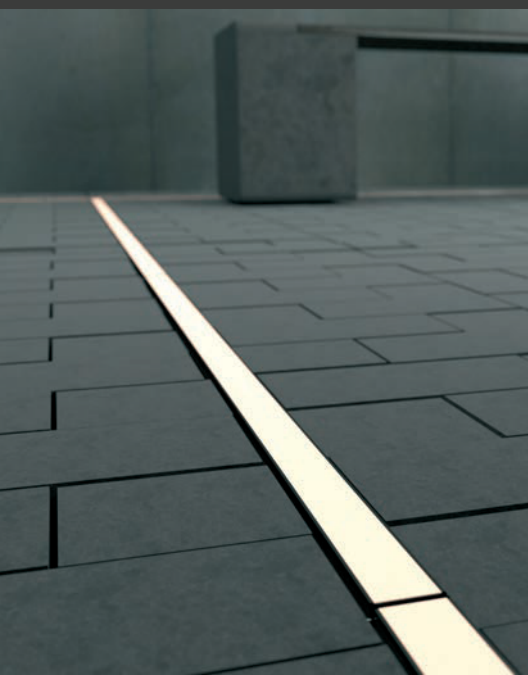




Lighting for urban spaces and architecture





Arnulfparkbrücke, München
LEDLUX LN, facade and light lines



German Football Museum, Dortmund
OHR1 1060 LX, In-ground lights

Light plays a crucial role in the design of cities and buildings—serving as far more than a mere functional necessity.

A high quality of public space, safe traffic routes, and visible landmarks give a city its identity. Intelligent digital control systems help save energy and create dynamic lighting scenes. At the same time, the durability and energy efficiency of lighting systems—along with the reduction of light emissions—are integral to the quality of our lighting solutions.

InstaLighting's lighting tools are designed to blend almost invisibly into the architecture, empowering lighting designers and architects to realize their design concepts to the fullest. We also collaborate with you to develop bespoke solutions tailored specifically to the architecture.



safe traffic areas and handrails

identity and structure
for public places

dark sky and
nature conservation

An isometric architectural rendering of a cityscape on a dark blue background. The city is composed of various geometric shapes representing buildings, streets, and parks. A prominent building in the upper center is highlighted with a vertical rainbow gradient. Another building to its left is highlighted with a yellow-to-green gradient. A third building in the middle right is highlighted with a yellow-to-green gradient. The scene includes a car on a road, a person walking, a truck, and wind turbines in the bottom left. Three black rectangular labels with white text are overlaid on the image, each with a thin white line pointing to a specific feature. The labels are: 'control and dynamics' pointing to the rainbow building, 'recognizable landmarks' pointing to the yellow-green building in the middle, and 'minimalist illumination' pointing to the yellow-green building in the middle right.

control and dynamics

recognizable landmarks

minimalist illumination

Maximally minimal

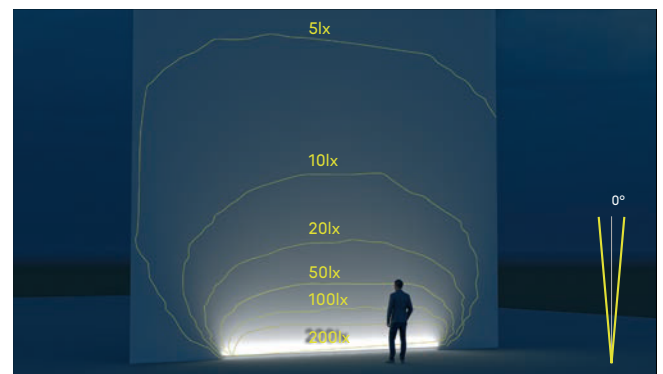
Lots of light – minimal fixture

InstaLighting's lighting solutions focus on the effect of light and integrate seamlessly into diverse architectural concepts. Our „Elements“ and „LEDLUX“ technology platforms, for instance, are designed as modular systems developed specifically to meet the needs of lighting designers. Discreet housing components render the luminaires virtually invisible during the day, while precise micro-reflectors ensure perfect, targeted light distribution at night—free from distracting glare.



In-ground light OGL2 | LEDLUX inside

- directional light, clear cover
- minimalist housing
- ultra-narrow light aperture of just 29 mm
- barely visible during the day
- individually controllable modules for dynamic lighting scenarios
- robust, weather-resistant, and durable thanks to encapsulation technology



Narrow 15°x65° – Position directly against the wall



Humboldt Forum, Berlin
OHR1 4020 LN, handrail light inserts
OGL4 LH2, in-ground lights



Dietrich Oppenberg Haus, Essen
LEDLUX optics LX, light and facade lines
OGL2 LX, in-ground lights

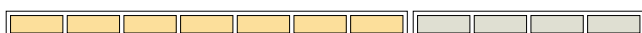
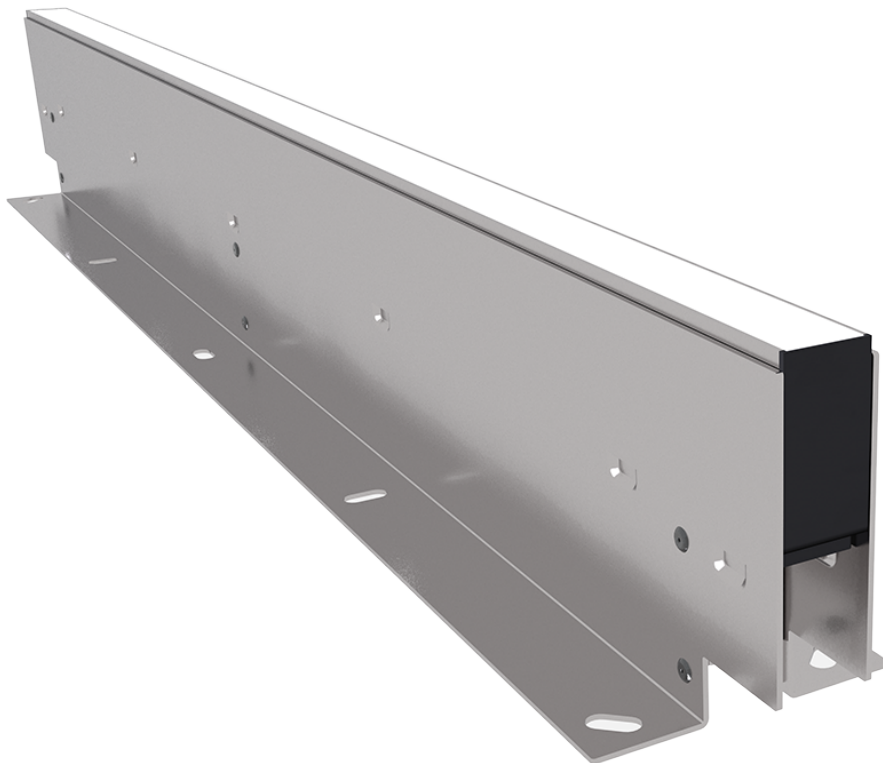


»Placa Disseny«, Barcelona
OGL1 1060 LX, in-ground lights

Structure and Identity

Lighting design for public spaces

Lighting showcases public places and transforms urban spaces into a dynamic stage. The strategic placement of light sources creates evocative atmospheres that shape the cityscape. Whether highlighting historic monuments or modern architecture, lighting accentuates features, creates contrasts, sets focal points, and brings the city to life after dark. Digital control systems such as Casambi, KNX, DALI, and DMX play a pivotal role in this process.



Each light segment of the OGL1 LX ground-line light can be controlled individually, enabling the creation of dynamic lighting scenarios for public spaces.

Bodenlinie OGL1 | LEDLUX inside

- diffused light
- minimalist housing
- ultra-narrow light aperture of just 29 mm, barely visible during the day
- individually controllable modules for dynamic lighting scenarios
- robust, weather-resistant, and durable thanks to encapsulation technology



Kunstmuseum, Stuttgart
OGL1 1060, in-ground lights



Pedestrian zone, Unna
OGL1 1060 LX, in-ground lights



Institute of Music at the University of Applied Sciences, Osnabrück
OS4 2x2, Outdoor spotlights



Central Bus Station, Leverkusen
OS3 1065 B, outdoor spotlights
OS3 1065 A, outdoor spotlights

Facades and vertical surfaces

Integration into Architecture

Facades give a city its character. Different materials react sensitively to the color, direction, and intensity of light. For this reason, InstaLighting's exterior lighting portfolio is structured as a modular system based on two technology platforms: „Elements“ for accent lighting and „LEDLUX“ for linear lighting. The luminaires can be configured to provide the ideal lighting for any application in terms of light distribution, quality, intensity, and color.



Miniature spotlight OS5 | powered by Elements

- minimalist design for subtle architectural integration
- suitable for nature-oriented lighting concepts with minimal environmental impact
- based on the „Elements“ technology platform
- flicker-free dimming from 0% to 100%
- wide range of optics and light colors
- robust thermal management for ambient temperatures from -20°C to +35°C
- external power supply unit

Recognizable landmarks

High-performance optics for precise illumination

Iconic buildings, bridges, and monuments tell the story of a city. Light highlights architectural details, creates contrasts, and gives landmarks a distinctive identity. Especially in the evening hours, key urban locations become visible, standing out against the backdrop of the city's diverse dynamism. InstaLighting offers a range of spotlight families featuring a wide selection of light intensities, high-performance optics, and light colors—providing the perfect solution for a variety of requirements.



Outdoor floodlight family OS4 | powered by Elements

- various sizes for all applications
- aluminum housing with a minimalist design
- free combination of light colors and optics based on the „Elements“ technology platform from InstaLighting
- individually controllable light pixels
- robust, weather-resistant, and durable





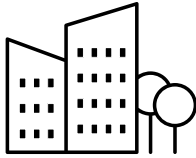
Willemshuisbrug, Rotterdam
LEDLUX LN, light & facade lines
OS1 3050, outdoor spotlights
OS3 1065 A, outdoor spotlights
LEDLUX LN, light & facade lines
LEDLUX LX, light & facade lines
OLL1 4010 LH2, light & facade lines



St. Nikolai Mahnmal, Hamburg
OS1 3050, outdoor spotlights
OS3 1065 A, outdoor spotlights

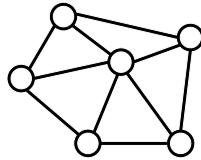
Building automation with KNX

The solution for complex lighting projects and the central control of multiple buildings



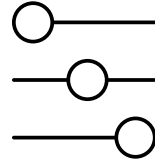
Mesh networks with Casambi

Controlling individual light points without wiring using Bluetooth or Zigbee



Integration of common control technologies

Full-service implementation of control concepts using DALI and DMX – from planning to commissioning.



Control and dynamics

Variable lighting for different occasions

InstaLighting has over 25 years of experience working with all standard lighting control technologies. Our control concepts make luminaires, facades, and buildings intelligent and flexible. This enables the development of dynamic lighting scenarios that allow for the implementation of design concepts ranging from the spectacular to the subtle.

Furthermore, digital control systems make it possible to significantly reduce the energy consumption of a lighting system or analyze user data to improve building efficiency. The digitalization of lighting fixtures thus creates new opportunities for facility managers, lighting designers, investors, and users.



Doha Tower, Qatar
OS1 3050, outdoor spotlights

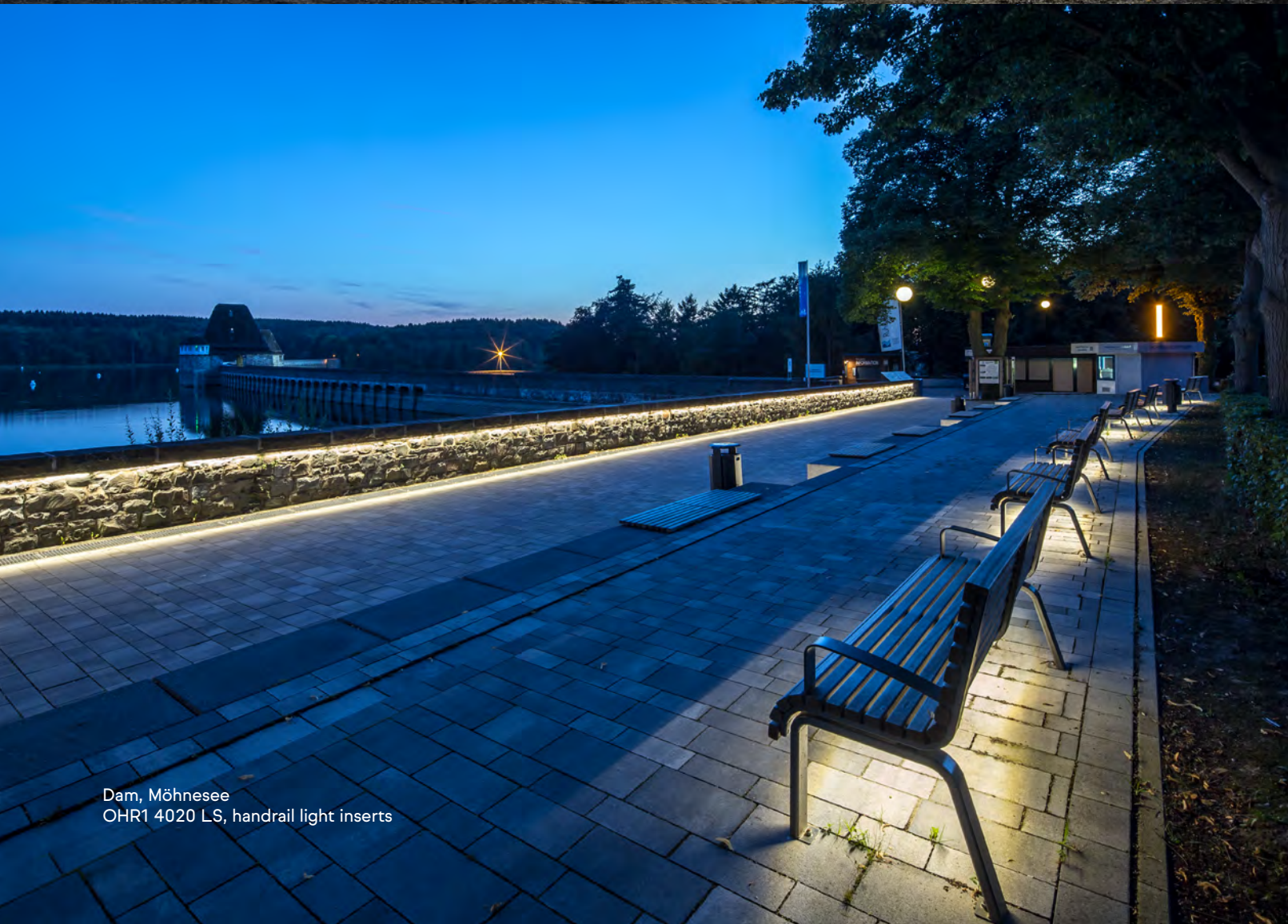


RheinEnergieSTADION, Köln
LEDLUX LX, light & facade lines





Theodor-Heuss-Platz, Dürer
OHR1 4020 LS, handrail light inserts



Dam, Mönchsee
OHR1 4020 LS, handrail light inserts

Dark Skies and Nature Conservation

Creating habitats for people and animals

By reducing excessive artificial lighting, we not only create a breathtaking starry sky but also preserve biodiversity. „Dark Sky“ concepts rely on low-intensity lighting that respects the natural environment. Various design approaches can be combined to achieve this: intelligent planning, warm light tones, lighting controls and dimming sensors, and precision optics that eliminate stray light work together to help us preserve ecosystems and protect natural habitats for nocturnal animals such as bats and owls.



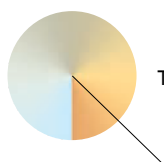
LEDLUX light lines

LEDLUX linear lights can be integrated into street furniture or architectural elements to create environments that are both low-light and safe.



Warm, dimmable light

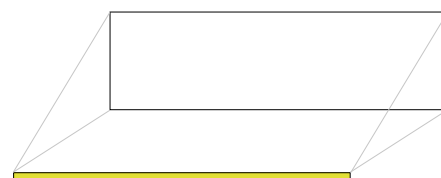
Warm light with a high proportion of yellow, orange, and red attracts fewer insects than cool light.



Tunable White

Precision optics without stray light

Sharply defined illuminated areas ensure reduced stray light and maximum lighting impact.



Safety and Aesthetics

Integrated lighting for footpaths, cycle paths, and traffic areas

Safety and aesthetics must go hand in hand when designing footpaths, cycle paths, and traffic areas. Integrated lighting systems for these paths not only provide orientation in the dark but also enhance safety for road users. At the same time, effective lighting minimizes potential hazards and promotes mobility in urban areas. Modern LED technologies enable energy-efficient solutions that also meet environmental standards.

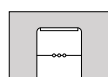
Handrail luminaires from InstaLighting combine all these aspects by flexibly adapting accent and area lighting to the surroundings, while the luminaire itself remains invisible, integrated into the handrail.



Aufbau



40,0 x 40,0 mm



60,0 x 40,0 mm



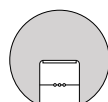
∅ 42,4 mm



∅ 45,0 mm



∅ 48,3 mm



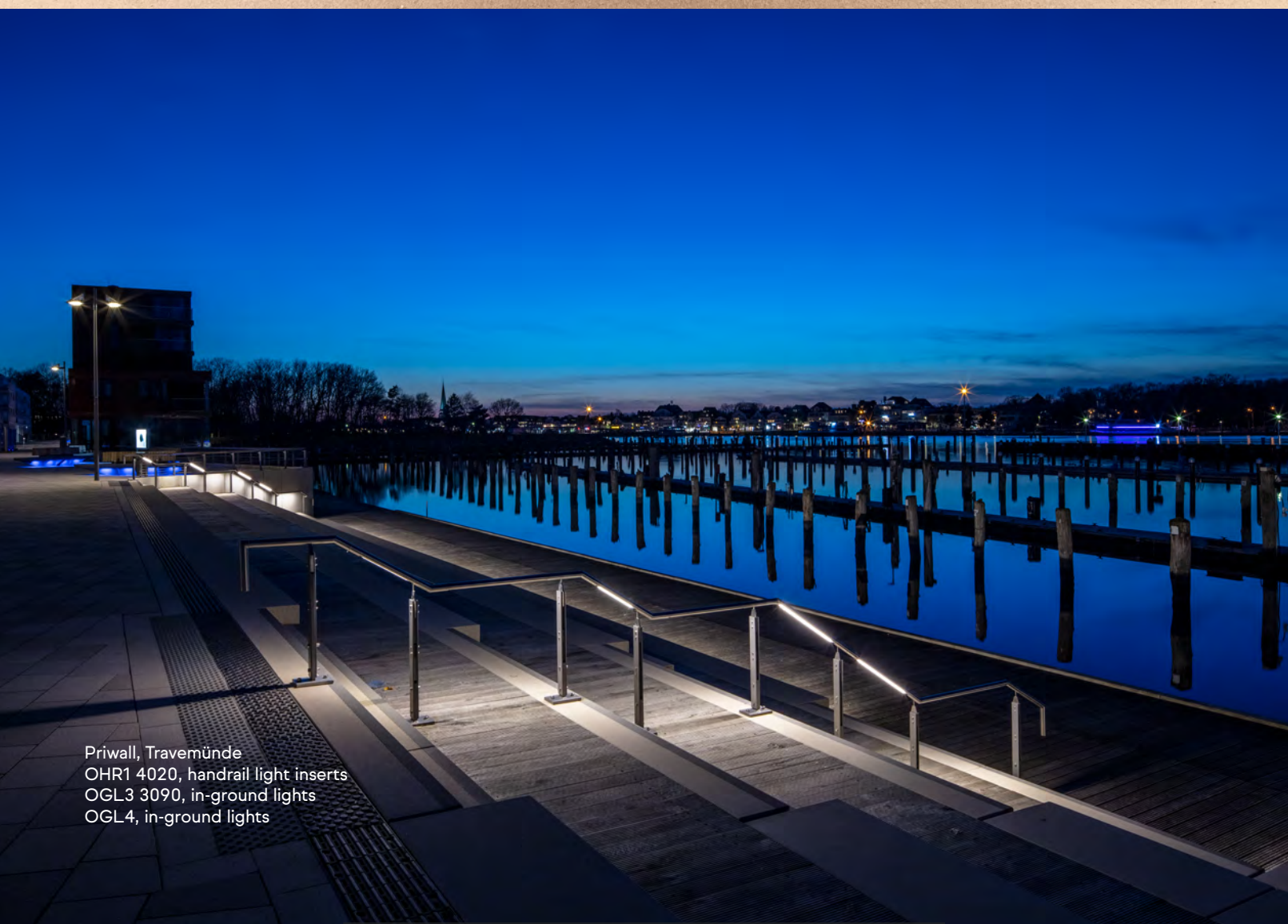
∅ 60,3 mm

OHR Handlauf Lichteinsätze | LEDLUX inside

- standardized profile made of highly durable V4A stainless steel
- compatible with all standard handrail systems
- flicker-free dimming across the entire 1-100% range
- wide range of optics and light colors
- various sizes available – linkable
- 230V version requires no power supply, saving installation time and space



Golda Meir Steg, Berlin
OHR1 4020 LN, handrail light inserts



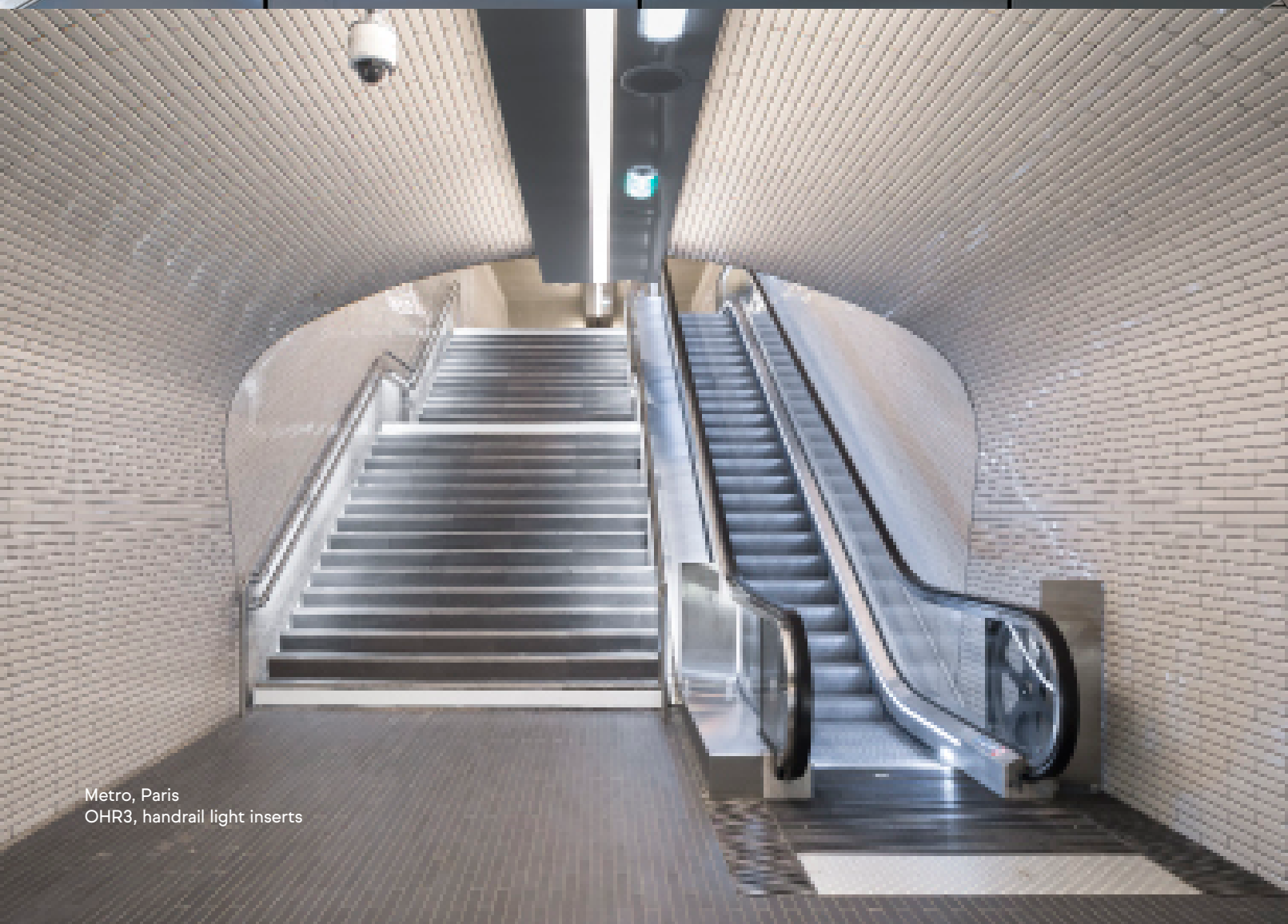
Priwall, Travemünde
OHR1 4020, handrail light inserts
OGL3 3090, in-ground lights
OGL4, in-ground lights



Landtag, Stuttgart
OHR1 4020 LS, handrail light inserts



Neckarbrücke, Stuttgart
OHR1 4020 LX, handrail light inserts



Metro, Paris
OHR3, handrail light inserts



Marina Bay Promenade, Singapur
LEDLUX LH2, light & facade lines



Centrumsplein, Emmen
OGL1 1060 LX, in-ground lights
OGL4, in-ground lights

Robust and durable

Waterproof and vandal-resistant products for outdoor use

To extend the service life of LED components and protect them from dirt and moisture, InstaLighting employs vacuum and encapsulation processes during manufacturing. This technology ensures high light quality and bubble-free optics—benefits that are particularly valuable for outdoor applications, where luminaires are exposed to the elements, intense UV radiation, and significant temperature fluctuations. Precise, high-quality encapsulation enhances both the longevity of the LED components and the quality of the light. In addition to low storage costs, the focus is on achieving a high protection rating and ensuring resistance to external factors such as moisture and heat.



LEDLUX light lines

- robust, weather-resistant, and durable
- long service life and virtually maintenance-free – ideal for hard-to-reach areas
- wide choice of light colors; depending on the version: RGB, RGBW, Tunable White, or mono/white light colors
- minimalist and modular: compact lighting in a minimal footprint thanks to a miniaturized design
- individually controllable segments for dynamic lighting scenarios
- flicker-free dimming across the entire 1% to 100% range

Outdoor spotlights

OS4 2x2 | powered by Elements

OS4 1x12 | powered by Elements



Color temperature



Optics and light distribution



Luminous flux

Wide Flood Flood
Medium Spot
Wallwash Flood
Wallwash Medium

3.000 K	TW	RGB
1.340 lm	1.100 lm	335 lm
1.510 lm	1.250 lm	540 lm
1.340 lm	1.100 lm	405 lm
1.340 lm	1.100 lm	405 lm
1.220 lm		
1.220 lm	1.000 lm	305 lm

Power

20,5W 17W 25W

3.000 K	TW	RGB
4.020 lm	4.340 lm	1.100 lm
4.530 lm	4.890 lm	1.620 lm
4.020 lm	4.340 lm	1.215 lm
4.020 lm	4.340 lm	1.215 lm
3.660 lm	3.950 lm	
3.660 lm	3.950 lm	910 lm

66W 51W 74W

Characteristics



Connection type

free cable end

Color rendering

typ. 92

Housing material

Aluminium, single-pane safety glass

Controllable/Dimmable

1 – 100% via DALI/DMX

free cable end

typ. 92

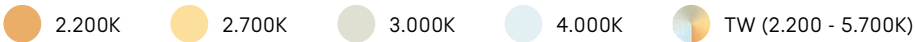
Aluminium, single-pane safety glass

1 – 100% via DALI/DMX

Dimensions

variant	L	W	H
OS4 2x2	190	40	245
OS4 1x12	550	40	180
OS4 2x12	550	40	245

Legend light colors



OS4 2x12 | powered by Elements



OS5 1x2 | powered by Elements



OS5 1x4 | powered by Elements



3.000 K	TW	RGB
6.160 lm	6.650 lm	2.200 lm
7.000 lm	7.560 lm	1.840 lm
6.160 lm	6.650 lm	1.900 lm
6.160 lm	6.650 lm	1.900 lm
5.460 lm	5.900 lm	
5.460 lm	5.900 lm	1.270 lm
93W	95W	96W

3.000 K
460 lm
735 lm
550 lm
550 lm
415 lm
415 lm
11,1W

3.000 K	TW	RGB
920 lm	760 lm	340 lm
1.470 lm	1.220 lm	540 lm
1.100 lm	915 lm	405 lm
1.100 lm	915 lm	405 lm
830 lm	685 lm	
830 lm	685 lm	685 lm
22,2W	22,6W	22 W

1-100

D-WIRE

R-WIRE

IK 08/10

IP67

LED

MADE IN GERMANY

SDCM 3

MONO

TW

RGB

IP67

Elements

free cable end

typ. 92

Aluminium, single-pane safety glass

1 – 100% via DALI/DMX

free cable end

typ. 92

Aluminium, single-pane safety glass

1 – 100% via DALI/DMX

free cable end

typ. 92

Aluminium, single-pane safety glass

1 – 100% via DALI/DMX

variant	L	W	H
OS5 1x2	95	50	100
OS4 1x4	177	50	100

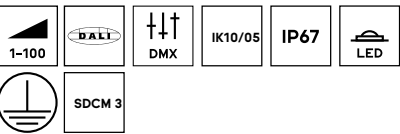
Outdoor spotlights

	OS1 3050	OS2 3065
		
Color temperature		
Optics and light distribution		
Luminous flux	3.000K 10°4.400 lm; 42W 30°4.100 lm; 42W 68°3.850 lm; 42W	3.000K 10°940 lm; 9,5W 30°860 lm; 9,5W 68°820 lm; 9,5W
Characteristics	DALI DMX IK10/05 IP67 LED SDCM 3	IK10/05 IP67 LED SDCM 3
Connection type	free cable end	free cable end
Color rendering	typ. 85	typ. 85
Housing material	Aluminium, single-pane safety glass (ESG)1 –	Aluminium, single-pane safety glass
Controllable/Dimmable	100% via DALI/DMX	Switchable
Dimensions (mm)	L 190 W 40 H 245	L 105 W 110 H 167

OS3 1065 A



3.000K	
10°	5.020 lm; 53W
29°	4.800 lm; 53W
40°	4.520 lm; 53W
66°	4.720 lm; 53W
3D 48°x12°	4.780 lm; 53W
4D 11°x44°	4.560 lm; 53W
5D 11°x41°	4.750 lm; 53W



free cable end

typ. 85

Aluminium

1 – 100% via DALI/DMX

L	W	H
920	70	164

OS3 1065 B



3.000K	
10°	2.510 lm; 27,8W
29°	2.400 lm; 27,8W
40°	2.260 lm; 27,8W
66°	2.360 lm; 27,8W
3D 48°x12°	2.390 lm; 27,8W
4D 11°x44°	2.280 lm; 27,8W
5D 11°x41°	2.375 lm; 27,8W



Connector / Free cable end

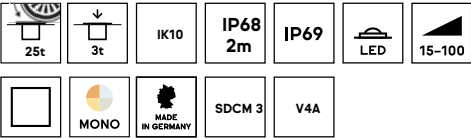
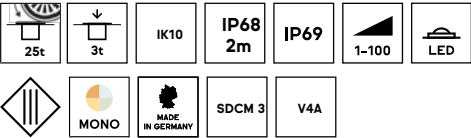
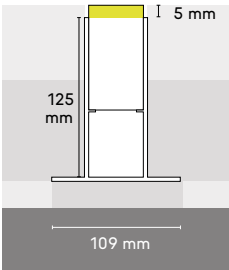
typ. 85

Aluminium

1 – 100% via DALI/DMX

L	W	H
500	70	164

In-ground lines

	OGL4 LH3 LEDLUX inside	OGL4 LS LEDLUX inside
Voltage	 230V	 28V
		
Color temperature		
Optics and light distribution	 Diffuse 110°	 Diffuse 110°
Luminous flux	@4.000 K: 420 lm/m; 10 W/m	@4.000 K: 900 lm/m; 16 W/m
Characteristics		
Connection type	free cable end	free cable end
Color rendering	typ. 90	typ. 85
Housing material	V4A stainless steel	V4A stainless steel
Controllable/Dimmable	15-100% flicker-free with phase-cut dimming	1 - 100% via DALI → PWM
Dimensions	OGL ground lines are available in modular form in the following standard lengths (mm): 350, 515, 1000 (Special lengths and maximum length: 1815 mm on request) 	
LEDTRIX control	  Different light colors can be combined within a single luminaire and controlled individually.	
Legend light colors	 2.200K  2.700K  3.000K  4.000K  TW (2.700 - 6.500K)	

OGL4 LX | LEDLUX inside

28V



Diffuse
110°

RGBW: 72, 122, 23, 246 lm/m; 16,8 W/m



free cable end

typ. 85 (TW)

V4A stainless steel

1 – 100% via DMX → LEDTRIX

OGL2 | LEDLUX inside

48V



Asymmetrical Wallwash A1
Asymmetrical A2
Narrow beam NAR

@4.000 K: 1140 lm/m; 20 W/m



free cable end

typ. 92

V4A stainless steel

1 – 100% via DALI → D-WIRE

OHR2 LX | LEDLUX inside

28V



Asymmetrical Wallwash A1
Asymmetrical A2
Narrow beam NAR

RGBW: 42; 66; 12; 135 lm/m; 16,8 W/m



free cable end

V4A stainless steel

1 – 100% via DMX → LEDTRIX

Handrail light inserts

OHR1 LH3 | LEDLUX inside

OHR1 LS | LEDLUX inside

Voltage



Color temperature



Optics and light distribution



Symmetrical
clear/diffuse



Asymmetrical
clear



Symmetrical
clear/diffuse



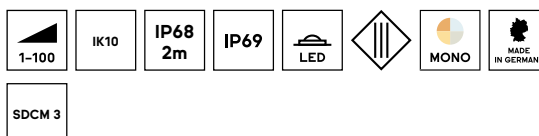
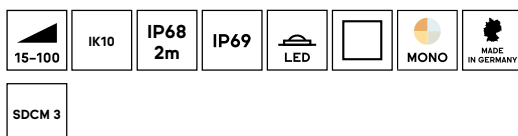
Asymmetrical
clear

Luminous flux

@4.000 K: 880 lm/m; 10 W/m

@4.000 K: 1.650 lm/m; 16 W/m

Characteristics



Connection type

free cable end

free cable end

Color rendering

typ. 90

typ. 85

Housing material

V4A stainless steel

V4A stainless steel

Controllable/Dimmable

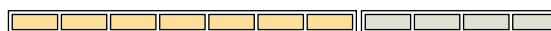
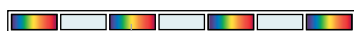
15-100% flicker-free with trailing-edge dimming

1 - 100% via DALI → PWM

Dimensions

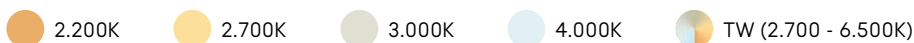
OHR handrail light inserts are available in modular form in the following standard lengths (mm):
385, 710, 1035 (Special lengths and maximum length: 1845 mm on request)

LEDTRIX control



Different light colors can be combined within a single luminaire and controlled individually.

Legend light colors



OHR1 LX | LEDLUX inside



RGBW: 72, 122, 23, 246 lm/m; 16,2 W/m

1-100

IK10

IP68
2m

IP69

LED

RGB

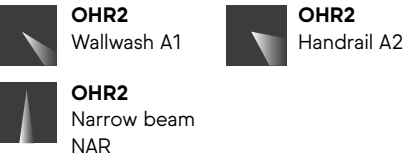
MADE
IN GERMANY

SDCM 3

LX

free cable end
typ. 85 (TW)
V4A stainless steel
DMX → LEDTRIX

OHR2 | LEDLUX inside



@4.000 K: 1.502 lm/m; 25 W/m

1-100

IK10

IP68
2m

IP69

LED

MONO

MADE
IN GERMANY

SDCM 3

PWM

IP67 connector | Cable length: 80 mm
typ. 92
V4A stainless steel
1 - 100% DALI → D-WIRE

OHR2 LX | LEDLUX inside



RGBW: 105, 362, 53 lm/m; 18,9 W/m

1-100

IK10

IP68
2m

IP69

LED

RGB

MADE
IN GERMANY

SDCM 3

LX

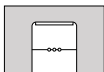
IP67 connector | Cable length: 80 mm
-
V4A stainless steel
1 - 100% DMX → LEDTRIX



54,0 x 60,0 mm



40,0 x 40,0 mm



60,0 x 40,0 mm



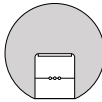
∅ 42,4 mm



∅ 45,0 mm



∅ 48,3 mm



∅ 60,3 mm



	LEDLUX LH3	LEDLUX LS
Voltage	 230V	 28V
		
Color temperature	   	  
Color temperature	 Directed C070 – 70°  Diffuse S120 – 110°	 Directed C070 – 70°  Diffuse S120 – 110°
Power and luminous flux	@4.000 K: 880 lm/m; 10 W/m	@4.000 K: 1.650 lm/m; 16 W/m
Characteristics	      	      
Connection type	free cable end	free cable end
Color rendering	typ. 90	typ. 85
Housing material	Polycarbonate (PC)	Polycarbonate (PC)
Controllable/Dimmable	15-100% flicker-free with trailing-edge dimming	1 – 100% via DALI → PWM
Dimensions	LEDLUX is available with different grid spacings of 81 mm or 162 mm in the following standard lengths: 334 mm to 1961 mm (Special lengths and maximum length up to 3 m on request)	
LEDTRIX control	  Different light colors can be combined within a single luminaire and controlled individually.	

LEDLUX LX

⚡ 28V



Directed
C070 – 70°

Diffuse
S120 – 110°

RGBW: 72, 122, 23, 246 lm/m; 16,2 W/m

1-100

IK10

IP64

LED

RGB

SDCM 3

free cable end
typ. 85 (TW)
Polycarbonate (PC)
1 – 100% DMX → LEDTRIX

LEDLUX optics

⚡ 48V



OHR2
Wallwash A1

OHR2
Handrail A2

OHR2
Narrow beam
NAR

@4.000 K: 1.502 lm/m; 25 W/m

IK10

IP65

LED

MONO

SDCM 3

IP67 connector | Cable length: 80 mm
typ. 92
Polycarbonate (PC)
1 – 100% DALI → D-WIRE

LEDLUX optics LX

⚡ 28V



OHR2
Wallwash A1

OHR2
Handrail A2

OHR2
Narrow beam
NAR

RGBW: 105, 362, 53 lm/m; 18,9 W/m

1-100

IK10

IP65

LED

RGB

SDCM 3

IP67 connector | Cable length: 80 mm
–
Polycarbonate (PC)
1 – 100% DMX → LEDTRIX

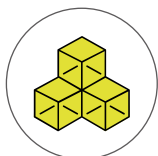
Elements Modular Lighting System

Shape your Light

InstaLighting Elements is an innovative product platform from InstaLighting that offers a wide range of possibilities for developing custom products based on a modular system of LED technologies, optics, light colors, and control systems.

Throughout the entire portfolio, the quality of light consistently remains at the highest level. The housing design can be customized, or the light pixels can be integrated directly into the architecture.

With just a few clicks, individual light pixels can be combined to form indoor and outdoor luminaires for various applications—such as spotlights, wall washers, downlights, accent lights, or linear arrangements—in either surface-mounted or recessed versions. Multiple light distributions and light colors can then be assigned to each individual light pixel. This allows luminaires configured from InstaLighting Elements to create dynamic lighting scenarios or provide balanced ambient lighting.



Modular construction system

Freely combinable system of light distributions, light colors, and control modules



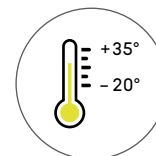
Maximum and consistent light quality

Consistent light quality across the entire portfolio—for all optics, power classes, and light colors



Flicker-free dimming

across the entire range from 1% to 100%



Stable temperature management

for ambient temperatures from -20°C to +35°C

cover



Light pixels



Micro-reflectors

Maximum light control in a minimal space directs the light exactly where it needs to go.



Optics and light colors

can be freely combined and individually controlled within the pixels.



Wide
Flood



Flood



Medium



Spot



Wallwash
Medium



Wallwash
Flood

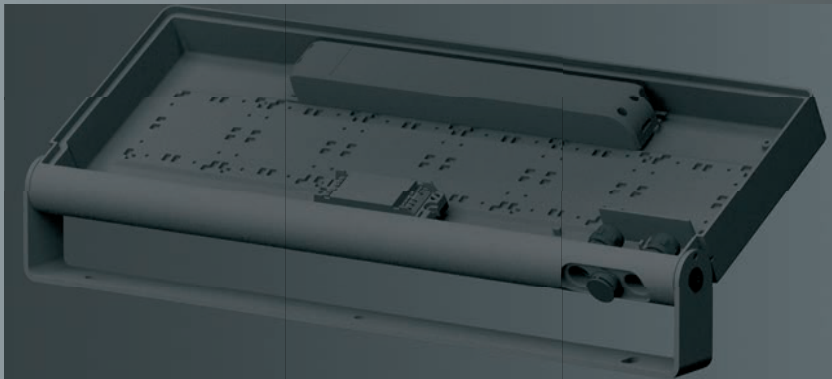


Mono

TW

RGB

housing



Powered by **Elements**

Elements is InstaLighting's modular technology platform, designed to meet the highest standards of lighting quality and planning flexibility. High-quality lighting tools for every conceivable application can be configured from a modular system of optics, light sources, and electronics.



InstaLighting

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