# Handrail luminaires
OHR 1 and OHR 2

InstaLighting

The OHR handrail lighting solution not only increases safety and orientation in public places – it is also an architecturally versatile design tool. The flexible use of light colors allows accent and area lighting to be matched to the surroundings, with the luminaire itself disappearing invisibly into the handrail. The standardized profile made of particularly durable V4A stainless steel can be effortlessly integrated into all commercially available handrail systems – regardless of materials and dimensions.

The new Elements lighting platform guarantees the highest lighting quality and freedom from glare. Thanks to a simple plug-in system, even long distances can be supplied with just one power feed.

← Parliament building, Düsseldorf

Elements – Modular Light Kit
Shape your Light
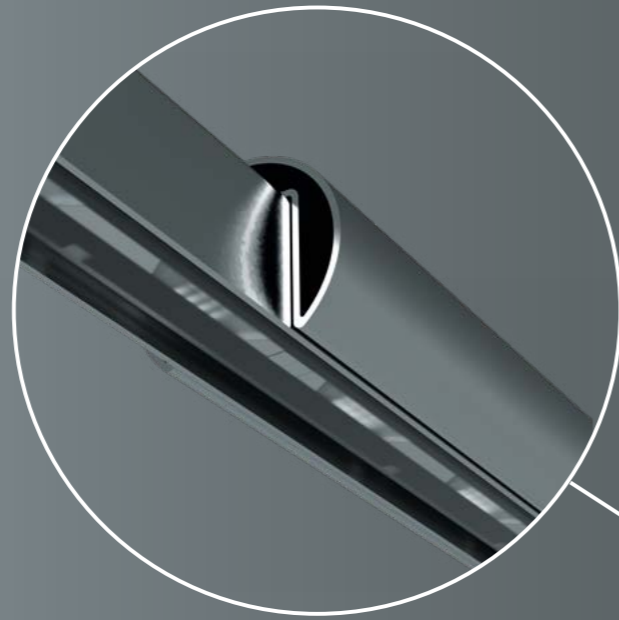
IP67
IP69
IP69+

Sealing offers maximum protection
Plastic sealing of the LED lighting elements ensures a longer service life, improved light quality, protection against vandalism and against external influences such as moisture and heat.

Micro-reflectors
Maximum light control in minimum space directs the light exactly where it's needed.

Easy mounting
thanks to plug-in connections (IP67) and through-wiring

Compatible with models from all manufacturers
The standard grooved tube allows the OHR handrail light inserts to be installed in models of all manufacturers and different materials

V4A

Protection against corrosion
The use of V4A stainless steel protects the OHR from corrosion and environmental influences.

Powered by **Elements**

Elements is the modular technology platform from InstaLighting for maximum demands on lighting quality and flexible planning. A modular system of optics, lamps and control management solutions allows you to configure bespoke high-quality lighting scenarios for every conceivable application.
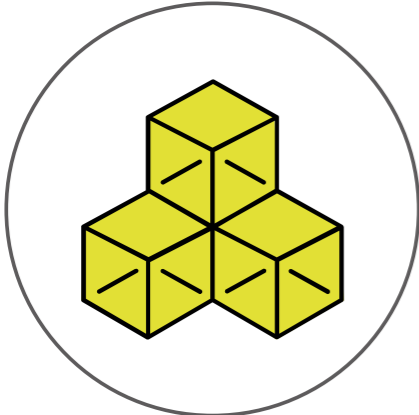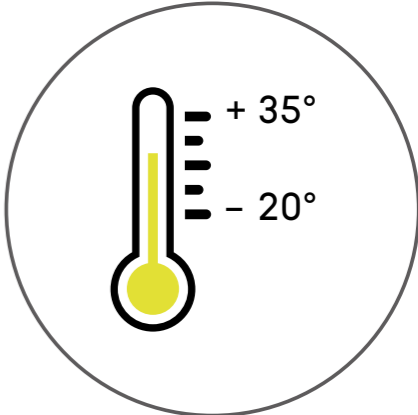
Modular building block system
Freely combinable system of light distributions, light colors and control management modules

Maximum and uniform light quality
Consistent light quality across the entire portfolio for all optics, power classes and light colors.
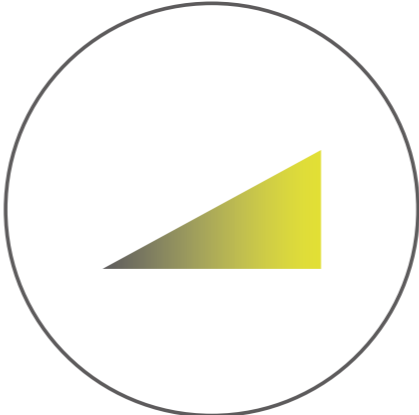
Flicker-free dimming
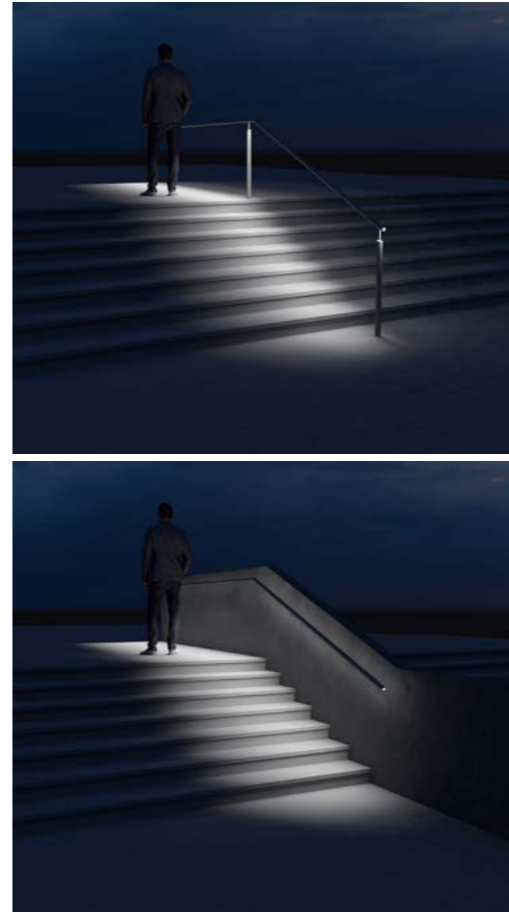across the entire spectrum from 1 to 100%

Stable temperature management
for ambient temperatures from -20° to +35°C

Optics and light effects

	OHR2 A1 NEU	OHR2 A2 NEU	OHR2 NAR NEU
Light Distribution	Asymmetric (Reflector Optic)	Asymmetric (Reflector Optic)	Symmetric (Reflector Optic)
Walkway	Homogenous light distribution along the walkway for maximum safety thanks to brilliant directional light	Homogenous light distribution along the walkway for maximum safety thanks to brilliant directional light	Accentuates the handrail with brilliant directional light
Wall Surface	The wall surface remains almost unlit, as the micro-reflectors direct the light only onto the traffic area.	The wall surface remains almost unlit, as the micro-reflectors direct the light only onto the traffic area.	Refined accentuation through clever contrasting effects
Glare Control	👁	👁	👁
Voltage	SELV	SELV	SELV
Meassurements	27 mm	27 mm	27 mm
Light Quality	Powered by **Elements**◈ Modular Elements lighting system Maximum light control through micro-reflectors Flicker-free dimming Stable temperature management	Powered by **Elements**◈ Modular Elements lighting system Maximum light control through micro-reflectors Flicker-free dimming Stable temperature management	Powered by **Elements**◈ Modular Elements lighting system Maximum light control through micro-reflectors Flicker-free dimming Stable temperature management

Optics and light effects

OHR1 SYM — NEU

OHR1 ASYM
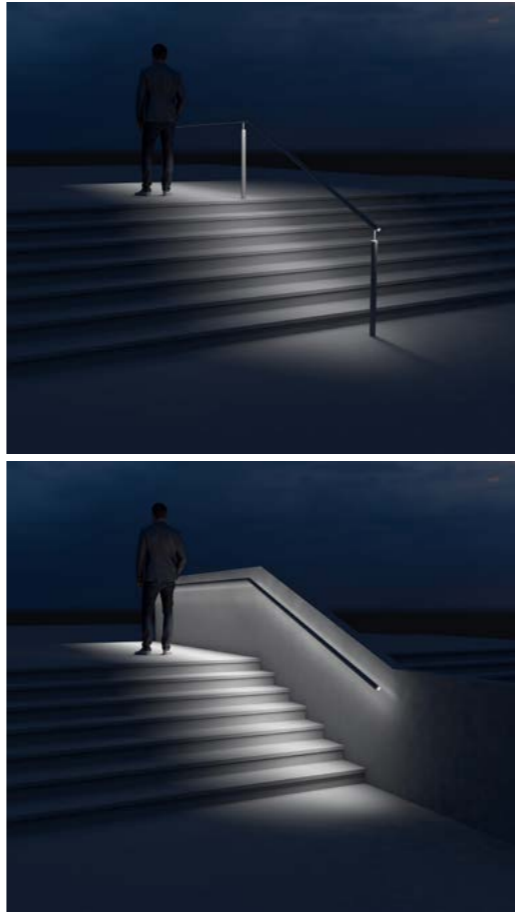
		OHR1 SYM	OHR1 ASYM
☼	Light Distribution	Symmetric	Asymmetrisch
	Walkway	Homogenous light distribution along the walkway thanks to a soft lighting effect	Homogenous light distribution along the walkway thanks to a soft lighting effect
	Wall Surface	Light, homogeneous illumination without emphasizing the material structure	Medium, homogeneous illumination without emphasizing the material structure
👁	Glare Control	👁	👁
⚡	Voltage	SELV / 230V	230V
	Meassurements	27 mm 24 mm	27 mm 24 mm
	Light Quality	Powered by **Elements** ◣ Modular Elements lighting system	Flicker-free dimming Stable temperature management

Variants

Light insert OHR2
Direct light in different beam angles (Reflector optic)
(symmetrical, asymmetrical)
Clear PU encapsulation
Protection class IP67, IP69, IP69+

Light insert OHR1 4020
Direct light in different beam angles
(symmetrical, asymmetrical)
Clear PU encapsulation
Protection class IP 67, IP69, IP69+

Light insert OHR1 4020
Diffuse light with Lambertian radiation characteristic
without visible LED points
Diffuse PU encapsulation
Protection class IP 67, IP69, IP69+

Accessories

Groove locking profile
The groove locking profile is used for positive locking of the profile groove and to protect the electrical cables in areas where there is no LED insert.
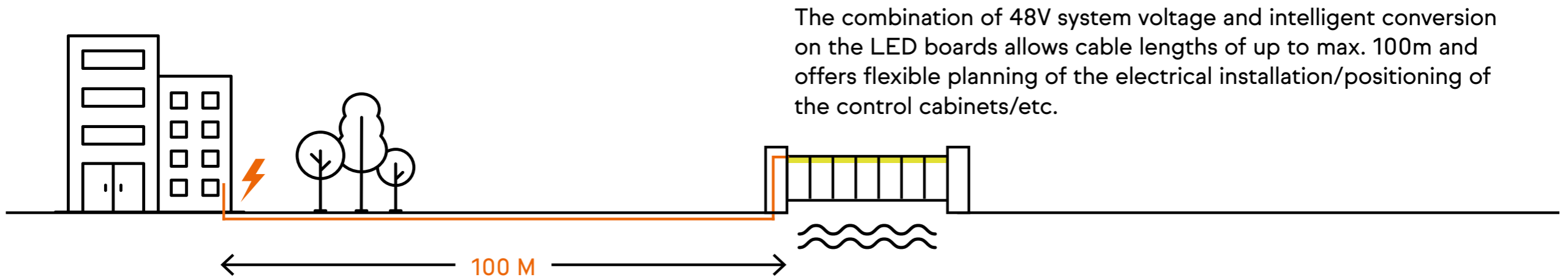
Certification

Products for Deutsche Bahn and Infrastructure
As a certified supplier to Deutsche Bahn, InstaLighting has special know-how in the development of lighting solutions for transport infrastructure. In particular the handrail luminaire OHR1 meets these high standards for safety, easy maintenance and robustness.

Wiring

The combination of 48V system voltage and intelligent conversion on the LED boards allows cable lengths of up to max. 100m and offers flexible planning of the electrical installation/positioning of the control cabinets/etc.

100 M

Complete solutions including handrail

We are also happy to offer you complete solutions for your project including handrail.
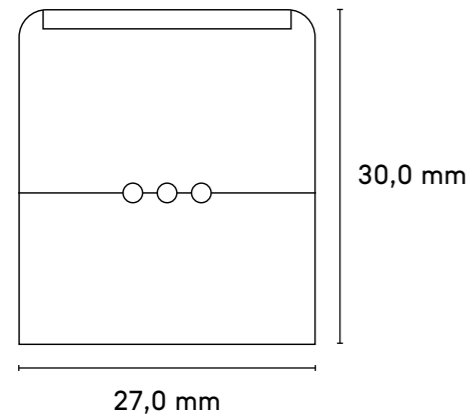
With our freely configurable modular handrail system, illuminated handrails for all conceivable materials, dimensions and architectural situations can be configured quickly and easily. Contact us or download our handrail catalog here:

www.instalighting.de/downloads/brochures/handrailcatalogue.pdf

System overview OHR
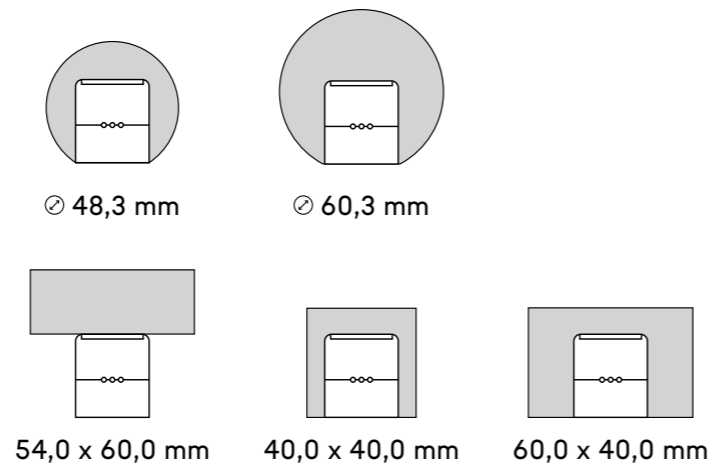
Variants and meassurements (mm)

Light insert/cross-section	Handrail variants (examples)	Light insert length

Light insert/cross-section

30,0 mm

27,0 mm

24,5 mm

24,0 mm

Handrail variants (examples)

⌀ 48,3 mm
⌀ 60,3 mm

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

54,0 x 60,0 mm
40,0 x 40,0 mm
60,0 x 40,0 mm

Light insert length

length luminaire / length light outlet

350,0 / 385,0 mm

860,0 / 710,0 mm

1005,0 / 1035,0 mm

1330,0 / 1360,0 mm
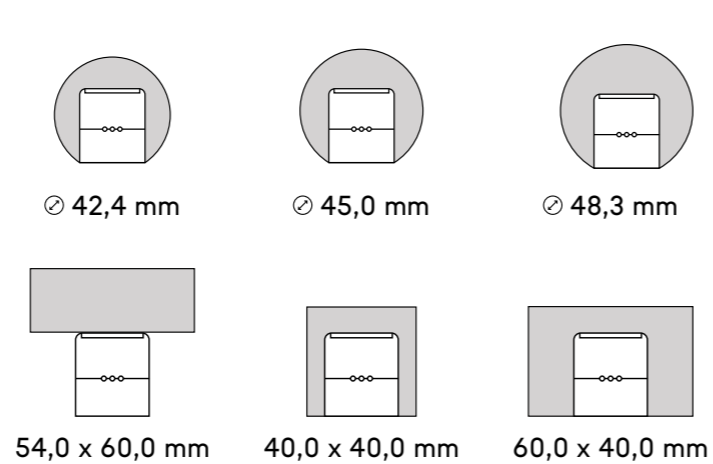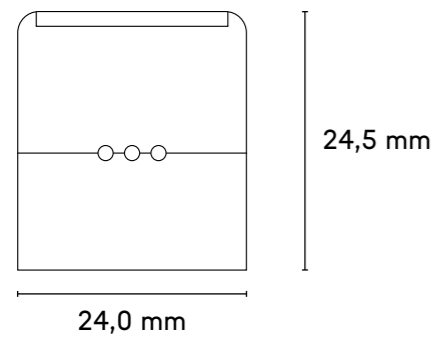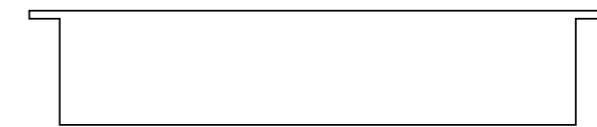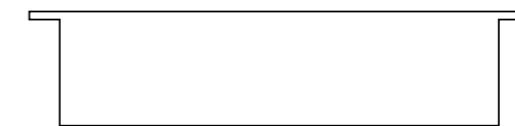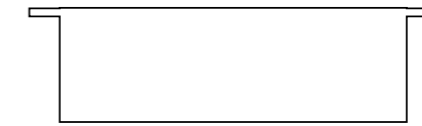
Light colors
Several light colors can be combined in a single luminaire

2.200K   2.700K   3.000K   4.000K   TW   RGB

System overview OHR
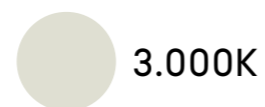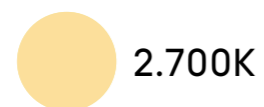
Optics and light distributions
Several light distribution curves can be combined in a single luminaire

OHR2 A1	OHR2 A2	OHR2 NAR	OHR1 SYM	OHR1 ASYM
254	241	630	71	108
508	482	1260	143	216
763	724	1890	214	324
1017	965	2520	285	432
1271	1206	3150	357	540

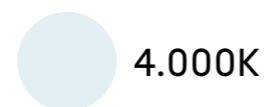## Rated lumens (lm)

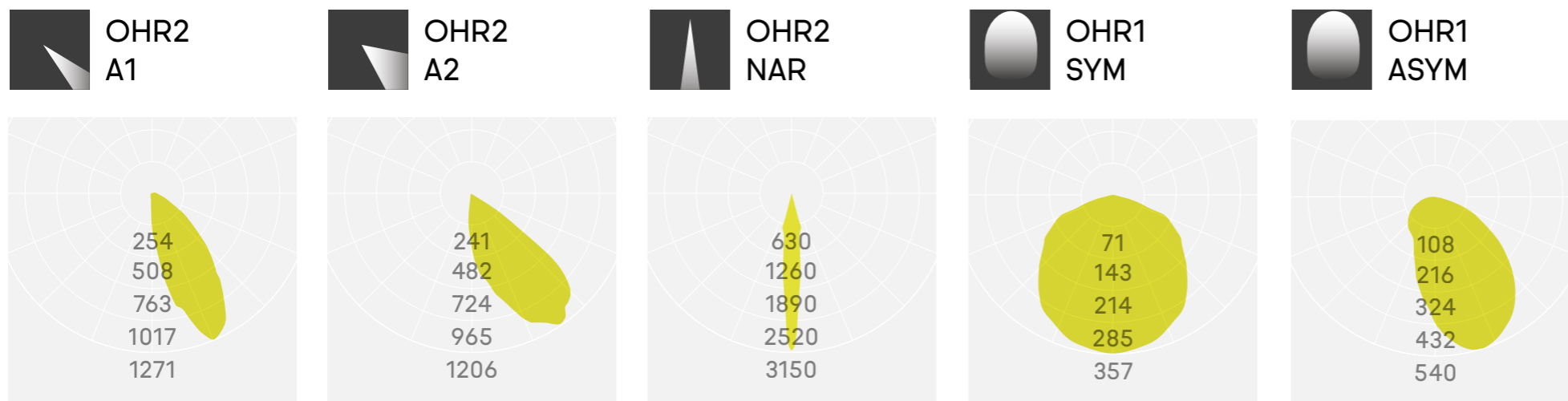|	Level 1	Level 2
OHR2, 48V, 1035mm, 3000K, A1	410 lm	1050 lm
OHR2, 48V, 1035mm, 3000K, A2	500 lm	1300 lm
OHR2, 48V, 1035mm, 3000K, NAR	410 lm	1050 lm
OHR1, 48V, 1035mm, 3000K, clear sealing	590 lm	1410 lm
OHR1, 48V, 1035mm, 3000K, diffuse sealing	280 lm	680 lm
OHR1 230V, 1035mm, 3000K, clear sealing	–	700 lm
OHR1 230V, 1035mm, 3000K, asymmetrisch	–	700 lm

→ 48V LED modules also available in Tunable White and RGB versions.

* For further information, technical specifications and planning data visit:
www.instalighting.de/en/programmes/aussenleuchten/#Handlauf-Lichteinsätze

Technical data

Light distrubution	SELV	Asymmetric 1
		Asymmetric 2
		Narrow
		Symmetric
	230V	Symmetric
		Asymmetric
Rated voltage		AC 230 V / DC 48 V
Protection type		IP67, IP69, IP69+
Protection class		II, III
Color rendition		Ra 92

Ambient temperature	-20 ... +50°C
Storage/transport temperature	-25 ... +70 °C
Life span	(L80/B10) (@ 25 °C) 60.000 h
Dimmable/controllable	yes, flicker-free
Housing material	stainless steel V4A
Sealing material	PV sealing, clear
Glow wire test	650 °C
Impact resistance housing	IK10
Certification	Deutsche Bahn DB

IP67	IP69	IP69K	1–100	DMX	DALI	MONO	TW	RGB	LED	SDCM 3	IK 10			Elements

References

German pavilion, Milan

Humbold Forum, Berlin

Bridge over the Hunte River

Intercity Hotel at the main train station Berlin

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