

english



Stratas

by InstaLighting

Catalogue 12.2019



InstaLighting and Stratas join forces.

On 1 April 2020, lighting manufacturer Stratas will become part of Instalighting GmbH.

A manufacturer of high-end light fixtures, Stratas was established in 2006 by Christian Schneider-Moll. With Stratas, he created a range of expertly crafted lighting objects for museums. InstaLighting feels privileged to be invited to continue writing this story going forward.

By filling the niche created by Stratas, InstaLighting is extending its portfolio to include lighting fixtures for museums and the retail sector. Our manufacturing capacities in Brilon, central Germany, coupled with our decades-long experience in realising challenging lighting installations ensure that museums and shops will be able to take even greater advantage of the special qualities of Stratas luminaires in future.

We would like to thank Christian Schneider-Moll for the trust he has placed in InstaLighting. Existing Stratas customers are welcome to contact our team of consultants, who will provide you with the optimum service and competent advice you are accustomed to. We look forward to continuing to work successfully with you in the future.

Please contact us:

stratas@instalighting.de

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STRATAS.MB

230V



new

MB

Ø60 / 1300-2150 lm

30° / 33° / 43° / 60°
poti / DALI



MBs

Ø60 / 960 lm

14° / 18° / 28° / 36° / 45° / 60°
poti / DALI



MB zoom

Ø60 / 960 lm

15°-48° zoom
poti / DALI

230V



new

MB gobo

Ø60 / 960 lm

gobo projector
poti / DALI



MB profile

Ø60 / 960 lm

beamshaper
poti / DALI



new

MB WW

Ø60 / 960 lm

wallwasher
poti / DALI

STRATAS.MB profile



MB profile

Xicato XTM LED (CRI = 98) profile

luminaire

- small construction-kit spotlight system Ø 60mm
- beamshaper

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM-module LES 9mm
MBp-XTM-9, 960lm, typ. 16W
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- beamshaper

accessoires

- snoot

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=70, h=35) or recessed

orientation

- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

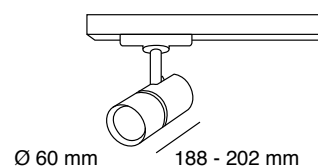
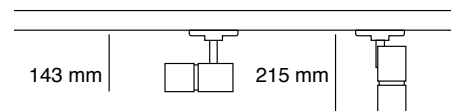
miscellaneous

- sytem typ. 17W
- Operating temperature: -25°C to 35°C
- weight: 0,6 kg



illuminance E (lx)
max. square edge length A (m)
distance H (m)

H (m)	E (lx)	A (m)
2m	500 lx	0,6 m
3m	222 lx	0,9 m
4m	125 lx	1,2 m
6m	55 lx	1,8 m
8m	31 lx	2,4 m



STRATAS.MB zoom



MB zoom

Xicato XTM LED (CRI = 98) zoom-spotlight

luminaire

- small construction-kit spotlight system Ø 60mm
- zoom-optic

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM-module LES 9mm
MBz-XTM-9, 960lm, typ. 16W
- colour temperature: 3000 K
(2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 1x zoomlens 15°-48°

accessoires

- snoot
- diffusor
- sculpture lens

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=70, h=35) or recessed

orientation

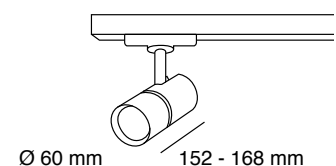
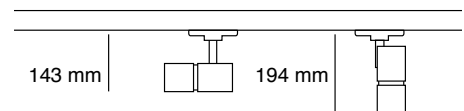
- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- system typ. 17W
- Operating temperature: -25°C to 35°C
- weight: 0,6 kg



STRATAS.MBs



MBs

Xicato XTM LED (CRI = 98) spotlight

luminaire

- small construction-kit spotlight system Ø 60mm
- with changeable optics

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM module LES 9 mm
- **MBs-XTM-9, 960lm, typ. 16W**
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 14° circular louver / 18° / 28° / 36°
- toolless exchange of lenses and reflectors

accessoires

- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=70, h=35) or recessed

orientation

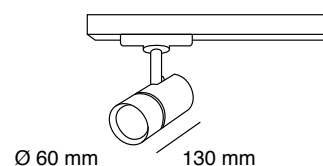
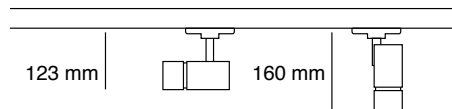
- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- system typ. 17W
- Operating temperature: -25°C to 35°C
- weight: 0,6 kg



new

STRATAS.MB



MB

Xicato XTM LED (CRI = 98) spotlight / wall washer

luminaire

- small construction-kit spotlight system Ø 60mm
- with changeable optics

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM module 19mm
MB-XTM-19, 1300lm, typ. 16W
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs and **2100lm** on request

beam angle

- 30° / 33° / 43° / 60° / wallwasher
- toolless exchange of lenses and wall washer front

accessoires

- wall washer front angled
- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=70, h=35) or recessed

orientation

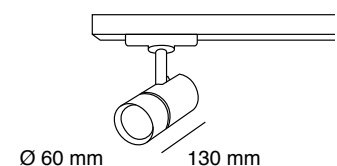
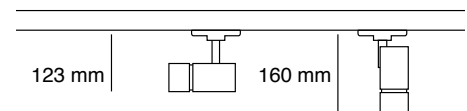
- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- system typ. 17W
- Operating temperature: -25°C to 35°C
- weight: 0,6 kg



new

STRATAS.MB ww



Xicato XTM LED (CRI = 98) spotlight / wall washer

luminaire

- small construction-kit spotlight system Ø 60mm

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM module 19mm
MBww-XTM2-19, 2000lm, typ. 24W
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
-

beam angle

- wallwasher

accessoires

•

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=70, h=35) or recessed

orientation

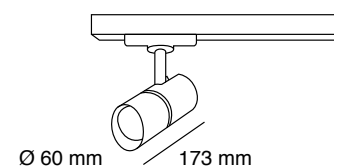
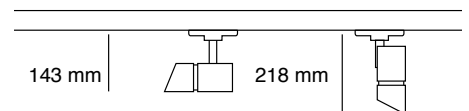
- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- system typ. 26W
- Operating temperature: -25°C to 35°C
- weight: 0,6 kg



new

STRATAS.MB gobo



MB gobo

Xicato XTM LED (CRI = 98) gobo

luminaire

- small construction-kit spotlight system Ø 60mm
gobo projector

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM-module LES 9mm
MBp-XTM-9, 960lm, typ. 16W
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- gobo

accessoires

-

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=70, h=35) or recessed

orientation

- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

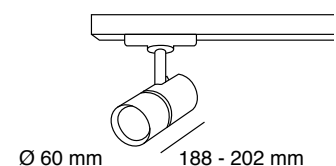
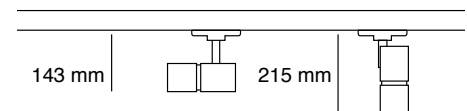
miscellaneous

- sytem typ. 17W
- Operating temperature: -25°C to 35°C
- weight: 0,6 kg



illuminance E (lx)
max. square edge length A (m)
distance H (m)

H (m)	E (lx)	A (m)
2m	500 lx	0,6 m
3m	222 lx	0,9 m
4m	125 lx	1,2 m
6m	55 lx	1,8 m
8m	31 lx	2,4 m



STRATAS.XIC

230V



XIC

Ø80 / 2000-2400 lm

17° / 20° / 40° / 50° / WW
bluetooth (BLE) / poti / DALI



XICs

Ø80 / 1050-1150 lm

11° circular louver
bluetooth (BLE) / poti / DALI



XIC ww

Ø80 / 2000-2400 lm

wallwasher
bluetooth (BLE) / poti / DALI

STRATAS.XICs



XICs

The best colour rendering Xicato XTM/XIM LED (CRI = 98) spotlight

luminaire

- small construction-kit spotlight system Ø 80mm
- with changeable optics
- optional integrated electronic (XIM-Modul)

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM and XIM-module LES 9 mm
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 11° circular louver
- toolless exchange of accessoires

accessoires

- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming
- XIM with Bluetooth low Energie (BLE)
 - BLE + potentiometer / flicker free / 0,1-100% dimming
 - BLE / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + poti / flicker free / 0,1-100% dimming
 - BLE + DALI

mounting

- track adapter 230V / (EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=80, h=35) or recessed

orientation

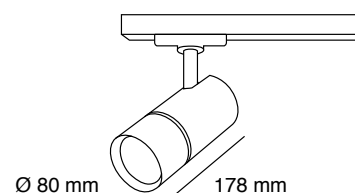
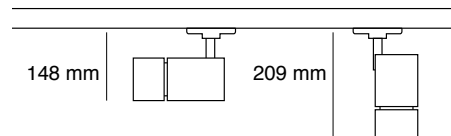
- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- Operating temperature: -25°C to 35°C
- weight: 1,25 kg



XICs XIM

XIM-module	1 150 lm	9mm
narrow-spot	DALI + 0-10V + BLE	230V-Track

Xicato XIM-LED (CRI = 98) spotlight

lamp

- XICATO / XIM Artist modul with integrated control (CRI = 98 / R9=95), XIM-module LES 9mm
XICs-XIM-9, 1150 lm, typ. 23W
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 11° circular louver

accessoires

- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XIM with Bluetooth low Energie (BLE)
 - BLE + potentiometer / flicker free / 0,1-100% dimming
 - BLE / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + poti / flicker free / 0,1-100% dimming
 - BLE + DALI

mounting

- track adapter 230V (EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=80, h=35) or recessed

orientation

- 0 ° - 90 ° vertical tilt and 360 ° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- system typ. 25W
- Operating temperature: -25°C to 35°C
- weight: 1,25 kg

XICs XTM

XTM-module	1050 lm	9mm
narrow-spot	1-10V / 0-10V / DALI	230V-Track

Xicato XTM-LED (CRI = 98) spotlight

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
XTM-module LES 9mm
XICs-XTM-9, 1050 lm, typ. 23W
- colour temperature: 3000 K
(2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 11° circular louver
-
-

accessoires

- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=80, h=35) or recessed

orientation

- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- sytem typ. 26W
- Operating temperature: -25°C to 35°C
- weight: 1,25 kg

STRATAS.XIC / XIC WW



XIC / XIC www

The best colour rendering Xicato XTM/XIM LED (CRI = 98) spotlight / wallwasher

luminaire

- small construction-kit spotlight system Ø 80mm
- with changeable optics
- optional integrated electronic (XIM-Modul)

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
Xicato XTM and XIM-module LES 19 mm
- colour temperature: 3000 K (2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 17° / 20° / 40° / 50° / wallwasher
- toolless exchange of reflectors and wallwasher front

accessoires

- wallwasher front angled
- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming
- XIM with Bluetooth low Energie (BLE)
 - BLE + potentiometer / flicker free / 0,1-100% dimming
 - BLE / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + poti / flicker free / 0,1-100% dimming
 - BLE + DALI

mounting

- track adapter 230V / (EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=80, h=35) or recessed

orientation

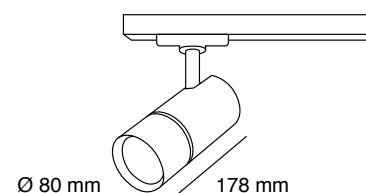
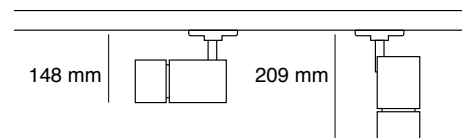
- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- Operating temperature: -25°C to 35°C
- weight: 1,25 kg



XIC / XIC_{www} XIM

XIM-module	2000 lm	19mm
spot / wallwasher	DALI + 0-10V + BLE	230V-Track

Xicato XIM-LED (CRI = 98) spotlight / wallwasher

lamp

- XICATO / XIM Artist modul with integrated control
(CRI = 98 / R9=95), XIM-module LES 19mm
XIC-XIM2, 2000 lm, typ. 27W
- colour temperature: 3000 K
(2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 17° / 20° / 40° / 50° / wallwasher
- toolless exchange of reflectors and wallwasher front

accessoires

- wallwasher front angled
- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XIM with Bluetooth low Energie (BLE)
 - BLE + potentiometer / flicker free / 0,1-100% dimming
 - BLE / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + poti / flicker free / 0,1-100% dimming
 - BLE + DALI

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=80, h=35) or recessed

orientation

- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- system typ. 28W
- Operating temperature: -25°C to 35°C
- weight: 1,25 kg

XIC / XIC_{ww} XTM

XTM-module	1800 - 2400 lm	19mm
spot / wallwasher	1-10V / 0-10V / DALI	230V-Track

Xicato XTM-LED (CRI = 98) spotlight / wallwasher

lamp

- XICATO / XTM Artist (CRI = 98 / R9=95)
XTM-module LES 19mm
XIC-XTM, 1800 lm, typ. 25W
XIC-XTM2, 2400 lm, typ. 24W
- colour temperature: 3000 K
(2700 K, 3500 K, 4000 K on request)
1x2 step MacAdam initial.
- life hours: 50,000 h - L70/B0/F0
- Colour and lumen consistent over life
- other Xicato-LEDs on request

beam angle

- 17° / 20° / 40° / 50° / wallwasher
- toolless exchange of reflectors and wallwasher front

accessoires

- wallwasher front angled
- honey comb
- snoot
- diffusor
- sculpture lens
- barn doors

control

- XTM
 - potentiometer / 10-100% dimming
 - potentiometer / flicker free / 0,1-100% dimming
 - DALI / flicker free / 0,1-100% dimming
 - DALI + potentiometer / flicker free / 0,1-100% dimming

mounting

- track adapter 230V
(EUTRAC / STUCCHI 3-phase multiadapter with data option)
- surface mount (Ø=80, h=35) or recessed

orientation

- 0° - 90° vertical tilt and 360° rotation.

material / colour

- aluminium, powder coated
- white, silver, black (other colours available on request)

miscellaneous

- system typ. 27W / 28 W
- Operating temperature: -25°C to 35°C
- weight: 1,25 kg

About STRATAS

Our main focus in design is to combine the exceptional quality of Xicato LED modules with our high quality approach of functionality and a clean aesthetic. The awareness of the advantages that quality light serves, the effects and influences good lighting achieves in diverse settings and living situations. These are the topics that make us appreciate Xicato highly as a partner.

Why Xicato LEDs?

Tungsten lighting, even though it has improved over the years – like halogen, it remains a technology from 1904 with very poor efficiency: 1.9% (12.6 Lm/W) to 3.5% (24 Lm/W). Other technologies, like mercury vapour and metal halide have much better efficiency but terrible light quality and generate a lot of UV, which must then be filtered out to protect artworks. Fluorescent tubes have good efficiency, but produce too much UV. They are not suitable as spotlights and it's rare to find any with good colour rendering.

With about 80 Lm/W for the Artist series, Xicato has allowed us the possibility of designing an efficient spotlight without compromise of light quality, an even better light beam than tungsten and significantly less UV generation.

Besides this, all other lighting solutions (aside from tungsten and LED) contain mercury, a highly pollutant chemical element. Stratas fixtures are completely free of mercury and are ROHS compliant. They simply last longer than any other light source, saving to throw out bulbs with mercury every month.

Unlike most other LED manufacturers, Xicato LEDs achieve 98 CRI from R1 to R15, within 1 x 2 MacAdam, and 50,000 hrs colour and lumen maintenance. Meaning that, even after thousands of hours of operation there will be no decrease in light or colour difference between any two Stratas fixtures.

Another advantage Xicato provides is a lot of power into one single LED chip, where other track fixtures sometime use a combination of several lower power LEDs, producing multiple shadows, the light beam of Stratas fixtures are adjustable in a wide range angle while preserving clean light and smooth shadows.

With all the benefits of Xicato LEDs, Stratas fixtures are the perfect product for gallery and museum lighting or anywhere the light quality must be of a high grade in a discreet fixture.

A long lifetime and reduced energy usage, Stratas light fixtures are of enduring benefit, save energy and maintenance for at least 5 years is not necessary.

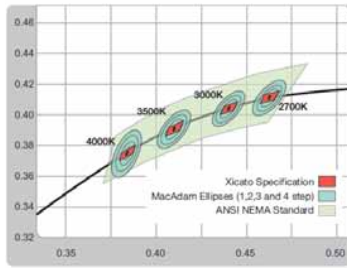
Importance of colour rendering.

Light is natural – and our way of perceiving it, is in a continuous spectrum from around 390 to 700nm. This perfect spectrum can have a different colour temperature. Tungsten, for example, is close to sun quality, just warmed up at lower temperature than to have descent lifetime. Tungsten fixtures have a colour temperature between 2800 K and 3200 K. Our eyes in combination with our brain is able to adjust our vision according to theses colour temperatures.

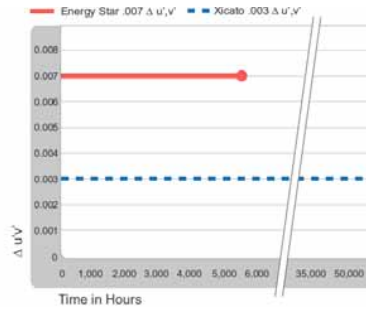
The problem with colour perception appears when the light is not a continuous spectrum following the black body colours temperatures. This is why we use the CRI (Colour Rendering Index) to quantify the quality of the light to restitute proper colours. Bad CRI light sources don't actually have a full spectrum, but an association of colour rays, or some blocks of rays that are weaker, which all together give the feeling that we see all the colours even if we can't.

These poor CRI lights may be suitable for many everyday applications however, to have a proper perception of colours which have been meticulously chosen, like paint hues, pictures, prints, high end products... a good CRI is indispensable.

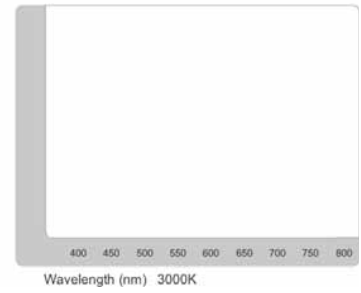
Colour consistency - Initial



Colour consistency - Maintained

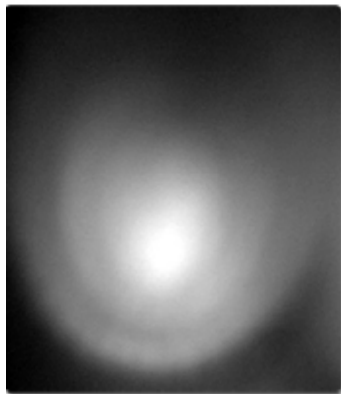


Spectral Power Distribution

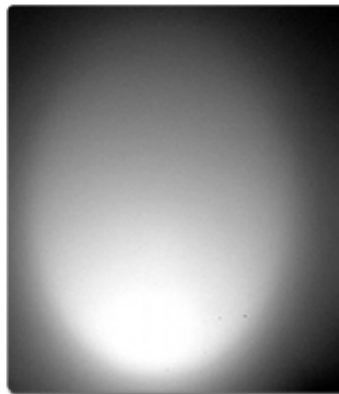


Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98	98	99	98	98	98	97	98	98	98	99	98	88	98	98	98

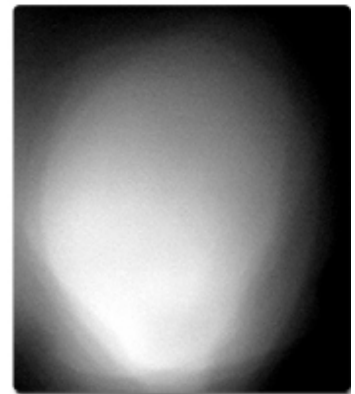
Colour Rendering Index



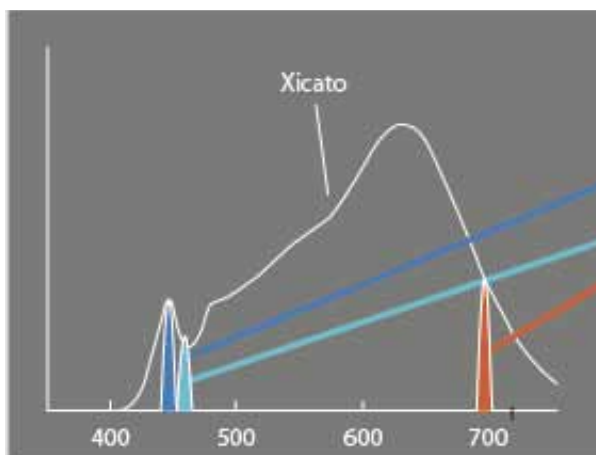
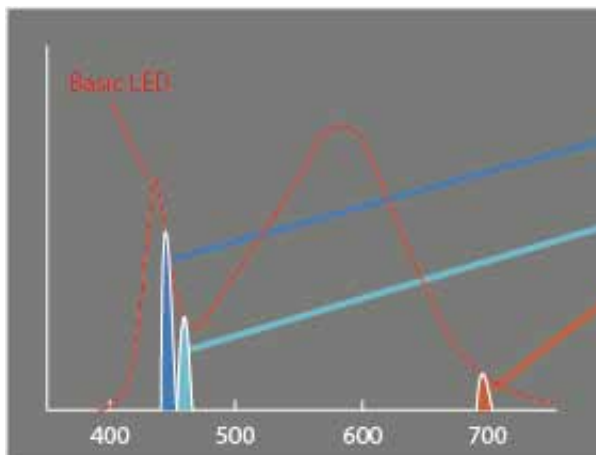
halogen



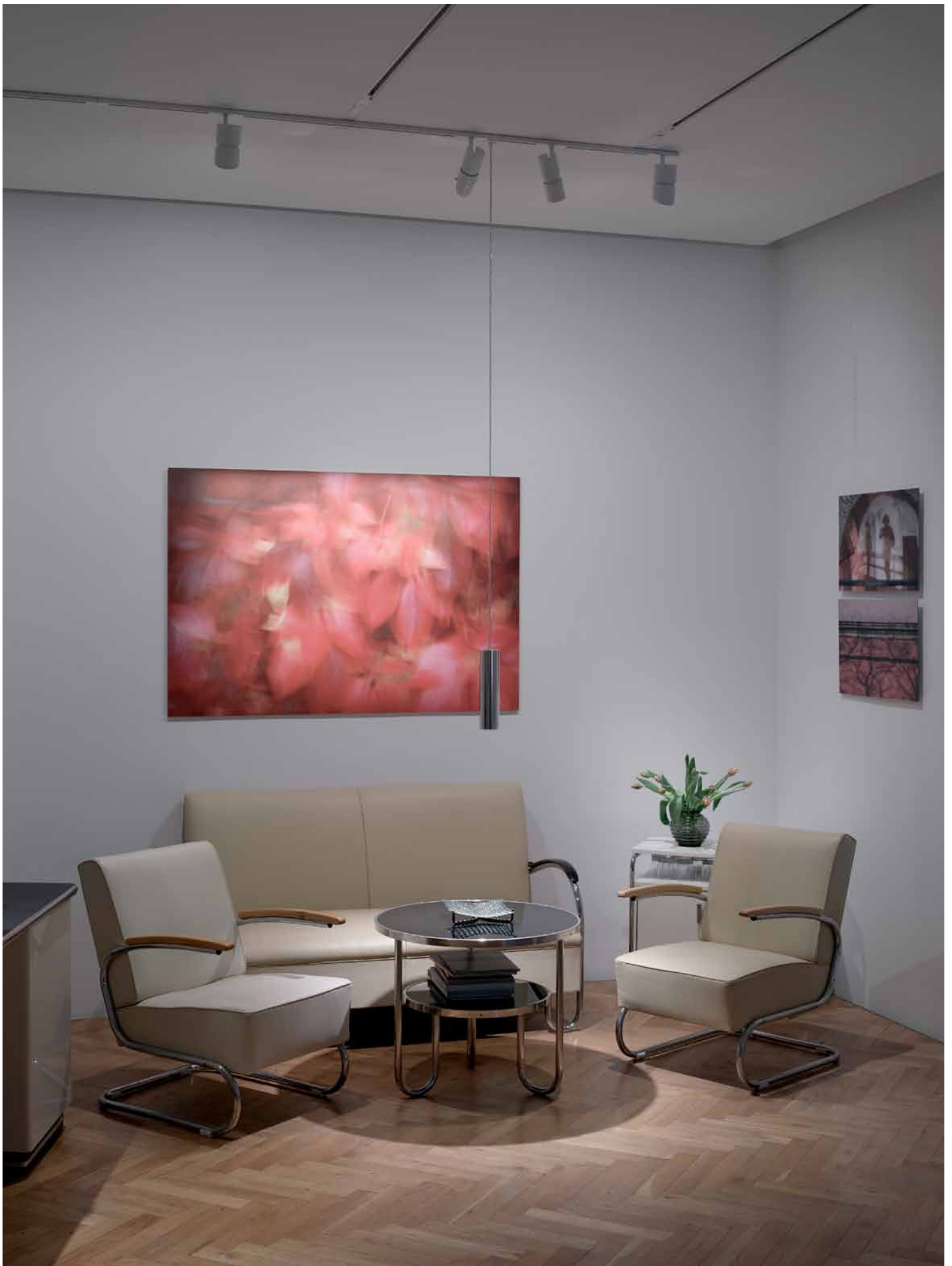
XICATO



LED array



images from www.xicato.com





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