



ARCOS

LED Spotlight System

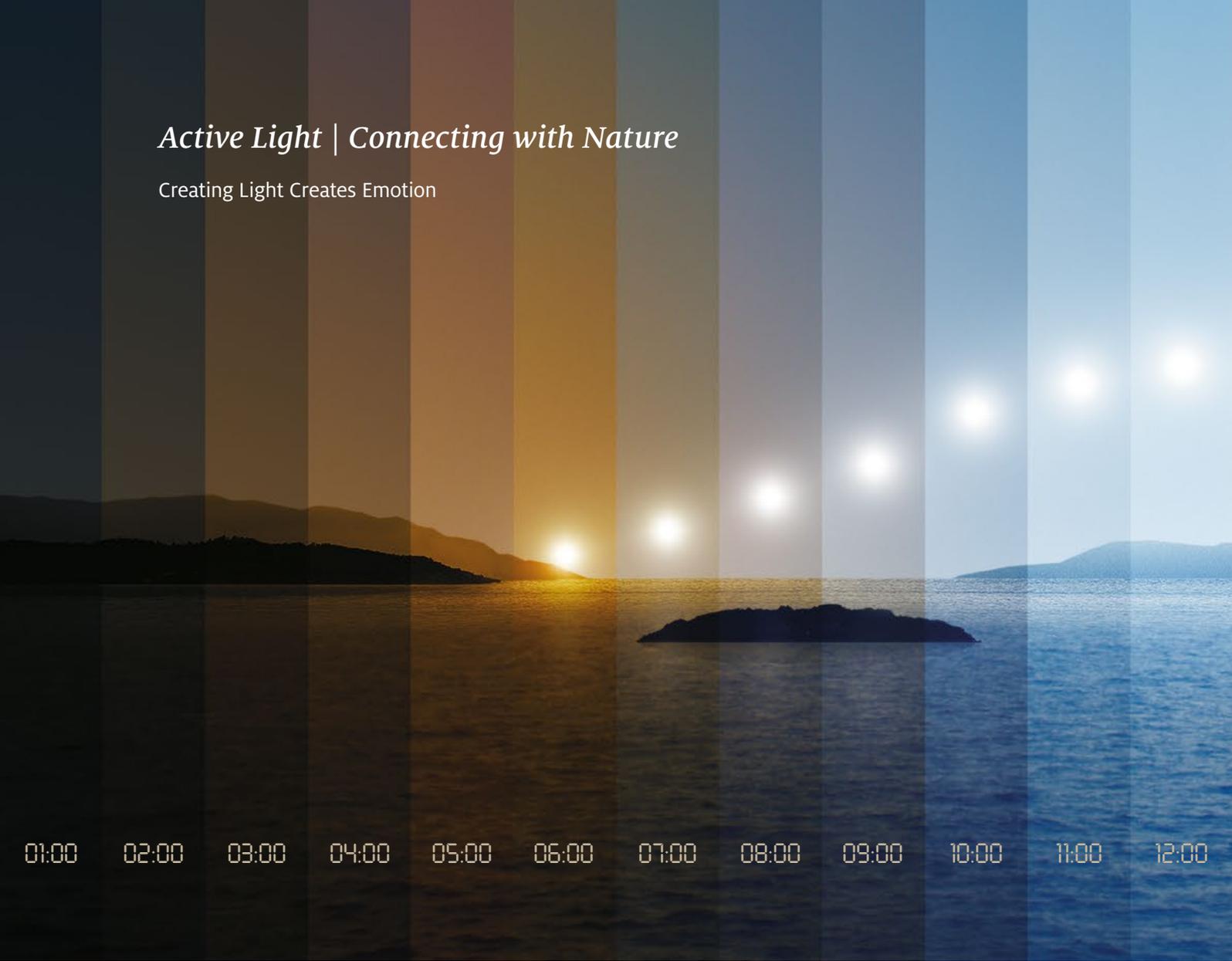
Sensitivity and high precision – the spotlight system for sophisticated lighting scenarios.

[linked](#)

All order numbers in the PDF are linked to the Zumtobel online catalogue.

Active Light | Connecting with Nature

Creating Light Creates Emotion



It is human instinct to be unconsciously drawn to moving objects. That is why our Limbic[®] research has focused on the human senses and how these are affected by Active Light. The aim is to create a world of experiences linked to various types of personalities that activate our senses and guide our perception, drawing people to what stimulates them and crafting a lighting environment for every kind of individual.

See here how Active Light works:
zumtobel.com/activelight



Intensity

Carefully planned spatial and time-based differences in lighting levels help showcase both the space and the products. A structured hierarchy of perception directs our line of vision.



Direction

Specific changes in lighting direction and shadowing add a dramatic edge to the goods on display.



Colour

Regulating the light colour in line with the product and the interior architecture improves perception and underlines the impression of quality, which in turn strengthens the willingness to buy.



Time

Active Light adapts the lighting to meet the needs of the people. Expectations stemming from the daylight situation and the time of day are reflected in just the same way as the personality structure of the specific Limbic® customer types.



Grand Hall in Dresden Castle, Dresden | DE

Architects: Peter Kulka Architektur, Dresden | DE

Lighting solution: TECTON continuous-row lighting system, ARCOS spotlight system, ARCOS LED projection spotlights, modular STARFLEX lighting system









reddot award 2014
winner



product
design award
2014 ■

“We wanted to create a product together that would not only be installed by museum directors for high quality exhibition spaces but by ourselves as well.”

ARCOS LED makes an impression through minimalist design and clear shapes. Available as a spotlight and a wallwasher, it provides a perfectly consistent balance of finely accented lighting with wide coverage. This holistic lighting solution does not detract from the exhibit in any way – on the contrary: The exhibits are pushed into the foreground, their effect reinforced by light and architecture. Thanks to a wide range of accessories and sophisticated lighting technology, ARCOS provides a perfect setting for all kinds of exhibits, taking conservation aspects into account, as UV- and IR-free light treats the exhibits with care. Moreover, the use of innovative LED technology results in a considerable reduction in energy consumption. The combination of pure design and high flexibility guarantees a holistic, effective lighting solution.



David Chipperfield

David Chipperfield Architects | Design



A complete range

for perfect illumination

Spotlights



ARCOS 2 LED xpert

Compact, dimmable LED spotlight with excellent colour rendering (Ra 98) and narrow colour tolerances (1x2-step MacAdam); optionally available with super-spot, spot, flood or wideflood beam angles and with an oval or a square light distribution.

New: ARCOS LED xpert blu

Ø 100 mm. Fitted with LED modules of up to 22 W.



ARCOS 2 LED xpert projection spotlight

Dimmable LED spotlight for focused accent lighting with sharp outlines.

Ø 100 mm. Fitted with LED modules of up to 22 W.

Wallwasher



ARCOS 3 LED xpert liteCarve®

Dimmable LED spotlight for lighting vertical surfaces; uniform light distribution, excellent colour rendering (Ra 98) and tight colour tolerances (1 x 2-step MacAdam), installation height up to 4 m.

New: ARCOS LED xpert blu

Ø 120 mm. Fitted with LED modules of up to 35 W.



ARCOS 3 LED xpert

Dimmable LED spotlight for illumination from higher mounting heights; uniform light distribution, excellent colour rendering (Ra 98) and narrow colour tolerances (1x2-step MacAdam); optionally available with superspot, spot, flood or wideflood beam angles and with an oval or a rectangular light distribution.
New: ARCOS LED xpert blu

Ø 120 mm. Fitted with LED modules of up to 35 W.



ARCOS 3 LED xpert projection spotlight

Dimmable LED spotlight for focused accent lighting and gobo projections with sharp outlines.

Ø 120 mm. Fitted with LED modules of up to 30 W.



ARCOS LED tunableWhite

Dimmable LED spotlight with variable white light colours (tunableWhite).

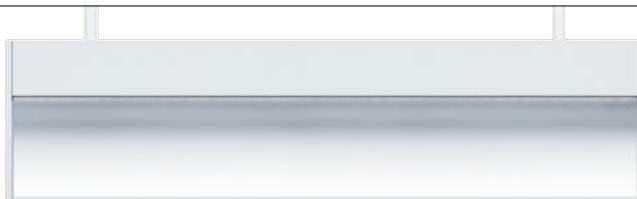
Ø 120 mm. Fitted with LED modules of up to 30 W.



ARCOS LED wallwasher, linear

Linear dimmable luminaire for illumination of large wall surfaces; excellent horizontal and vertical uniformity and good colour rendering (Ra > 90) for installation heights of up to 7 m.

Length: 320 mm.
Fitted with LED modules of up to 15 W.



ARCOS LED wallwasher, linear

Linear dimmable luminaire for illumination of large wall surfaces; excellent horizontal and vertical uniformity and good colour rendering (Ra > 90) for installation heights of up to 7 m.

Length: 620 mm.
Fitted with LED modules of up to 30 W.



Museo Jumex, Mexico City | MX

Architects: David Chipperfield Architects, London | UK

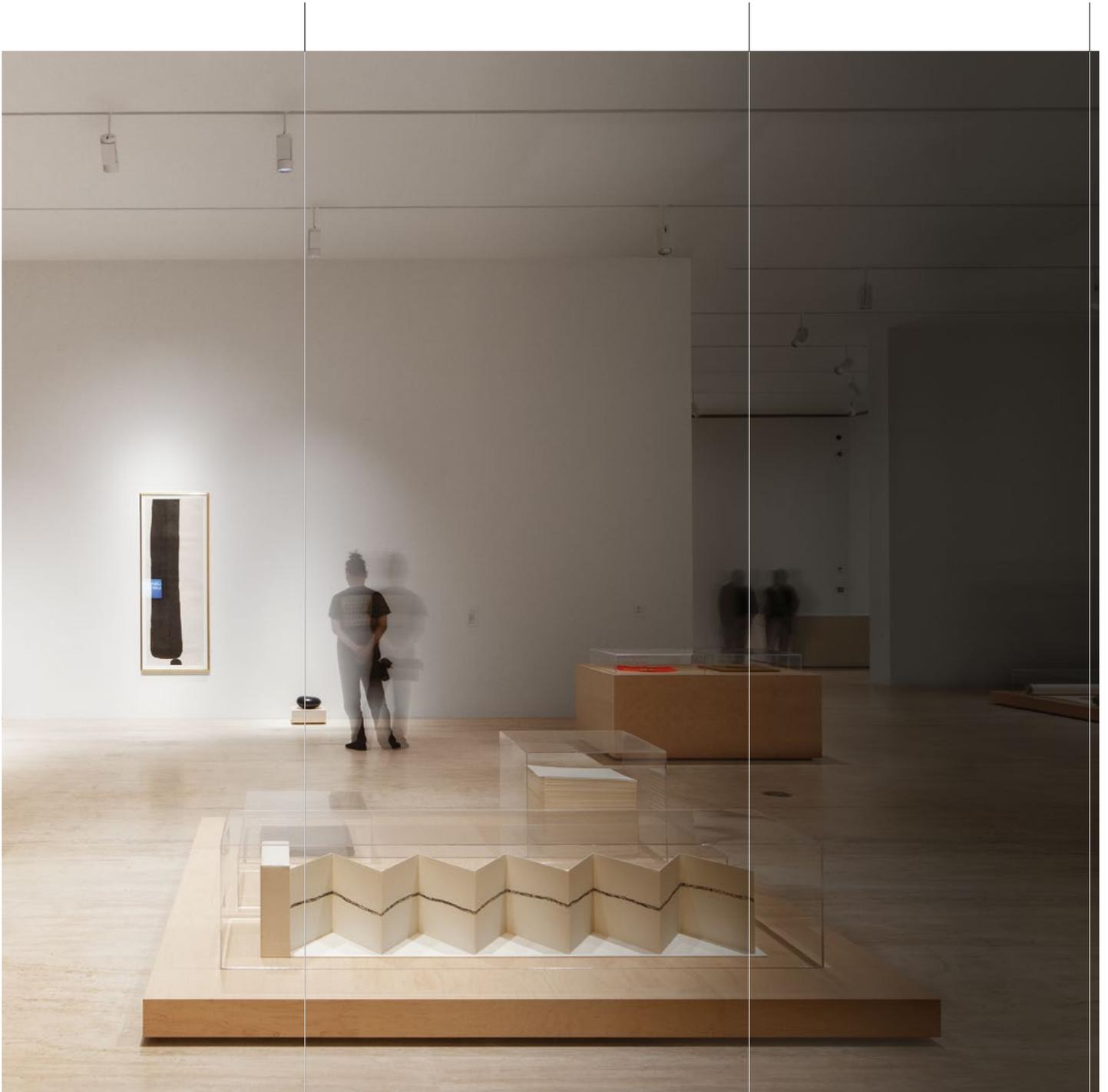
Lighting design: Arup, London | UK

Lighting solution: ARCOS LED spotlights, PANOS Q downlights, PANOS infinity LED downlights, DIAMO LED downlights, MICROS LED downlights, SLOTLIGHT II recessed LED luminaires, ZX2 flexible lighting system, LINARIA light lines, SCUBA moisture-proof diffuser luminaires, CHIARO II moisture-proof diffuser luminaires, ONLITE emergency lighting system, TUBILUX tubular luminaires, LUXMATE basic lighting management system



ARCOS LED *xpert blu*

Leading the way for a new generation of luminaires



dimmed to 50%

20%

1%

Wireless communication

ARCOS LED xpert spotlights equipped with Bluetooth technology respond to commands from smartphones or any other device equipped with the dedicated app. Now the appropriate light level can be selected without having to rely on a DALI cable or a ladder, while relevant information about the service life of a luminaire is clearly displayed on the screen. Manual operation via the potentiometer on the back of the luminaire is also still possible, helping ARCOS offer a blend of wireless and conventional control that makes it the ideal solution for a wide range of applications.

Flicker-free dimming down to 1%

The intelligent combination of two dimming technologies - control of the lighting intensity via constant current reduction and pulse-width modulation - helps provide dimmed light that is free from disturbing flicker effects. Even the lowest dimming levels can be achieved with the highest quality, guaranteeing a seamless transition from light to dark. Flicker-free light also enables the successful execution of film recordings and even supports the conservation aspect of artificial light, as sensors and lighting management systems regulate the output to protect sensitive exhibits.

Excellent colour rendering

ARCOS blu harnesses the benefits of the Xicato XIM LED module to achieve a narrow colour tolerance (1 x 2-step MacAdam) and an unsurpassable colour rendering of CRI 98. Spotlights and Litecarve wallwashers thereby show even the slightest colour nuances at their very best.



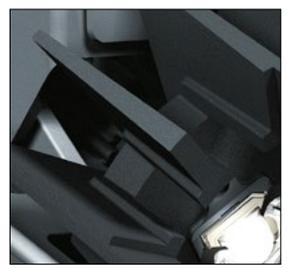
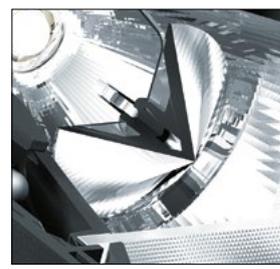
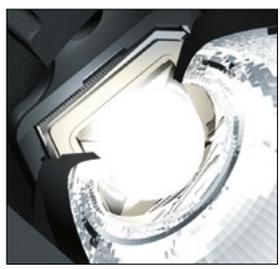
Ra 98

Ra 90

Ra 80

ARCOS 2 LED xpert

Sustainable technology, compact size



1 Design & functions

ARCOS xpert perfectly combines design and function. Like its conventional predecessor, the LED spotlight system blends harmoniously into a variety of environments. True to Zumtobel's credo "tried-and-tested design, new technology", the new generation's appearance has remained unchanged, so that the LED version can easily be combined with conventional ARCOS lighting solutions. ARCOS xpert provides maximum flexibility – due to a variety of additional functions:

- Spotlight can be locked into position
- Spotlight is dimmable (at the luminaire or via DALI)
- Rotating attachment holder and encoded lens
- Cool touch function
- Holder suitable for a large range of accessories

3 The optical system

A combination of specially shaped polycarbonate reflectors and selected lens optics that is perfectly matched to the LED module ensures excellent lighting quality: the ARCOS xpert LED spotlight cannot fail to impress thanks to its excellent glare control (no light source visible) and uniform high-precision light distribution. The high level of luminous intensity is focussed in the centre and softly decreases towards the edges – another characteristic feature of ARCOS xpert adding to its excellent lighting quality.

2 The LED light source

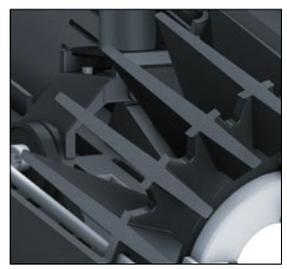
Thanks to its compact size, the innovative Xicato Artist LED module is ideal for accent lighting in art and culture applications. This technology boasts excellent colour rendering (Ra 98, R9=98) and an extremely narrow colour tolerance (1x2-step MacAdam). In addition, the light is free from IR and UV, which means that it is gentle on the exhibits and prevents colours from fading. As a result, the ARCOS xpert 2 and 3 LED spotlights catch the eye with superior lighting quality.

4 Passive cooling

The level of lighting quality achieved in an application depends on optimum thermal management. The high-power ARCOS xpert LED spotlight boasts an intelligent passive cooling system allowing for luminous flux and service life to remain at a constantly high level. In addition, due to the cooling system's innovative design, no openings are required in the housing. Like its conventional predecessor, the LED spotlight's converter box also features a cool touch function: thus, ARCOS xpert spotlights can be individually adjusted to changed situations at any time.

ARCOS 3 LED xpert

Sustainable technology, high light output



1 Design & functions

The only visible difference between ARCOS 3 xpert and ARCOS 2 xpert is the former's slightly larger diameter – ideal for combining both sizes in one room. That's not all: the consistently designed ARCOS product range with its various models and lumen packages is able to meet a variety of lighting tasks in museums and art galleries, while perfectly catering for various ceiling heights and lighting distances. With illuminance levels of up to 2000 lm, ARCOS 3 provides perfect accent lighting from great heights. This extremely high flexibility is based on multiple additional functions:

- Spotlight can be locked into position
- Spotlight is dimmable (at luminaire or via DALI)
- Rotating attachment holder and encoded lens
- Cool touch function
- Holder suitable for a wide range of accessories

3 The optical system

In addition to louvre optics such as ring louvre or honeycomb mesh, a number of reflectors and special films are available for ARCOS xpert. By combining them, light control, glare limitation and lighting effects can be designed as required. The extremely uniform lighting cone is supplemented by beam angles ranging from 8° (superspot) to 40° (wideflood). Using oval or rectangular lenses, the shape of the lighting cones can be modified.

2 The LED light source

The innovative Xicato Artist LED module ensures perfect accent lighting. The spotlight achieves an excellent colour rendering of Ra 98 at colour temperatures of both 3000 K and 4000 K. All colours are correctly displayed thanks to an almost constant colour spectrum. This technology also features an extra-narrow colour tolerance of 1x2-step MacAdam. With an outstanding R9 level of 98, ARCOS LED spotlights meet the highest requirements placed on museum lighting. The identical colour spectrum means that ARCOS LED 2 and 3 can be flawlessly combined with each other.

4 Passive cooling

The higher the lumen package, the higher the requirements placed on thermal management. Despite its high output, the designers managed to provide the ARCOS xpert high-performance LED spotlight with an intelligent passive cooling system. Thus, the housing does not need any ventilation slots, although it is ensured that the spotlight achieves maximum luminous flux and has an extremely long service life. Similar to other sizes, the LED spotlight's converter box features a cool touch function: thus, ARCOS xpert 3 spotlights can be re-adjusted to changed situations at any time.

ARCOS 3 xpert LED liteCarve®

Accentuated Wallwasher





Light emission

ARCOS 3 xpert liteCarve® illuminates large vertical surfaces evenly, even when several spotlights are lined up together.

1 Design & function

ARCOS 3 xpert liteCarve® acts as a wallwasher, but is really a spotlight. This makes it possible to set accents as well as illuminate vertical surfaces using a visually consistent lighting solution. In this way, ARCOS xpert fulfils the desires of many architects for different lighting effects for unique designs. In addition to all the functional advantages offered by a dimmable and lockable spotlight with a cool touch function, ARCOS 3 xpert liteCarve® has, with its light head that can be rotated or pivoted, the advantage of flexibility compared to linear wallwashers.

2 The LED light source

With an outstanding colour rendering of Ra 98 and the super-tight colour tolerance of 1x2-step MacAdam, the innovative Xicato Artist LED module guarantees a consistently high light quality. The liteCarve® spotlight is an ideal member of the ARCOS xpert product group, presenting itself as the perfect solution for holistic lighting concepts.

3 & 4 The optical system

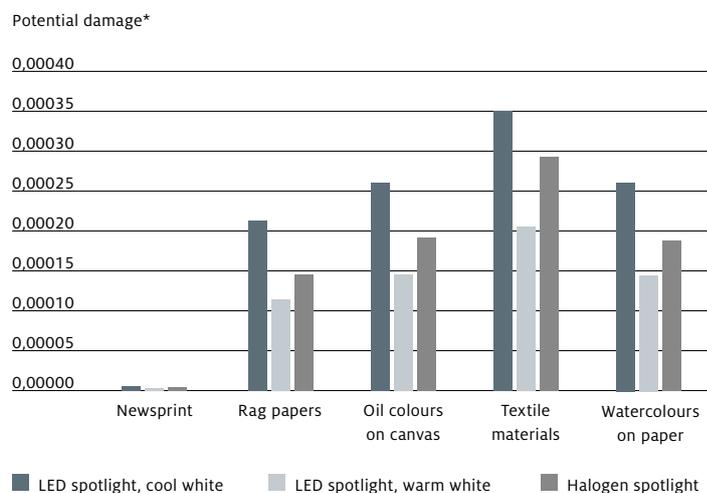
The patented liteCarve® reflector technology is an antidote to the rigid system of existing lighting categories. Why? Because for the first time, a spotlight is able to perfectly illuminate vertical surfaces. This is done by combining a special lens with the unique freeform reflector, which directs all the light from the principal LED point light source, focusing it onto the vertical surfaces.

ARCOS LED

tunableWhite

Potential damage

Museum lighting is often faced with the difficult task to set delicate works of art center stage while protecting them against damage or fading. Here ARCOS LED tunableWhite offers the perfect solution. Individually adjustable colour temperatures modify spectral distribution, i.e. the proportion of short and long wavelengths. This has an influence on the damaging potential of the radiation which the objects are exposed to. Contrasts between warm and cool white are created, selectively directing the viewer's attention. Additionally, the spectrum of the LED includes almost no radiation in the infrared and ultraviolet ranges. Accordingly, impressive yet gentle illumination of valuable exhibits is possible without any auxiliary filters.



*measured at a distance of 2 m and dimmed to 200 lx
 Source: PB289/2010 test report, TU Darmstadt, photometrics department

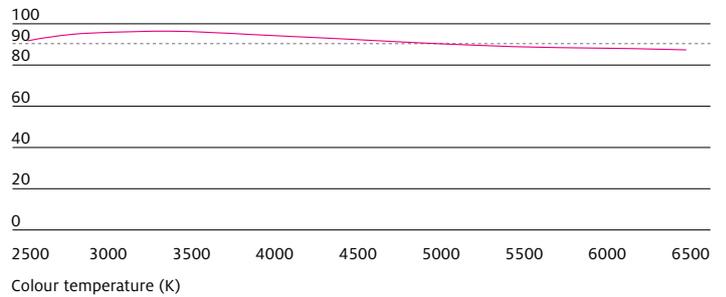




ARCOS LED tunableWhite

The LED spotlight for dynamic white light colours combines excellent colour rendering qualities (Ra 90) with maximum flexibility. ARCOS LED tunableWhite is based on PiLED technology by Tri-donic: white LEDs with greenish phosphor combined with red and blue LEDs can be controlled with high precision to create highly varied accent lighting. This mix ensures that colour temperatures ranging from 2700 K to 6500 K can be continuously adjusted, while a high level of colour rendering quality is maintained, i.e. colours are not distorted. Adjustments are made either via the DALI control system or directly at the spotlight.

Colour rendering index Ra_s (CRI)



ARCOS 2 LED xpert projection spotlight

Compact expert for sharp outlines



ARCOS 2 LED projection spotlight

Based on the qualities of the ARCOS 2 xpert spotlight, the equally compact projection spotlight sets the exhibits centre stage to optimum effect – with sharp outlines, uniform light distribution and at the same time low illumination of walls. High flexibility is provided thanks to mechanically adjustable lenses ensuring that the light emitted in parallel is given the required shape.

Mean illuminance

Iris diaphragm with minimum opening

Iris diaphragm with maximum opening

Lighting point height	Diameter	Lighting point height	Diameter
1 m	2400 lx	1 m	700 lx
2 m	580 lx	2 m	150 lx
3 m	250 lx	3 m	70 lx
4 m	140 lx	4 m	40 lx



Projection

Thanks to the framing spotlight's lens system with adjustable focus, objects and pictures can be illuminated with sharp outlines.



- 1 Condenser lens
- 2 Front ring
- 3 Adjustable framing cover (alternatively: iris diaphragm)
- 4 Adjustable focussing lens

Front ring

A condenser lens embedded into the rotating front ring focuses the light. The combination with a reflection lens placed directly before the LED board results in a unique lens technology, making sure that light distribution is uniform and light beams are emitted in parallel, providing optimum prerequisites for illumination with sharp outlines using framing covers.

Magnetically fixed accessories

Adjustable lenses and covers can be attached via magnets in the required position. This kind of intuitive handling ensures maximum flexibility. Framing covers and iris diaphragms control the light beam, providing perfect illumination of both rectangular and round exhibits. Custom-fit sizes and distances can be continuously adjusted using the focussing lens.



Rectangular exhibits are illuminated with sharp outlines using a framing cover.



The iris diaphragm allows illumination with circular, sharp outlines.

The focussing lens perfectly adjusts the light beam to the lighting distance and the size of the exhibit.

ARCOS 3 LED projection spotlight

Powerful illumination with sharp outlines



ARCOS 3 LED projection spotlight

Offering precise yet gentle accent lighting, the high-performance spotlight provides for an extraordinary experience at exhibitions. Sharp contrasts and uniform light distribution set exhibits centre-stage, perfectly, whilst at the same time minimising the illumination of walls. The dimming level can be adjusted directly at the spotlight. By doing this the requirements of sensitive exhibits can be taken into account at any time, observing the illuminance levels required under aspects of conservation. The LED framing spotlight can also be fixed along both axes.



Projection

Thanks to the framing spotlight's lens system with adjustable focus, objects and pictures can be illuminated with sharp outlines.



Front ring

Through adjustable framing covers and iris diaphragms, the front ring allows for individual control of the light beam, showing off both square and circular exhibits to optimum effect. A built-in gobo holder creates ideal prerequisites for extraordinary, creative projections. The front ring is attached to the housing via a twist-and-lock mechanism and can therefore be replaced quickly and easily.

Lenses

The optical structure consists of condenser and objective lenses. They are jointly responsible for uniform light distribution and varying beam angles ranging from 6° to 24°. The easily replaceable lenses make the spotlight extremely flexible. New lighting scenes can be composed quickly. The objective lens additionally serves to individually adjust the focus.



1 The framing cover controls the light beam for square illustrations.



2 The iris diaphragm controls the light beam for circular illustrations.



3 The gobo holder accommodates gobos for sharply outlined gobo projections.

Lenses

Condenser lens
Objective lens

Radiation angles

Superspot: 6°
Spot: 14°
Flood: 24°



ARCOS LED xpert | 22 W | superspot

ARCOS LED wallwasher, linear | 30 W | 620 mm long



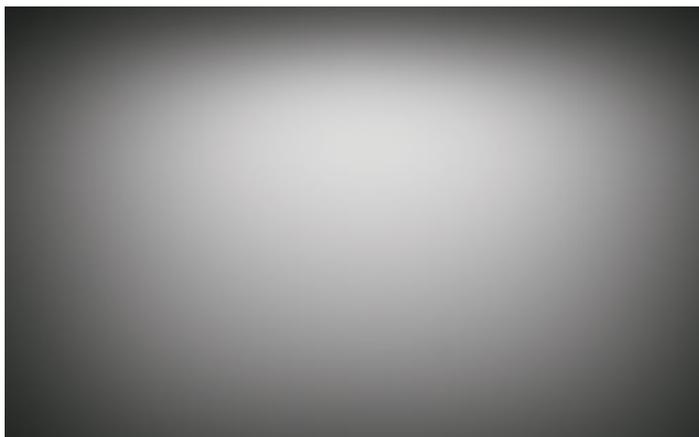
ARCOS LED wallwasher

Homogeneous illumination of vertical surfaces



Linear ARCOS wallwasher

Thanks to a new combination of lens and reflector, the linear ARCOS wallwashers deliver an exceptionally uniform vertical and horizontal illumination of large objects and surfaces. We have eliminated LEDs that are too high and thereby irritating, whilst also increasing the colour rendering to $Ra > 90$. This means that conservation issues and efficiency considerations can both be taken into account when illuminating objects with heights of up to seven metres. With its two design lengths (320 mm and 620 mm), the wallwasher can be specified to suit any architectural setting. The minimalist look enables the fittings to be tastefully combined with ARCOS LED spotlights. The fact that the luminaire can be dimmed – also via DALI – opens up huge energy-saving potential and allows adjustment to reflect the conservation requirements of specific exhibits.



Light distribution
ARCOS LED wallwasher, linear, Design length: 320 mm

The high-precision lighting tool

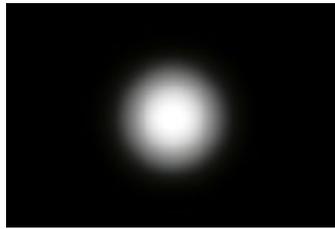
for every lighting task

Superspot (8° to 10°)



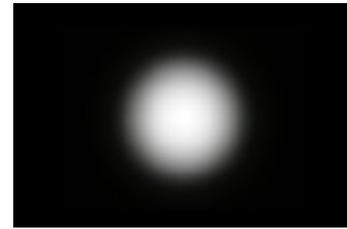
The superspot is used for highlighting even the smallest details.

Spot/medium spot (11° to 15°)



The spot emphasises single pictures or object areas.

Flood (22° to 30°)



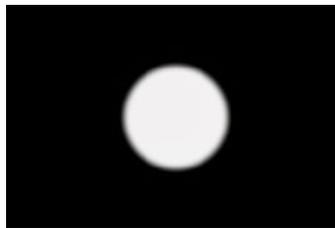
For the illumination of mid-sized objects – often in combination with spots.

Wideflood (32° to 40°)



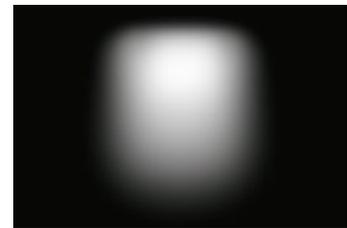
Larger surfaces are brightened up with the wideflood spot. Also used for backlighting.

Projection



If a sharply outlined, focusable light point is required, the projection spot-light is the right choice.

Wallwashers (liteCarve®)



Wall surfaces or larger pictures can be uniformly illuminated with ARCOS 3 xpert liteCarve®.

Wallwashers (with asymmetrically linear distribution)



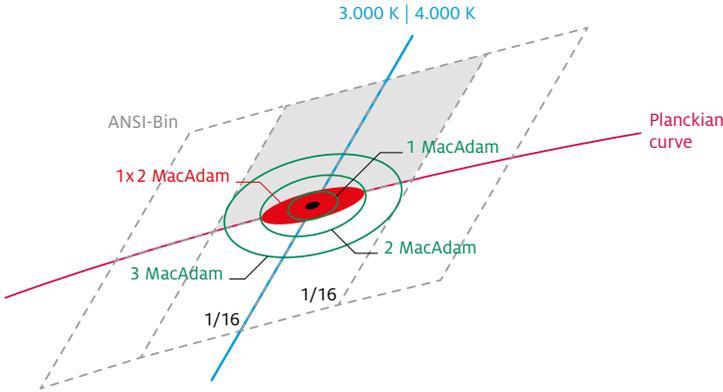
Large wall surfaces are lit brightly and uniformly by the new linear wallwashers.

A major requirement for illumination in museums and exhibitions is perfect, glare-free light. For this purpose, ARCOS uses front rings, special reflectors and a series of high-contrast covers and louvres. For the luminaire to be able to respond flexibly to changing lighting tasks, the optical units can be replaced without the need for any tools.

The perfect coordination of Xicato Artist LED module and optical system results in maximum precision, uniformity and intensity. The colour tolerance is exceptionally narrow and has been defined on the MacAdam ellipse as 1 x 2-step. In addition, the colour rendering of Ra 98 is almost unbeatable. An R9-value of 98 meets the highest requirements placed on museum lighting. Because of the identical spectrum of colours all spotlights from the ARCOS xpert product group fit perfectly together.

Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98	98	99	98	98	98	97	98	98	98	99	98	88	98	98	98

ARCOS xpert | Spectral distribution of colour rendering | Overall Ra: 98 | 3000 K



ARCOS xpert | LED binning | 1x2-step MacAdam | 3000 K and 4000 K

Glare control



The built-in front ring painted in black ensures glare control and also serves as a holding ring for attachments. Superspot spotlights are fitted with a special high-contrast cover and reflector version.



The ring louvre or honeycomb mesh prevent a direct view of the light source.

Dimmability



All ARCOS models can be dimmed directly on the luminaire or via a DALI lighting controls system.



ARCOS without any lenses

Soft outline lens

30° oval lens

50° oval lens

55° x 70° square lens



ARCOS xpert featuring spot light distribution.

If reduced lighting contrasts are required, soft outline lenses or films are used. In this example, the shadow below the picture frame has a softer quality.

In combination with a spot reflector, an oval, soft light cone is created that can be rotated with the accessory holder and, hence, can be matched to the exhibit.

In combination with a spot reflector, an oval, soft light cone is created that can be rotated with the accessory holder and, hence, can be matched to the exhibit.

In combination with a spot reflector, ARCOS xpert produces a soft square lighting cone that can be rotated using the attachment holder and thus aligned to the exhibit on display.

ARCOS 2 LED xpert



ARCOS 3 LED xpert



Intelligent accessories

for perfect presentations

55° x 70° square lens



30°/50° oval lens



Soft outline lens



Film holder



Colour temperature 3000 K



ARCOS xpert featuring spot light distribution and soft outline lens.

Conversion filter 4000



This filter neutralises for example an excessively warm colour temperature created by the dimming process. An alternative is dimming with a special dimming filter.

Holder for special films



Holders for special films that can be used to create a variety of colour effects and light distribution options are available for all LED reflectors.

Honeycomb mesh



The honeycomb mesh provides additional glare control. Combined with a soft outline lens, the uniformity of the lighting cone is maintained.

Cross louvre



The cross louvre ensures especially efficient glare control. In combination with other lenses, specific lighting tasks can be fulfilled.

A variety of accessories. Unbeatable flexibility

It is considered the most important lighting task in a museum or an exhibition to present an exhibit's message or shape to optimum effect. In this respect, the effect is often determined by the finest nuances of a material or colour. Due to its large variety of accessories, the ARCOS range provides optimum prerequisites for finding a target-oriented solution to any challenge in just a few simple steps. The following accessories are available for perfect illumination: four lenses, four exchangeable reflectors, a film holder, two special filters, two anti-glare louvres and barn doors. All lenses can be replaced without any tools and combined in a rotating attachment holder. This wide range of accessories makes the ARCOS LED spotlight system the ideal tool for perfect presentation of exhibits: in terms of flexibility as well as when it comes to lighting quality. Encoding of the lenses makes sure that the accessories used will stay in their exact position even after a light source or reflector has been replaced.



Museo del Duomo, Milan | IT

Architecture: Canali Associati s.r.l., Parma | IT

Light planning: Canali Associati s.r.l., Parma | IT

Lighting solution: ARCOS 2 xpert LED spotlight, PANOS infinity LED downlights, TECTON continuous-row lighting system, LINARIA lighting range, LEDLINE lighting channel system, PERLUCE moisture-proof diffuser luminaire



Simple and secure handling

for routine exhibition work



In addition to the many technical possibilities of a spotlight system, one feature is of particular importance for exhibition work: easy, quick and safe handling. Only when the whole range of activities including replacement of accessories and precise adjustment can be carried out effortlessly and reliably is a spotlight system really tried and tested. When the right spotlight position has been found, ARCOS remembers the setting. Both the pivoting and rotating position can be fixed with two allen keys. Even adjustment of the accessories is automatically fixed with a concealed spring clip, as soon as the attachment ring for replacement of reflectors is removed.

“Cool Touch” thanks to perfect thermal management
ARCOS can be handled and positioned at all times. Sophisticated air circulation prevents unpleasant heating up of the housing. This allows not only particularly easy and convenient usage of ARCOS, but also protects lamp and control gear electronics from premature wear.

Fixing of spotlight alignment using allen key



With an allen key the spotlight can be securely locked to protect against unintentional misalignment.

Releasing the bayonet catch



The attachment ring placed over the twist-and-lock fastener can be removed to enable replacement of the reflector.

Direct access to the reflector



A spring catch fixes the reflector to the back of the attachment. This can simply be unlocked and removed.

Quick attachment of lenses via removable accessory holder



Lens replacement has never been so easy: just remove the accessory holder and insert up to three or four accessories. Then lock the holder back into its position on the attachment ring and the job's done.

Encoded, self-locking accessory holder secures precise lens position



The encoded lenses ensure that the accessories used will stay in their exact position during maintenance.

Innovative adapter

As unobtrusive as the spotlight itself

Adaptor

With the introduction of the new adapter, ARCOS comes up with another milestone. This connector is the smallest and most unobtrusive in design that is available on the market today. Since the designers managed to relocate the mechanism to the track level, what is visible of the adaptor is its very flat design, emphasising the ARCOS spotlight system's linear and unobtrusive structure which consistently continues right up to the track. This adaptor concept will also be the basis for all future spotlight systems by Zumtobel.

With its minimalist design and dimensions, it is just as impressive with its control in the adapter. By using a bilateral parallel locking mechanism situated close to the bracket axis, an extremely high level of stability is obtained. The high-precision mechanism of the movable parts is remarkable. For instance, the phase is now easily selected via a convenient rotary switch, which can also be used during operation. Another innovation is the implementation of the DALI standard into the 3-phase track. Thus, digital lighting control can be effected via an already existing track.



Open adapter

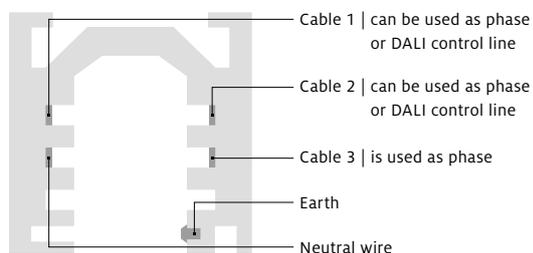
Closed adapter

Rotary switch for phase selection

or with DALI connection

DALI compatibility

Depending on the adapters and feeders used, the 3-phase track can be used both as a conventional and a DALI track.





ARCOS LED xpert | 22 W | with soft outline lens

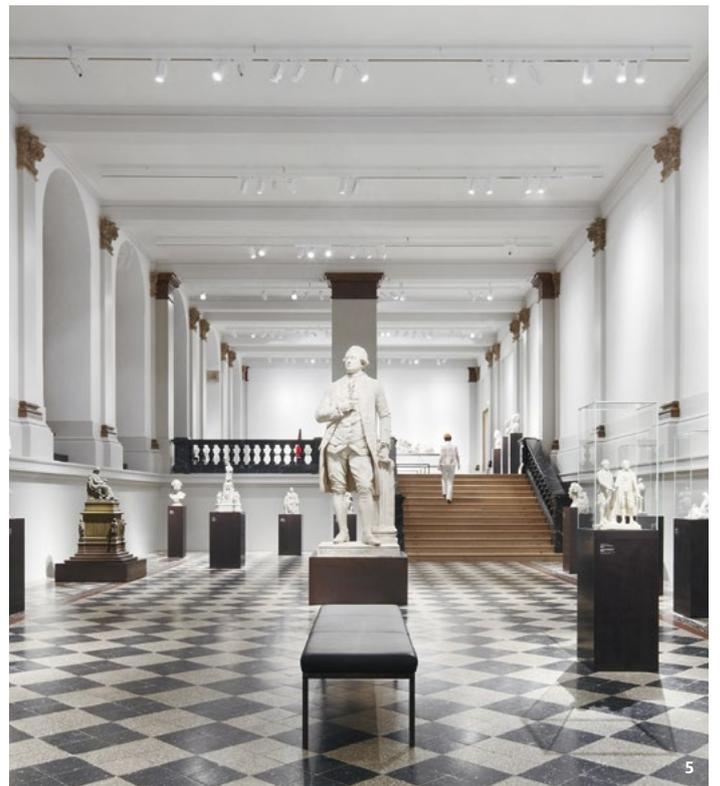
ARCOS

Applications

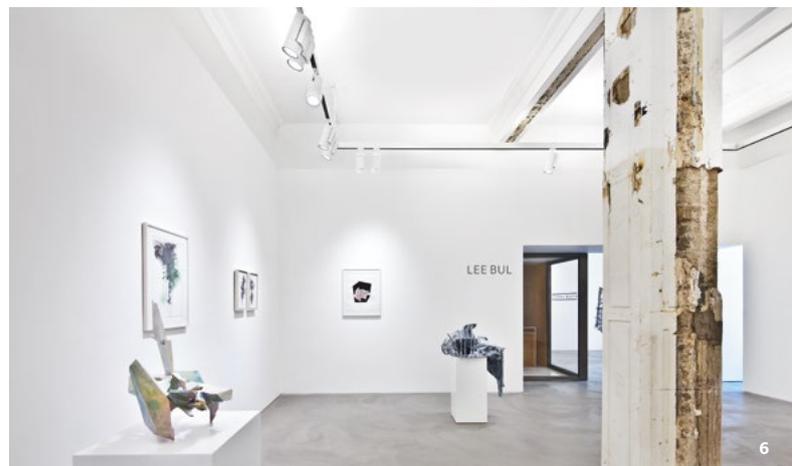




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- 1 Museo Galileo, Florence | IT
- 2 Het Scheepvaartmuseum, Amsterdam | NL
- 3 Parish church, Lingenau | AT
- 4 heart – Herning Museum of Contemporary Art, Herning | DK
- 5 Albertinum, Dresden | DE
- 6 Lehmann Maupin Gallery, Hong Kong | CN

First-class lighting quality

Sophisticated lighting technology creates the optimum conditions for illuminating artistic exhibits with the highest precision. Pinpoint accent lighting and wide-area lighting compositions are brought together in perfect harmony.

Gentle staging

The excellent colour rendering of CRI 98 brings out even the finest of nuances and sets the scene perfectly for different materials. At the same time, the UV-free and IR-free light is gentle on valuable and sensitive exhibits.

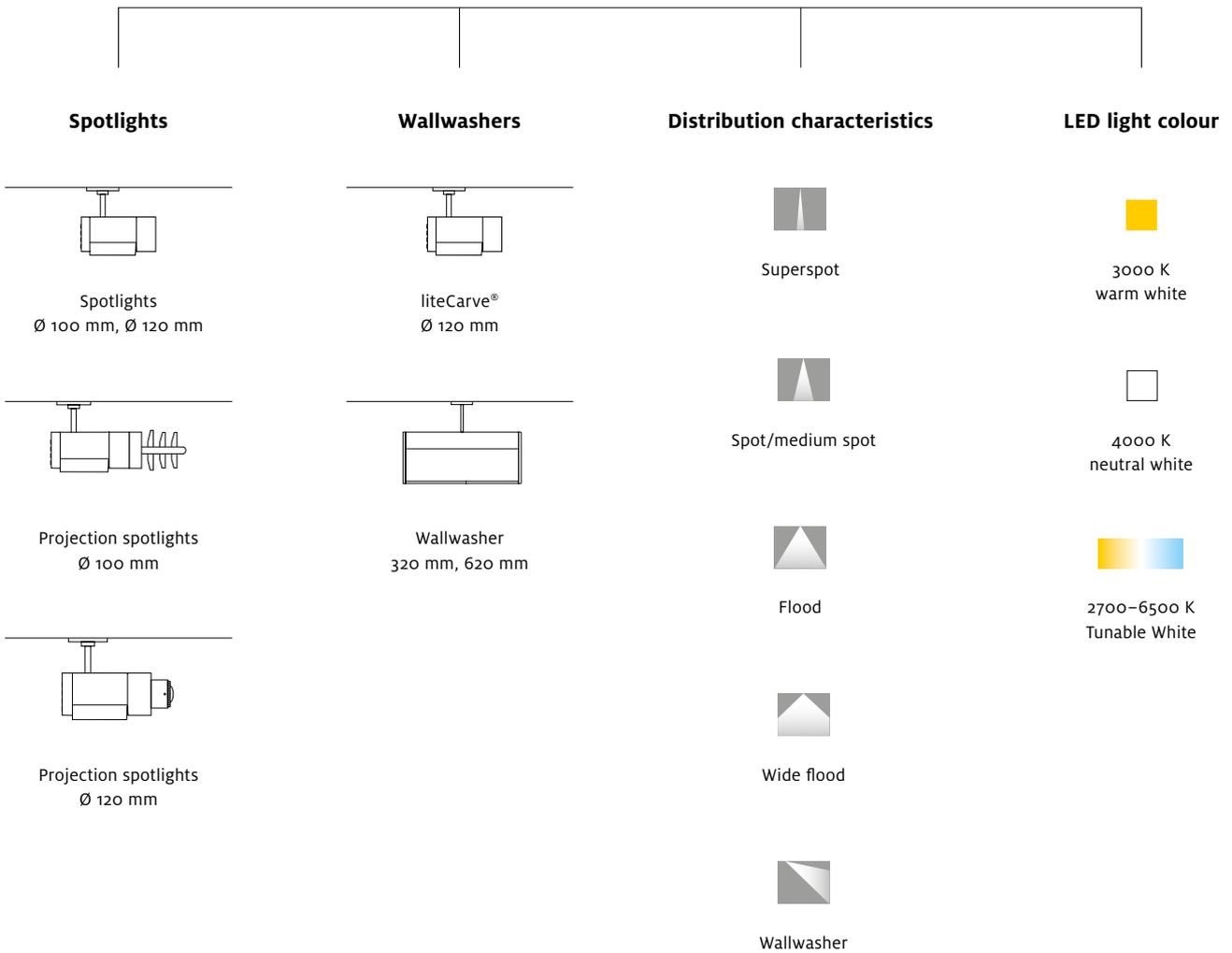
High-quality overall solution

The comprehensive portfolio of spotlights, wallwashers and accessories offers endless combinations, helping make sure that the ARCOS range can comfortably respond to the various challenges associated with museum lighting.



ARCOS LED

LED spotlight system

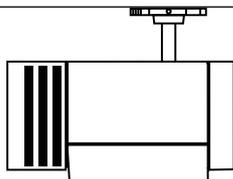


ARCOS 2

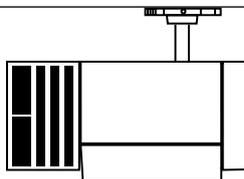
|...| Shared properties ARCOS 2

- Countersunk pivot
- Spotlight rotates through 365° and pivots through 90°
- Mains voltage: 220–240 V / 50/60 Hz
- Must be installed in ceiling for use as point outlet
- Luminaire can only be wall-mounted when used with Zumtobel 3-phase universal adapter and wall-mounting bracket

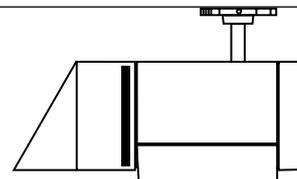
ARCOS filters and lenses



Front cylinder with short attachment ring and anti-glare ring
Includes specular reflector, anti-glare ring, and accessory holder to accommodate up to 2 additional filters or lenses.



Front cylinder with cruciform louvre attachment
Includes specular reflector, cruciform louvre, and accessory holder to accommodate up to 3 additional filters or lenses.



Front cylinder with wallwasher attachment
Includes specular reflector, flood reflector and special lens.

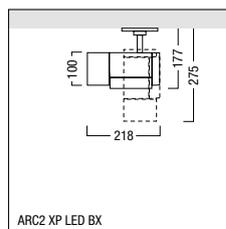
ARCOS 2 xpert LED Bluetooth®



- |...|
- LED spotlight “xpert stableWhite” with outstanding colour rendering (LED module: XICATO ARTIST)
- Optimized for efficient and high quality accent lighting in museums, exhibition spaces and art galleries
- Housing made of die-cast aluminium
- Colour: white micro-textured paint
- Front ring provides excellent glare control
- More than one accessory at once can be fitted without tools on the front ring
- Axes of movement can be fixed separately using Allen key
- Dimming of illuminance (0.1–100 %) using rotary potentiometer, fine adjustment via Bluetooth®
- Flicker-free light
- Specular reflector of aluminised PC, highly specular, iridescence-free
- Service life: 50 000 h at 80 % luminous flux
- Colour temperature: 3000 K (LED930: warm white)
- Colour rendering: Ra >98 / R9 98
- Luminaire luminous flux up to 800 lm

	kg	Order no.
3-phase LED spotlight, flood (with universal adapter)		
1/20 W LED930 flood, rotary potentiometer/Bluetooth®	1,5	60 715 074
1/20 W LED930 wideflood, rotary potentiometer/Bluetooth®	1,5	60 715 075
3-phase LED spotlight, spot (with universal adapter)		
1/20 W LED930 spot, rotary potentiometer/Bluetooth®	1,5	60 715 073
1/20 W LED930 superspot, rotary potentiometer/Bluetooth®	1,5	60 715 072
Accessory		
USB dongle for Bluetooth® programming		60 700 397
Replacement reflector, superspot		60 700 336
Replacement reflector, spot		60 700 337
Replacement reflector, flood		60 700 338
Replacement reflector, wideflood		60 700 339
Anthracite wall-washer attachment		60 700 333
White wall-washer attachment		60 700 349
oval-outline lens 30°		60 700 110
oval-outline lens 50°		60 700 111
oval-outline lens 55 x 70°		60 700 112
Soft outline lens		60 700 343
Honeycomb louvre, black		60 700 108
Anthracite cross-louvre		60 700 335
White cross-louvre		60 700 350
Anti-glare blades, black		60 700 116
Filter holder for film, 2 pieces (4 rings)		60 700 334

For recessed/surface-mounting:
please order additional point outlet (see Tracks and Accessories).
Please order additional wall-mounting bracket for wall mounting (see Tracks and Accessories).



1/20 W LED930, Flood (ST8471)			1/20 W LED930, Spot (ST8470)		
Mounting height	Average illuminance	Beam Diameter	Mounting height	Average illuminance	Beam Diameter
1 m	2225 lux	0.46 m	1 m	3563 lux	0.31 m
2 m	556 lux	0.92 m	2 m	891 lux	0.63 m
3 m	247 lux	1.37 m	3 m	396 lux	0.94 m
4 m	139 lux	1.83 m	4 m	223 lux	1.25 m
Φ=750 lm Half beam angle=2x13° LOR=100%			Φ=750 lm Half beam angle=2x9° LOR=100%		

ARCOS 2

ARCOS 2 xpert LED



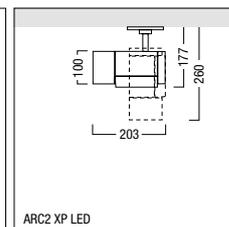
- [...]
 - LED spotlight "xpert stableWhite" with outstanding colour rendering (LED module: XICATO ARTIST)
 - Optimized for efficient and high quality accent lighting in museums, exhibition spaces and art galleries
 - Housing made of die-cast aluminium
 - Finish: anthracite or white microtextured paint
 - Front ring provides excellent glare control
 - More than one accessory at once can be fitted without tools on the front ring
 - Axes of movement can be fixed separately using Allen key
 - Dimming of illuminance 1–100 % using rotary potentiometer or dimmable DALI only
 - Specular reflector of aluminised PC, highly specular, iridescence-free
 - Service life: 50 000 h at 70 % luminous flux
 - Colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: intermediate)
 - Colour rendering: Ra >98 / R9 98
 - Luminaire luminous flux up to 850 lm
 - Please note: DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track
 - Dali point-outlet version available on request

	kg	Order no.	Order no.
3-phase LED spotlight, flood (with universal adapter)		white	anthracite
1/23 W LED930 flood, rotary potentiometer	1,5	60 714 123	60 714 122
1/23 W LED930 wideflood, rotary potentiometer	1,5	60 714 125	60 714 124
1/23 W LED940 flood, rotary potentiometer	1,5	60 714 133	60 714 132
1/23 W LED940 wideflood, rotary potentiometer	1,5	60 714 135	60 714 134
3-phase LED spotlight, spot (with universal adapter)		white	anthracite
1/23 W LED930 spot, rotary potentiometer	1,5	60 714 121	60 714 120
1/23 W LED930 superspot, rotary potentiometer	1,5	60 714 119	60 714 118
1/23 W LED940 spot, rotary potentiometer	1,5	60 714 131	60 714 130
1/23 W LED940 superspot, rotary potentiometer	1,5	60 714 129	60 714 128
3-phase spot (with universal adapter and wallwasher attachment)		white	anthracite
1/23 W LED930, rotary potentiometer	1,5	60 714 127	60 714 126
1/23 W LED940, rotary potentiometer	1,5	60 714 137	60 714 136
L3+DALI LED spotlight, flood (including Universal adapter)		white	anthracite
1/30 W LED930 flood, dimmable Dali only	1,5	60 714 103	60 714 102
1/30 W LED930 wideflood, dimmable Dali only	1,5	60 714 105	60 714 104
1/30 W LED940 flood, dimmable Dali only	1,5	60 714 113	60 714 112
1/30 W LED940 wideflood, dimmable Dali only	1,5	60 714 115	60 714 114
L3+DALI LED spotlight, spot (including Universal adapter)		white	anthracite
1/30 W LED930 spot, dimmable Dali only	1,5	60 714 101	60 714 100
1/30 W LED930 superspot, dimmable Dali only	1,5	60 714 099	60 714 098
1/30 W LED940 spot, dimmable Dali only	1,5	60 714 111	60 714 110
1/30 W LED940 superspot, dimmable Dali only	1,5	60 714 109	60 714 108
L3+DALI spotlight (including universal adapter and wallwasher attachment)		white	anthracite
1/30 W LED930, dimmable Dali only	1,5	60 714 107	60 714 106
1/30 W LED940, dimmable Dali only	1,5	60 714 117	60 714 116
Accessory			
Replacement reflector, superspot			60 700 336
Replacement reflector, spot			60 700 337
Replacement reflector, flood			60 700 338
Replacement reflector, wideflood			60 700 339
Anthracite wall-washer attachment			60 700 333
White wall-washer attachment			60 700 349
oval-outline lens 30°			60 700 110
oval-outline lens 50°			60 700 111
oval-outline lens 55 x 70°			60 700 112
Soft outline lens			60 700 343
Honeycomb louvre, black			60 700 108
Anthracite cross-louvre			60 700 335
White cross-louvre			60 700 350
Anti-glare blades, black			60 700 116
Filter holder for film, 2 pieces (4 rings)			60 700 334

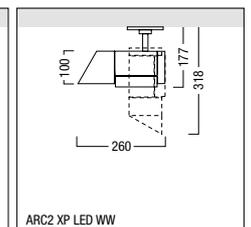
For recessed/surface-mounting:

please order additional point outlet (see Tracks and Accessories).

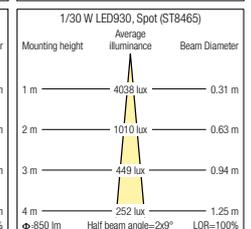
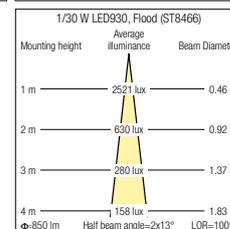
Please order additional wall-mounting bracket for wall mounting (see Tracks and Accessories).



ARC2 XP LED



ARC2 XP LED WW



ARCOS 2

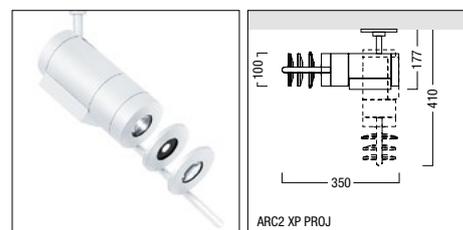
ARCOS 2 xpert LED projection



- [...]
 - LED spotlight (optical bank) with stabilised colour temperature "xpert stable White"
 - Applications with high ceiling mounting
 - Optimum accent lighting for museums, exhibitions, art galleries and sales and showroom areas
 - Projection elements consist of stray-light shield, lens and iris or framing attachment
 - Iris model provides sharp-edged and high-contrast circular illumination; intuitive adjustment of aperture via iris diaphragm
 - Framing attachment model for sharp-edged, high-contrast and rectangular illumination of surfaces
 - Front cylinder (optic) is fixed to rear housing with twist-and-lock mechanism
 - Simple handling of accessories: replaceable framing attachment and iris
 - Housing made of extruded aluminium section and die-cast aluminium
 - Finish: anthracite or white microtextured paint
 - Axes of movement can be fixed using Allen key supplied
 - Dimming of illuminance 1–100 % using rotary potentiometer or dimmable DALI only
 - Service life: 50 000 h at 70 % luminous flux
 - Colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: intermediate)
 - Colour rendering index: Ra > 90
 - Colour tolerance: SDCM 2 initial, LED PCBs premium-selected
 - Luminaire luminous flux up to 800 lm
 - Please note: DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track
 - Dali point-outlet version available on request

	kg	Order no.	Order no.
		white	anthracite
3-phase LED spotlight (with universal adapter)			
1/16 W LED930 Projection with framing attachment, rotary potentiometer	2,2	60 714 146	60 714 147
1/16 W LED930 Projection with iris, rotary potentiometer	2,1	60 714 138	60 714 139
1/16 W LED940 Projection with framing attachment, rotary potentiometer	2,2	60 714 148	60 714 149
1/16 W LED940 Projection with iris, rotary potentiometer	2,1	60 714 140	60 714 141
L3+DALI LED spotlight (including Universal adapter)			
		white	anthracite
1/16 W LED930 Projection with framing attachment, dimmable Dali only	2,2	60 714 150	60 714 151
1/16 W LED930 Projection with iris, dimmable Dali only	2,1	60 714 142	60 714 143
1/16 W LED940 Projection with framing attachment, dimmable Dali only	2,2	60 714 152	60 714 153
1/16 W LED940 Projection with iris, dimmable Dali only	2,1	60 714 144	60 714 145
Accessory			
Framing attachment, anthracite			60 700 364
Framing attachment, white			60 700 363
Iris, anthracite			60 700 362
Iris, white			60 700 361

For recessed/surface-mounting: please order additional point outlet (see Tracks and Accessories).
Please order additional wall-mounting bracket for wall mounting (see Tracks and Accessories).



ARCOS 3

|...| Shared properties ARCOS 3

- Countersunk pivot
- Spotlight rotates through 365° and pivots through 90°
- Mains voltage: 220–240 V / 50/60 Hz
- Must be installed in ceiling for use as point outlet

ARCOS 3 xpert LED Bluetooth®



- |...|
- “xpert stableWhite” LED spot with stabilized colour temperature
- Optimized for efficient and high quality accent lighting in museums, exhibition spaces and art galleries
- Applications with high ceiling mounting
- Combination of precision reflectors and specially designed lenses enables precise, homogeneous light distribution characteristics
- Housing made of die-cast aluminium
- Colour: white micro-textured paint
- Front ring provides excellent glare control
- More than one accessory at once can be fitted without tools on the front ring
- Axes of movement can be fixed separately using Allen key
- Dimming of illuminance (0.1–100 %) using rotary potentiometer, fine adjustment via Bluetooth®
- Flicker-free light
- Specular reflector (SSP/SP/MSP): PC reflector, aluminized, highly reflective, iridescence-free, louvre (SSP/SP) and film
- Specular reflector (FL/WFL): PC reflector, aluminized, highly reflective, iridescence-free with glass cover
- Service life: 50 000 h at 80 % luminous flux
- Colour temperature: 3000 K (LED930: warm white)
- Colour rendering: Ra 9 95
- Colour tolerance: SDCM 1–2 initial up to 40,000 hrs., LED PCBs premium-selected
- Luminaire luminous flux to 2000 lm
- Luminaire efficiency: 55 lm/W
- Luminaire can only be wall-mounted when used with Zumtobel 3-phase universal adapter and wall-mounting bracket

	kg	Order no.
3-phase LED spotlight, flood (with universal adapter)		
1/35 W LED930 flood, rotary potentiometer/Bluetooth®	2,3	60 715 069
1/35 W LED930 wideflood, rotary potentiometer/Bluetooth®	2,3	60 715 070
3-phase LED spotlight, spot (with universal adapter)		
1/35 W LED930 spot, rotary potentiometer/Bluetooth®	2,3	60 715 068
1/35 W LED930 superspot, rotary potentiometer/Bluetooth®	2,3	60 715 067
Accessory		
USB dongle for Bluetooth® programming		60 700 397
Replacement reflector, superspot		60 700 365
Replacement reflector, spot		60 700 357
Replacement reflector, mediumspot		60 700 367
Replacement reflector, flood		60 700 358
Replacement reflector, wideflood		60 700 359
oval-outline lens 50°		60 700 132
oval-outline lens 55 x 70°		60 700 133
Soft outline lens		60 700 130
Softener film (filter holder + film)		60 700 366
Filter holder, 2 pieces (4 rings)		60 700 360
Honeycomb louvre, black		60 700 129

For recessed/surface-mounting:
please order additional point outlet (see Tracks and Accessories).
Please order additional wall-mounting bracket for wall mounting (see Tracks and Accessories).



Mounting height	1/35 W LED930, Flood (S77826)		1/35 W LED930, Spot (S77789)	
	Average illuminance	Beam Diameter	Average illuminance	Beam Diameter
1 m	7198 lux	0.41 m	10258 lux	0.20 m
2 m	1799 lux	0.82 m	2565 lux	0.39 m
3 m	800 lux	1.22 m	1140 lux	0.59 m
4 m	450 lux	1.63 m	641 lux	0.78 m
	Φ=1950 lm	Half beam angle=2x12° LOR=100%	Φ=800 lm	Half beam angle=2x6° LOR=100%

ARC3 XP LED BX

ARCOS 3

ARCOS 3 xpert LED

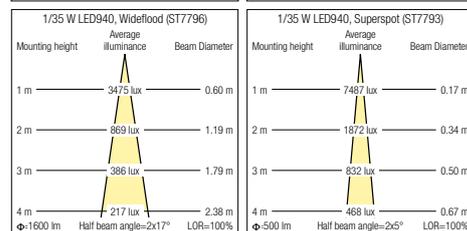
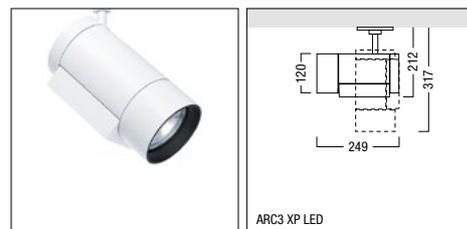


- [...]
 - “xpert stableWhite” LED spot with stabilized colour temperature
 - Optimized for efficient and high quality accent lighting in museums, exhibition spaces and art galleries
 - Applications with high ceiling mounting
 - Combination of precision reflectors and specially designed lenses enables precise, homogeneous light distribution characteristics
 - Housing made of die-cast aluminium
 - Finish: anthracite or white microtextured paint
 - Front ring provides excellent glare control
 - More than one accessory at once can be fitted without tools on the front ring
 - Axes of movement can be fixed separately using Allen key
 - Dimming of illuminance 1–100 % using rotary potentiometer or dimmable DALI only
 - Specular reflector (SSP/SP/MSP): PC reflector, aluminized, highly reflective, iridescence-free, louvre (SSP/SP) and film
 - Specular reflector (FL/WFL): PC reflector, aluminized, highly reflective, iridescence-free with glass cover
 - Service life: 50 000 h at 70 % luminous flux
 - Colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: intermediate)
 - Colour rendering index: Ra > 98
 - Colour tolerance: SDCM 1–2 initial - up to 40 000 h, LED PCBs premium-selected
 - Luminaire luminous flux to 2000 lm
 - Luminaire efficiency: 55 lm/W
 - Please note: DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track
 - Dali point-outlet version available on request
 - Luminaire can only be wall-mounted when used with Zumtobel 3-phase universal adapter and wall-mounting bracket

	kg	Order no.	Order no.
3-phase LED spotlight, flood (with universal adapter)		white	anthracite
1/35 W LED930 flood, rotary potentiometer	2,2	60 713 214	60 713 215
1/35 W LED930 wideflood, rotary potentiometer	2,2	60 713 216	60 713 217
1/35 W LED940 flood, rotary potentiometer	2,2	60 713 222	60 713 223
1/35 W LED940 wideflood, rotary potentiometer	2,2	60 713 224	60 713 225
3-phase LED spotlight, spot (with universal adapter)		white	anthracite
1/35 W LED930 mediumspot, rotary potentiometer	2,2	60 713 500	60 713 501
1/35 W LED930 spot, rotary potentiometer	2,3	60 713 212	60 713 213
1/35 W LED930 superspot, rotary potentiometer	2,3	60 713 265	60 713 266
1/35 W LED940 mediumspot, rotary potentiometer	2,2	60 713 502	60 713 503
1/35 W LED940 spot, rotary potentiometer	2,3	60 713 220	60 713 221
1/35 W LED940 superspot, rotary potentiometer	2,3	60 713 267	60 713 268
L3+DALI LED spotlight, flood (including Universal adapter)		white	anthracite
1/35 W LED930 flood, dimmable Dali only	2,2	60 713 230	60 713 231
1/35 W LED930 wideflood, dimmable Dali only	2,2	60 713 232	60 713 233
1/35 W LED940 flood, dimmable Dali only	2,2	60 713 238	60 713 239
1/35 W LED940 wideflood, dimmable Dali only	2,2	60 713 240	60 713 241
L3+DALI LED spotlight, spot (including Universal adapter)		white	anthracite
1/35 W LED930 mediumspot, dimmable Dali only	2,2	60 713 504	60 713 505
1/35 W LED930 spot, dimmable Dali only	2,3	60 713 228	60 713 229
1/35 W LED930 superspot, dimmable Dali only	2,3	60 713 269	60 713 270
1/35 W LED940 mediumspot, dimmable Dali only	2,2	60 713 506	60 713 507
1/35 W LED940 spot, dimmable Dali only	2,3	60 713 236	60 713 237
1/35 W LED940 superspot, dimmable Dali only	2,3	60 713 271	60 713 272
Accessory			
Replacement reflector, superspot			60 700 365
Replacement reflector, spot			60 700 357
Replacement reflector, mediumspot			60 700 367
Replacement reflector, flood			60 700 358
Replacement reflector, wideflood			60 700 359
oval-outline lens 50°			60 700 132
oval-outline lens 55 x 70°			60 700 133
Soft outline lens			60 700 130
Softener film (filter holder + film)			60 700 366
Filter holder, 2 pieces (4 rings)			60 700 360
Honeycomb louvre, black			60 700 129

For recessed/surface-mounting: please order additional point outlet (see Tracks and Accessories).

Please order additional wall-mounting bracket for wall mounting (see Tracks and Accessories).



ARCOS 3

ARCOS 3 LED (tunableWhite)



- [...]
 - Ideal for accent lighting in museums, exhibitions, art galleries and sales and display areas
 - Housing made of extruded aluminium section and die-cast aluminium
 - Finish: anthracite or white microtextured paint
 - Axes of movement can be fixed separately using Allen key
 - Colour temperature can be continuously adjusted at the spotlight from warm white to daylight white (momentary-action switch/ rotary pot model)
 - Colour temperature can be adjusted from warm white to daylight white via DALI signal (DT8 2010 DALI system)
 - Electronically stabilised colour temperature over the entire service life
 - Illuminance adjustment: 15–100 % (DALI signal, momentary-action switch/rotary potentiometer)
 - Service life: 50 000 h at 70 % luminous flux
 - Colour rendering index: Ra 90
 - Luminous flux up to 780 lm at 2700 K
 - Please note: DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track
 - Dali point-outlet version available on request
 - Luminaire can only be wall-mounted when used with Zumtobel 3-phase universal adapter and wall-mounting bracket

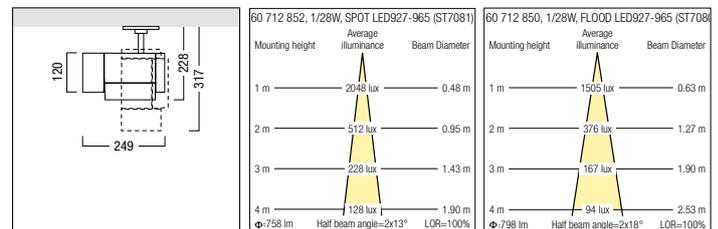
	kg	Order no.	Order no.
3-phase LED spotlight, flood (with universal adapter)		white	anthracite
1/28 W LED927–965 flood, momentary action switch/ rotary potentiometer	2,2	60 712 850	60 712 849
3-phase LED spotlight, spot (with universal adapter)		white	anthracite
1/28 W LED927–965 spot, momentary action switch/ rotary potentiometer	2,2	60 712 852	60 712 851
L3+DALI LED spotlight, flood (including Universal adapter)		white	anthracite
1/28 W LED927–965 flood, dimmable Dali only	2,2	60 712 333	60 712 335
L3+DALI LED spotlight, spot (including Universal adapter)		white	anthracite
1/28 W LED927–965 spot, dimmable Dali only	2,2	60 712 332	60 712 334

Accessory

Anti-glare blades, black	60 700 137
oval-outline lens 50°	60 700 132
Replacement reflector, flood	60 700 292
Replacement reflector, spot	60 700 291
Soft outline lens	60 700 130

For recessed/surface-mount installation, please order additional point outlet (see Tracks and Accessories).

For wall-installation, please order additional wall-mounting bracket (see Tracks and Accessories).



ARCOS 3

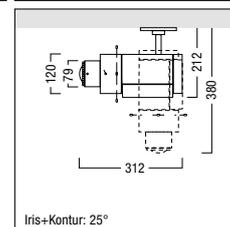
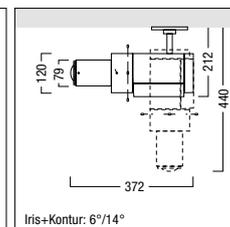
ARCOS 3 LED projection



- [...]
 - Optimum accent lighting for museums, exhibitions, art galleries and sales and showroom areas
 - LED spotlight with optical bank
 - Designed for precise, sharp-focused projection of a light field
 - Projection elements comprise condenser lens, objective lens, diffuser lens, spherical lens and iris or framing attachment or reflector
 - Iris model provides sharp-edged and high-contrast circular illumination; intuitive adjustment of aperture via iris diaphragm
 - Framing attachment model for sharp-edged, high-contrast and rectangular illumination of surfaces
 - Front lens adjusts the sharpness
 - Front cylinder (optic) is fixed to rear housing with twist-and-lock mechanism
 - Easy-to-use accessories: condenser lens, objective lens, diffuser lens, spherical lens, iris, framing attachment and reflector can be interchanged with other accessory units
 - Housing made of extruded aluminium section and die-cast aluminium
 - Finish: anthracite or white microtextured paint
 - Axes of movement can be fixed using Allen key supplied
 - Service life: 50 000 h at 70 % luminous flux
 - Colour temperature: 3000 K (LED930: warm white)
 - Colour rendering index: Ra 90
 - Rotary potentiometer provides 10–100 % illuminance adjustment
 - Mount for gobos, lenses and irises available as optional accessory
 - Fully assembled spot with mount for gobos or mount with ring on request
 - Wall-mounting not permissible

	kg	Order no.	Order no.
3-phase LED spotlight, flood (with universal adapter)		white	anthracite
1/25 W LED930 flood (25°), framing-attachment projection	3,8	60 713 957	60 713 963
1/25 W LED930 flood (25°), iris projection	3,8	60 713 960	60 713 966
3-phase LED spotlight, spot (with universal adapter)		white	anthracite
1/25 W LED930 Spot (14°), framing-attachment projection	3,8	60 713 956	60 713 962
1/25 W LED930 spot (14°), iris projection	3,8	60 713 959	60 713 965
1/25 W LED930 superspot (6°), framing-attachment projection	3,8	60 713 955	60 713 961
1/25 W LED930 superspot (6°), iris projection	3,8	60 713 958	60 713 964
Accessory			
Condenser lens 14°/25°			60 700 296
Condenser lens 6°			60 700 295
Framing attachment, anthracite			60 700 287
Framing attachment, white			60 700 265
Iris, anthracite			60 700 286
Iris, white			60 700 264
Lens set, flood (25°)			60 700 285
Lens set, spot (14°)			60 700 284
Lens set, superspot (6°)			60 700 283
Mount for gobos, anthracite			60 700 288
Mount for gobos, white			60 700 266
Objective lens 25°, black			60 700 294
Objective lens 6°/14°, black			60 700 293

Gobos available as custom-made item on request.



ARCOS 3

ARCOS 3 xpert LED WW liteCarve®



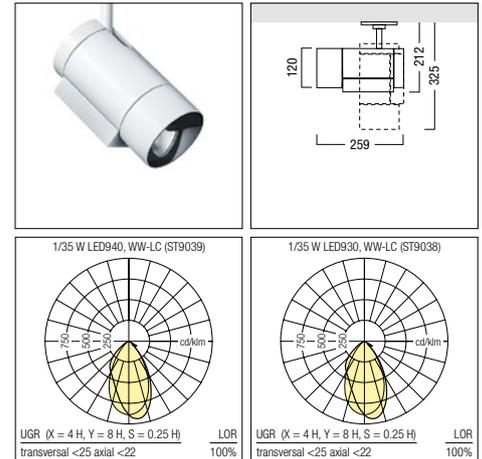
- [...]
 - LED wallwasher spotlight with stabilised colour temperature "xpert stableWhite" (LED module: XICATO ARTIST)
 - Optimised for the high quality vertical lighting of surfaces and objects in museums, exhibition spaces and art galleries
 - Use up to 4.5 m height ceiling mounting
 - Lamp unit: Zumtobel patented liteCarve® free-form reflector technology in combination with a special lens for uniform light distribution on surfaces
 - From an LED point light source, the liteCarve® reflector guides the light 100 % indirectly, targeted and without stray light onto the vertical surface
 - Housing made of die-cast aluminium
 - Finish: anthracite or white microtextured paint
 - Front ring provides excellent glare control
 - Axes of movement can be fixed separately using Allen key
 - Dimming of illuminance 1–100 % using rotary potentiometer or dimmable DALI only
 - Specular reflector of aluminised PC, highly specular, iridescence-free
 - Service life: 50 000 h at 70 % luminous flux
 - Colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: intermediate)
 - Colour rendering: Ra 9 95
 - Colour tolerance: SDCM ≤2
 - Luminaire luminous flux up to 1400 lm
 - Luminaire efficiency: 40 lm/W
 - Please note: DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track
 - Dali point-outlet version available on request
 - BLE control on request

	kg	Order no.	Order no.
3-phase LED spot unit (with universal adapter)		white	anthracite
1/35 W LED930 , rotary potentiometer	2,5	60 714 705	60 714 706
1/35 W LED930 , rotary potentiometer/Bluetooth®	2,5	60 715 071	
1/35 W LED940 , rotary potentiometer	2,5	60 714 707	60 714 708
L3+DALI LED spotlight, dimmable Dali only (including Universal adapter)		white	anthracite
1/35 W LED930 , dimmable Dali only	2,5	60 714 709	60 714 710
1/35 W LED940 , dimmable Dali only	2,5	60 714 711	60 714 712

Accessory

USB dongle for Bluetooth® programming 60 700 397

With recessing/surface-mounting: order additional point outlet (see Tracks and Accessories).



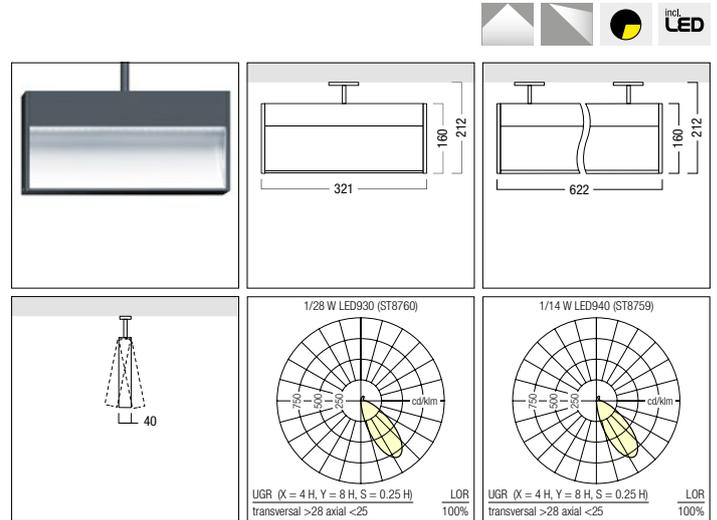
ARCOS WW

ARCOS WW LED asymmetric



- LED linear wallwasher spotlight with stabilised stableWhite colour temperature in following models: short (14 W) and long (28 W)
- Optimised for efficient and uniform lighting of vertical wall surfaces up to 7 m in height, and objects in museums, exhibitions and art galleries
- Asymmetric specular reflector made of high-grade aluminium in anodised silver-look finish; designed specifically for the LED module
- Spotlight design delivers excellent glare control, with no direct view of LED light source
- Housing made of extruded aluminium section with die-cast aluminium end faces
- Finish: anthracite or white microtextured paint
- Spotlight unit can tilt through $\pm 15^\circ$ and the 14 W model can pivot through 365°
- With polycarbonate protective panel
- 5 to 100 % illuminance adjustment possible using rotary potentiometer or dimmable Dali only
- Service life: 50 000 h at 80 % luminous flux
- Colour temperature: 3000 K (LED930: warm white) or 4000 K (LED940: intermediate)
- Colour rendering index: $R_a > 90$
- Colour tolerance: MacAdam 3
- Luminaire luminous flux: up to 1000 lm (14 W) or up to 2000 lm (28 W)
- Mains voltage: 220–240 V / 50/60 Hz
- Wall-mounting not permissible
- Suitable for point outlet (14 W model)
- Please note: DALI model is only suitable for use with Zumtobel 3-phase/L3+DALI track

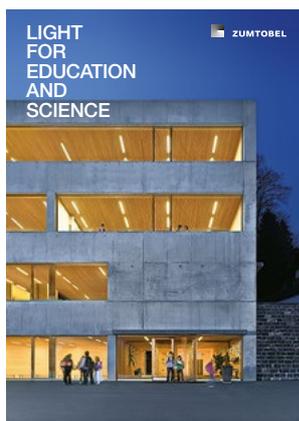
	kg	Order no.	Order no.
3-phase LED spotlight (with universal adapter)		white	anthracite
1/14 W LED930 , rotary potentiometer	1,5	60 714 562	60 714 561
1/14 W LED940 , rotary potentiometer	1,5	60 714 564	60 714 563
1/28 W LED930 , rotary potentiometer	2,6	60 714 570	60 714 569
1/28 W LED940 , rotary potentiometer	2,6	60 714 572	60 714 571
L3+DALI spotlight (with Universal adapter)		white	anthracite
1/14 W LED930 , dimmable Dali only	1,5	60 714 566	60 714 565
1/14 W LED940 , dimmable Dali only	1,5	60 714 568	60 714 567
1/28 W LED930 , dimmable Dali only	2,6	60 714 574	60 714 573
1/28 W LED940 , dimmable Dali only	2,6	60 714 576	60 714 575



Zumtobel, a company of the Zumtobel Group, is an internationally leading supplier of integral lighting solutions for professional indoor and outdoor building lighting applications.



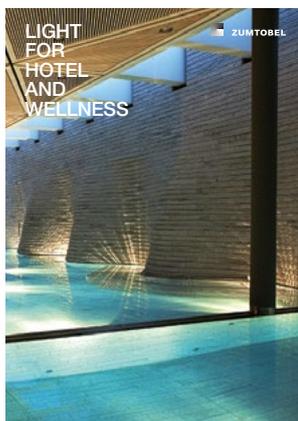
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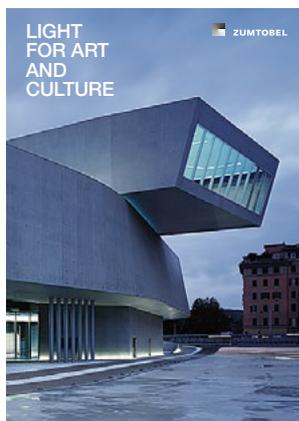
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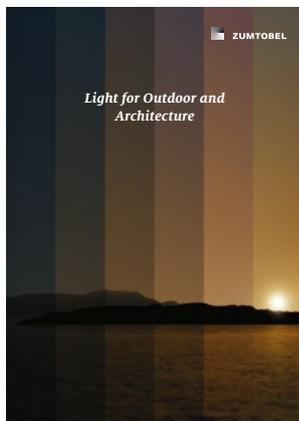
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zumtobel.com/outdoor

- *Offices and Communication*
- *Education and Science*
- *Presentation and Retail*
- *Hotel and Wellness*
- *Art and Culture*
- *Health and Care*
- *Industry and Engineering*
- *Outdoor and Architecture*
- *Living*

We provide unique customer benefits by integrating technology, design, emotion and energy efficiency. We combine the best possible ergonomic lighting quality for an individual's well-being with the responsible use of energy resources. The company's own sales organisations in twenty countries, as well as commercial agencies in fifty other countries, form an international network of experts and design partners providing professional lighting consulting, design assistance and comprehensive services.

Lighting and sustainability

In line with our corporate philosophy "We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment", Zumtobel offers energy-efficient high-quality products, while at the same time making sure that our production processes based on the considerate use of resources are environmentally compatible.

zumtobel.com/sustainability

5 YEAR GUARANTEE
Top quality – with a five-year guarantee.
 As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products in accordance with the terms of guarantee at zumtobel.com/guarantee.

Order no.04 900 313-EN 11/17 © Zumtobel Lighting GmbH
 Technical data was correct at time of going to press.
 We reserve the right to make technical changes without notice. Please contact your local sales office for further information.





Tracks and spots

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zumtobel.us

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Downlights

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zumtobel.com

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F +386/(1) 5609 866
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zumtobel.si



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F +64/(9) 820 7591
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zumtobel.co.nz

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F +36/(1) 350 0829
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zumtobel.ru



Surface-mounted and pendant luminaires

China

Thorn Lighting (Guangzhou) Limited
12A Lian Yun Road
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GETDD, Guangzhou
510530, P.R. China
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zumtobel.cn

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Bygdøy allé 4
0257 Oslo
T +47 22 54 72 00
info.no@zumtobelgroup.com
zumtobel.no



Free-standing and wall-mounted luminaires

Hong Kong

ZG Lighting Hong Kong Ltd.
Unit 503 – 508, 5/F, Building 16W,
Phase 3, Hong Kong Science Park,
New Territories, Hong Kong
T +852/(0)2578 4303
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215 32 Malmö
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zumtobel.se



Continuous-row systems and individual batten luminaires

India

Thorn Lighting India Pvt. Ltd.
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Lighting management systems



Emergency lighting

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