighting classes	M / P		M / P	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C to +35 °C	
OTHER PROPERTIES				
Certificate	CE EAC		CE EAC	

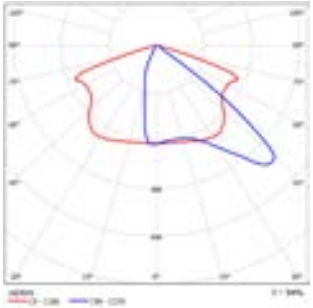
Optics and light distributions for all variants



Wide beam



Asymmetric wide beam



Asymmetric wide beam


DB
Mercedes-Ben

HELLUX

TECHNICAL LIGHTING

PRIMUS 111

Representative: Particularly suitable for prestigious architectural environments

Quality "Made in Germany": High quality materials, high-end finishing

Tool-free: Fold-out luminary top – easy replacement of the LED unit not requiring a lot of tools

Application areas:

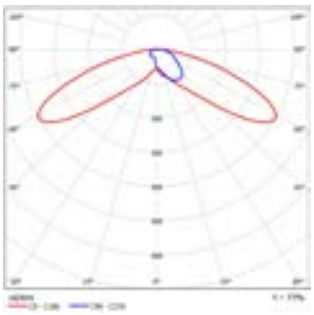
- Pedestrian zones
- Parks and walkways
- Plazas

EASY BASIC | BASIC | BASIC+ | SMART

Technical specifications

	PRIMUS 111
LIGHTING FIXTURES BODY	
Material	Aluminum
Coloring (powder coating)	RAL or DB
Mounting type	Top-mounted
Orientation possibilities	7.5° steps
Dimensions (length x width)	815 x 470 mm
Weight	approx. 16.5 kg
Area exposed to wind	0.12 m²
IP Protection class	IP65
Glass type	PMMA (smooth clear or textured), PC (smooth clear or textured)
Shock resistance / impact resistance	IK08
LIGHT SOURCE	
Light source type	LED modules with high-power LEDs
Optical system	Asymmetrical light distribution
Rated luminous flux	2,250 – 7,000 lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTY	
Protection class	Class I / II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
Surge protection (L-N / L|N ground)	6 / 8 KV
INSTALLATION SUGGESTIONS	
Application areas	Pedestrian zones, parking facilities/ walkways, plazas
Installation height	4 – 8 m
Lighting classes	ME / S
Admitted ambient temperature (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE
OPTIONS	
Optional surge protection	10 KV

Optics and light distributions



Asymmetric wide beam

HELLUX

EASY BASIC

BASIC

BASIC+

SMART

CATENARY LUMINAIRE 171-8

Simple and clear design language with the latest LED technology

Tool-free light source lamp replacement

Tool-free disassembly of the E-block

Dirt-resistant shaping

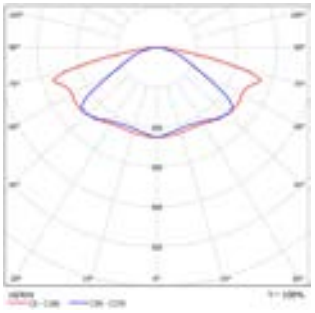
Application areas:

- Main roads
- Roads in residential areas

Technical specifications

	CATENARY LUMINAIRE 171-8
LIGHTING FIXTURES BODY	
Material	Aluminum
Coloring (powder coating)	RAL or DB
Mounting type	2-point mounts through tensioning elements with universal joints
Dimension (length x width x height)	564 x 275 x 105 mm
Weight	approx. 8.5 kg
IP Protection class	IP 65
Area exposed to wind	0.11 m²
Glass type	Impact-resistant PMMA, clear
Shock resistance / impact resistance	IK 08
PHOTOMETRIC PROPERTIES	
Light source type	LED module
Luminous flux	1,000 – 8,000 lm (500 lm steps)
Light technologies	Single lenses
Light distribution	Symmetrical light distribution
ELECTRICAL PROPERTIES	
Protection class	Protection class I / protection class II
Operating voltage / frequency	230 V / 50 Hz
INSTALLATION SUGGESTIONS	
Application areas	Main roads, roads in residential areas
Installation height	4 – 8 m
OTHER PROPERTIES	
Certificates	CE

Optics and light distributions



Wide beam

ECO CIRCLE – MORE EFFICIENCY FOR DESIGN LIGHTING

SIMPLE REPLACEMENT
Ideal for retrofitting
decorative street lamps

PMMA
Polymethylmethacrylate
(plastic)

EFFICIENT LIGHT
Efficient LED light up to 3,000 lm

PLUG & PLAY
Simple installation
and removal

DESIGN
Easily integrates into
existing design luminaires

THERMAL MANAGEMENT
Best thermal management through material
mix and temperature monitoring

OPTIMAL LIGHT CONTROL
For parks and plazas

SAFETY
Protection Class III

HELLUX

CYLINDER LIGHTS

JÜTERBOG 1007

Timeless: A clear design concept underscores both modern and historical architecture

Flexible: Variable application possibilities due to diffuse or clear glass

Reliable: Lifetime of the LED driver and module at 85,000 h

Application areas:

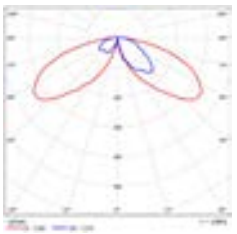
- Roads in residential areas
- Secondary roads
- Plazas
- Walkways

EASY BASIC | BASIC | BASIC+ | SMART

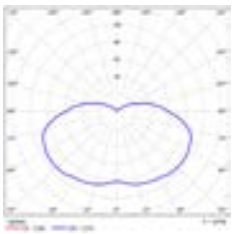
Technical specifications

	JÜTERBOG 1007		JÜTERBOG 1007 CM	
LIGHTING FIXTURES BODY	**DIRECT DISTRIBUTION**	**OPEN DISTRIBUTION**	**BASIC**	**BASIC+ / SMART**
Material	Aluminum (roof) / aluminum die casting (attachment)		Aluminum die casting	
Coloring (powder coating)	RAL or DB		RAL oder DB	
Mounting type	Top-mounted (Ø 76 mm)		Top-mounted (Ø 76 mm)	
Dimensions (height x diameter)	610 mm x Ø 610 mm		610 mm x Ø 610 mm	
Weight	approx. 8.5 kg		approx. 8.5 kg	
Area exposed to wind	0.122 m²		0.122 m²	
IP Protection class	IP54		IP54	
Glass type	PMMA (smooth clear)	PMMA (diffuse)	PMMA (smooth clear)	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs	LED modules with mid-power LEDs	Circle module with high-power LEDs	
Optical system	Asymmetric wide beam or rotational symmetric (Zhaga board)	open distribution (TLS modul)	Rectangular symmetrical or rectangular asymmetrical	
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	2,250 / 3,250 lm (3,000 K) 2,500 / 3,500 lm (4,000 K)	1,500 lm (2,200 K / 2,700 K) / 2,250 lm (4,000 K)	1,000 – 2,000 lm (2,200 K) 1,500 – 2,750 lm (3,000 K) 1,500 – 3,250 lm (4,000 K)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI		Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		–	Optional
ELECTRICAL PROPERTIES				
Protection class	Protection Class I / II		Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 KV		4 KV	10 KV
INSTALLATION SUGGESTIONS				
Application areas	Residential area roads and secondary roads	Plazas, walkways	Parks, plazas, roads in residential areas, pedestrian zones	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	ME / S		ME / S / P	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C bis +35 °C	
OTHER PROPERTIES				
Certificate	CE		CE ENEC 10 VDE EMC	

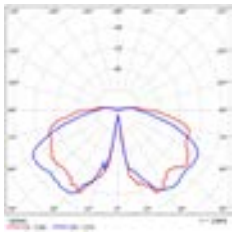
Optics and light distributions



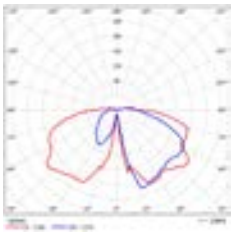
Asymmetric wide beam



Open distribution



symmetrical



asymmetrical

HELLUX

CYLINDER LIGHTS

500 / 501 / 502

Flexible: Variable application possibilities due to diffuse or clear glass

Reliable: Lifetime of the LED driver and LED module at 85,000 h

Other advantages:

- As hanging or top-mounted luminaire
- Clear or frosted luminaire glass

Application areas:

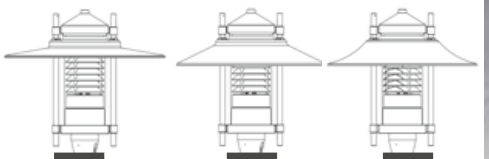
- Roads in residential areas
- Secondary roads
- Plazas
- Walkways

EASY BASIC

BASIC+

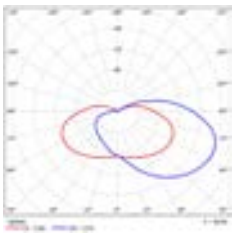
SMART

Technical specifications

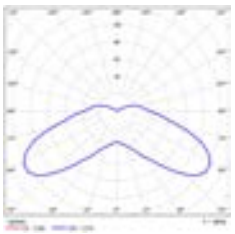


LIGHTING FIXTURES BODY	DIRECT DISTRIBUTION	OPEN DISTRIBUTION	DIRECT DISTRIBUTION	OPEN DISTRIBUTION
Material	Aluminum (roof) / aluminum die casting (attachment)		Aluminum (roof) / aluminum die casting (attachment)	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Top-mounted (Ø 76 mm)		Top-mounted (Ø 76 mm)	
Dimensions (height x diameter)	735 mm x Ø 780 mm / Ø 730 mm		735 mm x Ø 780 mm / Ø 730 mm	
Weight	approx. 8.5 kg		approx. 8.5 kg	
Area exposed to wind	0.195 m² / 0.203 m² / 0.205 m² / 0.173 m²		0,152 m²	
IP Protection class	IP65		IP65	
Glass type	PMMA (smooth clear)	PMMA (diffuse)	PMMA (smooth clear)	PMMA (diffuse)
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED module with high-power LEDs	LED module with mid-power LEDs	LED module with high-power LEDs	LED module with mid-power LEDs
Optical system	Asymmetric wide beam or rotational symmetric (Zhaga board)	open distribution (TLS modul)	Asymmetric wide beam or rotational symmetric	open distribution
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	2,250 / 3,250 lm (3,000 K) 2,500 / 3,500 lm (4,000 K)	1,000 – 2,000 lm (2,200 K) 1,500 – 2,750 lm (3,000 K) 1,500 – 3,250 lm (4,000 K)	
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI		Optional control phase (50 % / 100 %), dimmer profile or DALI	
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Class I / II		Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 kV		6 / 8 kV	
INSTALLATION SUGGESTIONS				
Application areas	Residential area roads and secondary roads	Plazas, walkways	Residential area roads and secondary roads, plazas, walkways	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	M / P	P	M / P	P
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C to +35 °C	
OTHER PROPERTIES				
Certificate	CE		CE	
OPTIONS				
Roof variants in different versions	500-2, 501-2, 502-2		500-2, 501-2, 502-2	

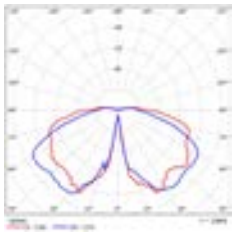
Optics and light distributions



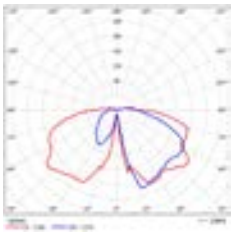
Asymmetric wide beam



symmetrical



symmetrical



asymmetrical

HELLUX

CYLINDER LIGHTS

TEMPUS 538

Timeless: Decorative skylight with modern lighting technology

Easy to maintain: Can be opened tool-free with the cover at the top

Sustainable: Electrocomponents can be removed without the need of tools

Application areas:

- Roads in residential areas
- Secondary roads
- Plazas
- Walkways
- Parks
- Pedestrian zones

EASY BASIC

BASIC

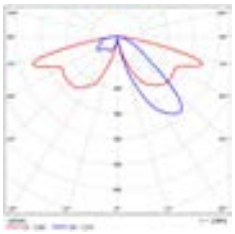
BASIC+

SMART

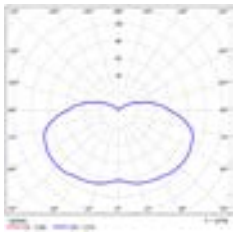
Technical specifications

	538		538 CM	
LIGHTING FIXTURES BODY	**DIRECT DISTRIBUTION**	**OPEN DISTRIBUTION**	**BASIC**	**BASIC+ / SMART**
Material	Aluminum die casting		Aluminum die casting	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Side-mounted (Ø 76 or 60 mm)		Top-mounted (Ø 76 mm)	
Orientation possibilities	–		–	
Dimensions (height x diameter)	640 mm x Ø 531 mm		640 mm x Ø 531 mm	
Weight	8 kg		8 kg	
Area exposed to wind	0.1 m²		0.1 m²	
IP Protection class	IP55		IP55	
Glass type	PMMA (smooth clear)	PMMA (diffuse)	PMMA (smooth clear)	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs		Circle module with high-power LEDs	
Optical system	Asymmetric wide beam or rotational symmetric (Zhaga board)	open distribution (TLS modul)	Rectangular symmetrical or rectangular asymmetrical	
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	2,250 / 3,250 lm (3,000 K) 2,500 / 3,500 lm (4,000 K)	1,500 lm (2,200 / 2,700 K) / 2,000 lm (3,000 K) / 2,250 lm (4,000 K)	1,000 – 2,000 lm (2,200 K) 1,500 – 2,750 lm (3,000 K) 1,500 – 3,250 lm (4,000 K)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI		Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		–	Optional
ELECTRICAL PROPERTIES				
Protection class	Protection Class I / II		Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 KV		4 KV	10 KV
INSTALLATION SUGGESTIONS				
Application areas	Residential area roads and secondary roads	Plazas, walkways	Parks, plazas, roads in residential areas, pedestrian zones	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	ME / S		ME / S / P	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-40 °C to +40 °C	
OTHER PROPERTIES				
Certificate	CE		CE ENEC 10 VDE EMC	

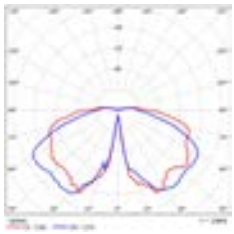
Optics and light distributions



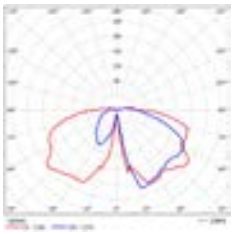
Asymmetric wide beam



open distribution



symmetrical



asymmetrical

HELLUX

CYLINDER LIGHTS

TEMPUS 539

Timeless: Decorative skylight with modern lighting technology

Easy to maintain: Can be opened tool-free with the cover at the top

Sustainable: Electrocomponents can be removed without the need of tools

Application areas:

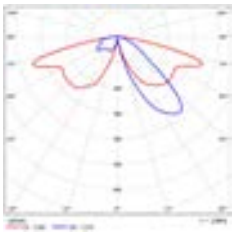
- Roads in residential areas
- Secondary roads
- Walkways
- Parks
- Pedestrian zones

EASY BASIC | BASIC | BASIC+ | SMART

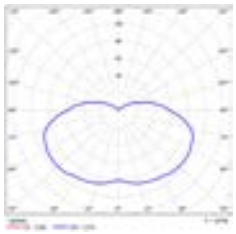
Technical specifications

	539		539 CM	
LIGHTING FIXTURES BODY	**DIRECT DISTRIBUTION**	**OPEN DISTRIBUTION**	**BASIC**	**BASIC+ / SMART**
Material	Aluminum die casting		Aluminum die casting	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Side-mounted (Ø 76 or 60 mm)		Top-mounted (Ø 76 mm)	
Orientation possibilities	–		–	
Dimensions (height x diameter)	710 mm x Ø 205 mm		710 mm x Ø 205 mm	
Weight	6 kg		6 kg	
Area exposed to wind	0.1 m²		0.1 m²	
IP Protection class	IP55		IP55	
Glass type	PMMA (smooth clear)	PMMA (diffuse)	PMMA (smooth clear)	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs		Circle module with high-power LEDs	
Optical system	Asymmetric wide beam or rotational symmetric (Zhaga board)	open distribution (TLS modul)	Rectangular symmetrical or rectangular asymmetrical	
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	2,250 / 3,250 lm (3,000 K) 2,500 / 3,500 lm (4,000 K)	1,500 lm (2,200 K / 2,700 K) / 2,000 lm (3,000 K) / 2,250 lm (4,000 K)	1,500 – 3,250 lm
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI		Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Protection Class I / II		Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 KV		4 KV	10 KV
INSTALLATION SUGGESTIONS				
Application areas	Residential area roads, secondary roads and walkways		Residential area roads, secondary roads and walkways	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	ME / S		ME / S / P	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-40 °C to +40 °C	
OTHER PROPERTIES				
Certificate	CE		CE 10 VDE EMC	

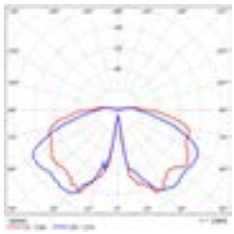
Optics and light distributions



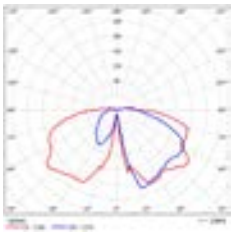
Asymmetric wide beam



open distribution



symmetrical



asymmetrical

HELLUX

BASIC

BASIC+

SMART

CYLINDER LIGHTS

CYLINDER LIGHT C40

Modular LED system with integrated electronics

Maintenance-optimized design

Luminous flux over lifetime 80% after 100,000 operating hours

Symmetrical / asymmetrical light distribution

Fully pre-assembled with connection cable and Eco Circle module

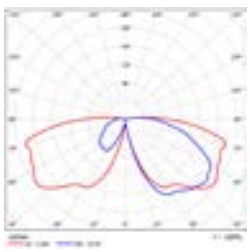
Application areas:

- Parks
- Plazas
- Roads in residential areas
- Pedestrian zones

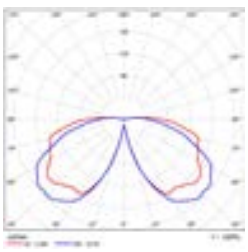
Technical specifications

	CYLINDER LIGHT C40	
LIGHTING FIXTURES BODY	**BASIC**	**BASIC+ / SMART**
Material	Luminaire base made of die-cast aluminum, screen and cover made of aluminum, cover lens made of PMMA	
Coloring (powder coating)	DB703	
Mounting type	76 mm spigot size, reduction part 60 mm	
Dimensions (height x diameter)	536 mm x Ø 580 mm	
Weight	8 kg	
Area exposed to wind	0.12 m²	
IP Protection class	IP65	
Glass type	PMMA	
Shock resistance / impact resistance	IK04	
PHOTOMETRIC PROPERTIES		
Light source type	1 Circle module with 14 LEDs	
Optical system	Rectangular symmetrical or rectangular asymmetrical	
Rated luminous flux	1,500 lm (2,200 K / 2,700 K) / 2,000 lm (3,000 K) / 2,250 lm (4,000 K)	1,000 – 2,000 lm (2,200 K) 1,500 – 3,000 lm (3,000 K) 1,500 – 3,250 lm (4,000 K)
Dimming (Power control)	Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓	
Constant Light Output (CLO)	–	Optional
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N)	4 kV	6 kV
INSTALLATION SUGGESTIONS		
Application areas	Parks, plazas, roads in residential areas, pedestrian zones	
Installation height	3 – 5 m	
Lighting classes	S / P	
Admitted ambient temperature (ta)	-40 °C to +40 °C	
OTHER PROPERTIES		
Certificate (Module)	CE ENEC 10 VDE EMC	

Optics and light distributions



asymmetrical



symmetrical

HELLUX

CYLINDER LIGHTS

CITYLINE

Modular LED system with integrated electronics

Maintenance-optimized design

Luminous flux over lifetime 80 % after 100,000 operating hours

Symmetrical / asymmetrical light distribution

Fully pre-assembled with connection cable and Eco Circle module

Application areas:

- Parks
- Plazas
- Roads in residential areas
- Pedestrian zones

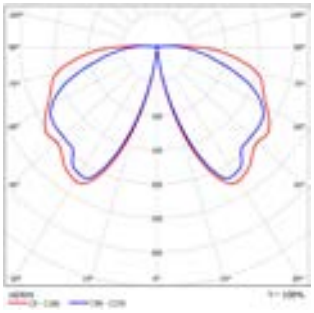
EASY BASIC | BASIC | BASIC+ | SMART

Technical specifications

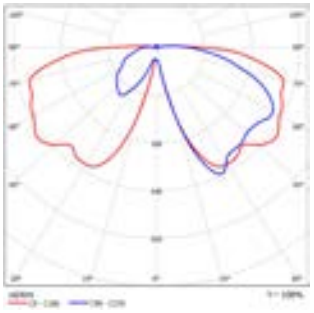
CITYLINE

LIGHTING FIXTURES BODY	BASIC	BASIC+ / SMART
Material	Luminaire base made of die-cast aluminum, aluminum housing stanchion, aluminum shade and cover	
Coloring (powder coating)	similar to DB703	
Mounting type	60 / 76 mm spigot size	
Dimensions (height x diameter)	650 mm x Ø 465 mm	
Weight	8.5 kg	
Area exposed to wind	0.08 m²	
IP Protection class	IP55	
Glass type	Plexiglass XT	
PHOTOMETRIC PROPERTIES		
Light source type	Circle module with high-power LEDs	
Optical system	Rectangular symmetrical or rectangular asymmetrical	
Rated luminous flux	1,500 lm (2,200 K / 2,700 K) / 1,750 lm (3,000 K) / 2,000 lm (4,000 K)	1,000 – 2,000 lm (2,200 K) 1,500 – 2,750 lm (3,000 K) 1,500 – 3,250 lm (4,000 K)
Dimming (Power control)	Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓	
Constant Light Output (CLO)	–	Optional
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N)	4 KV	6 KV
INSTALLATION SUGGESTIONS		
Application areas	Parks, plazas, roads in residential areas, pedestrian zones	
Installation height	3 – 5 m	
Lighting classes	ME / S / P	
Admitted ambient temperature (ta)	-40 °C to +40 °C	
OTHER PROPERTIES		
Certificate (Module)	CE 10 VDE EMC	

Optics and light distributions



symmetrical



asymmetrical

HELLUX

CYLINDER LIGHTS

545 / 546

Easy to maintain: Can be opened tool-free with the cover at the top

Sustainable: Electrocomponents can be removed without the need of tools

Other advantages:

- Symmetrical / asymmetrical light distribution

Application areas:

- Roads in residential areas
- Secondary roads
- Plazas
- Walkways

EASY BASIC

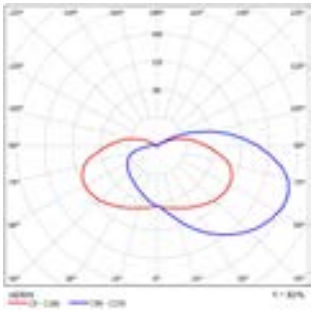
BASIC+

SMART

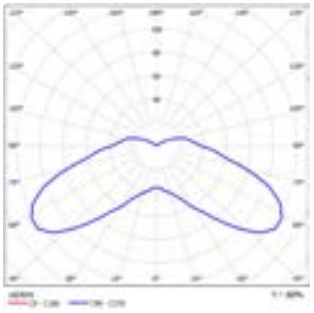
Technical specifications

LIGHTING FIXTURES BODY	DIRECT DISTRIBUTION	OPEN DISTRIBUTION	DIRECT DISTRIBUTION	OPEN DISTRIBUTION
Material	Aluminum (roof) / aluminum die casting		Aluminum (roof) / aluminum die casting	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Top-mounted (Ø 76 mm)		Top-mounted (Ø 76 mm)	
Orientation possibilities	–		–	
Dimensions (height x diameter)	555 mm x Ø 650 mm		605 mm x Ø 650 mm	
Weight	approx. 12 kg		approx. 12.1 kg	
Area exposed to wind	0.15 m²		0.15 m²	
IP Protection class	IP65		IP65	
Glass type	PMMA (smooth clear)	PMMA (opal)	PMMA (smooth clear)	PMMA (opal)
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs (Zhaga board)	LED modules with mid-power LEDs (TLS modul)	LED modules with high-power LEDs (Zhaga board)	LED modules with mid-power LEDs (TLS modul)
Optical system	Asymmetric wide beam / rotational symmetric	open distribution	Asymmetric wide beam / rotational symmetric	open distribution
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	2,250 / 3,250 lm (3.000 K) 2,500 / 3,500 lm (4.000 K)	1,000 – 3,500 lm (250 lm steps)	2,250 / 3,250 lm (3.000 K) 2,500 / 3,500 lm (4.000 K)
Dimming (Power control)	Optional control phase (50 % / 100 %), Dimmer profile or DALI		Optional control phase (50 % / 100 %), Dimmer profile or DALI	
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Class I / II		Class I / II	
Rated voltage / operating voltage	220 – 240 V/ 50 – 60 Hz		220 – 240 V/ 50 – 60 Hz	
Surge protection	10 kV		10 kV	
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, parking facilities/ walkways, parking areas, secondary roads		Roads in residential areas, parking facilities/ walkways, parking areas, secondary roads	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	M / S	S	M / S	S
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C to +35 °C	
OTHER PROPERTIES				
Certificate	CE		CE	

Optics and light distributions for all variants

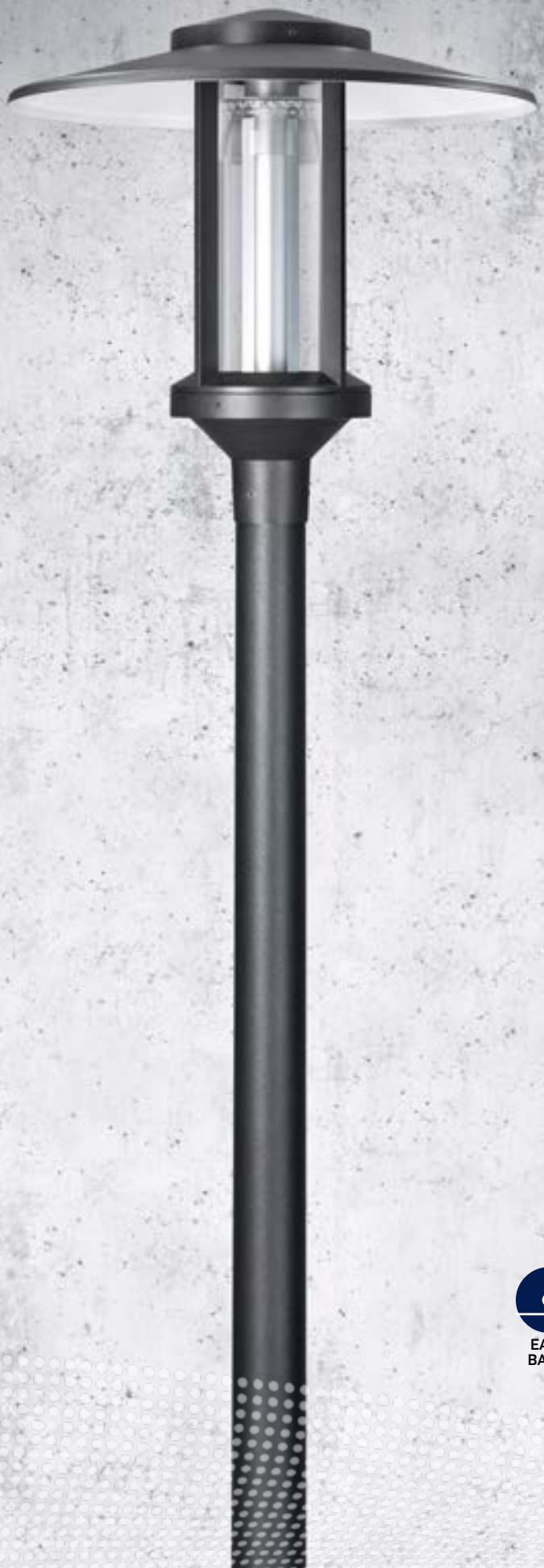


Asymmetric wide beam



symmetrical

HELLUX



EASY BASIC

BASIC+

SMART

CYLINDER LIGHTS

SHADE

Modular LED system with integrated electronics

Maintenance-optimized design

Luminous flux over lifetime 80% after 100,000 operating hours

Symmetrical / asymmetrical light distribution

Fully pre-assembled with connection cable and Eco Circle module

Other advantages:

- Average lifetime: 100,000 operating hours
- Replacement part availability of at least 20 years
- Integrated overheating protection
- Development and production in Germany

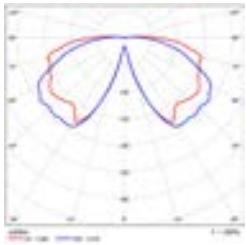
Application areas:

- Parks
- Plazas
- Roads in residential areas
- Pedestrian zones

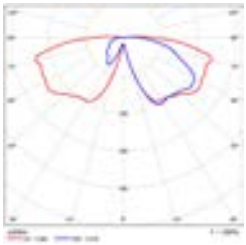
Technical specifications

	SHADE	
LIGHTING FIXTURES BODY	**BASIC**	**BASIC+ / SMART**
Material	Luminaire base made of die-cast aluminum, aluminum housing stanchion, aluminum shade and cover, cover lens made of PMMA	
Coloring (powder coating)	DB703	
Mounting type	76 mm spigot size	
Dimensions (height x diameter)	650 mm x Ø 425 mm	
Weight	8.5 kg	
IP Protection class	IP65	
Glass type	PMMA	
PHOTOMETRIC PROPERTIES		
Light source type	Circle module with high-power LEDs	
Optical system	Rectangular symmetrical or rectangular asymmetrical	
Rated luminous flux	1,500 lm (2,200 / 2,700 K) 1,750 lm (3,000 K) 2,000 lm (4,000 K)	1,000 – 2,000 lm (2,200 K) 1,500 – 2,750 lm (3,000 K) 1,500 – 3,000 lm (4,000 K)
Dimming (Power control)	Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓	
Constant Light Output (CLO)	–	Optional
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N)	4 KV	10 KV
INSTALLATION SUGGESTIONS		
Application areas	Parks, plazas, roads in residential areas, pedestrian zones	
Installation height	3 – 5 m	
Lighting classes	S / P	
Admitted ambient temperature (ta)	-40 °C to +40 °C	
OTHER PROPERTIES		
Certificate (Module)	CE ENEC 10 VDE EMC	

Optics and light distributions



symmetrical



asymmetrical

HELLUX

SPHERE LIGHTS

MOON

Modular LED system with integrated electronics

Technology guarantee

Adapted to lighting classes S6 to S5

Luminous flux over lifetime 80% after 100,000 operating hours

Optionally with clear or white matt luminaire sphere

Other advantages:

- Average lifetime: 100,000 operating hours
- Replacement part availability of at least 20 years
- Modular light distribution
- Fully preassembled with connection cable and module
- Integrated overheating protection
- Maintenance-optimized design

Application areas:

- Parks
- Plazas
- Roads in residential areas
- Pedestrian zones

BASIC BASIC+ SMART

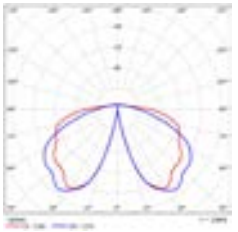
Technical specifications

MOON

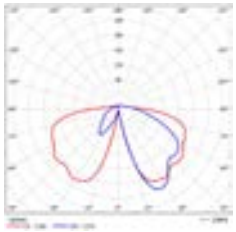
LIGHTING FIXTURES BODY	BASIC	BASIC+ / SMART
Material	Luminaire sphere made of PC (clear or matt), mast base made of PC	
Coloring (mast foot)	RAL 9005 (black)	
Mounting type	60 / 76 mm spigot size	
Orientation possibilities	–	
Dimension	Sphere diameter: 400 / 450 / 500 mm	
Weight	3.5 – 4 kg	
IP Protection class	IP67	
Glass type	PC (clear or frosted)	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	Circle module with high-power LEDs	
Optical system	Rectangular symmetrical or rectangular asymmetrical	
Rated luminous flux	1,750 lm (2,200 K / 2,700 K) / 2,000 lm (3,000 K) / 2,250 lm (4,000 K)	1,000 – 2,250 lm (2,200 K) 1,500 – 3,250 lm (3,000 K) 1,500 – 3,500 lm (4,000 K)
Dimming (Power control)	Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓	
Constant Light Output (CLO)	–	Optional
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N)	4 KV	10 KV
INSTALLATION SUGGESTIONS		
Application areas	Parks, plazas, roads in residential areas, pedestrian zones	
Installation height	3 – 5 m	
Lighting classes	S / P	
Admitted ambient temperature (ta)	-40 °C to +40 °C	
OTHER PROPERTIES		
Certificate (Module)	CE ENEC 10 VDE EMC	

VERSION	CLEAR	FROSTED

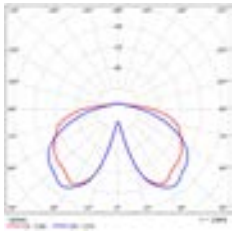
Optics and light distributions



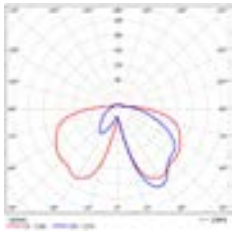
symmetrical



asymmetrical



symmetrical



asymmetrical

HELLUX

SPHERE LIGHTS

240 / 241-7

Holistic: Unified design of the product family for your various applications

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and LED modules at 85.000 h

Economical: Equipment of the proven lighting fixtures body with the latest LED technology

Other advantages:

- Timeless: A clear design concept underscores both modern and historical architecture
- Versatile: Suitable for technical and decorative lighting

Application areas:

- Roads in residential areas
- Plazas
- Parking areas
- Secondary roads

EASY BASIC | BASIC | BASIC+ | SMART

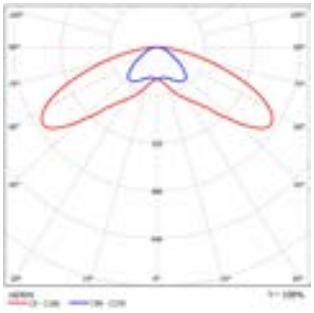
Technical specifications

240

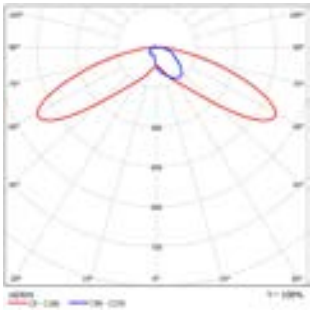
241-7

	240	241-7
LIGHTING FIXTURES BODY		
Material	Aluminum die casting	Aluminum die casting
Coloring (powder coating)	RAL or DB	RAL or DB
Mounting type	Rope mounting / tapered mounting (K-G ½)	Rope mounting / tapered mounting (K-G ½)
Orientation possibilities	–	–
Dimensions (height x diameter)	390 x Ø 395 mm	500 x Ø 560 mm
Weight	8.5 kg	10 kg
Area exposed to wind	0.13 m²	0.196 m²
IP Protection class	IP65	IP65
Glass type	PMMA (smooth clear)	PMMA (smooth clear)
Shock resistance / impact resistance	IK08	IK08
PHOTOMETRIC PROPERTIES		
Light source type	LED modules with high-power LEDs	LED modules with high-power LEDs
Optical system	Asymmetrical wide beam or asymmetrical forward beam	Asymmetrical wide beam or asymmetrical forward beam
Rated luminous flux	1,000 – 2,500 lm (250 lm steps)	2x (1,000 – 2,500) lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓	✓
Constant Light Output (CLO)	Optional	Optional
ELECTRICAL PROPERTIES		
Protection class	Protection Class I / II	Protection Class I / II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz
Surge protection (L-N / L|N ground)	6 / 8 kV	6 / 8 kV
INSTALLATION SUGGESTIONS		
Application areas	Roads in residential areas, plazas, parking areas, secondary roads	Roads in residential areas, plazas, parking areas, secondary roads
Installation height	3 – 5 m	5 – 8 m
Lighting classes	M / S	M / S
Admitted ambient temperature (ta)	-25 °C to +35 °C	-25 °C to +35 °C
OTHER PROPERTIES		
Certificate	CE	CE
OPTIONS		
Optional surge protection	10 kV	10 kV

Optics and light distributions for all variants



Wide beam



Asymmetric wide beam

HELLUX

MUSHROOM LIGHTS

MUSHROOM 401-5

Economical: Conversion of the proven lighting fixtures body with the latest LED technology

Easy to maintain: Can be opened tool-free upwards with the roof retaining screw

Flexible: Variable application possibilities due to diffuse or clear glass

Sustainable: Replacement part availability of at least 20 years (circle module)

Application areas:

- Roads in residential areas
- Secondary roads
- Plazas
- Walkways
- Parks
- Pedestrian zones

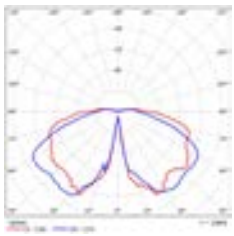
EASY BASIC | BASIC | BASIC+ | SMART

Technical specifications

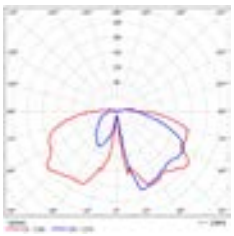
LIGHTING FIXTURES BODY	MUSHROOM 401-5 DIRECT DISTRIBUTION	MUSHROOM 401-5 OPEN DISTRIBUTION	MUSHROOM 401-5 CM BASIC	MUSHROOM 401-5 CM BASIC+ / SMART
Material	Aluminum die-cast (top section) / aluminum (roof)		Aluminum die-cast (top section) / aluminum (roof)	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Top-mounted		Top-mounted Ø 76 mm	
Orientation possibilities	–		–	
Dimensions (height x diameter)	535 x Ø 640 mm		535 x Ø 640 mm	
Weight	8 kg		7.5 kg	
Area exposed to wind	0.14 m²		0.14 m²	
IP Protection class	IP54		IP54	
Glass type	PMMA (smooth clear)	PMMA (diffuse)	PMMA (smooth clear)	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs		Circle module with high-power LEDs	
Optical system	Asymmetric wide beam or rotational symmetric (Zhaga board)	open distribution (TLS modul)	Rectangular symmetrical or rectangular asymmetric	
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	2,250 / 3,250 lm (3,000 K) 2,500 / 3,500 lm (4,000 K)	1,500 lm (2,200 / 2,700 K) / 2,000 lm (3,000 K) / 2,250 lm (4,000 K)	1,000 – 2,000 lm (2,200 K) 1,500 – 2,750 lm (3,000 K) 1,500 – 3,250 lm (4,000 K)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI		Control phase (50 % / 100 %)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		–	Optional
ELECTRICAL PROPERTIES				
Protection class	Protection Class I / II		Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 KV		4 KV	10 KV
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, parking facilities / walkways, parking areas, secondary roads		Roads in residential areas, parking facilities / walkways, parking areas, secondary roads	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	ME / S	S	ME / S / P	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-40 °C to +40 °C	
OTHER PROPERTIES				
Certificate	CE		CE	

Optics and light distributions

Open distribution



symmetrical



asymmetrical

HELLUX

EASY
BASIC

MUSHROOM LIGHTS

KONUS 740

Unique: protected design!

Awarded: Red Dot Design Award

Representative: Particularly suitable for prestigious architectural environments

Quality "Made in Germany": High quality materials, high-end finishing

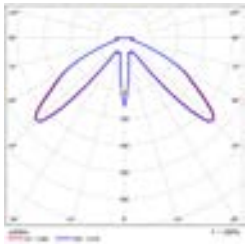
Application areas:

- Plazas
- Parking facilities
- Walkways
- Pedestrian zones

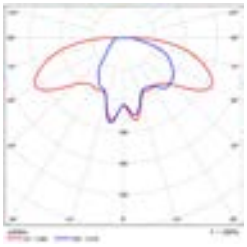
Technical specifications

	KONUS 740	
LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	RAL or DB	
Mounting type	Top-mounted (120 or 76 mm)	
Dimensions (height x diameter)	696 x Ø 512 mm	
Weight	approx. 9.5 kg	
Area exposed to wind	0.25 m²	
IP Protection class	IP65 (light head), IP54 (electrical unit)	
Glass type	PMMA (smooth clear)	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	COB LED module	
Optical system	Asymmetrical light distribution	Rotationally-symmetrical light distribution
Rated luminous flux	1,000 – 2,000 lm	
ELECTRICAL PROPERTIES		
Protection class	Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N / L|N ground)	2 kV	
INSTALLATION SUGGESTIONS		
Application areas	Pedestrian zones, parking facilities, walkways, plazas	
Installation height	3 – 5 m	
Admitted ambient temperature (ta)	-25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE	
OPTIONS		
Adapter at Ø 60 mm	✓	

Optics and light distributions



Indirect open illumination



Asymmetric wide beam

HELLUX

EASY
BASIC

MUSHROOM LIGHTS

417-2

Low-glare: Reduce glare by fine-textured glass

Easy to maintain: Can be opened without tools with the roof locking screw

Reliable: Lifetime of the LED driver and LED module at 85,000 h

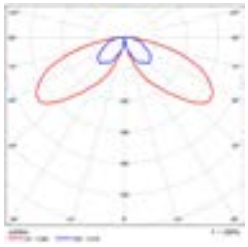
Application areas:

- Roads in residential areas
- Plazas
- Parks and walkways

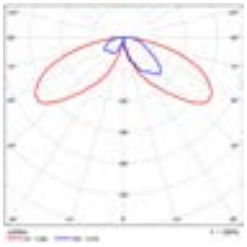
Technical specifications

	417-2
LIGHTING FIXTURES BODY	
Material	Aluminum (roof) / aluminum die casting (attachment)
Coloring (powder coating)	RAL or DB
Mounting type	Top-mounted (Ø 76 mm)
Dimensions (height x diameter)	380 x Ø 610 mm
Weight	approx. 7 kg
Area exposed to wind	0.136 m²
IP Protection class	IP65
Glass type	PC
Shock resistance / impact resistance	IK08
PHOTOMETRIC PROPERTIES	
Light source type	LED modules with high-power LEDs
Optical system	Asymmetrical wide and free-radiant light distribution (Zhaga board)
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %) dimmer profile or DALI
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTIES	
Protection class	Class I / II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
Surge protection	10 kV
INSTALLATION SUGGESTIONS	
Application areas	Roads in residential areas, squares, parking facilities and paths
Installation height	3 – 5 m
Lighting classes	ME / S
Admitted ambient temperature (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE

Optics and light distributions



symmetrical



Asymmetric wide beam

HELLUX

EASY BASIC

BASIC

BASIC+

SMART

SHADED LIGHTING

CLASSICA 028

Economical: Equipment of the proven lighting fixtures body with the latest LED technology

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and LED modules at 85.000 h

Individually: Mounting on different decorative mast extensions

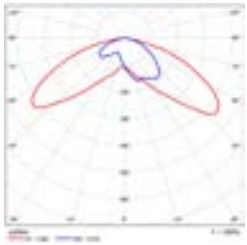
Application areas:

- Roads in residential areas
- Bikeways
- Plazas
- Parks and walkways

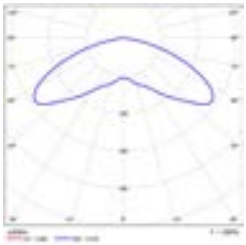
Technical specifications

	CLASSICA 028	
LIGHTING FIXTURES BODY		
Material	Aluminum	
Coloring (powder coating)	RAL or DB	
Mounting type	Tapered mounting (K-G ½)	
Orientation possibilities	–	
Dimensions (height x diameter)	450 x Ø 550 mm	
Weight	approx. 6 kg	
Area exposed to wind	0.093 m²	
IP Protection class	IP55	
Glass type	PMMA (smooth clear)	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	LED modules with high-power LEDs	
Optical system	Asymmetrical wide beam	Wide beam
Rated luminous flux	1,000 – 3,000 lm (250 lm steps)	
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTIES		
Protection class	Protection Class I or Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection	10 kV	
INSTALLATION SUGGESTIONS		
Application areas	Roads in residential areas, bikeways, plazas	
Installation height	3 – 5 m	
Lighting classes	ME / S	
Admitted ambient temperature (ta)	-25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE	

Optics and light distributions



Asymmetric wide beam



Wide beam

HELLUX

SHADED LIGHTING

030 / 031 / 032 / 033

Economical: Equipment of the proven lighting fixtures body with the latest LED technology

Sustainable: Tool-free change of electronic and LED modules

Reliable: Lifetime of the LED driver and LED modules at 85.000 h

Timeless: Decorative skylight with modern lighting technology (032 and 033 only)

Application areas:

- Roads in residential areas
- Plazas
- Bikeways
- Secondary roads

EASY BASIC BASIC BASIC+ SMART

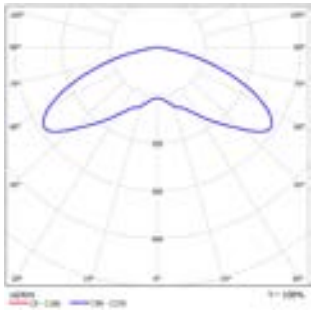
SHADED LIGHTING

03X

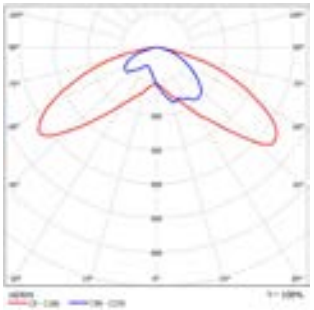
Technical specifications

LIGHTING FIXTURES BODY				
Material	Aluminum die casting (dome) / aluminum (shade)			
Coloring (powder coating)	RAL or DB			
Mounting type	Tapered mounting (K-G 3/8)			
Orientation possibilities	–			
Dimensions (height x diameter)	520 x Ø 530 mm		520 x Ø 590 mm	
Weight	approx. 5.5 kg			
Area exposed to wind	0.11 m²			
IP Protection class	IP54			
Glass type	PMMA (smooth clear)			
Shock resistance / impact resistance	IK08			
PHOTOMETRIC PROPERTIES				
Light source type	LED modules with high-power LEDs			
Optical system	Asymmetrical wide beam	Wide beam	Asymmetrical wide beam	Wide beam
Rated luminous flux	1,000 – 3,000 lm (250 lm steps)			
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI			
Temperature management	✓			
Constant Light Output (CLO)	Optional			
ELECTRICAL PROPERTY				
Protection class	Protection Class I / II			
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz			
Surge protection (L-N / L|N ground)	6 / 8 kV			
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, plazas, bikeways			
Installation height	3 – 5 m			
Lighting classes	ME / S			
Admitted ambient temperature (ta)	-25 °C to +35 °C			
OTHER PROPERTIES				
Certificate	CE			
OPTIONS				
Optional surge protection	10 kV			

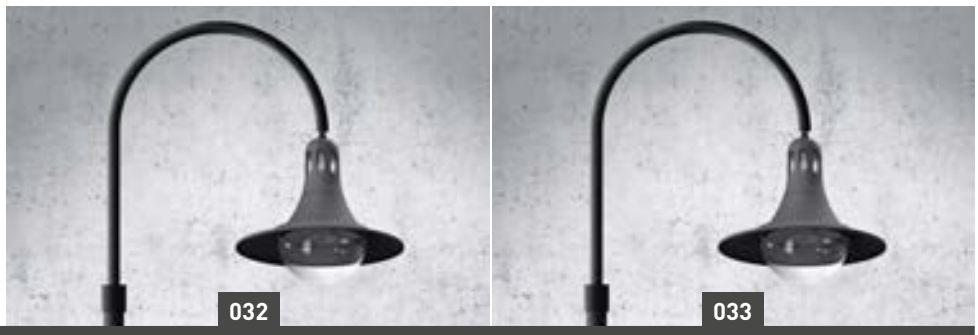
Optics and light distributions for all variants



Wide beam

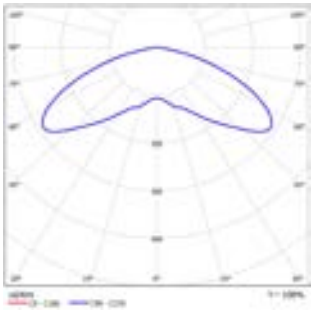


Asymmetric wide beam

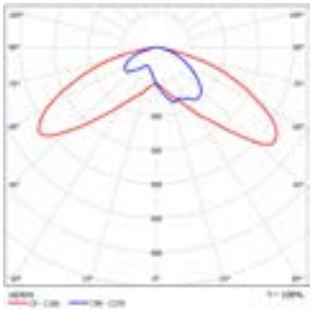


LIGHTING FIXTURES BODY		
Material	Aluminum die casting (dome) / aluminum (shade)	
Coloring (powder coating)	RAL or DB	
Mounting type	Tapered mounting (K-G ½)	
Orientation possibilities	–	
Dimensions (height x diameter)	770 x Ø 750 mm	640 x Ø 530 mm
Weight	approx. 10 kg	
Area exposed to wind	0.195 m²	
IP Protection class	IP54	
Glass type	PMMA (smooth clear)	PMMA (smooth clear or textured)
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	LED modules with high-power LEDs	
Optical system	Asymmetrical wide beam or wide beam	Asymmetrical wide beam or wide beam
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTY		
Protection class	Protection Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection	10 kV	
INSTALLATION SUGGESTIONS		
Application areas	Roads in residential areas, bikeways, plazas	
Installation height	3 – 5 m	
Lighting classes	M / S	
Admitted ambient temperature (ta)	-25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE	

Optics and light distributions for all variants



Wide beam



Asymmetric wide beam

HELLUX

HISTORICAL LIGHTING

SCHINKEL LANTERN 465

True to detail: Historic lamp with the latest LED technology

Flexible: State-of-the-art lighting solutions make it versatile

Easy to maintain: low to no maintenance required

Application areas:

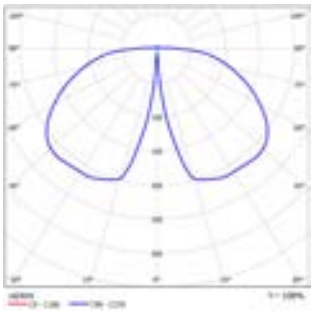
- Roads in residential areas
- Historical places
- Parking facilities

EASY BASIC | BASIC | BASIC+ | SMART

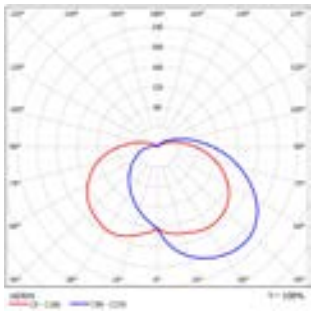
Technical specifications

	SCHINKEL LANTERN 465	
LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	RAL or DB	
Mounting type	Top-mounted (Ø 76 mm) / antique cast mast	
Orientation possibilities	–	
Dimensions (height x max width)	1,140 x 600 mm	
Weight	approx. 14.5 kg	
Area exposed to wind	0.275 m²	
IP Protection class	IP54	
Glass type	PMMA (smooth clear / textured / opal)	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	Gas-fueled imitation with mid-power LEDs	LED modules with high-power LEDs
Optical system	Rotational symmetric	Asymmetrical wide beam
Rated luminous flux	1,000 – 2,500 lm (250 lm steps)	1,000 – 3,500 lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTIES		
Protection class	Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection	10 kV	
INSTALLATION SUGGESTIONS		
Application areas	Roads in residential areas, historical sites, parking facilities	
Installation height	3 – 5 m	
Admitted ambient temperature (ta)	-25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE	

Optics and light distributions



symmetrical



Asymmetric wide beam

HELLUX

HISTORICAL LIGHTING

ALT-BERLIN 9000

True to detail: Historic lamp with the latest LED technology

Flexible: State-of-the-art lighting solutions make it versatile

Economical: 90% energy saving compared to a conventional gas luminaire

Easy to maintain: Easy maintenance through top cap

Application areas:

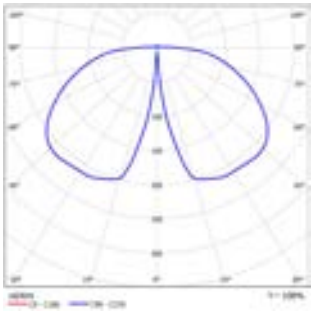
- Roads in residential areas
- Secondary roads
- Historical places
- Parking facilities

EASY BASIC | BASIC | BASIC+ | SMART | SMART+

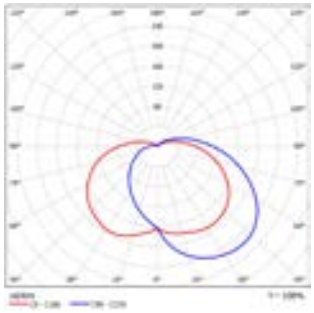
Technical specifications

	ALT-BERLIN 9000	
LIGHTING FIXTURES BODY		
Material	Cast aluminum (body), aluminum (roof)	
Coloring (powder coating)	RAL or DB	
Mounting type	Mast attachment (60 mm / 76 mm) with ladder (cast mast)	
Dimensions (height x diameter)	840 x Ø 417 mm	
Weight	approx. 14 kg	
Area exposed to wind	0.385 m²	
IP Protection class	IP54	
Glass type	PC (smooth clear or textured)	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	Gas-fueled imitation with mid-power LEDs	LED modules with high-power LEDs
Optical system	Rotational symmetric	Asymmetric wide beam
Rated luminous flux	900 – 2,500 lm (250 lm steps)	1,000 – 3,000 lm (250 lm steps)
Dimming (Power control)	–	Optional control phase (50 % / 100 %), Dimmer profile or DALI
Temperature management	–	✓
Constant Light Output (CLO)	–	Optional
ELECTRICAL PROPERTIES		
Protection class	Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N / L|N ground)	6 / 8 kV	
INSTALLATION SUGGESTIONS		
Application areas	Residential area roads and secondary roads, historic sites, parking facilities	
Installation height	2.8 – 4 m	
Admitted ambient temperature (ta)	-25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE	

Optics and light distributions



symmetrical



Asymmetric wide beam

HELLUX

EASY BASIC

BASIC

BASIC+

SMART

HISTORICAL LIGHTING

GAS LIGHTING 9650

True to detail: Reproduction of the old incandescent gas mantle lighting with the latest LED technology

Economical: 90% energy saving compared to a conventional gas luminaire

Service-friendly: low to no maintenance

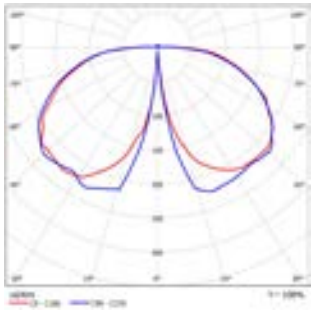
Application areas:

- Roads in residential areas
- Historical places

Technical specifications

	LED GAS LIGHTING 9650
LIGHTING FIXTURES BODY	
Material	Aluminum, hot-dip galvanized steel, stainless steel
Coloring (powder coating)	RAL or DB
Mounting type	Top-mounted (76 mm)
Dimensions (height x diameter)	840 x Ø 420 mm
Weight	approx. 8.5 kg
Area exposed to wind	0.13 m²
IP Protection class	IP54 / IP65 (LED unit)
Glass type	Real glass
PHOTOMETRIC PROPERTIES	
Light source type	Gas-fueled imitation with mid-power LEDs
Optical system	Symmetrical light distribution
Rated luminous flux	900 – 2,500 lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTIES	
Protection class	Class I / II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
Surge protection (L-N / L|N ground)	6 kV
INSTALLATION SUGGESTIONS	
Application areas	Roads in residential areas, historic sites
Installation height	2.5 – 4 m
Lighting classes	S
Admitted ambient temperature (ta)	-25 °C to +25 °C
OTHER PROPERTIES	
Certificate	CE
OPTIONS	
Optional surge protection	10 kV

Optics and light distributions



HELLUX

HISTORICAL LIGHTING

451 / 452 / 455 / 456

True to detail: Historic lamp with the latest LED technology

Easy to maintain: Little to no maintenance required

Other advantages:

- Luminaire series in four sizes
- Luminaire cover folds up
- Symmetrical or asymmetrical light distribution

Application areas:

- Roads in residential areas
- Historical places
- Parking facilities

EASY BASIC BASIC+ SMART

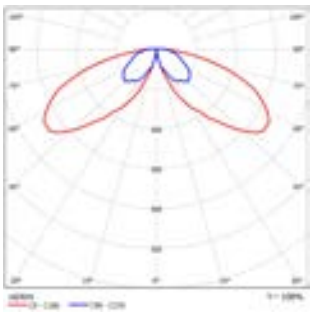
HISTORICAL LIGHTING

45X

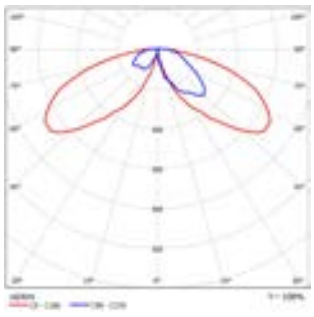
Technical specifications

LIGHTING FIXTURES BODY				
Material	Aluminum and cast aluminum		Aluminum and cast aluminum	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Top-mounted (Ø 76 mm) / antique cast mast		Top-mounted (Ø 76 mm) / antique cast mast	
Orientation possibilities	–		–	
Dimensions (length x width x height)	450 x 450 x 620 mm		450 x 450 x 710 mm	
Weight	approx. 10 kg		approx. 10 kg	
Area exposed to wind	0.22 m²		0.22 m²	
IP Protection class	IP54		IP54	
Glass type	PMMA (smooth clear / textured / opal)		PMMA (smooth clear / textured / opal)	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	Gas-fueled imitation with mid-power LEDs	LED modules with high-power LEDs	Incandescent mantle light imitation with mid-power LEDs	LED modules with high-power LEDs
Optical system	Rotational symmetric	Asymmetrical wide beam	Rotational symmetric	Asymmetrical wide beam
Rated luminous flux	1,000 – 2,500 lm (250 lm steps)	1,000 – 3,500 lm (250 lm steps)	1,000 – 2,500 lm (250 lm steps)	1,000 – 3,500 lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), Dimmer profile or DALI		Optional control phase (50 % / 100 %), Dimmer profile or DALI	
Temperature management	✓		✓	
Constant Light Output (CLO)	✓		✓	
ELECTRICAL PROPERTIES				
Protection class	Class I / II		Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 kV		10 kV	
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, historical sites, parking facilities		Roads in residential areas, historical sites, parking facilities	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	S		S	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C to +35 °C	
OTHER PROPERTIES				
Certificate	CE		CE	

Optics and light distributions for all variants



symmetrical



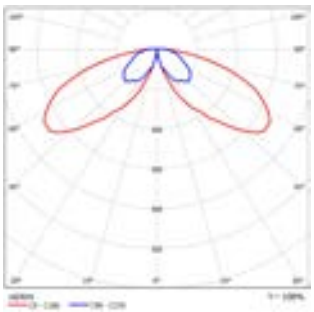
Asymmetric wide beam

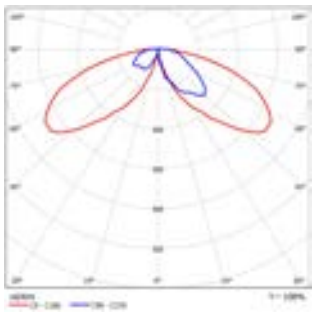

455


456

	455		456	
LIGHTING FIXTURES BODY				
Material	Aluminum		Aluminum	
Coloring (powder coating)	RAL or DB		RAL or DB	
Mounting type	Top-mounted (Ø 76 mm) / antique cast mast		Top-mounted (Ø 76 mm) / antique cast mast	
Orientation possibilities	–		–	
Dimensions (length x width x height)	450 x 450 x 970 mm		450 x 450 x 795 mm	
Weight	approx. 10 kg		approx. 10 kg	
Area exposed to wind	0.22 m²		0.22 m²	
IP Protection class	IP54		IP54	
Glass type	PMMA (smooth clear / textured / opal)		PMMA (smooth clear / textured / opal)	
Shock resistance / impact resistance	IK08		IK08	
PHOTOMETRIC PROPERTIES				
Light source type	Incandescent mantle light imitation with mid-power LEDs	LED modules with high-power LEDs	Incandescent mantle light imitation with mid-power LEDs	LED modules with high-power LEDs
Optical system	Rotational symmetric	Asymmetrical wide beam	Rotational symmetric	Asymmetrical wide beam
Rated luminous flux	1,000 – 2,500 lm (250 lm steps)	1,000 – 3,500 lm (250 lm steps)	1,000 – 2,500 lm (250 lm steps)	1,000 – 3,500 lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), Dimmer profile or DALI		Optional control phase (50 % / 100 %), Dimmer profile or DALI	
Temperature management	✓		✓	
Constant Light Output (CLO)	Optional		Optional	
ELECTRICAL PROPERTIES				
Protection class	Class I / II		Class I / II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		220 – 240 V / 50 – 60 Hz	
Surge protection	10 kV		10 kV	
INSTALLATION SUGGESTIONS				
Application areas	Roads in residential areas, historical sites, parking facilities		Roads in residential areas, historical sites, parking facilities	
Installation height	3 – 5 m		3 – 5 m	
Lighting classes	S		S	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C to +35 °C	
OTHER PROPERTIES				
Certificate	CE		CE	

Optics and light distributions for all variants


symmetrical


Asymmetric wide beam

HELLUX

BOLLARD MAST LIGHTS

CUBELINE

Innovative: Modular LED system with integrated electronics

Flexible: Intelligent interface control possible

Safe investment: Sustainable concept with technology guarantee

Durable: Luminous flux over lifetime 80% after 100,000 operating hours

Sustainable: Replacement part availability of at least 20 years

Other advantages:

- Equipment with Eco LED modules
- Aligned to light classes S5 to S2 and ME6 to ME4
- Completely preassembled with connection cables and modules
- Development and production in Germany

Application areas:

- Parks
- Plazas

BASIC BASIC+ SMART

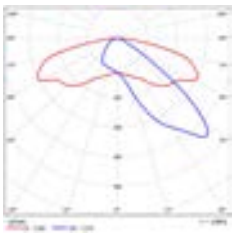
Technical specifications

LIGHTING FIXTURES BODY		
Material	Extruded aluminum profile	
Coloring (powder coating)	RAL or DB 703	
Mounting type	Mounting with flange plate	
Orientation possibilities	–	
IP Protection class	IP67 / IP69 K	
Glass type	PMMA	
Shock resistance / impact resistance	IK04 / IK05 / IK08	
PHOTOMETRIC PROPERTIES		
Light source type	1 luminaire head with one Eco module	2 luminaire heads with one Eco module each
Optical system	PMMA individual optics	
Rated luminous flux	600 / 800 / 1,250 / 1,700 / 2,500 / 3,000 / 3,500 / 4,000 / 4,500 / 5,000 lm	1,200 / 1,600 / 2,500 / 3,400 / 5,000 / 6,000 / 7,000 / 8,000 / 9,000 / 10,000 lm
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile, 1 – 10 Volt or DALI	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
Surge protection (L-N)	6 kV / 10 KV	
INSTALLATION SUGGESTIONS		
Application areas	Parks, plazas	
Installation height	4 – 5 m	
Lighting classes	S	
Admitted ambient temperature (ta)	-40 °C to +40 °C	
OTHER PROPERTIES		
Certificate	CE A A+ A++	

Optics and light distributions

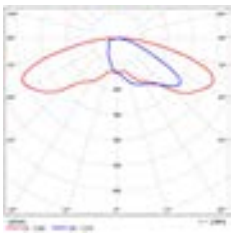
Example light distribution 2,500 lm
installation height: 5 m

M Streets in the ME lighting classes



asymmetrical

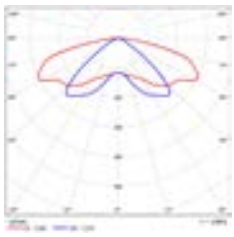
S Streets in the S lighting classes



asymmetrical

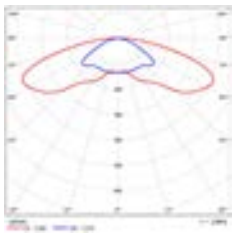
Sample light distribution 5,000 lm
installation height: 5 m

M Streets in the ME lighting classes



symmetrical

S Streets in the S lighting classes



symmetrical

HELLUX

EASY BASIC

BASIC+

SMART

BOLLARD MAST LIGHTS

COLOGNE 606

Variable: The height of the light column and the light exit surface can be adjusted as required

Scalable: Light exit surfaces can also be switched individually

Modern: The modern design fits perfectly into modern architectural environments

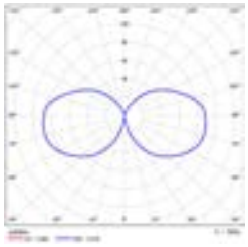
Application areas:

- Plazas
- Pedestrian zones
- Parking facilities
- Walkways

Technical specifications

	COLOGNE 606	
LIGHTING FIXTURES BODY		
Material	Aluminum	
Coloring (powder coating)	RAL or DB	
Mounting type	Mounted with flange plate or a ground element	
Orientation possibilities	–	
Dimensions (height above ground x diameter)	4,500 x Ø 230 mm	
Weight	about 9.5 kg/ m	
Area exposed to wind	0.23 m²/ m	
IP Protection class	IP54	
Glass type	PMMA (clear or diffuse)	
Shock resistance / impact resistance	IK08	
PHOTOMETRIC PROPERTIES		
Light source type	High-power LED	COB LED module
Optical system	Asymmetrical, rotational symmetric	open distribution
Rated luminous flux	1,000 – 3,500 lm (250 lm steps)	
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI	
Temperature management	✓	
Constant Light Output (CLO)	Optional	
ELECTRICAL PROPERTIES		
Protection class	Protection Class I / II	
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz	
Surge protection (L-N / L|N ground)	6 / 8 kV	
INSTALLATION SUGGESTIONS		
Application areas	Plazas, walkways, pedestrian zones	
Installation height	3 – 8 m	
Lighting classes	–	
Admitted ambient temperature (ta)	-25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE	
OPTIONS		
Optional surge protection	10 kV	
Length adjustment on project basis	3,000 - 6,000 mm	

Optics and light distributions



symmetrical


Kuchen
Kuchen
Bagu
Bier

HELLUX

EASY BASIC

BASIC+

SMART

BOLLARD MAST LIGHTS

HORIZONTE 7020

Variable: The height of the light column and the light exit surface can be adjusted as required

Scalable: Light exit surfaces can also be switched individually

Modern: The modern square design fits perfectly into modern architectural environments

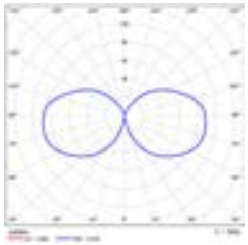
Application areas:

- Plazas
- Pedestrian zones
- Parking facilities
- Walkways

Technical specifications

	HORIZONTE 7020
LIGHTING FIXTURES BODY	
Material	Extruded aluminum profile
Coloring (powder coating)	RAL or DB
Mounting type	Flange plate (bottom plate)
Orientation possibilities	–
Dimensions (length x width x depth)	(1,200 – 4,000) x 140 x 140 mm
Weight	approx. 8 kg/ m
Area exposed to wind	0.14 m²/ m
IP Protection class	IP44
Glass type	PMMA (clear or diffuse)
Shock resistance / impact resistance	–
PHOTOMETRIC PROPERTIES	
Light source type	LED modules with high-power LEDs
Optical system	Symmetrical or asymmetrical light distribution
Rated luminous flux	1,000 – 6,500 lm (250 lm steps)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTIES	
Protection class	Class I / II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz
Surge protection (L-N / LIN ground)	6 / 8 kV
INSTALLATION SUGGESTIONS	
Application areas	Plazas, pedestrian zones, parking facilities, walkways
Installation height	1 – 6 m
Lighting classes	–
Admitted ambient temperature (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE
OPTIONS	
Length adjustment on project basis	1,000 – 6,000 mm

Optics and light distributions



symmetrical

HELLUX

EASY BASIC

BASIC+

SMART

BOLLARD MAST LIGHTS

POLLER 7030

Modern: The design fits perfectly into modern enviroment

Variable: Height of light pillar and the light emission surface can be adapted to customer requirements

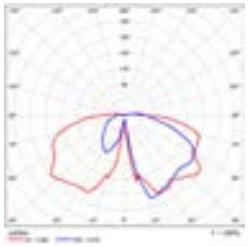
Application areas:

- Plazas
- Pedestrian zones
- Parking facilities
- Walkways

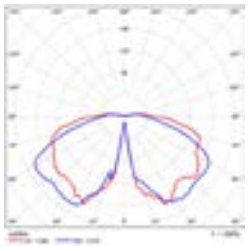
Technical specifications

	POLLER 7030
LIGHTING FIXTURES BODY	
Material	Extruded aluminum profile
Coloring (powder coating)	RAL or DB
Mounting type	Flange plate (bottom plate)
Orientation possibilities	–
Dimensions (length x diameter)	1,100 mm x Ø 150 mm
Weight	approx. 8 kg/ m
Area exposed to wind	0.16 m²/ m
IP Protection class	IP65
Glass type	PMMA (clear)
Shock resistance / impact resistance	IK08
PHOTOMETRIC PROPERTIES	
Light source type	Circle module with high-power LEDs
Optical system	Symmetrical or asymmetrical light distribution
Rated luminous flux	1,250 – 2,750 lm (3,000 K) 1,250 – 3,250 lm (4,000 K)
Dimming (Power control)	Optional control phase (50 % / 100 %), dimmer profile or DALI
Temperature management	✓
Constant Light Output (CLO)	Optional
ELECTRICAL PROPERTIES	
Protection class	Class II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz
Surge protection (L-N / LIN ground)	6 kV
INSTALLATION SUGGESTIONS	
Application areas	Plazas, pedestrian zones, parking facilities, walkways
Installation height	1.1 m
Lighting classes	–
Admitted ambient temperature (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE ENEC 10 VDE EMC
OPTIONS	
Assembly by means of ground piece	Optional
Rear door possible on the back	300 x 100 mm
Special height	On request

Optics and light distributions



asymmetrical rectangular



symmetrical rectangular

HELLUX

BANISTER HANDRAIL LIGHTING

LED HANDRAIL 3001

Variable: Different lengths and diameters for special applications

Secure: Homogenous illumination of public areas

Esthetic: Modern design language is integrated into existing architecture

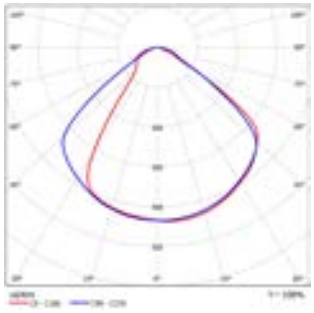
Application areas:

- Stairs
- Bridges

Technical specifications

	LED HANDRAIL 3001
LIGHTING FIXTURES BODY	
Material	Profile of polished stainless steel tube
Coloring (powder coating)	DB 703
Mounting type	Conditional mounting
Dimensions (length x diameter)	Project specific x Ø 48 mm / Ø 42 mm
Weight	approx. 3.5 kg/ m
IP Protection class	IP65 (LED module)
Glass type	PMMA
Shock resistance / impact resistance	IK10
PHOTOMETRIC PROPERTIES	
Light source type	LED module with low-power LEDs (½ Chip)
Optical system	Symmetrical and asymmetrical light distribution
Rated luminous flux	40 – 150 lm/ m
Dimming (Power control)	–
Temperature management	–
Constant Light Output (CLO)	–
ELECTRICAL PROPERTIES	
Protection class	Protection Class III
Rated voltage / operating voltage	24 V
INSTALLATION SUGGESTIONS	
Application areas	Stairs, bridges
Installation height	0.7 – 1 m
Admitted ambient temperature (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE

Optics and light distributions



HELLUX

BANISTER HANDRAIL LIGHTING

CONVEX 3066

Esthetic: Rounded, convex shape integrates inconspicuously into existing architecture

Variable: Light output possible from two sides

Flexible: Mounting without visible mounting points

Vandalism-proof: Special design concept for high impact resistance

Application areas:

- Bridges
- Stairs
- Parking facilities
- Walkways

Technical specifications

	CONVEX 3066
LIGHTING FIXTURES BODY	
Material	Extruded aluminum profile
Coloring (powder coating)	RAL or DB
Mounting type	Between two railing struts (30 and 40 mm) (strut-free space 100 – 120 mm)
Dimensions (length x width x depth)	727 x 155 x 90 mm
Weight	approx. 4 kg
Area exposed to wind	0.1 m²
IP Protection class	IP65 (electrical unit)
Glass type	PC (opal)
Shock resistance / impact resistance	IK10
PHOTOMETRIC PROPERTIES	
Light source type	LED module with mid-power LEDs
Optical system	Asymmetrical light distribution
Rated luminous flux	350 – 1,000 lm
Dimming (Power control)	–
Temperature management	–
Constant Light Output (CLO)	–
ELECTRICAL PROPERTIES	
Protection class	Class I / II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
Surge protection (L-N / L|N ground)	6 kV
INSTALLATION SUGGESTIONS	
Application areas	Bridges, stairs, parking facilities, walkways
Installation height	0.5 – 1 m
Admitted ambient temperature (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE
OPTIONS	
2-sided light output	✓

Optics and light distributions


BLUMEN


S
ab-und-on
HAIR

HELLUX

EASY
BASIC

PEDESTRIAN CROSSING LIGHTS

VGL 31-6 LED

Information and directional signs for the lighting of pedestrian crossings according to DIN 67523

Positive contrast for better recognition of pedestrians

Printed in accordance with StVO 350

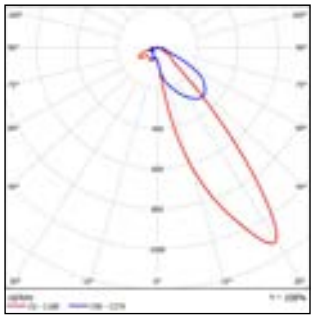
Other advantages:

- 5 to 6 m mast poles with circular curved brackets
- Road widths: up to 9 m

Technical specifications

	VGL 31-6 LED
LIGHTING FIXTURES BODY	
Material	Aluminum
Coloring (powder coating)	RAL 7003
Mounting type	Mounting tabs
Dimensions (w x h x d)	770 x 890 x 300 mm
Weight	21.5 kg
Area exposed to wind	FW = 0.6 m²
IP Protection class	IP54
Glass type	PMMA
PHOTOMETRIC PROPERTIES	
Light source type	LED
Optical system	PMMA individual optics
Rated luminous flux	7,000 lm (amber) / 5,000 lm (4,000 / 5,000 K)
ELECTRICAL PROPERTIES	
Protection class	Protection Class I / II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz
INSTALLATION SUGGESTIONS	
Application areas	Pedestrian crossings
Installation height	5 – 6 m
OTHER PROPERTIES	
Certificate	CE

Optics and light distributions



Version

Amber

Clear

Railroad


06

HELLUX

RAILROAD TRACK MAST LIGHTING

BLOCK FORM LIGHTING 17X

Luminaire as double or single luminaire in two sizes

Tool-free light source lamp replacement

Tool-free disassembly of the E-block

Possibility of tool-free conversion of the light source

Other advantages:

- Optimized silicone sealing
- Dirt-resistant shaping
- DB listed

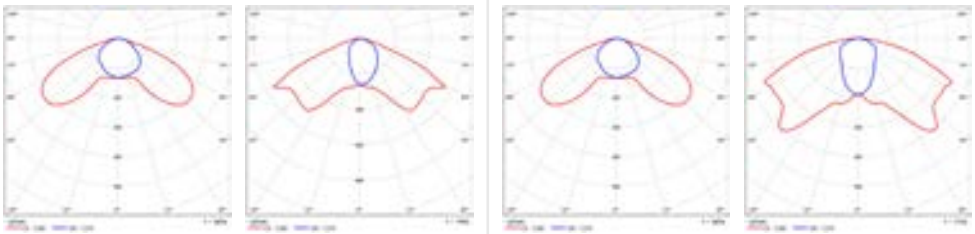
Application areas:

- Railroad track edges
- Railroad tracks
- Access roads

Technical specifications

	BLOCK FORM LIGHTING 171	BLOCK FORM LIGHTING 173
LIGHTING FIXTURES BODY		
Material	Aluminum	
Coloring (powder coating)	RAL or DB	
Mounting type	Mast attachment (Ø 76 or 60 mm), mast attachment (Ø 42 x 100 mm)	Top-mounted (Ø 76 mm)
Orientation possibilities	Basic inclination of 6°	Basic inclination of 0°
Dimensions (length x width x height)	570 x 275 x 150 mm	1.080 x 275 x 150 mm
Weight	approx. 8.5 kg	approx. 14 kg
IP Protection class	IP54	
Area exposed to wind	0.11 m²	0.22 m²
Glass type	Impact-resistant PMMA, clear flat	
Shock resistance / impact resistance	IK10	
PHOTOMETRIC PROPERTIES		
Light source type	HS or HI light source	
Light technologies	Reflector	
Light distribution	Wide beam or asymmetrical beam light distribution	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	230 V / 50 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Railroad track edges, access roads	Railroad tracks, access roads
Installation height	5 – 6 m	6 – 12 m
OTHER PROPERTIES		
Certificates	CE IK10	
OPTIONS		
Hanging light with cable mounting	✓	–
Wall bracket	Dual boom, triple boom	–
Reduction piece for mast attachment Ø 60 mm	–	✓
Railroad track reflector	✓	✓
Pedestrian crossing reflector	–	✓

Optics and light distributions



HELLUX

RAILROAD TRACK MAST LIGHTING

BLOCK FORM LIGHTING 18X

Luminaire as double or single luminaire in two sizes

Tool-free light source lamp replacement

Tool-free disassembly of the E-block

Possibility of tool-free conversion of the light source

Other advantages:

- Optimized silicone sealing
- Dirt-resistant shaping
- DB listed

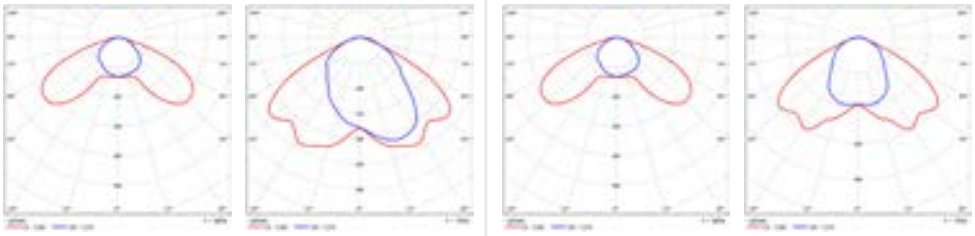
Application areas:

- Railroad track edges
- Railroad tracks
- Access roads

Technical specifications

	BLOCK FORM LIGHTING 181	BLOCK FORM LIGHTING 183-8
LIGHTING FIXTURES BODY		
Material	Aluminum	
Coloring (powder coating)	RAL or DB	
Mounting type	Top-mounted (Ø 76 mm)	
Orientation possibilities	Basic inclination of 6°	Basic inclination of 0°
Dimensions (length x width x height)	675 x 345 x 200 mm	1,320 x 345 x 200 mm
Weight	approx. 12.5 kg	approx. 22.5 kg
IP Protection class	IP54	
Area exposed to wind	0.196 m²	0.264 m²
Glass type	Impact-resistant PMMA, clear flat	
Shock resistance / impact resistance	IK10	
PHOTOMETRIC PROPERTIES		
Light source type	HS or HI light source	
Light technologies	Reflector	
Light distribution	Wide beam or asymmetrical beam light distribution	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	230 V / 50 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Railroad tracks, railroad track edges, access roads	Railroad tracks, access roads
Installation height	8 – 14 m	6 – 14 m
OTHER PROPERTIES		
Certificates	CE, ENEC 10	
OPTIONS		
Pedestrian crossing reflector	✓	✓
Hanging light with cable mounting	✓	–
Dual boom, triple boom	✓	–
Railroad track reflector	✓	✓
Emergency light	13 W (Dulux T/ E) or 60 W Halopin	13 W (Dulux T/ E) or 60 / 75 W Halopin
Reduction piece for mast attachment Ø 60 mm	✓	✓

Optics and light distributions



HELLUX

RAILROAD TRACK MAST LIGHTING

QUANTUS DB LED

DB listed: It is geared to the requirements of Deutsche Bahn

Increased reliability due to separate circuits

Physiologically: Reduction of glare by using mid-power LEDs

Reliable: Best thermal management by large LED Modules

Sustainable: Low current supply and intelligent LED wiring

Application areas:

- Railroad tracks
- Railroad track edges
- Walkways
- Platforms
- DB listed

MASTLEUCHTEN GLEISFELD / BAHNSTEIG

QUANTUS DB LED

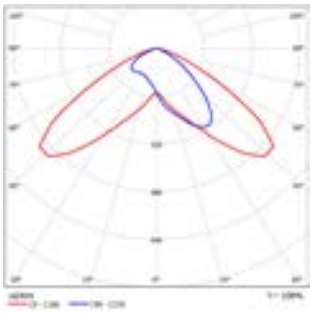
Technical specifications

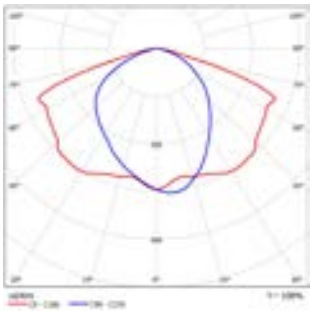
QUANTUS DB LED 191

QUANTUS DB LED 192

LIGHTING FIXTURES BODY		
Material	Extruded aluminum profile / die-cast aluminum	
Coloring (powder coating)	DB 703	
Mounting type	Side-mounted attachment (Ø 76 mm)	
Orientation possibilities	Basic inclination of 0°	
Dimensions (length x width x height)	520 x 306 x 72 mm	610 x 306 x 72 mm
Weight	approx. 8 kg	approx. 9 kg
Maximum area exposed to wind	0,19 m²	
IP Protection class	IP65	
Glass type	Impact-resistant PMMA	
Shock resistance / impact resistance	IK10	
PHOTOMETRIC PROPERTIES		
Light source type	LED light engine with mid-power LEDs	
Optical system	Asymmetric wide beam light distribution	
Rated luminous flux	2,300 / 3,500 / 5,000 / 7,000 lm	9,775 – 11,000 lm
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	Protection Class II / Protection Class III (driver in the post)
Rated voltage / operating voltage	230 V	
Frequency	50 Hz	
Surge protection (L-N / L|N ground)	8 kV	4 kV
INSTALLATION SUGGESTIONS		
Application areas	Platforms	Railroad tracks, railroad track edges, walkways
Installation height	6 – 8 m	12 – 14 m
Admitted ambient temperature (ta)	-25 °C to +45 °C	
OTHER PROPERTIES		
Certificate	CE ENEC 10	
OPTIONS		
Reduction piece to Ø 60 mm	✓	✓
Light shielding towards the back through shutter	✓	✓

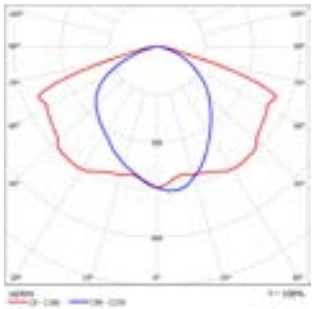
Optics and light distributions

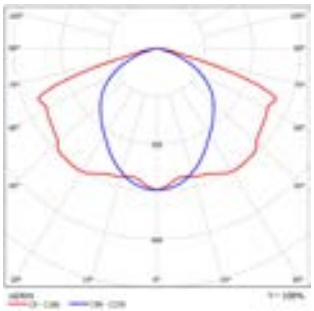




	QUANTUS DB LED 192-1	QUANTUS DB LED 194
LIGHTING FIXTURES BODY		
Material	Extruded aluminum profile / die-cast aluminum	
Coloring (powder coating)	DB 703	
Mounting type	Side-mounted attachment (Ø 76 mm)	
Orientation possibilities	Basic inclination of 0°	
Dimensions (length x width x height)	1,010 x 306 x 72 mm	1,200 x 306 x 72 mm
Weight	approx. 11.5 kg	approx. 11.7 kg
Maximum area exposed to wind	0,31 m²	0,37 m²
IP Protection class	IP65	
Glass type	Impact-resistant PMMA	
Shock resistance / impact resistance	IK10	
PHOTOMETRIC PROPERTIES		
Light source type	LED light engine with mid-power LEDs	
Optical system	Asymmetric wide beam light distribution	
Rated luminous flux	6,900 / 11,000 / 12,600 / 13,650 / 15,750 lm	2 x 9.775 lm / 2 x 11,000 lm
ELECTRICAL PROPERTIES		
Protection class	Protection Class II / Protection Class III (driver in the post)	
Rated voltage / operating voltage	230 V	
Frequency	50 Hz	
Surge protection (L-N / L|N ground)	4 kV	
INSTALLATION SUGGESTIONS		
Application areas	Railroad track edges, walkways	
Installation height	12 – 14 m	
Admitted ambient temperature (ta)	-25 °C to +45 °C	
OTHER PROPERTIES		
Certificate	CE IK10	
OPTIONS		
Reduction piece to Ø 60 mm	✓	✓
Light shielding towards the back through shutter	✓	✓

Optics and light distributions





HELLUX

TRAIN STATION PLATFORM MAST LUMINAIRE

ELLIPSE DB 13X

Tool-free light source lamp replacement

Automatic power disconnection when opening the luminaire

Simple: Disassembly of the E-block

Adjustable angle of incidence: 2° to 14° in the defined 3° grid (DB 131 only)

Other advantages:

- Optimized silicone sealing
- Dirt-resistant shaping
- Elegant
- DB listed

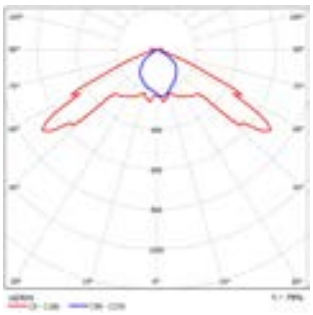
Application areas:

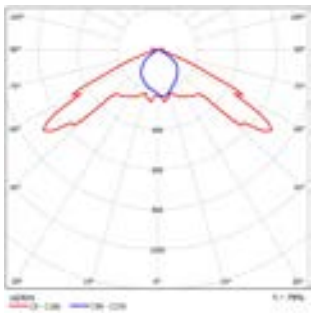
- Platforms
- Railroad tracks

Technical specifications

LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	RAL or DB	
Mounting type	Side-mounted / top-mounted (Ø 76 or 60 mm)	
Orientation possibilities	Basic inclination of 2°	Basic inclination of 2° (adjustable in 3° steps up to 14°)
Dimensions (length x width x height)	637 x 300 x 180 mm	860 x 340 x 187 mm
Weight	8.5 kg	11.5 – 12.5 kg
IP Protection class	IP65	IP66
Area exposed to wind	0.14 m²	0.15 m²
Glass type	Silicate glass, flat	
Shock resistance / impact resistance	IK10	
PHOTOMETRIC PROPERTIES		
Light source type	HI and HS light source	
Light technologies	Mirror optics	
Light distribution	Extremely wide beam light distribution	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	230 V / 50 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Platforms	Platforms, railroad track
Installation height	6 – 8 m	5 – 10 m
OTHER PROPERTIES		
Certificate / energy efficiency class	CE IK10	
OPTIONS		
emergency light component	–	60 W

Optics and light distributions





HELLUX

TRAIN STATION PLATFORM MAST LUMINAIRE

ELLIPSE LED DB 131

Sustainable: Easy lamp replacement

Efficient: Reduce glare by using mid-power LEDs

Esthetic: Simple and clear shape language with a perfect LED design

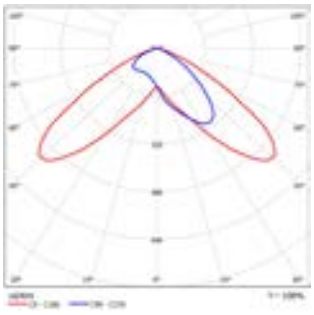
Application areas:

- Platforms

Technical specifications

	ELLIPSE LED DB 131
LIGHTING FIXTURES BODY	
Material	Aluminum die casting
Coloring (powder coating)	DB 703
Mounting type	Mast attachment or mast attachment (Ø 76 / 60 mm)
Orientation possibilities	2° – 14° (in 3° steps)
Dimensions (length, width, depth)	860 x 340 x 180 mm
Weight	approx. 11.5 kg
Area exposed to wind	0.15 m²
IP Protection class	IP66
Glass type	Tempered glass
LIGHT SOURCE	
Light source type	LED modules with mid-power LEDs
Optical system	Wide-angle light distribution
Rated luminous flux	2,400 – 7,200 lm
ELECTRICAL PROPERTY	
overall performance	20 – 60 W
Protection class	Protection Class II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
Surge protection	6 kV
INSTALLATION SUGGESTIONS	
Application areas	Platforms
Installation height	6 – 8 m
Permissible ambient temp.	-25 °C to +45 °C
OTHER PROPERTIES	
Certificate	CE

Optics and light distributions

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HELLUX

TRAIN STATION PLATFORM MAST LUMINAIRE

TRAPEZ DB 14X

Available as double or single light

Tool-free light source lamp replacement

Tool-free disassembly of the E-block

Possibility of tool-free conversion to other light sources

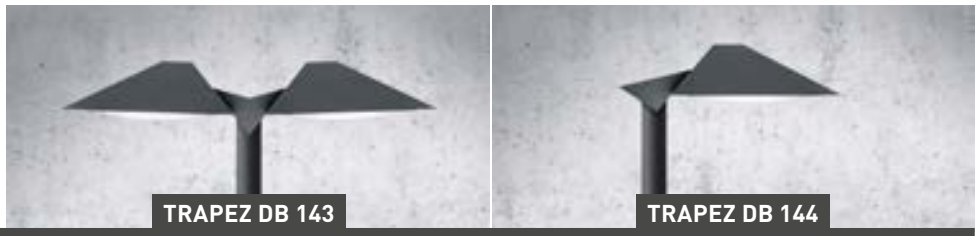
Other advantages:

- Optimized silicone sealing
- Dirt-resistant shaping
- DB listed

Application areas:

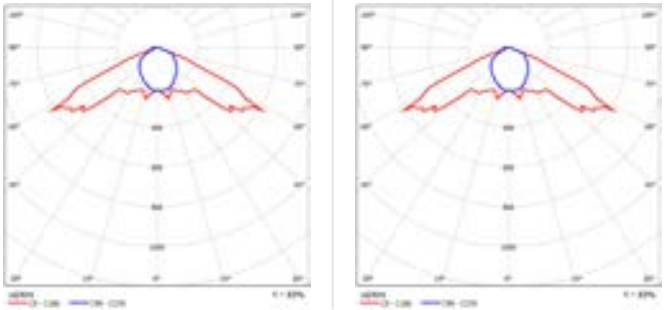
- Platforms
- Access roads

Technical specifications



LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	RAL or DB	
Mounting type	Top-mounted (Ø 76 mm)	Mast attachment / mast attachment (Ø 76 mm)
Orientation possibilities	Basic inclination of 0°	Basic inclination of 3°
Dimensions (length x width x height)	1,420 x 330 x 235 mm	870 x 330 x 235 mm
Weight	16 kg	8.5 kg
IP Protection class	IP65	
Area exposed to wind	0.22 m²	0.12 m²
Glass type	Acrylic glass, flat	
Shock resistance / impact resistance	IK10	
PHOTOMETRIC PROPERTIES		
Light source type	HI and HS light source	
Light technologies	Mirror optics	
Light distribution	Extremely wide beam light distribution	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	230 V / 50 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Platforms, paths	Platforms, paths
Installation height	6 – 8 m	
OTHER PROPERTIES		
Certificate / energy efficiency class	CE IK10	
OPTIONS		
emergency light component	60 W	

Optics and light distributions



HELLUX

TRAIN STATION PLATFORM MAST LUMINAIRE

TRAPEZ LED DB 14X

Practical: Tool-free light source lamp replacement

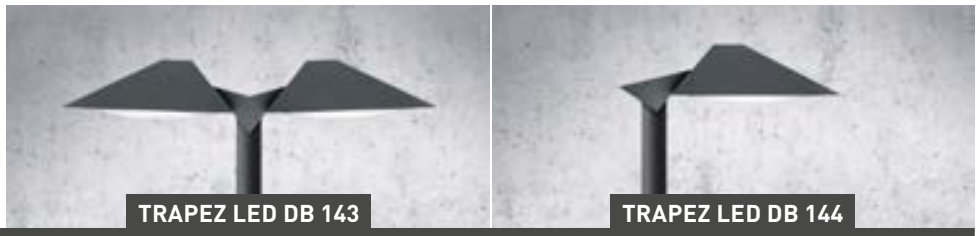
Optimized silicone sealing

Dirt-resistant shaping

Application areas:

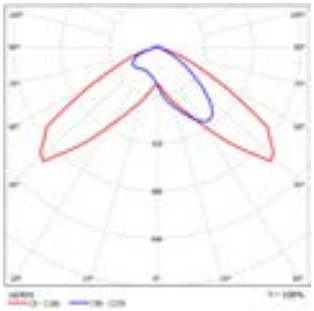
- Platforms

Technical specifications



	TRAPEZ LED DB 143	TRAPEZ LED DB 144
LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	DB 703	
Mounting type	Mast attachment / mast attachment (Ø 76 mm)	
Orientation possibilities	Basic inclination of 3°	
Dimensions (length, width, depth)	1,420 x 330 x 270 mm	
Weight	16 kg	8.5 kg
Area exposed to wind	0.22 m²	0.12 m²
IP Protection class	IP65	
Glass type	Acrylic glass, flat	
LIGHT SOURCE		
Light source type	LED modules with mid-power LEDs	
Optical system	Wide-angle light distribution	
Rated luminous flux	2x 1,200 – 2x 5,000 lm	2,400 – 7,200 lm
ELECTRICAL PROPERTY		
Overall performance	20 – 60 W	
Protection class	Protection Class II	
Rated voltage / operating voltage	220 – 240 V	
Frequency	50 – 60 Hz	
Surge protection	6 kV	
INSTALLATION SUGGESTIONS		
Application areas	Platforms	
Installation height	6 – 8 m	
Permissible ambient temp.	-25 °C to +45 °C	
OTHER PROPERTIES		
Certificate	CE ENEC 10	

Optics and light distributions for all variants



HELLUX

TRAIN STATION PLATFORM MAST LUMINAIRE

FRITZ DB 114

Tool-free light source lamp replacement

Easy disassembly of the E-block

Optimized silicone sealing

Dirt-resistant shaping

Versatile design variants

Other advantages:

- Elegant platform light
- DB-listed

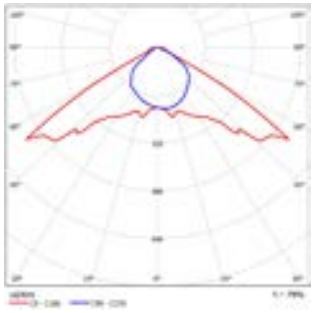
Application areas:

- Platforms

Technical specifications

	FRITZ DB 114
LIGHTING FIXTURES BODY	
Material	Cast aluminum
Coloring (powder coating)	RAL 9006
Mounting type	via system accessories
Orientation possibilities	Basic inclination of 0°
Dimensions (length x width x height)	566 x 339 x 235 mm
Weight	13.0 kg
IP Protection class	IP65
Area exposed to wind	0.096 m²
Glass type	Acrylic glass 2-piece
Shock resistance / impact resistance	IK10
PHOTOMETRIC PROPERTIES	
Light source type	HI and HS light source
Optical system	Extremely wide beam light distribution
ELECTRICAL PROPERTIES	
Protection class	Protection Class II
Operating voltage / frequency	230 V / 50 Hz
INSTALLATION SUGGESTIONS	
Application areas	Platforms
Installation height	6 – 8 m
OTHER PROPERTIES	
Certificates	CE, ENEC 10
OPTIONS	
emergency light component	60 W

Optics and light distributions



HELLUX

RAILWAY CROSSING MAST LIGHTING

162-5

The only listed conventional railroad crossing luminaire

Corresponds to the DB requirements for railway crossings

Open and replace light source without tools with quick release fasteners

E-block can be replaced without tools

Other advantages:

- DB listed
- Integrated igniter for instant hot re-ignition

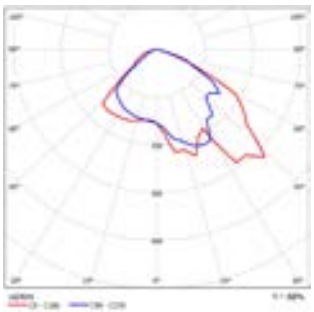
Application areas:

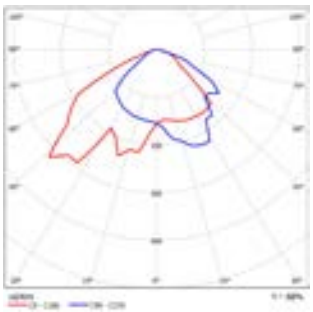
- Railroad crossings

Technical specifications

	RAILWAY CROSSING LUMINAIRES 162-5
LIGHTING FIXTURES BODY	
Material	Aluminum
Coloring (powder coating)	RAL or DB
Mounting type	Side-mounting (Ø 76 or Ø 60 mm), top-mounting (60 x 100 mm or 42 x 100 mm)
Orientation possibilities	Basic inclination of 5° (adjustable in 3° steps up to 14°)
Dimensions (length x width x height)	600 x 330 x 180 mm
Weight	approx. 13 – 15 kg
IP Protection class	IP65 (lamp compartment)
Area exposed to wind	0.1 m²
Glass type	Tempered glass, smooth clear
Shock resistance / impact resistance	IK10
PHOTOMETRIC PROPERTIES	
Light source type	HST-DE
Light technologies	Reflector
Light distribution	Right or left beam light distribution
ELECTRICAL PROPERTIES	
Protection class	Protection Class II
Operating voltage / frequency	230 V / 50 Hz
INSTALLATION SUGGESTIONS	
Application areas	Railroad crossings
Installation height	8 – 10 m

Optics and light distributions



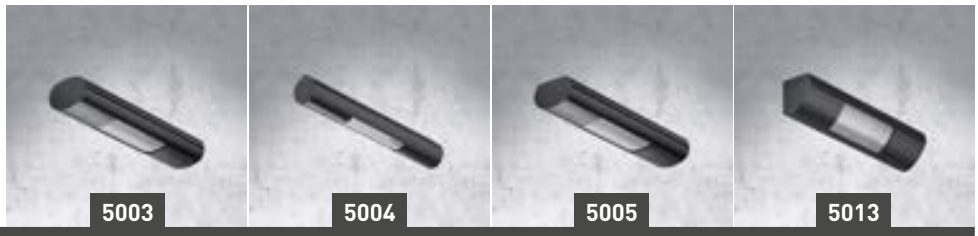


HELLUX

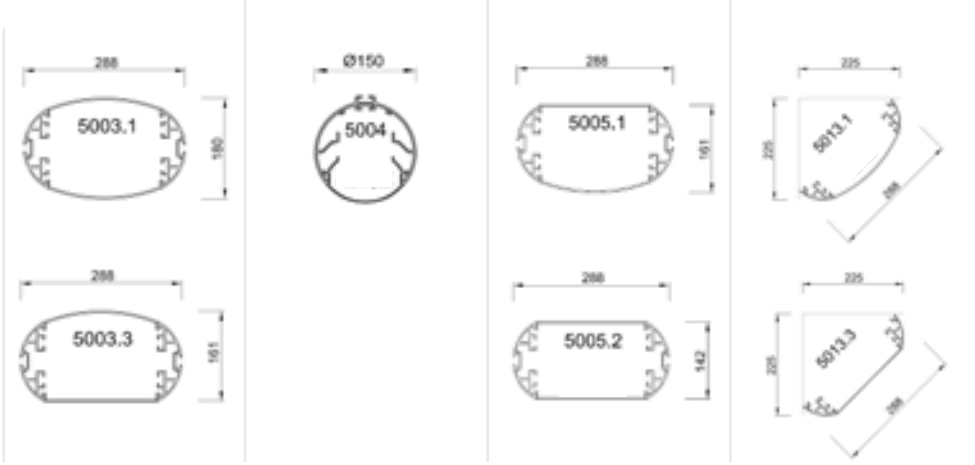
RAILWAY MEDIA CHANNELS

50XX

Technical specifications



DESCRIPTION				
System-bound media channel system for the illumination of...	... covered platforms, halls, underpasses, entrances, ramps, and stairs			... underpasses, connecting passages and tunnel systems
Light source	Can be equipped with commercially available moisture-proof luminaires, object-specific or based on individual requirements			
Material	Body made of extruded aluminum profile			
Design	Oval	Round	Oval	Corner profile
Overall length	modular, up to a max. of 6 meters per segment			
Cable and line supports	Continuously integrated			
Color	according to RAL or DB specification			
Mounting	Easy to assemble thanks to the integrated T-slot for various suspended or other mounting options			Wall and ceiling with mounting bracket
Possibility to install...	Camera systems and low-profile loudspeaker systems with hole group			
Other	–			Particularly suitable for low ceilings.
CROSS-SECTION AND VARIANTS				



HELLUX

LIGHT TUBE SYSTEMS

LIGHT & MEDIA CHANNEL SYSTEM 5010

Flexible: Mounting by integrated T-slot for various suspensions

Universal / Flexible: Additional integration of media such as speakers and camera system.

Reliable: approved in accordance with DB requirements

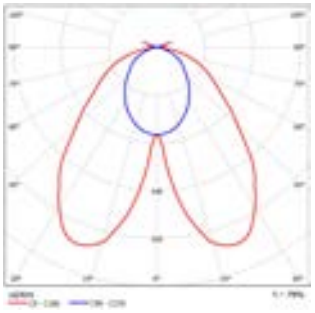
Application areas:

- Platforms
- Underground passenger transport systems

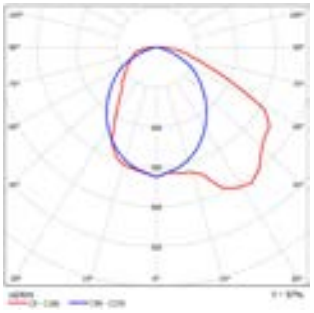
Technical specifications

LIGHTING FIXTURES BODY	HIGH DESIGN		FLAT DESIGN	
Material	Extruded aluminum profile		Extruded aluminum profile	
Coloring (powder coating)	RAL 9006		RAL 9006	
Mounting type	Suspension with T-slot		Suspension with T-slot	
Dimensions (length x width x height)	1,500 x 125 x 250 mm		1,500 x 125 x 140 mm	
Weight	15 kg/ lfm		12 kg/ lfm	
Area exposed to wind	0.25 m²/ lfm		0.14 m²/ lfm	
IP Protection class	IP54		IP54	
Glass type	PC with prism structure		PC with prism structure	
Shock resistance / impact resistance	IK10		IK10	
PHOTOMETRIC PROPERTIES				
Light source type	Provided for fluorescent light T5		Provided for fluorescent light T5	
Optical system	Symmetrical or asymmetrical light distribution		Symmetrical or asymmetrical light distribution	
Rated luminous flux	35 / 49 W	3,070 / 4,300 lm	35 / 49 W	3,070 / 4,300 lm
ELECTRICAL PROPERTIES				
Protection class	Protection Class II		Protection Class II	
Rated voltage / operating voltage	220 – 240 V		220 – 240 V	
Frequency	50 / 60 Hz		50 / 60 Hz	
INSTALLATION SUGGESTIONS				
Application areas	Platforms, underground passenger transport systems		Platforms, underground passenger transport systems	
Installation height	3 – 4 m		3 – 4 m	
Admitted ambient temperature (ta)	-25 °C to +35 °C		-25 °C to +35 °C	
OTHER PROPERTIES				
Certificate	CE		CE	
OPTIONS				
Emergency light function	✓		✓	

Optics and light distributions



Symmetrical light distribution



Asymmetrical light distribution

HELLUX

LIGHT TUBE SYSTEMS

LIGHT & MEDIA CHANNEL SYSTEM 5010 LED

Flexible: Mounting by integrated T-slot for various suspensions

Universal / Flexible: Additional integration of media such as speakers and camera system.

Reliable: approved in accordance with DB requirements

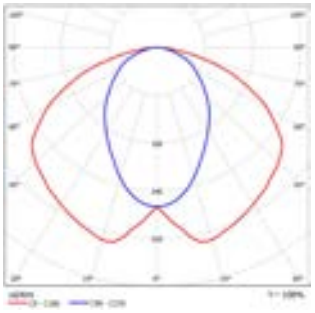
Application areas:

- Platforms
- Underground passenger transport systems

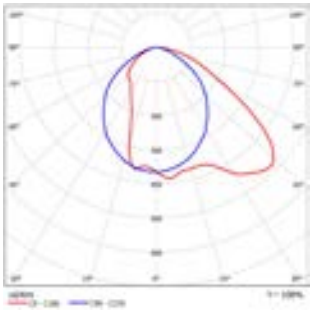
Technical specifications

	5010	5010
LIGHTING FIXTURES BODY	**HIGH DESIGN**	**FLAT DESIGN**
Material	Extruded aluminum profile	Extruded aluminum profile
Coloring (powder coating)	RAL 9006	RAL 9006
Mounting type	Suspension with T-slot	Suspension with T-slot
Dimensions (length x width x height)	1,500 x 125 x 250 mm	1,500 x 125 x 140 mm
Weight	15 kg/ lfm	12 kg/ lfm
Area exposed to wind	0.25 m²/ lfm	0.14 m²/ lfm
IP Protection class	IP54	IP54
Glass type	PC with prism structure	PC with prism structure
Shock resistance / impact resistance	IK10	IK10
PHOTOMETRIC PROPERTIES		
Light source type	LED	LED
Optical system	Symmetrical or asymmetrical light distribution	Symmetrical or asymmetrical light distribution
Rated luminous flux	3.250 – 6.000 lm	3.250 – 6.000 lm
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	Protection Class II
Rated voltage / operating voltage	220 – 240 V	220 – 240 V
Frequency	50 / 60 Hz	50 / 60 Hz
INSTALLATION SUGGESTIONS		
Application areas	Platforms, underground passenger transport systems	Platforms, underground passenger transport systems
Installation height	3 – 4 m	3 – 4 m
Admitted ambient temperature (ta)	-25 °C to +35 °C	-25 °C to +35 °C
OTHER PROPERTIES		
Certificate	CE EAC	CE EAC
OPTIONS		
Emergency light function	✓	✓

Optics and light distributions



Symmetrical light distribution



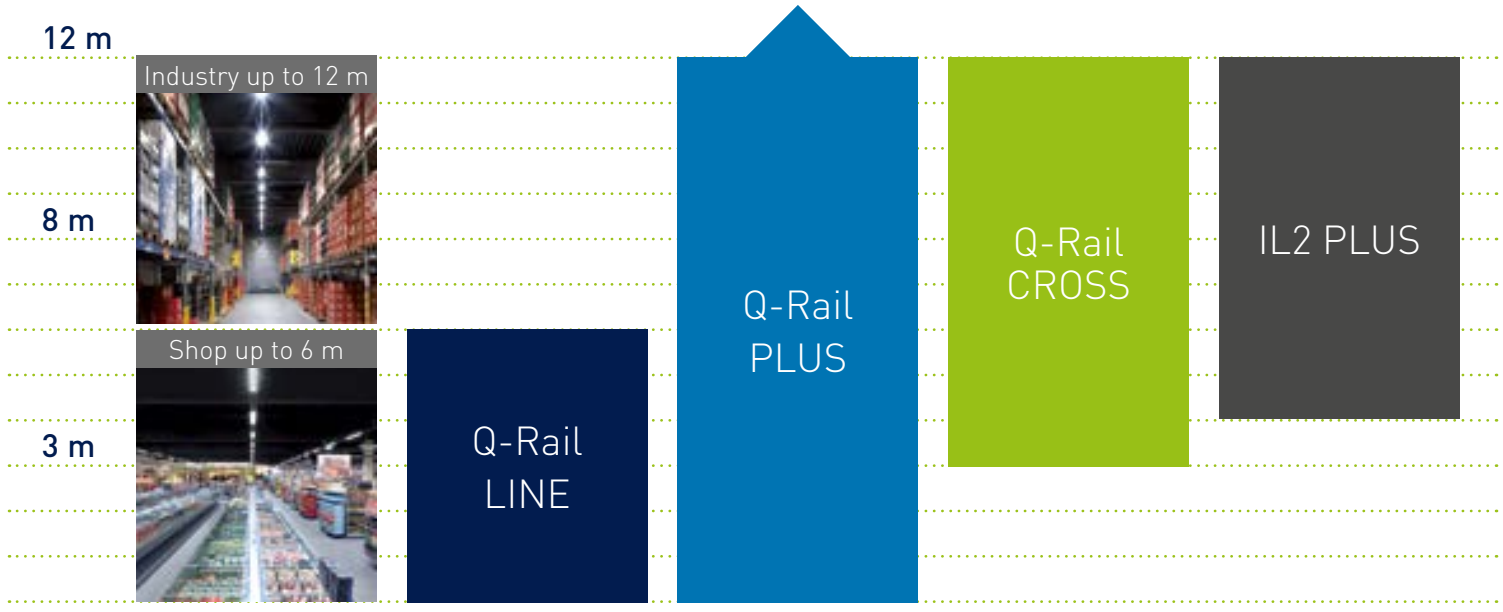
Asymmetrical light distribution

Industry and interior


Limes

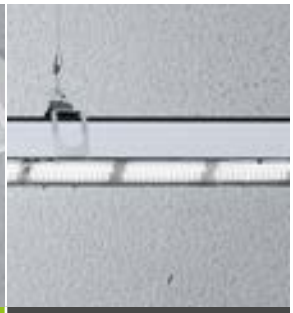
Comparison of light line systems

Our light line systems conquer halls and markets where goods are produced or shipped, stored or sold. And it makes sense because they score not only because of their simple assembly and maintenance, but are also guarantees for best light quality, economical power consumption and environmental compatibility.



The right light for every room

More than any other light source, our Q-RAIL and IL2 PLUS LED light-band systems are the ideal solution for a simple, coherent and functional solution. They guarantee constant light quality and homogenous illumination, a demand-oriented optics and perfectly adapted light distribution. This means they have exactly the qualities that are required in production and storage, in retail and logistics.

	 Q-Rail LINE	 Q-Rail PLUS	 Q-Rail CROSS	 IL2 PLUS
Areas of application:	Manufacturing facilities, sales areas	Warehouses, logistics, industrial and manufacturing facilities	Halls, warehouses, sales areas, manufacturing facilities	Halls, warehouses, manufacturing facilities
Assembly:	Light inserts can be installed tool-free with the quick assembly system	Light inserts can be installed tool-free with the quick assembly system	Light inserts can be installed tool-free with the quick assembly system	Simple and practically tool-free with the Plug & Play process
Flexibility:	Different optics for different applications	Different optics for different applications	Versatile through four different optical variants	Optimal through modular design and different optics
Efficiency:	Mid-power LED modules with up to 134 lm/W	Mid-power LED modules with up to 155 lm/W	Mid-power LED modules with up to 160 lm/W	Mid-power LED modules with up to 150 lm/W
Extras:	Sensors, emergency lighting, integration of busbars, spotlights	Sensors, emergency lighting, integration of busbars, spotlights	Sensors, emergency lighting, integration of busbars, spotlights	Intelligent temperature monitoring and control, sensors can be retrofitted at any time, extension of the protection class to IP40 or IP54 possible at any time


ORANGES
Navel
$1.49lb
Limes
$.99lb

Q-RAIL LED – the all-rounder among light band systems

VARIATIONS

Different light colors (3,000 K / 4,000 K)
and performance levels available (4,000 – 12,000 lm),
3 different track lengths available (1.5 m / 3 m / 4.5 m)

MADE IN GERMANY

Development and production in Germany

SUPPORT RAILS

Possible with through
wiring up to 14 poles,
a plug connection every 1.5 m

EMERGENCY LIGHTING

With special variations,
emergency lighting is also possible

PLUG&PLAY
Tool-free assembly and
replacement of support rails
and light modules

DURABILITY
Support rails and roll profile
made of plastic-coated,
galvanized sheet metal

VARIABILITY
Variable contacts
with phase selection

LIGHT MODULE
L80B10 50,000h with 5 different
light distributions and opal cover,
on-off and DALI

SENSOR SYSTEM
Intelligent sensor system
integrated in the module

LUNUX

LIGHT LINE SYSTEMS

Q-RAIL

Economical: Operating cost savings (up to 85% compared to fluorescent lights)

Fast: Light inserts can be installed with quick-assembly system without tools

Flexible: Different optics for different applications

Efficient: Mid-power LED modules with up to 160 lm/W

Other advantages:

- Energy efficiency
- Variants with emergency lighting
- Variants for integrating busbar spotlights
- Sensors can be integrated
- Optimized light distribution
- 80% luminous flux after an average service lifetime of 50,000 operating hours
- Mercury-free
- Development and production in Germany

Application areas:

- Warehouses
- Logistics buildings
- Factory facilities
- Production workshops
- Sales rooms

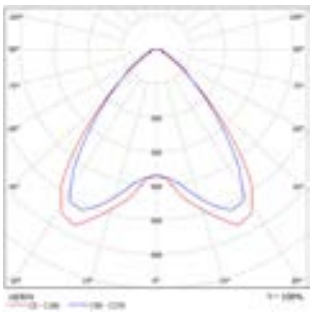
LIGHT LINE SYSTEMS

Q-RAIL

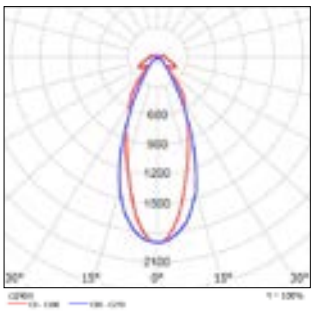
Technical specifications

LIGHTING FIXTURES BODY	W-OPTICS (WIDE BEAM) N-OPTICS (NARROW BEAM)	OPAL COVER
Material	Steel section	
Coloring (powder coating)	RAL 9010 (pure white)	
Mounting type	Chain suspension system, system ceiling mounting, ceiling mounting	
Dimensions (length x width x height)	1,494 x 70 x 32.5 mm	1,494 x 70 x 40.5 mm
Weight 1.5 m	approx. 1.8 kg	
IP Protection class	IP20	
PHOTOMETRIC PROPERTIES		
Light source type	LED modules with 102 mid-power LEDs	
Optical system	Wide and narrow beam light distribution	Opal cover
Rated luminous flux	4,000 / 5,500 / 6,600 lm	2,600 / 4,000 / 5,500 lm
Dimming (Power control)	On – Off / DALI	
ELECTRICAL PROPERTIES		
Protection class	Protection Class I	
Rated voltage / operating voltage	220 – 240 V/ 50 – 60 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Industrial facilities, production workshops, sales areas	
Specific installation	Q-RAIL light line system	
Installation height	3 – 6 m	
Permissible ambient temperature at (ta)	2,600 / 4,000 / 5,500 lm, -25 °C to +35 °C	
OTHER PROPERTIES		
Certificate	CE, A++, DIN 10500	
OPTIONS		
End cap Q-ED LED	IP20	
Blind cover Q-BA LED	1,494 mm	
Support rail Q-TS	1,494 / 2,988 / 4,482 mm	
Rail connector Q-SV	✓	
Rail suspension Q-SA / Q-SAC / Q-SAS / Q-SAD	✓	

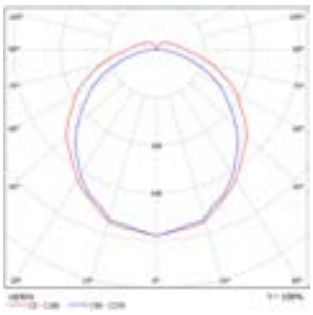
Optics and light distributions



W-Optics (wide beam)



N-Optics (narrow beam)

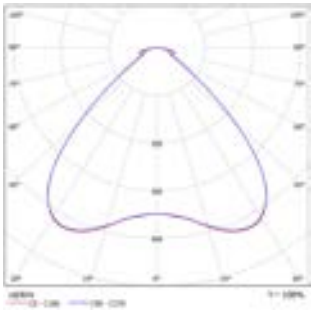


Opal cover

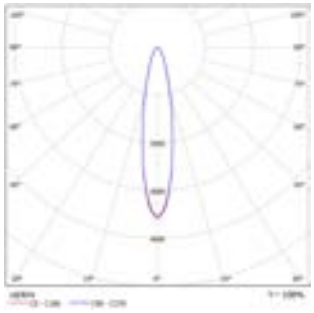
Q-RAIL CROSS

LIGHTING FIXTURES BODY	
Material	Steel section
Coloring (powder coating)	RAL 9010 (pure white)
Mounting type	Chain suspension system, system ceiling mounting, ceiling mounting
Dimensions (length x width x height)	1,494 x 70 x 41 mm
Weight per 1.5 m	approx. 1.8 kg
IP Protection class	IP20
PHOTOMETRIC PROPERTIES	
Light source type	LED modules with 160 mid-power LEDs
Optical system	Wide-, low- and two-double-asymmetric beam light distribution
Rated luminous flux	4,000 / 5,500 / 6,600 / 7,600 / 8,000 / 8,500 / 9,800 / 12,000 lm
Dimming (Power control)	On – Off / DALI
ELECTRICAL PROPERTIES	
Protection class	Protection Class I
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
INSTALLATION SUGGESTIONS	
Application areas	Warehouses, logistics buildings, industrial halls, production workshops, sales areas
Specific installation	Q-RAIL light line system
Installation height	3 – 20 m
Permissible ambient temperature at (ta)	-25 °C to +35 °C
OTHER PROPERTIES	
Certificate	CE EK11 A++ A+ DIN 10500
OPTIONS	
End cap Q-ED LED	IP20
Blind cover Q-BA LED	1,494 mm
Support rail Q-TS	1,494 / 2,988 / 4,482 mm
Rail connector Q-SV	✓
Rail suspension Q-SA / Q-SAC / Q-SAS / Q-SAD	✓

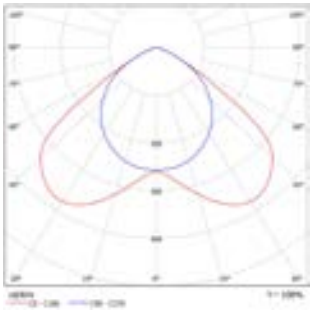
Optics and light distributions for all variants



Wide beam



Narrow beam



Double asymmetrical

For detailed information, please visit our website at: www.lunux-lighting.com

LUNUX

LIGHT LINE SYSTEMS

Q-RAIL PLUS

Economical: Operating cost saving (up to 85% in comparison to fluorescent lamps)

Easy: Tool less installation with quick mounting system

Flexible: Various optics for different application areas

Efficient: Mid power LED module with up to 155 lm/W

Save: Emergency lighting feasible

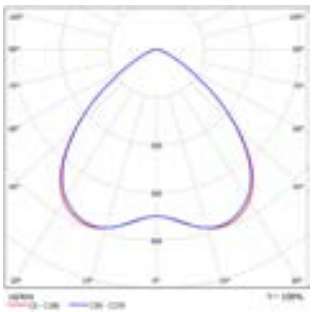
Application areas:

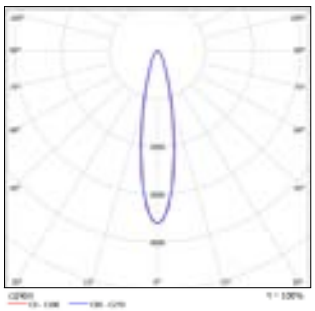
- Warehouses
- Logistics Halls
- Industrial Halls
- Production Halls
- Sales Rooms

	Q-RAIL PLUS
LIGHT HOUSING	
Material	High-quality and torsion-resistant mounting rail made of aluminum, cover made of PP
Mounting type	Chain suspension
Dimensions (Length x Breadth x Height)	1,500 / 3,000 / 4,500 x 90 x 85 mm
IP Protection class	IP54
ILLUMINANT PROPERTIES	
Light source	LED-Moduls with 160 Mid-Power-LEDs
Optical system	Wide and narrow beam light distribution
Rated luminous flux	2.000 – 10.000 lm
ELECTRICAL PROPERTIES	
Electrical protection class	Class I
Operating / voltage	220 – 240 V / 50-60 Hz
INSTALLATION REQUIREMENTS	
Application areas	Warehouses, logistics halls, industrial halls, production halls, sales rooms
Light point height	3 – 20 m (*1)
Admitted ambient temperature (ta)	- 25 °C to + 35 °C (*2)
OTHER PROPERTIES	
Certification	CE, ENEC, A++, A+, DIN 10500

**1: Depending on the reflectance of the premises*
**2: Depending on the luminous flux*

Optics and light distributions





LIGHT LINE SYSTEMS

Q-RAIL SENSORS

Area sensors

STEINEL IS 3360 MX

TECHNICAL SPECIFICATIONS	
Integration	Sensor integrated in the light insert, 1,494 mm
Daylight sensor	✓
Presence sensor	✓
Version	Motion detector with daylight control
Type of sensor	Passive infrared
Interface control system	DALI
Dimming	only via DALI Master or DALI control
Ambient temperature range	-20 °C to +50 °C
Required support rail	7-wire version
INSTALLATION DATA	
Installation height	4 – 14 m
Detection range	Can be adjusted via cover panel
Area of coverage	Range radial Ø 12 m (113 m²) / Range tangential Ø 36 m (1,018 m²)
Light sensor working area	2 – 1,000 lx
APPLICATION	
Scope of application	Area sensor for production workshops, warehouses and logistics buildings
Number of adjustable light points	30

Passage way sensors

STEINEL IS 345 MX

TECHNICAL SPECIFICATIONS	
Integration	Sensor integrated in the light insert, 1,494 mm
Daylight sensor	✓
Presence sensor	✓
Version	Motion detector with daylight control
Type of sensor	Passive infrared
Interface control system	DALI
Dimming	only via DALI Master or DALI control
Ambient temperature range	-20 °C to +50 °C
Required support rail	7-wire version
INSTALLATION DATA	
Installation height	4 – 14 m
Detection range	Can be adjusted via cover panel
Area of coverage	Radial range 30 x 4 m (120 m²) / Tangential range 30 x 4 m (120 m²)
Light sensor working area	2 – 1,000 lx
APPLICATION	
Scope of application	Passageway sensor for high-bay warehouses, logistics buildings and production workshops
Number of adjustable light points	30

Area sensors

OSRAM IR SENSOR

OSRAM HF SENSOR

TECHNICAL SPECIFICATIONS		
Integration	Sensor integrated in the light insert, 1,494 mm	
Daylight sensor	✓	
Presence sensor	✓	
Version	Motion detector with daylight control	
Type of sensor	Passive infrared	Active radar
Interface control system	DALI	
Dimming	10 – 100 % (switch off possible)	
Ambient temperature range	0 °C to +50 °C	
Required support rail	7-wire version	
INSTALLATION DATA		
Installation height	up to 5 m	up to 13 m
Detection range	Adjustable via shutter	Sensor adjustable up to 90° / 7 m
Detection angle	40° – 90°	35° / 80°
Area of coverage	max. 6 m	max. 25 m
Light sensor working area	20 – 800 lx	
APPLICATION		
Scope of application	Production workshops, warehouses, office areas	High-bay warehouse, production workshop, warehouses
Number of adjustable light points	32	

Accessories

Steinel remote control

- Intuitive, easy and safe commissioning
- Daylight and presence function can be activated individually
- Operation by smartphone via app
- To configure the Steinel sensors
- IR transmission
- Data storage possible
- Different scenes selectable

Osram remote control

- Easy and safe commissioning
- Daylight and presence function can be activated individually
- PC software for creating individual programs
- To configure the Osram sensors
- IR transmission
- Data storage possible
- Different scenes selectable


Rauche

IL2 PLUS – THE HIGHLY FLEXIBLE LIGHT LINE SYSTEM

THERMAL MANAGEMENT

Permanent temperature
monitoring of LED & electronic driver,
temperature range from -25 °C to 50 °C

VARIATIONS

Different light colors
(4,000 k / 6,500 k)
and performance levels available
(4,000 lm / 4,700 lm),
Four (4) different track lengths
available (0.60 m to 4.20 m),
a plug-in connector every 0.6 m

PLUG & PLAY

Tool-free replacement
of electronic driver and LED module
is possible during operation

FLEXIBILITY

Different optics can be used in every
track. Individual protection classes can
be upgraded retrospectively at any time.

LIGHT MANAGEMENT
Targeted luminaire design, efficient light control optionally upgradable

EMERGENCY LIGHTING
LED module and electronic driver as Emergency lighting can be integrated, special solution for addressable luminaires

SENSOR SYSTEM
Intelligent sensor technology at any point of the rail Expandable

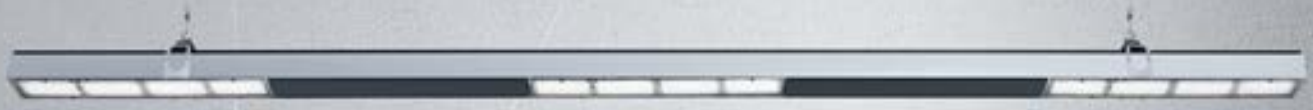
ALUMINUM
High-quality and durable aluminum tracks

ELECTRONIC DRIVER
DALI

MADE IN GERMANY
Development and production in Germany

LED MODULE
3 different light distributions

LUNUX



LIGHT LINE SYSTEMS

IL2 PLUS

Secure: Warp-resistant aluminum rails

Innovative: Intelligent temperature management

Scalable: Emergency lighting is possible

Flexible: Sensor technology can be integrated and expanded at any point on the rail

Safe investment: Replacement part availability of at least 20 years

Other advantages:

- Highly flexible LED light line system
- Modular design
- Simple and practically tool-free installation
- Separate replacement of electronic drivers and LED module
- The IP Protection class of the luminaire can be upgraded to IP54 at any time
- At least 80% luminous flux after an average lifetime of 60,000 operating hours

Application areas:

- Warehouses
- Logistics buildings
- Factory facilities
- Production workshops

LIGHT LINE SYSTEMS

IL2 PLUS

Technical specifications

IL2 PLUS

LIGHTING FIXTURES BODY	
Material	High-quality and warp-resistant support rail made of aluminum, covering of PP
Coloring (powder coating)	Support rail in aluminum color
Mounting type	Chain suspension
Dimensions (length x width x height)	LED module: 592 x 72 mm Support rail: 0.6 m / 1.20 m / 3.00 m / 4.20 m Length: 600/ 1,200/ 3,000/ 4,200 x 90 x 85 mm
Weight per 0.6 m	2.2 kg with complete module equipment, 1.3 kg without module equipment
IP Protection class	IP20 / IP40 / IP54 (modular expandable or retrofittable at any time)
PHOTOMETRIC PROPERTIES	
Light source type	LED module each with 104 LEDs
Optical system	W-Optics wide-beam, N-Optics low-beam, XN-Optics extra deep-radiant
Rated luminous flux (4,000 K)	4,000 / 4,700 lm
Dimming (Power control)	DALI
Temperature management	NTC control in the electronic driver and LED module
ELECTRICAL PROPERTIES	
Protection class	System: Protection Class I Electronic driver and modules: Protection Class II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz
INSTALLATION SUGGESTIONS	
Application areas	Warehouses, logistics buildings, industrial halls, production workshops
Installation height	3 – 16 m
Admitted ambient temperature (ta)	4,000 lm: -25 °C to +50 °C / 4,700 lm: -25 °C to +45 °C
OTHER PROPERTIES	
Certificate / energy efficiency class	CE 25 D A++ DIN 10500

Optics and light distributions

W **W-Optics**
Production workshops

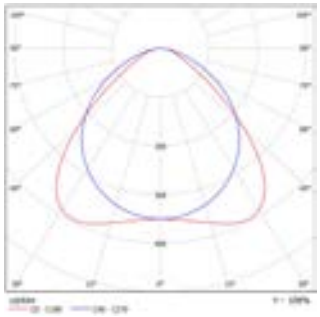
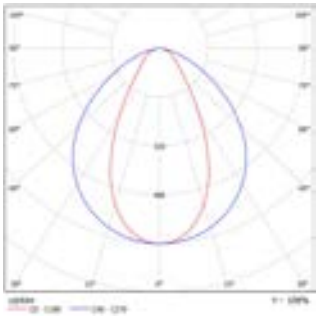
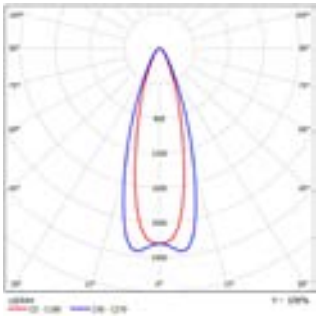
- Wide beam
- Very homogeneous illumination
- Large line light intervals also in the case of low installation heights

N **N-Optics**
high industrial facilities

- Narrow beam
- Narrow radiation characteristics
- Optimized for high light points

XN **XN-Optics**
high-bay warehouses

- Very narrow radiation
- Ideal for very high light points



LIGHT LINE SYSTEMS

IL2 PLUS – SENSORS

Sensors

STEINEL IS 3360 MX

TECHNICAL SPECIFICATIONS	
Integration	Sensor integrated in adapter box
Daylight sensor	✓
Presence sensor	✓, including constant lighting control
Version	Motion detector with daylight control
Type of sensor	Passive infrared
Interface control system	DALI
Dimming	only via DALI Master or DALI control
Ambient temperature range	-20 °C to +50 °C
Required support rail	7-wire version
INSTALLATION DATA	
Installation height	4 – 14 m
Detection range	Can be adjusted via cover panel
Area of coverage	Range radial Ø 12 m (113 m²) / Range tangential Ø 36 m (1,018 m²)
Light sensor working area	2 – 1,000 lx
APPLICATION	
Scope of application	Area sensor for production workshops, warehouses and logistics buildings
Number of adjustable light points	30

Accessories

Steinel remote control

- Easy and safe commissioning
- Daylight and presence function can be activated individually
- Operation by smartphone via app
- To configure the Steinel sensors
- IR transmission
- Data storage possible
- Different scenes selectable

STEINEL IS 345 MX

TECHNICAL SPECIFICATIONS	
Integration	Sensor integrated in adapter box
Daylight sensor	✓
Presence sensor	✓, including constant lighting control
Version	Motion detector with daylight control
Type of sensor	Passive infrared
Interface control system	DALI
Dimming	only via DALI Master or DALI control
Ambient temperature range	-20 °C to +50 °C
Required support rail	7-wire version
INSTALLATION DATA	
Installation height	4 – 14 m
Detection range	Can be adjusted via cover panel
Area of coverage	Radial range 30 x 4 m (120 m²) / Tangential range 30 x 4 m (120 m²)
Light sensor working area	2 – 1,000 lx
APPLICATION	
Scope of application	Passageway sensor for high-bay warehouses, logistics buildings and production workshops
Number of adjustable light points	30

IL UP.
SIMPLE. INNOVATIVE.
SUSTAINABLE.

LED UNIT
L80B10 after 60,000 h

PROTECTION CLASS
IP65

EASY-TO-CLEAN
Smooth surfaces
without cooling fins

DESIGN
Flat design, clear lines

ACCESSORIES
Replaceable glass protective screen for extreme environmental conditions, adjustable holder

OPTICS
2 different optics for optimized light at every height

THERMAL MANAGEMENT

Permanent temperature monitoring of the LED and electronic driver, temperature range from -30 °C to +70 °C

VARIATIONS

Different light colors (4,000 k, 5,000 K, 6,500 k) and performance levels available (8,000 – 38,000 lm)

ELECTRICAL DRIVER ELECTRONICS

DALI with additional option Constant Light Output (CLO)

SHOCK RESISTANCE / IMPACT RESISTANCE

IK10 (protective screen)

UGR <22

Industry-compliant according to DIN EN 12464-1 for industry workplaces

reddot award 2016
winner

HIGH BAY LIGHTS

IL UP

High performance optics: Homogenous light pattern without color shifts and unique glare control

Universal: Temperature ranges from -25 °C to +70 °C (Il Up L to + 60 °C)

Flexible: Different optics for different applications

Efficient: Mid-power LEDs with up to 167 lm/W

Other advantages:

- Variants from 8,000 lm to 37,000 lm
- Lighting concept with intelligent driver and DALI, Constant Light Output
- Protection Class IP65
- Basic body made of die-cast aluminum
- Flat design, no cooling fins
- Simple installation
- Oil-resistant
- Replaceable glass protective screen offers protection in tough environmental conditions (optional) IK10
- Electronic drivers can be individually replaced
- 20-year availability of replacement parts
- Development and production in Germany

Application areas:

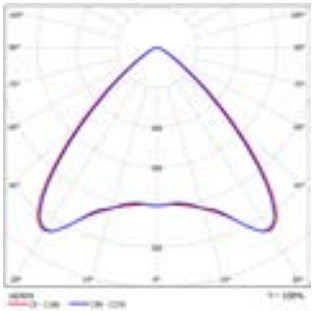
- Halls
- Warehouse
- Manufacturing facilities
- Logistics
- Gyms

Technical specifications

	IL UP M	IL UP L
LIGHTING FIXTURES BODY		
Material	Aluminum die cast	Aluminum die cast
Coloring (powder coating)	RAL 9005 / RAL 9006	RAL 9005 / RAL 9006
Mounting type	Adjustable holder, cable suspension, 1-point suspension	Adjustable holder, cable suspension, 1-point suspension
Dimensions (length x width x height)	476 x 403 x 117 mm	585 x 476 x 117 mm
Weight	8.2 kg	10.8 kg
IP Protection class	IP65	IP65
PHOTOMETRIC PROPERTIES		
Light source type	380 mid-power LEDs	570 mid-power LEDs
Optical system	Wide and narrow beam light distribution	Wide and narrow beam light distribution
Angle of radiation	86° (W-Optics), 54° (N-Optics)	86° (W-Optics), 54° (N-Optics)
Rated luminous flux	8,000 – 24,000 lm	20,500 – 37,000 lm
(UGR) Unified Glare Rating	19 / 20 (W-Optics) / 17 / 18 (N-Optics)	19 / 20 (W-Optics) / 17 / 18 (N-Optics)
Dimming (Power control)	DALI / DALI CLO	On – Off / DALI / DALI CLO
Temperature management	✓	✓
Constant Light Output (CLO)	✓	✓
ELECTRICAL PROPERTIES		
Protection class	Protection Class I	Protection Class I
Rated voltage / operating voltage	220 – 240 V	220 – 240 V
Frequency	50 / 60 Hz	50 / 60 Hz
INSTALLATION SUGGESTIONS		
Application areas	Halls, warehouses, production facilities, logistics	Halls, warehouses, production facilities, logistics
Installation height	6 – 30 m	6 – 30 m
Admitted ambient temperature (ta)	-25 °C to +70 °C (Special versions)	-25 °C to +60 °C (Special versions)
OTHER PROPERTIES		
Certificate	CE, ENEC 25, D, TÜV, DIN 10500	CE, ENEC 25, D, TÜV, DIN 10500
OPTIONS		
Wireless Communication	In combination with sensors and simple control software	In combination with sensors and simple control software
Tempered glass protective screen	Optionally extendable to IK10	Optionally extendable to IK10
Outdoor use	Possible upon request	Possible upon request

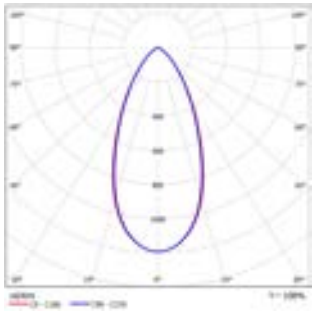
Optics and light distributions for all variants

W **Production workshops**



Symmetrical

N **High industrial facilities**



Asymmetric wide beam

Accessories

Universal bracket:

The Il UP can be flexibly and safely installed because of its adjustable wall or ceiling bracket - it is also impact resistant if used in sports facilities.

Single-point suspension

Wire cables

LUNUX

FUNCTIONAL LUMINAIRES

BASIC

Innovative: Easy replacement of the modules as a Plug & Play system

Modular design allows installation of the LED module directly on the ceiling

Integrated: Thermal management

Controls: Dimming

Other advantages:

- Energy efficiency
- Weather resistance
- Optimized light distribution
- Minimum of 80% luminous flux after an average lifetime of 100,000 operating hours
- Mercury-free
- Upgradeable through plug connection
- Development and production in Germany

Application areas:

- Factory facilities
- Production workshops
- Petrol stations
- Parking garages
- Outdoor areas

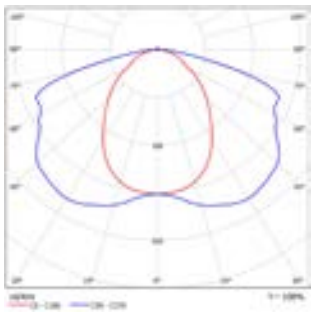
Technical specifications

	BASIC 2500 LM	BASIC 3400 LM	BASIC 3600 LM
LIGHTING FIXTURES BODY			
Mounting type	Mounting brackets for direct screwing		
Dimensions (length x width x height)	466 x 78 x 62 mm		
Weight	1.3 kg		
IP Protection class	IP65		
Glass type	PMMA / PC		
Shock resistance / impact resistance	IK08		
PHOTOMETRIC PROPERTIES			
Light source type	LED module each with 14 LEDs	LED module each with 28 LEDs	LED module each with 14 LEDs
Rated luminous flux (per module)	2,500 lm	3,400 lm	3,600 lm
Dimming (Power control)	Night-time dimming 100 % / 50 %, switch 100 % / 10 % or controllable with common DALI controllers*	Night-time dimming 100 % / 50 %, switch 100 % / 10 % or controllable with common DALI controllers*	Night-time dimming 100 % / 50 %, switch 100 % / 10 % or controllable with common DALI controllers*
ELECTRICAL PROPERTIES			
Protection class	Protection Class II	Protection Class I	Protection Class II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz		
INSTALLATION SUGGESTIONS			
Application areas	Factory facilities, production workshops, petrol stations, parking facilities, outdoor areas		
Installation height	2 - 6 m		
Admitted ambient temperature (ta)	-25 °C to + 35 °C		
OTHER PROPERTIES			
Certificate / energy efficiency class	A++ DIN 10500	A++	A++

* List of compatible controllers on request

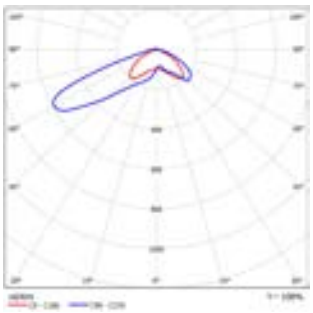
Optics and light distributions for all variants

P **Parking garages and underground garages**



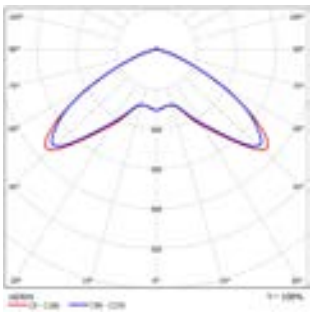
symmetrical

P **Parking garages and underground garages**

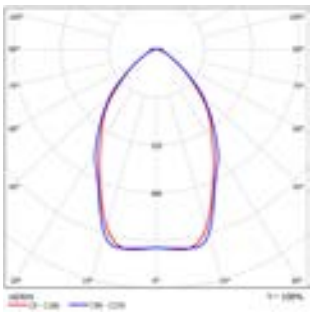


asymmetrical

I **Petrol stations, parking garages and parking decks**



G **Petrol stations**



Accessories

Shade:

The elegant shade, made of high-quality stainless steel, is resistant to corrosion. It serves to round off the design and as an LED module mount for all moisture-proof luminaires.

Basic module holder:

The Basis module mount enables all moisture-proof modules to be installed on the ceiling quickly and flexibly. It is possible to implement both light points as well as through-wired luminaire variations.

LUNUX

FUNCTIONAL LUMINAIRES

FRAME

Modular design enables coupling of the LED module to the housing

Optimized light distribution

Robust: Weather resistance

Controls: Dimming

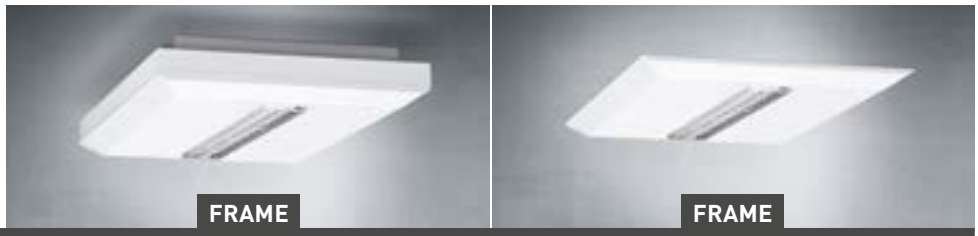
Other advantages:

- Energy efficiency
- Modules can be easily replaced with a Plug & Play system at any time
- Integrated thermal management
- Minimum of 80% luminous flux after an average lifetime of 100,000 operating hours
- Development and production in Germany

Application areas:

- Petrol stations
- Parking garages
- Outdoor areas

Technical specifications

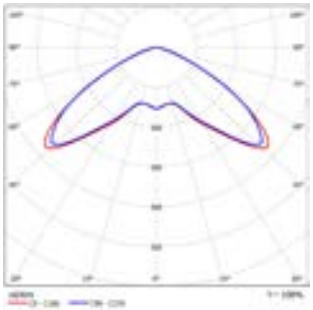


LIGHTING FIXTURES BODY	SURFACE-MOUNTED LUMINAIRE				RECESSED LUMINAIRE			
Material	Cover lens module made of PMMA. Housing and mounting bracket made of galvanized steel							
Coloring (powder coating)	Painted in RAL 9003 (signal white)							
Mounting type	Ceiling mounted, perforated frames. Modules are clipped in to mounts				Ceiling mounting: Mounting angle for variable ceiling thicknesses (up to 120 mm), installation height including connection box: 155 mm			
Dimensions (length x width x height)	557 x 411 x 92 mm				557 x 411 mm (outside cover), installation dimensions (L x W): 360 x 320 mm (indoor)			
Weight	Housing 4.8 kg	1 module 5.8 kg	2 modules 6.7 kg	3 modules 7.7 kg	Housing 4.5 kg	1 module 5.5 kg	2 modules 6.4 kg	3 modules 7.4 kg
IP Protection class	IP65							
Glass type	PMMA							
Shock resistance / impact resistance	IK08							
PHOTOMETRIC PROPERTIES								
Light source type	Recessed or surface-mounted luminaires with 1, 2 or 3 LED modules each with 14 LEDs or 28 LEDs							
Optical system	I- or G-Optics, PMMA single optics							
Rated luminous flux	2,500 / 5,000 / 7,500 / 10,000 / 15,000 lm							
Dimming (Power control)	Night-time dimming or DALI							
Temperature management	NTC control							
ELECTRICAL PROPERTIES								
Protection class	Protection Class II							
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz							
INSTALLATION SUGGESTIONS								
Application areas	Petrol stations, parking facilities, outdoor areas							
Installation height	2 – 6 m							
Admitted ambient temperature (ta)	-40 °C to +40 °C							
OTHER PROPERTIES								
Certificate / energy efficiency class	CE, EAC, VDE, EMC, A++, A+, A, DIN 10500							

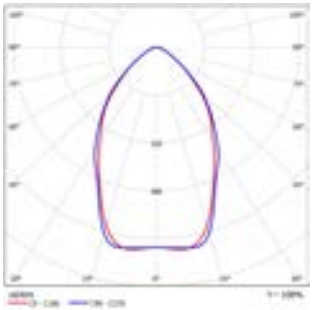
VERSION	SURFACE-MOUNTED LUMINAIRE		RECESSED LUMINAIRE	
				
	2 modules	3 modules	2 modules	3 modules

Optics and light distributions for all variants

I **Petrol stations, parking garages and parking decks**



G **Petrol stations**



LUNUX

FUNCTIONAL LUMINAIRES

BOX

Innovative: Easy replacement of the modules as a Plug & Play system

Modular design enables coupling of the LED module to the housing

Integrated thermal management

Controls: Dimming

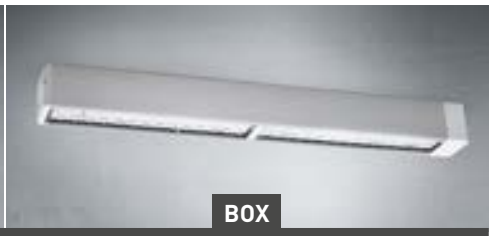
Other advantages:

- Energy efficiency
- Modules can be easily replaced via the Plug & Play system at any time
- Weather resistance
- Optimized light distribution
- 20-year replacement part guarantee
- Minimum of 80% luminous flux after an average lifetime of 100,000 operating hours
- Mercury-free
- Development and production in Germany

Application areas:

- Factory facilities
- Production workshops
- Petrol stations
- Parking garages
- Outdoor areas

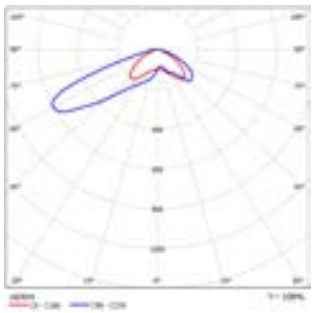
Technical specifications



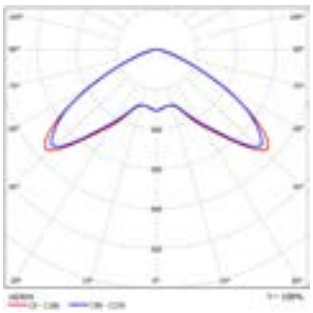
LIGHTING FIXTURES BODY	1 MODULE	2 MODULES
Material	Housing made of extruded aluminum profile, connection box and end caps made of PC	
Coloring (powder coating)	Painted similar to RAL 9006	
Mounting type	Direct screw coupling for ceiling installation	
Dimensions (length x width x height)	499 / 515 x 103 x 105 mm	960 / 978 x 103 x 105 mm
Weight	2.7 / 3.0 / 3.3 kg	5.2 / 5.5 / .7 kg
IP Protection class	IP65	
Glass type	PMMA	
PHOTOMETRIC PROPERTIES		
Light source type	1 or 2 Eco modules with 14 LEDs or 28 LEDs	
Optical system	P-, I-, G-Optics, PMMA single optics	
Dimming (Power control)	Night-time dimming or DALI	
Temperature management	NTC control	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Factory facilities, production workshops, petrol stations, parking facilities, outdoor areas	
Installation height	2 – 6 m	
Admitted ambient temperature (ta)	-40 °C to + 40 °C	
OTHER PROPERTIES		
Certificate / energy efficiency class	CE, ENEC, VDE, EMC, A++, A+, A, DIN 10500	

Optics and light distributions for all variants

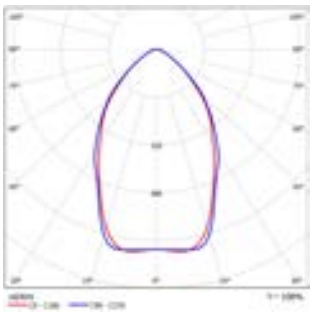
P **Parking garages and underground garages**



I **Petrol stations, parking garages, and parking decks**



G **Petrol stations**



LUNUX

MOISTURE-PROOF LUMINAIRES

IL FORTA

Economical: Reduced operating costs for existing moisture-proof luminaires

Easy installation: Simple installation

Robust: IP66 and IK08

Effizient: LED modules with 115 and 135 lm/W

Other advantages:

- Energy efficiency
- Proven housing concept
- Installation without need to open the luminaire
- Version with through wiring
- Mounting accessories included
- 80% luminous flux after an average service lifetime of 50,000 operating hours
- Development and production in Germany

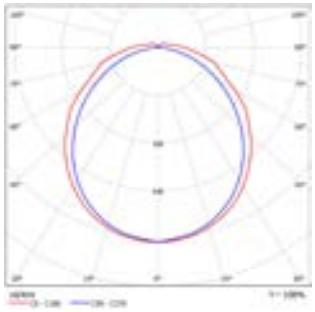
Application areas:

- Factory facilities
- Production workshops
- Logistics buildings
- Canopies
- Car wash

Technical specifications

	IL FORTA ST		IL FORTA HE	
LIGHTING FIXTURES BODY	**IL FORTA ST 1.2**	**IL FORTA ST 1.5**	**IL FORTA HE 1.2**	**IL FORTA HE 1.5**
Material	Housing trough: Fiberglass reinforced polyester, cover: PMMA			
Coloring	Housing trough RAL 7035			
Mounting type	Chain suspension, ceiling mounting, wall mounting			
Dimensions (length x width x height)	1,213 mm (DV + 48 mm) x 76 mm x 67 mm	1,493 mm (DV + 48 mm) x 76 mm x 67 mm	1,213 mm (DV + 48 mm) x 76 mm x 67 mm	1,493 mm (DV + 48 mm) x 76 mm x 67 mm
Weight	1.9 kg	2.3 kg	1.9 kg	2.3 kg
Shock resistance / impact resistance	IK08			
IP Protection class	IP66			
PHOTOMETRIC PROPERTIES				
Light source type	LED modul			
Optical system	Wide-angle light distribution			
Rated luminous flux	4,200 lm	5,700 lm	4,000 lm	6,000 lm
Dimming (Power control)	On – Off / DALI			
Sensor	Variante mit integriertem HF Sensor erhältlich			
ELECTRICAL PROPERTIES				
Protection class	Protection Class I			
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz			
INSTALLATION SUGGESTIONS				
Application areas	Factory, production and logistics buildings, canopies, car washes, parking garages			
Installation height	2 – 6 m			
Permissible ambient temperature at (ta)	-25 °C to +35 °C			
OTHER PROPERTIES				
Certificate	CE, A+, DIN 10500		CE, A++, DIN 10500	
Assembly	with the included mounting accessories			
Connection	with included plug		via supplied mounting accessories, anti-theft clamps optional	
Electrical design	Single-ended connection (Z) or through-wiring (DV)			
Emergency light	Battery 3 h			
Sensors	Can be integrated (on request)			

Optics and light distributions



LUNUX

PANEL LIGHTING

OFFICE ECO

Illumination: Particularly homogenous and wide illumination

Efficient: Sustainable concept with technology guarantee

Flat, robust design

Flexible: Available in the size variations Eco 600 and Eco 1200

Other advantages:

- Patented light control
- Special versions for computer workstations
- Extremely flat structural shape
- Sleek design with diffuse lens
- Standard dimensions for easy installation in existing infrastructures
- Installation packet for additional installation situations can be ordered separately

Application areas:

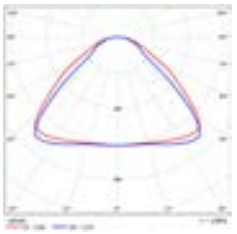
- Offices
- Hotels
- Reception areas
- Conference rooms
- Hallways

Technical specifications

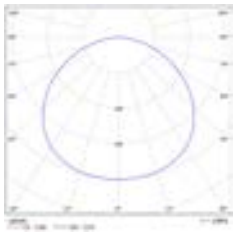
OFFICE ECO

LIGHTING FIXTURES BODY	600		1200	
Material	Housing made of aluminum, white			
Mounting type	Ceiling recessed	Ceiling suspension	Ceiling recessed	Ceiling suspension
Dimensions	625 x 625 mm	600 x 600 mm	1,250 x 312.5 mm	1,200 x 300 mm
IP Protection class	IP20			
PHOTOMETRIC PROPERTIES				
Optical system	Prism / translucent			
Rated luminous flux	4,200 lm			
Dimming (Power control)	On – Off / DALI			
ELECTRICAL PROPERTIES				
Protection class	Protection Class I			
Rated voltage / operating voltage	230 V			
Frequency	50 / 60 Hz			
INSTALLATION SUGGESTIONS				
Application areas	Offices, hotels, reception and conference rooms, corridors			
Admitted ambient temperature (ta)	-20 °C to +45 °C			
OTHER PROPERTIES				
Certificate	CE ENEC 05			
OPTIONS				
Suitable for use with computer workstations	UGR 19 with prism structure			

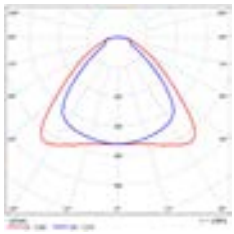
Optics and light distributions



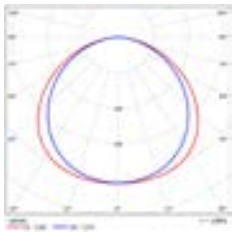
With prisms



Without prisms



With prisms



Without prisms

DESIGN FOR 600 AND 1200	CEILING RECESSED	CEILING SURFACE MOUNTED	CEILING SUSPENSION

LUNUX

WALL AND CEILING LIGHTS

SPACE ECO

Cost-effective: Operating cost savings and long service life

Easy installation: Easy assembly

Robust: IP44 dust-proof for high requirements

Optics: Very evenly illuminated cover

Other benefits:

- Very homogeneous illumination
- Classic design
- Universal application
- Brand electrical ballast
- Easy assembly

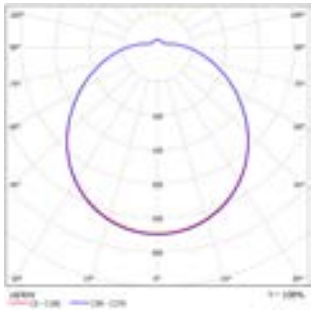
Applications:

- Staircases
- Hallways
- Passages
- Corridors

Technical specifications

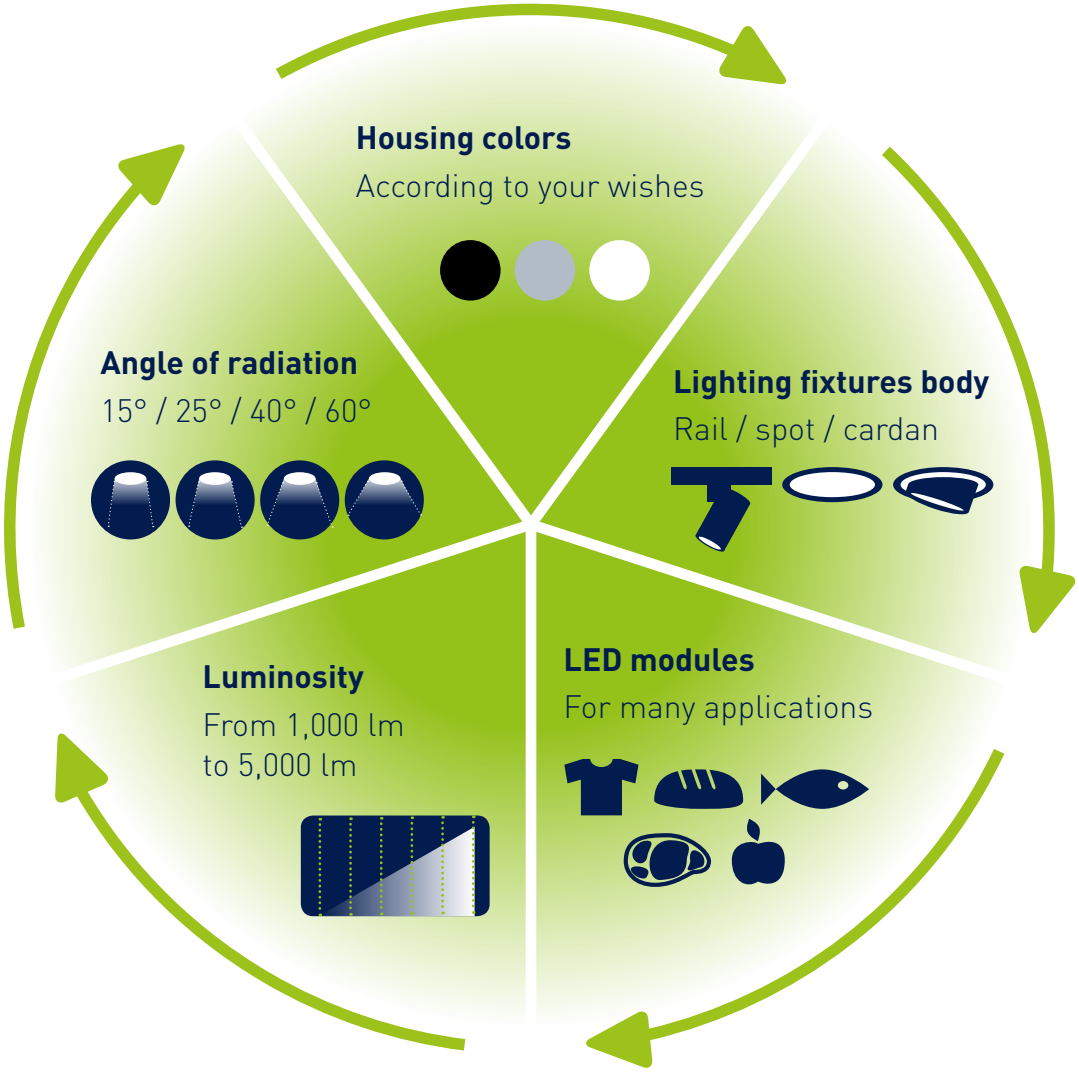
	SPACE ECO	
LIGHTING FIXTURES BODY		
Material	Housing base unit: painted sheet steel cover: PMMA	
Colour	Housing base unit RAL 9010	
Mounting type	Ceiling or wall mounting	
Dimension (diameter x height)	Ø 360 x 105 mm	Ø 410 x 115 mm
Weight	0.8 kg	1.0 kg
IP Protection class	IP44	
PHOTOMETRIC PROPERTIES		
Light source	Mid-Power LEDs	
Optical system	Wide-angle light distribution	
Rated luminous flux	1,600 lm	2,000 / 2,600 lm
Dimming (Power control)	On / Off	
Sensor	Version with integrated HF sensor available	
ELECTRICAL PROPERTIES		
Electrical protection class	SK I	
EB	Branded electrical ballast	
Rated voltage / operating voltage	220 - 240 V / 50 – 60 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Staircases, hallways, passages and corridors	
Installation height	1.5 – 4 m	
Permissible ambient temperature range at (ta)	-20° C to +35° C	
OTHER PROPERTIES		
Certificate	CE A+	
Mounting	with supplied mounting accessories	

Optics and light distribution




Bedien dich!
KAFFEE & TEE
2.90
Noch einen Kaffee?

Customized lighting according to your wishes – it's your choice



Quality

5 YEARS

Zhaga

LUNUX

BUSBAR SPOTLIGHTS

PACTA

Flexible: Reflector can be changed without tools, different angles of radiation available

Universal adapter for 3-phase busbars

Zhaga standard

Compact, subtle design, Lighting fixtures body made of die-cast aluminum

Other advantages:

- High efficiency aluminum reflectors
- High quality protective glass, over 99% transmission
- High luminous efficiency, of up to > 90%
- Passive cooling
- Can be tilted and pivoted
- Universal adapter for 3-phase busbars
- Components from well-known manufacturers
- LED lifetime: 50,000 hours to 70% luminous flux
- 5-year system warranty

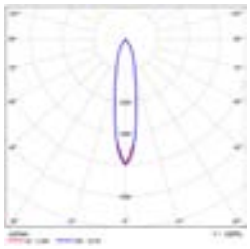
Application areas:

- Sales rooms
- Conference rooms
- Showrooms
- Reception areas

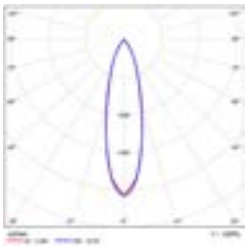
Technical specifications

	PACTA
LIGHTING FIXTURES BODY	
Material	Aluminum die casting
Coloring (powder coating)	White / Silver / Black
Mounting type	Mounting on 3-phase busbars
Orientation possibilities	Can be tilted and pivoted (350 °)
Dimensions (diameter x height)	Ø 88 x 117 mm (without adapter)
Weight	920 g
IP Protection class	IP20
Glass type	Transmission glass (> 99 %)
PHOTOMETRIC PROPERTIES	
Optical system	Reflector technology
Angle of radiation	25° / 35°
Rated luminous flux	2,000 – 4,000 lm
Dimming (Power control)	On – Off
ELECTRICAL PROPERTIES	
Protection class	Protection Class II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
INSTALLATION SUGGESTIONS	
Application areas	Sales and conference areas, showrooms, reception areas
OTHER PROPERTIES	
Certificate	CE A A+ A++

Optics and light distributions



20°



35°

LUNUX

BUSBAR SPOTLIGHTS

TEGA

Flexible: Reflector can be changed without tools, different angles of radiation available

Universal adapter for 3-phase busbars

Zhaga standard

Elegant design

Lighting fixtures body made of die-cast aluminum

Other advantages:

- Elegant design, lighting fixtures body made of die-cast aluminum
- Cooling unit and housing are made in one cast
- High efficiency aluminum reflectors
- High quality protective glass, over 99% transmission
- High luminous efficiency, of up to > 90%
- Passive cooling
- Can be tilted and pivoted
- Universal adapter for 3-phase busbars
- Components from well-known manufacturers
- LED lifetime: 50,000 hours to 70% luminous flux
- 5-year system warranty

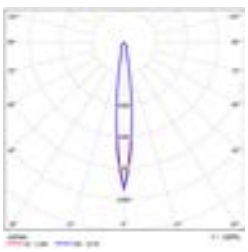
Application areas:

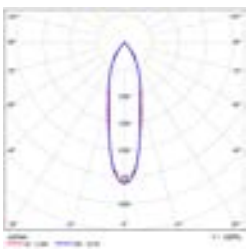
- Sales rooms
- Conference rooms
- Showrooms
- Reception areas

Technical specifications

	TEGA	TEGA XS
LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	White / Silver / Black	
Mounting type	Mounting on 3-phase busbars	
Orientation possibilities	Can be tilted and pivoted (350 °)	
Dimensions (diameter x height)	Ø 115 x 129 mm (without adapter)	Ø 93 x 78 mm (without adapter)
Weight	1,355 g	1,000 g
IP Protection class	IP20	
Glass type	Transmission glass (> 99 %)	Transmission glass (> 99 %)
PHOTOMETRIC PROPERTIES		
Optical system	Reflector technology	
Angle of radiation	15° / 25° / 40° / 60°	
Rated luminous flux	2,000 – 5,000 lm	2,000 – 4,500 lm
Dimming (Power control)	On – Off / DALI	
ELECTRICAL PROPERTIES		
Protection class	Protection Class II	
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Sales and conference areas, showrooms, reception areas	
OTHER PROPERTIES		
Certificate	CE A A+ A++	

Optics and light distributions


15°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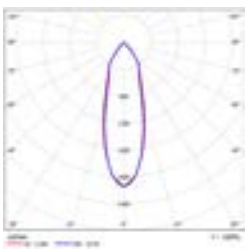
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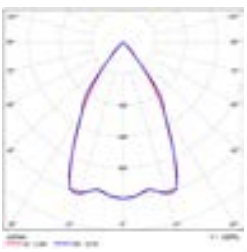

60°

LUNUX

RECESSED SPOTLIGHTS

LYRA

Flexible: Reflector can be changed without tools, different angles of radiation available

Zhaga standard

Elegant design

Lighting fixtures bodymade of die-cast aluminum

High efficiency reflectors made of aluminum

Other advantages:

- High quality protective glass, over 99% transmission
- High luminous efficiency, of up to > 90%
- Passive cooling
- Can be tilted and pivoted
- DALI dimmable (optional)
- Components from well-known manufacturers
- LED lifetime: 50,000 hours to 70% luminous flux
- 5-year system warranty

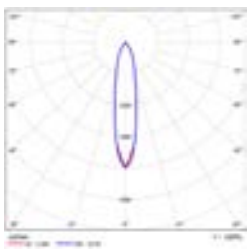
Application areas:

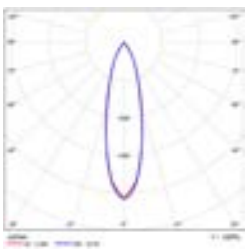
- Sales rooms
- Conference rooms
- Showrooms
- Reception areas

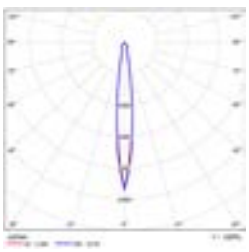
Technical specifications

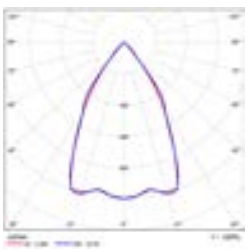
	LYRA 170	LYRA 150	LYRA 110
LIGHTING FIXTURES BODY			
Material	Aluminum die casting		
Coloring (powder coating)	White / Silver / Black		
Mounting type	Ceiling recessed		
Orientation possibilities	can be pivoted gimbals	Can be tilted and pivoted	
Dimension	180 x 120 mm (Ø x h)	170 x 170 x 114 mm (l x b x h)	120 x 110 mm (Ø x h)
Weight	1,005 g	1,100 g	650 g
IP Protection class	IP20		
Glass type	Transmission glass (> 99 %)		
PHOTOMETRIC PROPERTIES			
Light source type	COB LED		
Optical system	Reflector technology		
Angle of radiation	15° / 25° / 40° / 60°		25° / 35°
Rated luminous flux	2,000 – 5,000 lm		2,000 – 3,000 lm
Dimming (Power control)	On – Off / DALI		
ELECTRICAL PROPERTIES			
Protection class	Protection Class II		
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz		
INSTALLATION SUGGESTIONS			
Application areas	Sales rooms, conference rooms, showrooms, reception areas		
Installation dimensions	170 mm (Ø)	150 x 150 mm (l x b)	110 mm (Ø)
OTHER PROPERTIES			
Certificate	CE A A+ A++		

Optics and light distributions


Lyra 110, 20°


Lyra 110, 35°


Lyra 150 / 170, 15°


Lyra 150 / 170, 60°

LUNUX

RECESSED SPOTLIGHTS

NEO

Flexible: Reflector can be changed without tools, different angles of radiation available

Zhaga standard

Compact design

Lighting fixtures body made of die-cast aluminum

High efficiency reflectors made of aluminum

Other advantages:

- High-quality transmission glass, over 99% transmission
- High luminous efficiency, of up to > 90%
- Passive cooling
- Can be tilted and pivoted
- DALI dimmable (optional)
- Components from well-known manufacturers
- LED lifetime: 50,000 hours to 70% luminous flux
- 5-year system warranty

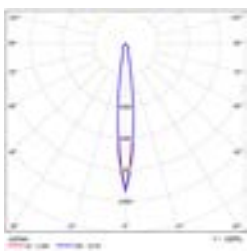
Application areas:

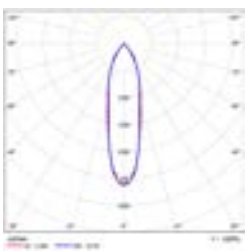
- Sales rooms
- Conference rooms
- Showrooms
- Reception areas

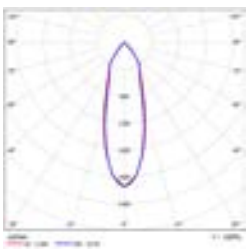
Technical specifications

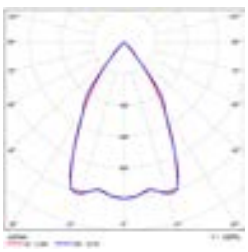
	NEO
LIGHTING FIXTURES BODY	
Material	Aluminum die casting
Coloring (powder coating)	White / Silver / Black
Mounting type	Ceiling recessed
Orientation possibilities	Can be tilted and pivoted
Dimensions (diameter x height)	Ø 170 x 155 mm
Weight	1.340 g
IP Protection class	IP20
Glass type	Transmission glass (> 99 %)
PHOTOMETRIC PROPERTIES	
Light source type	COB LED
Optical system	Reflector technology
Angle of radiation	15° / 25° / 40° / 60°
Rated luminous flux	2,000 – 5,000 lm
Dimming (Power control)	On – Off / DALI
ELECTRICAL PROPERTIES	
Protection class	Protection Class II
Operating voltage / frequency	220 – 240 V/ 50 – 60 Hz
INSTALLATION SUGGESTIONS	
Application areas	Sales and conference areas, showrooms, reception areas
Installation dimensions (diameter)	Ø 160 mm
OTHER PROPERTIES	
Certificate	CE A A+ A++

Optics and light distributions


15°


25°


40°


60°

LUNUX

SPOTS

COMO 68

Compact design, subtle design

Special reflector with halogen optics

Integrated driver

Can be tilted

Other advantages:

- Dimmable
- Subtle design, compact design
- Lighting fixtures body made of die-cast aluminum
- With integrated driver, direct 230V connection
- Dimensions like halogen recessed spotlight
- Suitable for through wiring

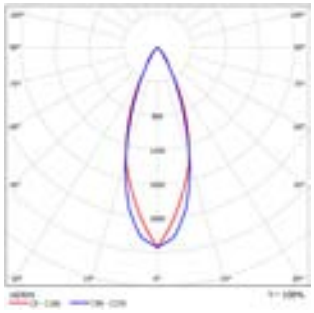
Application areas:

- Sales rooms
- Conference rooms
- Showrooms
- Reception areas

Technical specifications

	COMO 68
LIGHTING FIXTURES BODY	
Material	Aluminum die casting
Coloring (powder coating)	White / Silver
Mounting type	Ceiling recessed
Orientation possibilities	Can be tilted
Dimensions (diameter x height)	Ø 86 x 62 mm
Weight	170 g
IP Protection class	IP20
PHOTOMETRIC PROPERTIES	
Optical system	Reflector technology
Angle of radiation	38°
Rated luminous flux	600 lm
Dimming (Power control)	On – Off
ELECTRICAL PROPERTIES	
Operating voltage / frequency	220 – 240 V / 50 Hz
INSTALLATION SUGGESTIONS	
Application areas	Sales and conference areas, showrooms, reception areas
Specific installation	Ceiling thickness: 1 – 25 mm
Installation dimensions (diameter x depth)	Ø 68 x min. 120 mm
Admitted ambient temperature (ta)	max. 45 °C
OTHER PROPERTIES	
Certificate	CE A+

Optics and light distributions



38°

LUNUX

SPOTS

COMO 170/210

Form: Flat Downlight

Effi cient: High effi ciency thanks to COB-LED

Lifespan: quality product with over 100,000h lifetime

Light quality: High color accuracy of 2 SDCM

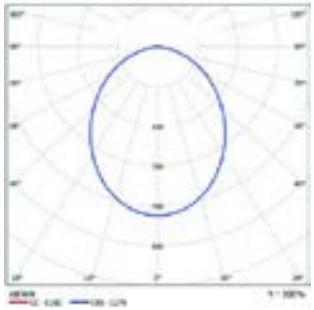
Application areas:

- Salesrooms
- Conference rooms
- Showrooms
- Reception areas

Technical specifications

	COMO 170	COMO 210
LIGHTING FIXTURES BODY		
Material	Aluminum die casting	
Coloring (powder coating)	White	
Mounting type	Ceiling installation	
Dimensions (diameter x height)	Ø 196 x 70 mm	Ø 242 x 66.7 mm
IP Protection class	IP44 (room-side) / IP 20	
PHOTOMETRIC PROPERTIES		
Light source	COB-LED	
Optical system	Frosted glass	
Angle of Radiation	95°	
Rated luminous flux	1,600 lm / 1,900 lm / 2,500 lm	3,400 lm
Colour accuracy	2 SDCM	
ELECTRICAL PROPERTIES		
Protection class	SK II	
Operating voltage / Frequency	220 – 240 V / 50 Hz	
INSTALLATION SUGGESTIONS		
Application areas	Salesrooms, conference rooms, showrooms, reception areas	
Installation dimensions	Ø 170 mm	Ø 210 mm
Permissible ambient temperature (ta)	0 °C bis +30 °C	
OTHER PROPERTIES		
Certificate	CE A+	

Optics and light distributions



38°

LUNUX

SUSPENDED LIGHTING

PARUM

Flexible: Reflector can be changed without tools, different angles of radiation available

Zhaga standard

Elegant design

Other advantages:

- Lighting fixtures body made of die-cast aluminum
- High efficiency aluminum reflectors
- High quality protective glass, over 99% transmission
- High luminous efficiency of up to > 90%
- Passive cooling
- Components from well-known manufacturers
- LED lifetime: 50,000 hours to 70% luminous flux
- 5-year system warranty

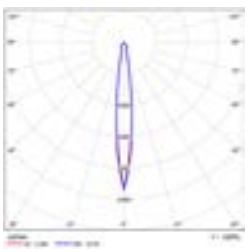
Application areas:

- Sales rooms
- Conference rooms
- Showrooms
- Reception areas

Technical specifications

	PARUM
LIGHTING FIXTURES BODY	
Material	Housing made of die-cast aluminum
Coloring (powder coating)	White / Silver / Black
Mounting type	Wire suspension
Dimensions (diameter x height)	Ø 320 x 250 mm
IP Protection class	IP20
Glass type	SIFLEX transmission glass (> 99 %)
PHOTOMETRIC PROPERTIES	
Light source type	COB LED
Optical system	Reflector technology
Angle of radiation	15° / 25° / 40° / 60°
Rated luminous flux	2,000 – 5,000 lm
Dimming (Power control)	On – Off / DALI
ELECTRICAL PROPERTIES	
Protection class	Protection Class II
Operating voltage / frequency	220 – 240 V / 50 – 60 Hz
INSTALLATION SUGGESTIONS	
Application areas	Sales and conference areas, showrooms, reception areas
OTHER PROPERTIES	
Certificate	CE A A+ A++

Optics and light distributions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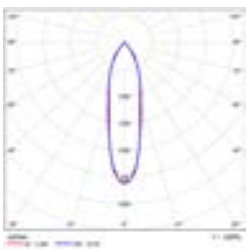
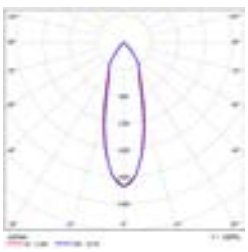

25°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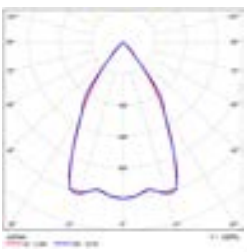

60°

7 good reasons for LUNUX

Since its introduction, the many excellent qualities of our modular LED lighting technology have fascinated businesses and communities. As part of our current portfolio, we offer innovative, practical, and design-oriented LED light solutions for almost all needs, sectors, and areas. They are always energy efficient, sustainable, reliable, and easy to install. Just as expected from LUNUX.

Our brands:

LUNUX

HELLUX

1

Research and Development

We want to play a decisive role in shaping the future of light, which is why we concentrate our skills on just one area. Above all, we are already investing in better ideas, consistent research, and innovative technology today. The result is impressive: Intelligent luminaires for all areas of life.

2

Quality tests

Of course, we want to be sure that users can rely on our products in every detail. Therefore, all luminaires have to undergo meticulous tests to make sure that they meet with our high-quality requirements and that they are customer-friendly in every sense of the word.

3

Production at the Laatzen location

LUNUX manufactures smart LED lighting solutions "Made in Germany." Luminaires that are exactly aligned to what the applications require. However, this calls for two things: Highly qualified specialists and production facilities, which are state-of-the-art and flexible enough to react even to unusual requests on short notice. And that is exactly what we have!

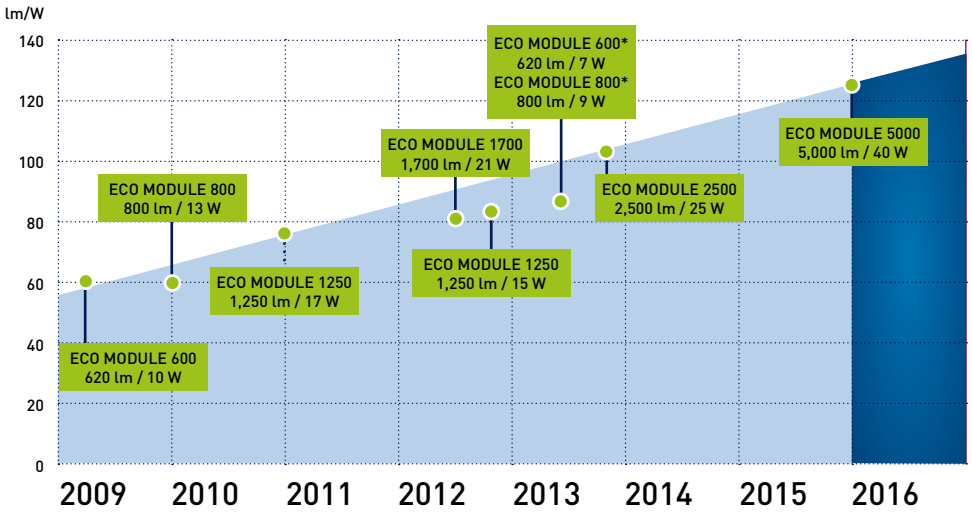
Our Service Center Germany and International: +49 511 820 10-100
Further information: www.lunux-lighting.com

General inquiries:
info@lunux-lighting.com

Sales international:
export@lunux-lighting.com

National sales:
vertrieb@lunux-lighting.com

Development process of a brilliant idea



The ECO Light Revolution

The ECO module system is a brilliant highlight within the rapid success story of LED lighting technology. And this story continues to be written. Most recently with a 5,000 lm module. Good for our customers. Because they benefit from the improved energy efficiency of state-of-the-art module technology by simple modulation. And that still in 20 years from now! This gives the ECO module system a unique, forward-looking dynamic.

Free color selection

The color spectrum of our luminaires covers the entire pallet according to RAL. Open to every taste and every environment. From subtle to brilliant. A color program that inspires light ideas.

4

Ideal lighting concepts for workshops, warehouses, and outdoor areas

LED has changed the world. LUNUX adds a highlight to that. Thanks to intelligent light control, homogeneous illumination, and individual light distribution, we offer extremely efficient, energy-saving and environmentally-friendly light solutions, which are perfectly adapted to the installation site and the surrounding area.

5

Technical consultation on site

A change of system would only be sensible if it pays for itself. This, of course, also applies to a planned switch to LED luminaires. You can find out how much you will be saving which is based on an analysis that we will do according to your specifications. Then you can compare and decide.

6

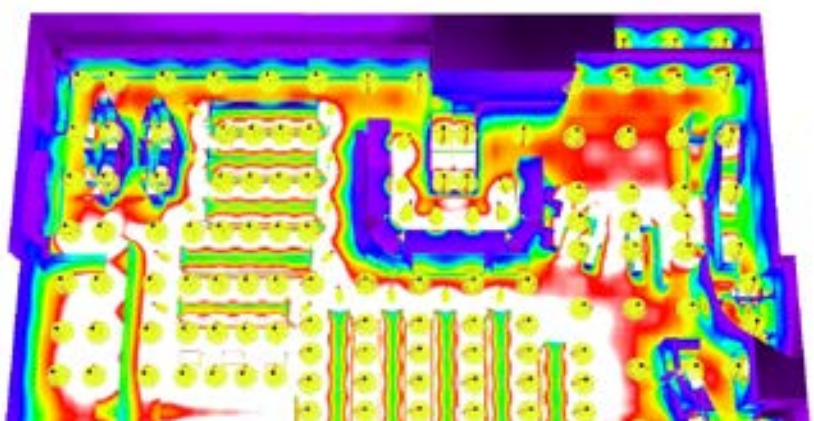
Professional lighting planning

Properly planned light combines conceptual clarity with a functionally suitable space, environment, and conducive application. Moreover, our light planning is always based on an objective association of experience and individual wishes.

7

Special solutions by arrangement

We would be happy to support you thoroughly and professionally in the development of a customized lighting concept. From inventory to the point-by-point determination of the expected operating costs. We are certain that: Together we will always find a lighting solution that perfectly meets your wishes and requirements.



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