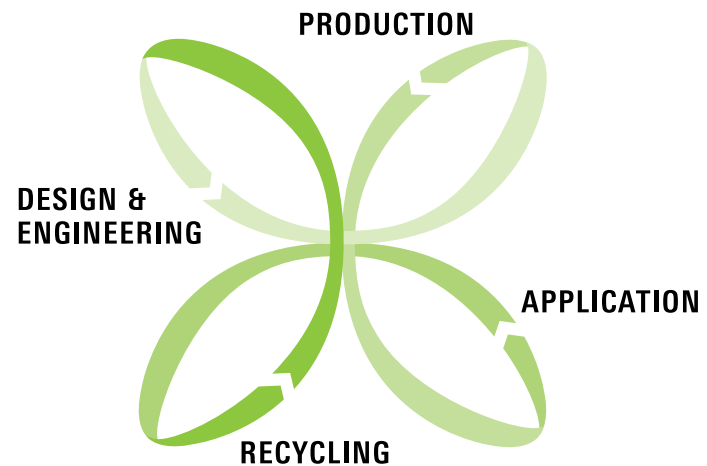




WE-EF LIGHTING USA
OLS400 [R45] SERIES
Wall luminaires surface mounted
2018





WE-EF is a global manufacturer of high-performance exterior luminaires renowned for outstanding engineering design and innovative optical systems. Established in 1950 in Germany, WE-EF is recognised worldwide as a leading exterior lighting specialist that provides professional lighting solutions for various applications, ranging from urban spaces to architectural projects.

As a pioneer and innovator of a wide range of application-specific modular LED lens technologies, WE-EF develops optical systems that deliver photometric efficiency together with high visual comfort.

WE-EF is dedicated to the philosophy of combining form and function, resulting in striking and timeless product designs.

Precision in the design process, careful consideration of material selection and high-quality manufacturing processes ensure that WE-EF luminaires are considered to be a benchmark of product performance, reliability and longevity as well as ease of installation.

Responsible resource management is practiced across all areas of operation, from product life-cycle assessments to sustainable business procedures.

QLS400 SERIES

[Factory-sealed] Wall luminaire. IP66. IK07. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in black RAL 9004, grey metallic RAL 9007, white RAL 9016 or dark bronze RAL 8019. Safety glass lens. Silicone rubber gasket. Luminaire is factory-sealed and does not need to be opened during installation.

Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. OLC® One LED Concept. Two cable entries. 0-10 V dimming available on request.

Luminaire can be mounted for up or down lighting.

Light source:

LED 6-12 W, 3000 K and 4000 K
(2400 - 5000 K on request)

Available distribution:

[R45]

For additional types of light distribution:

[M] [N], refer to www.we-ef.com





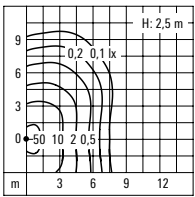
[R45]

IOS® Innovative Optical System:

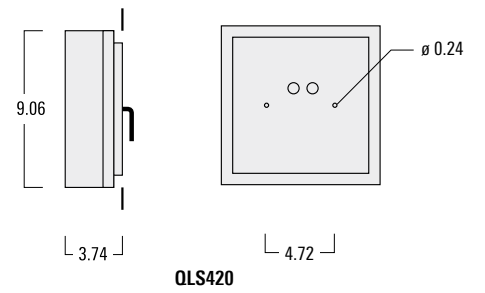
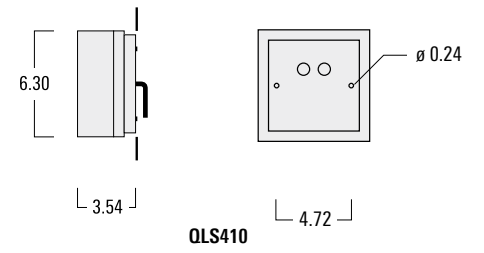
[R45] Rectangular 'forward throw' distribution



[R45]		3000 K	lm	4000 K	lm	Factor*
QLS410	3 LED 6W/700 mA	620-2124	738	620-2125	738	0.5
QLS420	6 LED 12W/700 mA	620-3124	1476	620-3125	1476	1.0



[R45]



* Multiplier for isolux values.

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Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. OLC® One LED Concept. Two cable entries. 0-10 V dimming available on request.

Luminaire can be mounted for up or down lighting.

Light source:

LED 12-24 W, 3000 K and 4000 K
(2400 - 5000 K on request)

Available distributions:

[M/R45] N/R45]

For additional types of light distribution:

[M/M] [N/M] [N/N], refer to www.we-ef.com





[M/R45] [E/R45]

IOS® Innovative Optical System:

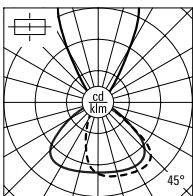
[M/R45] Medium beam up, 'forward throw' down

[N/R45] Narrow beam up, 'forward throw' down

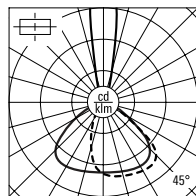


[M/R45]		3000 K	lm	4000 K	lm	Up	cd/klm	Down Factor*
QLS410	2 x 3 LED 12W/700 mA	620-2126	2 x 738	620-2127	2 x 738	16°/16°	1503	0.5
QLS420	2 x 6 LED 24W/700 mA	620-3126	2 x 1476	620-3127	2 x 1476	16°/16°	1503	1.0

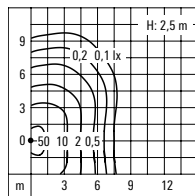
[N/R45]		3000 K	lm	4000 K	lm	Up	cd/klm	Down Factor*
QLS410	2 x 3 LED 12W/700 mA	620-2128	2 x 738	620-2129	2 x 738	7°/7°	6566	0.5
QLS420	2 x 6 LED 24W/700 mA	620-3128	2 x 1476	620-3129	2 x 1476	7°/7°	6566	1.0



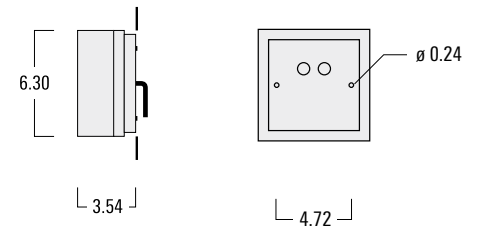
[M/R45]



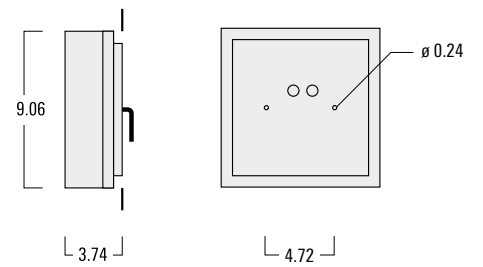
[E/R45]



[N/R45]



QLS410

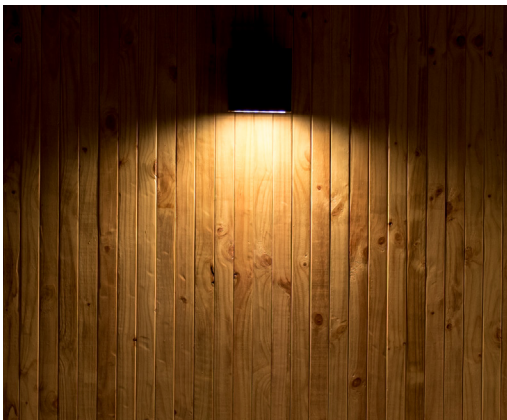


QLS420

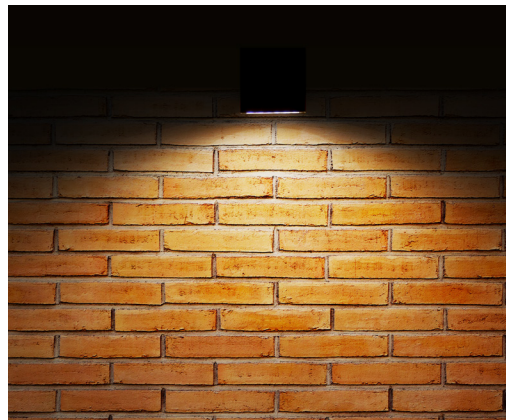
* Multiplier for isolux values.

QLS400 FEATURES

IP classification:	IP66
Electrical protection:	Class I
Impact protection:	IK07
Luminaire housing:	Marine-grade, die-cast aluminium alloy, 5CE superior corrosion protection
Hardware:	PCS hardware (polymer coated stainless steel)
Main lens:	Safety glass
Gasket:	Silicone rubber gasket
EC:	Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output.
Light source:	3-12 LEDs, 6-24 W/700 mA, 3000 K or 4000 K, Ra 80
Optics:	CAD-optimised optics for superior illumination and glare control; selection of beam distributions for up or down lighting applications.
Heat sink:	Integrated
Installation:	Luminaire is factory-sealed and does not need to be opened during installation.
Dimming:	0-10 V available on request.



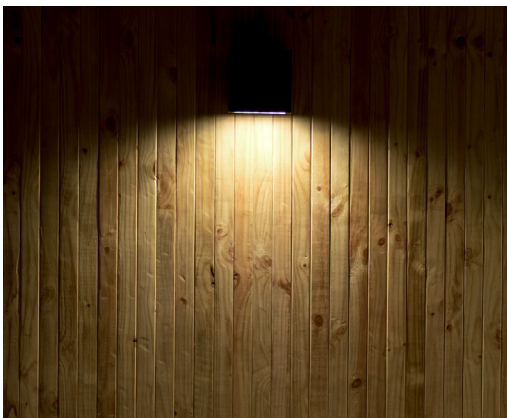
3000 K colour temperature, on natural wood



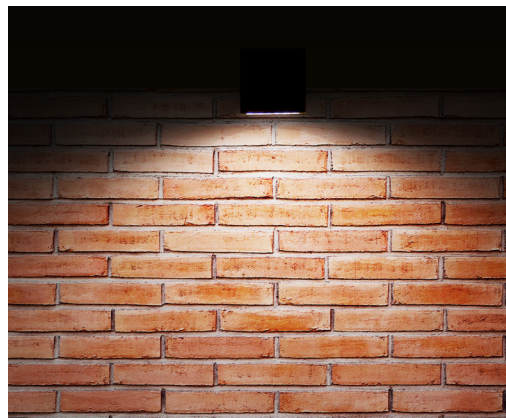
3000 K colour temperature, on brick wall



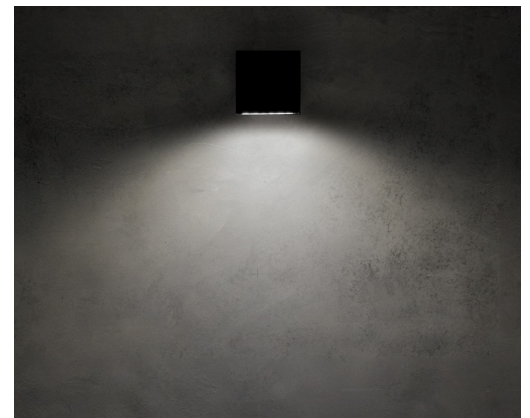
3000 K colour temperature, on textured concrete



4000 K colour temperature, on natural wood



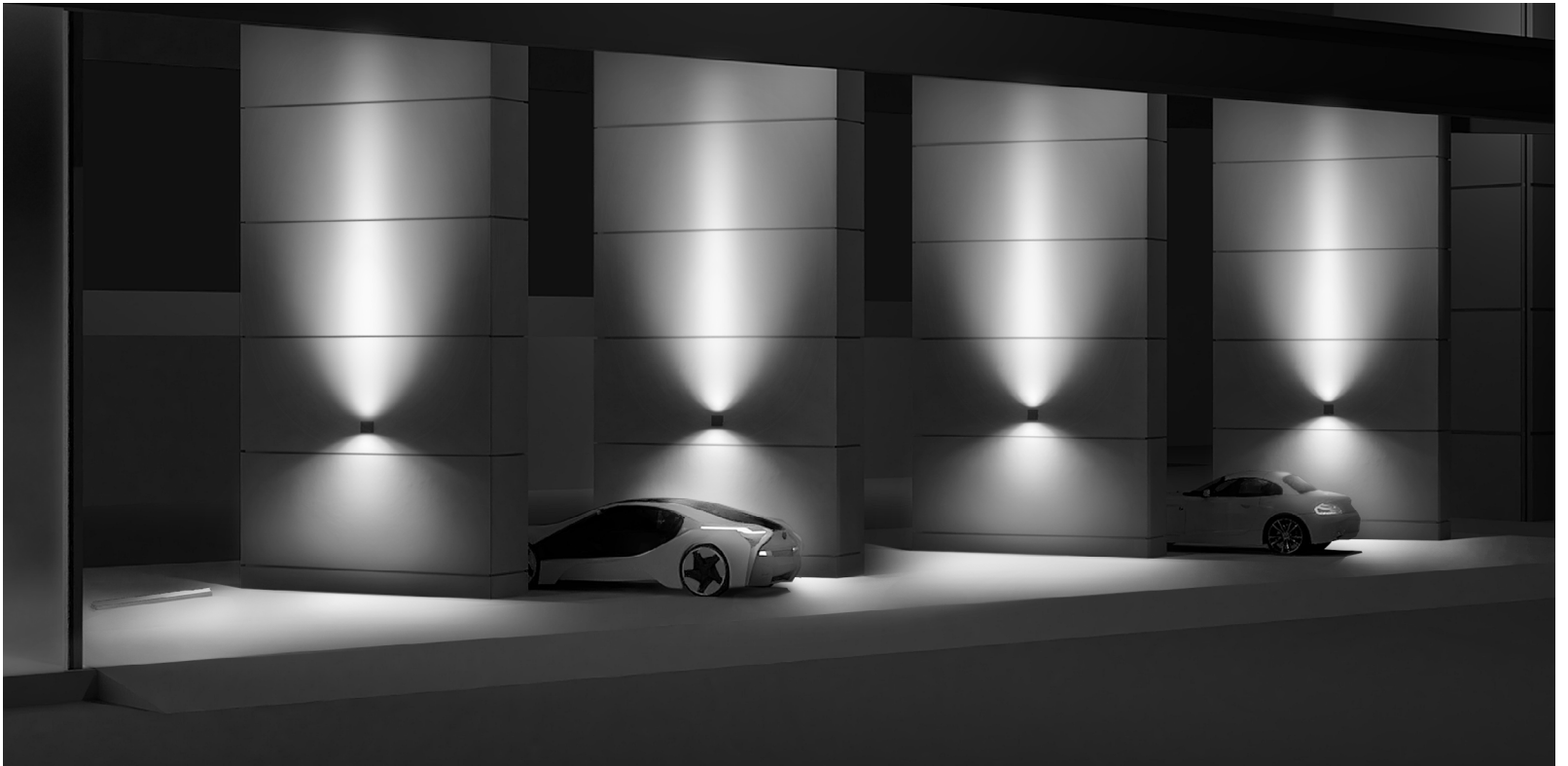
4000 K colour temperature, on brick wall



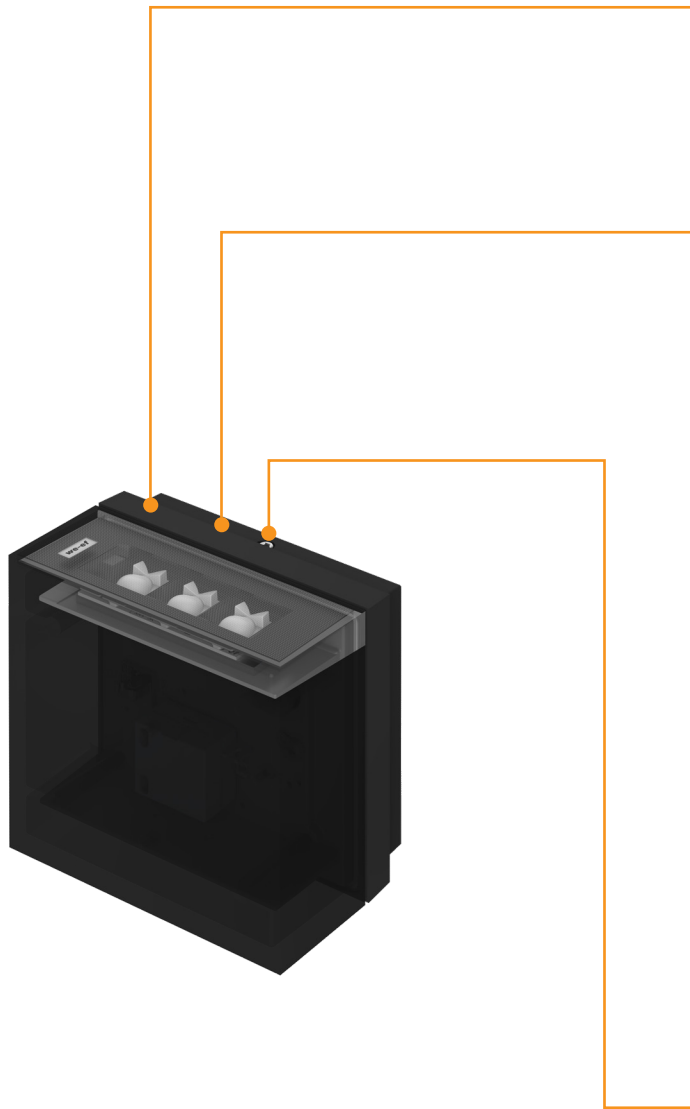
4000 K colour temperature, on textured concrete



A typical application of the QLS400 [R45] luminaire in an architectural setting. The luminaire's minimalist design complements the building's aesthetics, while its photometric performance allows for compliance with strict safety standards.



In addition to the functional [R45] downlighting component, the narrow [N] uplighting effect enhances the spatial luminous effect.



Luminaire does not need to be opened during installation.



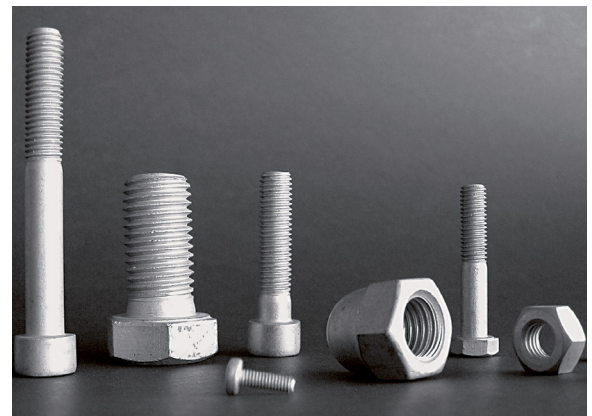
Five anti-corrosion properties

- Substrate – marine grade aluminium alloy
- Conversion coating – multi-step pre-treatment
- Powder coating – UV stabilised, architectural grade coating
- PCS hardware – refer to detail below
- Process Control – tightly controlled process and quality checks, up to 3,000-hour salt spray tests

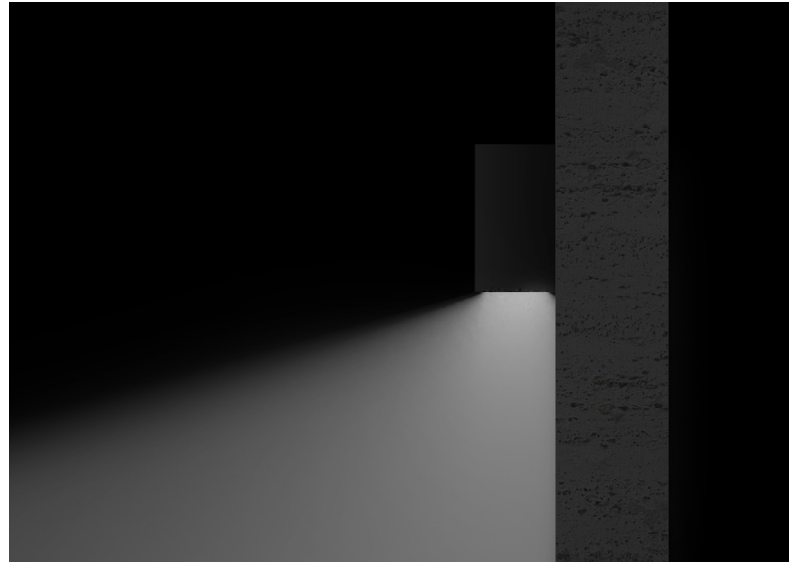
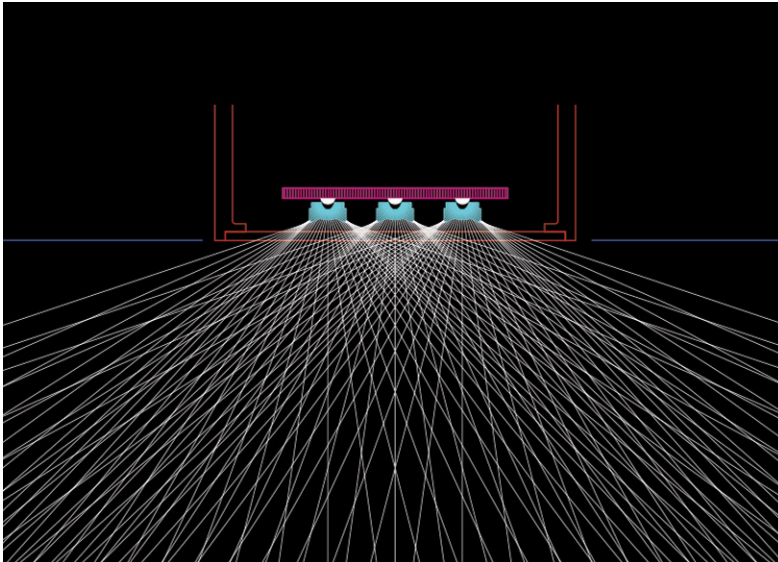


PCS hardware

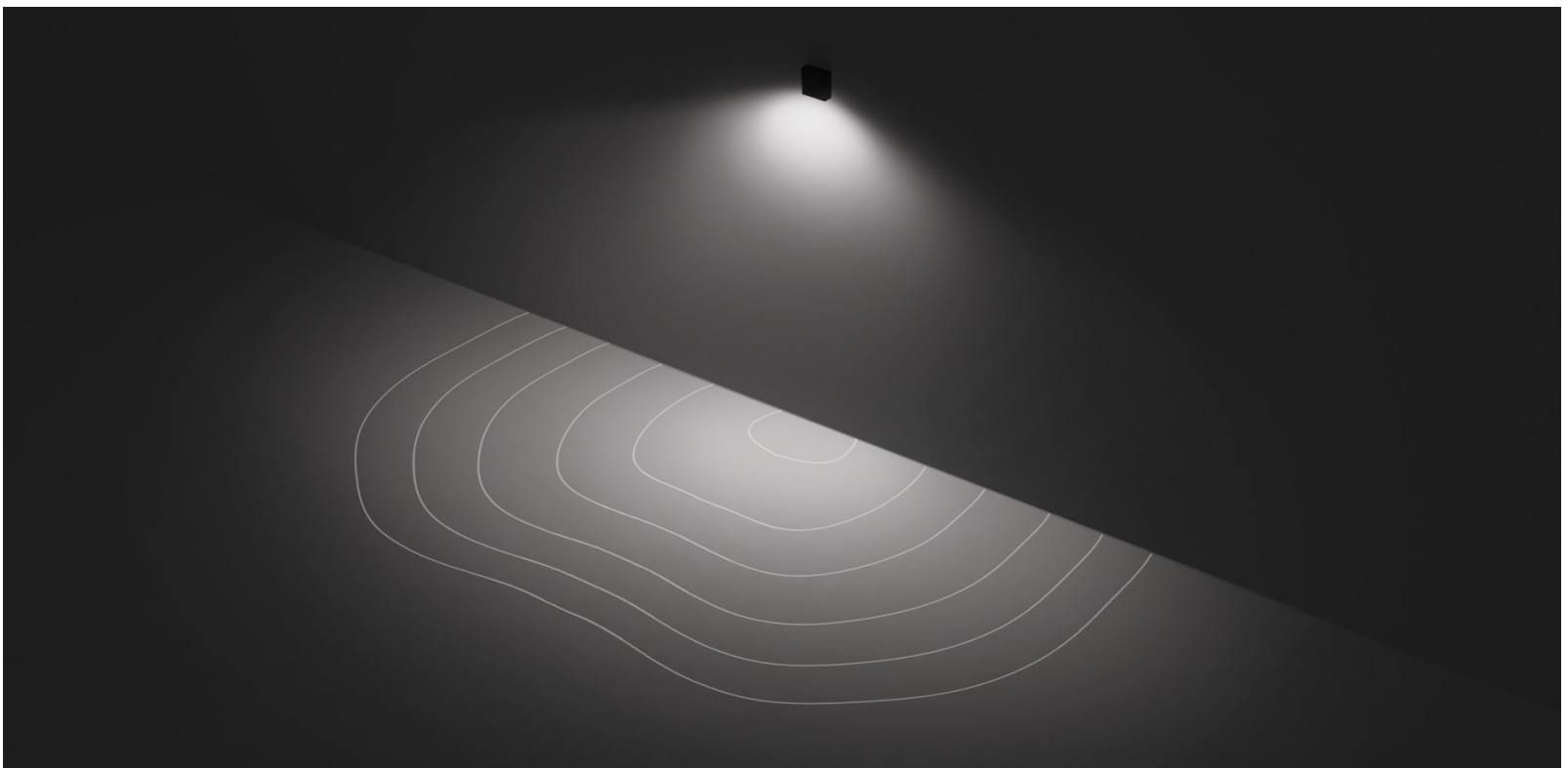
- Austenitic stainless steel
- Tough, impregnated polymer coating
- Non-metallic barrier, protects against galvanic corrosion



WE-EF's expanding range of high-performance wall luminaires features a multitude of quality light distributions for demanding architectural and commercial applications. While 100% horizontal cut-off safeguards high visual comfort, it is the high-precision optics that direct the light to where it is needed. Traditional symmetric beam options – medium or narrow – provide combined illumination for the wall as well as for its adjacent horizontal surfaces. Alternatively, the asymmetric 'side-throw' and 'forward-throw' options deliver highly-effective coverage for a building's adjacent pathways, service roads, parking bays and security perimeters, or for overhead canopies. The QLS400 [R45] featured in this brochure is the latest addition to this innovative product family.



This CAD ray-tracing simulation demonstrates the [R45] optics' broad downward light distribution as well as its glare control qualities. The combined 'side throw' and 'forward throw' of light delivers uniform coverage for large areas.



Typical isolux diagram of a single-unit QLS400 [R45] installation. Several luminaires installed in a row provide excellent illumination for a building's passageways, its perimeter etc.

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QLS400 [R45] SERIES

Wall luminaires surface mounted

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