



# Focus Micro Series

Track & Surface Mounted Fixtures



## > Focus Micro Series Track & Surface Mounted fixtures

### CLS Focus Micro series

The CLS Focus Micro series is the result of an intensive collaboration between a number of renowned lighting designers in the museum world and CLS as a manufacturer of high end lighting systems.

Therefore, both the aesthetic design and the photometric properties blend seamlessly with the needs of lighting designers. Going back 8 years, we at CLS were the first company to manufacture a super compact zoom rail fixture with built-in DMX512 and 24 VDC control options. We called it the Focus Track series.

In the past years, we have expanded the series with various rail and surface mounted fixtures. Tens of thousands of our products have since then found a place in many museums all over the world.

Naturally, our competitors came up with zoom-function fixtures of their own. This is why we wanted to go beyond our previous steps and bring forth a better and even more innovative type of lighting for showcases. The Focus Micro contains features that are unique in their kind and appeal to needs of professional lighting designers worldwide.



*What makes the CLS Focus Micro series so unique in terms of specifications and lighting experience?*



### Largest zoom range ever in a museum showcase spot

The CLS Performance Zoom system allows users to quickly and easily adjust the beam angle of the light with an effective zoom range of no less than **6° to 90°**. With a narrow beam angle of **6°**, our fixture finds no competitor that can deliver such preciseness.

Lighting designers do not have to make any concessions to create the optimal lighting setting, because with our products, they can create the perfect beam angle for any object.



6° - 90°

### Compact in size & attractively designed housing

CLS sets the standard for the coming years. The Focus Micro is not only extremely compact in terms of dimensions, it is also particularly elegant.

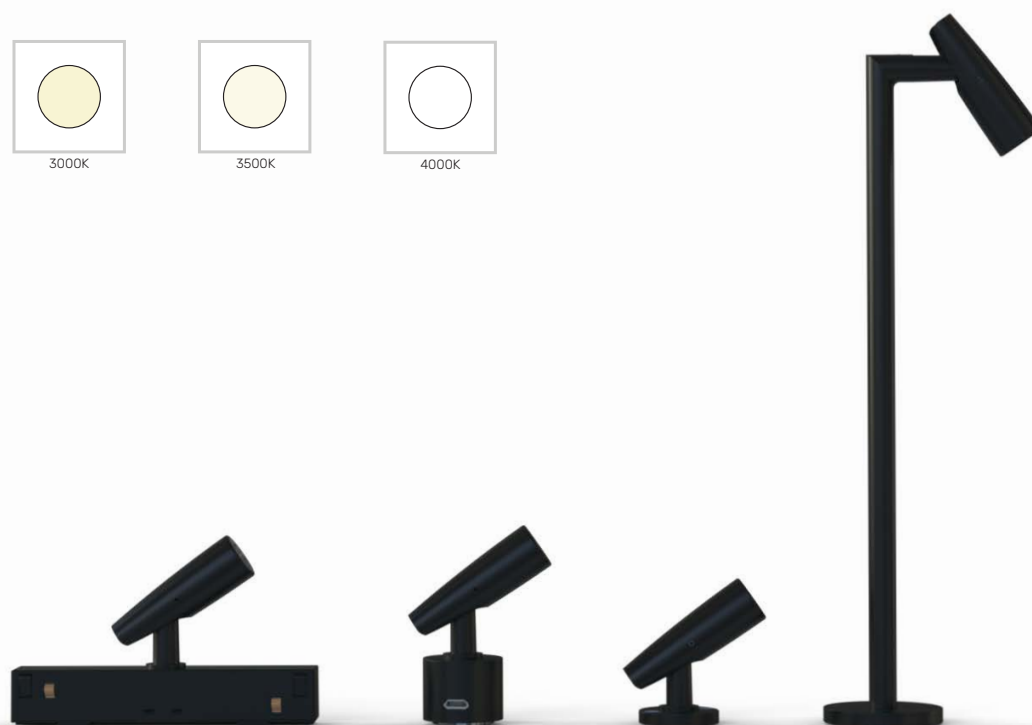
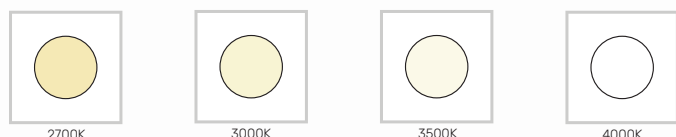
The backside of the Focus Micro has the shape of a slope, which slims it in an optical manner. This creates for a perfect balance between shape and functionality.



### Excellent colour rendition

Various types of LEDs are available. We offer you: extra warm white 2700K, warm white 3000K, white 3500K & neutral white 4000K, CRI value of >95.

Would you like a different colour of LED lighting? Simply let us know! A Minimum Order Quantity can be desired.



### Endless mounting & control possibilities

The Focus Micro sets the norm when it comes to possibilities and offers you many options that are unique to this type of products. We offer you the following options for mounting:

- > Track version with built-in 24VDC / DMX512 and Magno dim electronics.
- > Surface mounted magnet attachment, equipped with built-in 24VDC, DMX512 & Local dim (Magno dim) control option.
- > Surface mounted screw attachment, with external control options.
- > Surface mounted with variably adjustable height of the fixture, with extension rod choices between 0-30 cm, 0-60 cm & 0-90 cm.

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### High effective light output

With a power consumption of only 1 watt, the Focus Micro offers an high effective light output. This is the result of using the latest generation LEDs in combination with high-quality optics.

1  
WATT  
350mA

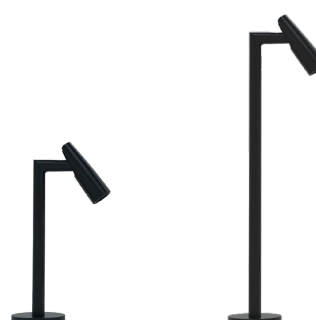
### Focus Micro extended with adjustable height

The extension version of the surface mounted Focus is completely variably adjustable in length (between 0-30 cm, 0-60 cm or between 0-90 cm).



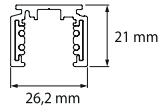
Adjusting is effective & easy at the same time. Switching open the cover ring at the base lamp, turning it to the desired height and closing the ring again.

Do make sure that the bottom of the showcase has enough room for the lower part of the pipe. Using a special adjustment screw, you can adjust the Micro's foldable arm. In this way, you can switch between downward and upward lighting.



## Focus Micro Track

The Focus Micro Track offers the same functionality as the Focus Micro surface mounted version with built-in electronics. This means you can control each fixture individually via DMX512 or program a fixed dim value through the CLS Magno system.



CLS chose to work with the Evolution system by high-end manufacturer Stucchi. This type of system is a perfect symbiosis of usability and attractiveness. The fixture clicks itself onto your railed system automatically and you do not have to secure it any further. The Stucchi rails are available as built-in and recessed versions.

## Lock system

The Focus Micro has a mechanical locking system to lock the chosen beam angle.



Photography Roelof Bos

## Focus Micro with built-in power & control electronics in the fixture base

This variant of the Focus Micro offers a great number of possibilities. Thanks to the magnet mounting, you can place the fixture at any desired location for an optimal illumination.

Through the subtle addition of Micro USB cables, you can link the fixtures through power as well as through the DMX512 signal.



You can program every fixture separately. If you do not wish to use the DMX512 protocol, you can also use a magnet (Magno Dim) to program a certain set dim value within the fixture. This only takes a few seconds. The Focus Micro is supplied with a processor with memory function.



Photography Roelof Bos



**SYNAGOGUE GRONINGEN**  
Verhalen over het jodendom en joodse Groningers

De Synagoge Groningen uit 1906 staat op de plek waar in 1756 de eerste synagoge van de Joodse Gemeente Groningen werd gebouwd. De synagoge is het sociale en religieuze middelpunt voor de joodse gemeenschap. Sinds 1981 bestaat het gebouw uit een gewijde en culturele ruimte, van elkaar gescheiden door een hekwerk. In het gewijde deel komt de Nederlands-Israëlitische Gemeente Groningen samen. Het culturele deel is ingericht voor ontmoeting, educatie en culturele activiteiten.

De Synagoge Groningen heeft een rijke geschiedenis. Het monumentale gebouw zit vol verhalen over het jodendom: van de gebruiken en de feestdagen tot de religieuze en praktische kant van het joods zijn. Bovendien zijn de joodse inwoners van de stad en de provincie Groningen nauw verbonden met deze synagoge. Eeuwenlang hebben in Groningen joden in gedeeld. Daarbij is de inktzwarte periode 1940-1945 van vervolging en moord altijd aanwezig.

De permanente tentoonstelling 'Verhalen over het jodendom en joodse Groningers' vertelt over deze rijke geschiedenis. Door middel van 'digital storytelling' komen vele persoonlijke verhalen tot leven. Dit uitgangspunt is ontwerp, objecten, fotobewerking, films, audiotour, educatie, docu-objecten, interactie en een kunstobject. Met respect voor de architectuur, aan het gebouw. De kleurenrijdom was leidend voor de museale inrichting.

De permanente tentoonstelling in de Synagoge Groningen is gerealiseerd door een team van creatieve professionals tussen 2019 en 2021.

- Wilby van der Schuit** - concept museale inrichting, samenstelling inhoud, beeld; en objectresearch, projectmanagement  
**Studio Eye Candy, Helga de Graaf** - grafisch, ruimtelijk en digitaal ontwerp, concept museale inrichting, fotobewerking, huisstijl  
**Studio 212 Fahrweil** - concept en ontwerp docu-objecten, Federatieobject 'Thuis'  
**Liefke Knol Film & Media** - filmproductie, oral history  
**Bart van Mierlo** - styling, audiotour en advies  
**Wout van Bekkum** - wetenschappelijke redactie  
**Marja Kiel** - research, tekst, redactie  
**Christina Tekstverzorging, Kordelia Nitsch, Els Struiking, Carol van Gestel** - vertaalkerk  
**Matthijs van der Veer, Ronald Praet, Geert Gritter, John Döpp** - realisatie films  
**Tapart, Zwart-AV** - programmering digital storytelling en technische realisatie  
**Lichtpunt Theatertechniek** - lichtontwerp  
**Kirsten Bos, Sander de Jong** - educatief programma  
**Studio Bruusk, Albert Secur, Filmcollectief Groningen, Soundbase, Wart Wamstaker** - audiofragmenten

Stichting Folkingestraat Synagoge bedankt de financiers die de realisatie van de museale inrichting van Synagoge Groningen mogelijk hebben gemaakt.



Elk logo staat voor de bijdrage in de realisatie van de inrichting. Aan deze fotobewerking kunnen geen rechten worden ontleend. Synagoge Groningen heeft alle rechten voorbehouden. Het fotobewerking is auteursrechtelijk beschermd. Als u de tekst of de afbeelding zonder voorafgaand toestemming in gebruik wilt nemen, wordt u verzocht de afbeelding te verwijderen.

Groningen, 2021

**SYNAGOGUE GRONINGEN**  
Stories about Judaism and the Jews from Groningen

The Synagogue Groningen was built in 1906 on the location where, in 1756, the Jewish Community Groningen built their first synagogue. The synagogue is the social and religious centre of the Jewish community. Since 1981 the building has a consecrated area and a cultural area, divided from each other by a fence. The Dutch Israelite Community Groningen holds its services in the consecrated area. The cultural area is designed for meetings, education and cultural activities.

The Synagogue Groningen has a rich history. The monumental building is full of stories about Judaism: practical impact of being Jewish. Furthermore, the Jews of the city and the province of Groningen are closely connected with this synagogue. For centuries Jews have lived and worked in Groningen and shared their lives in good times and in bad times. However, the dark period of persecution and murder between 1940 and 1945 is always present.

The permanent exhibition 'Stories about Judaism and the Jews from Groningen' and the Synagogue Groningen's interior have been created by a team of creative professionals between 2019 and 2021. Starting point is digital storytelling which has been worked out in research, the composition of texts and images, spatial and graphic design, objects, photo editing, film, audio tour, education, interactive objects, lighting plan and in the house style. New elements have been added to the space, respecting the architecture and function of the synagogue.

The Folkingestraat Synagoge Foundation expresses special thanks to all sponsors who have facilitated the construction of the museological interior of the Synagogue Groningen.



Photography Roelof Bos

Because lighting is an art

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## Flexible snoots

CLS highly values innovation and this can even be seen with our accessories. The snoots of the fixture can be customized by the light design professionals. Simply using scissors, they can cut the composite rubber snoot to any desired length.

2 snoots are delivered with your order free of charge. If in the future you need a different sized snoot, you can easily cut it to size.



## A sound investment

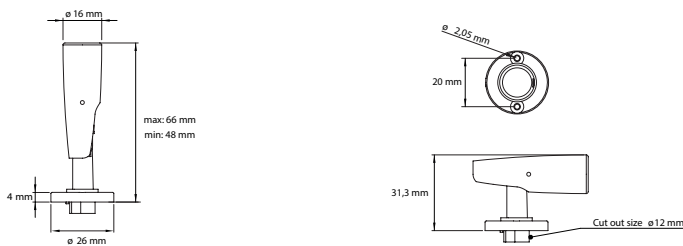
Components of the highest possible quality are used for the production of the Focus Micro, without any compromise. The patented heat sink ensures optimum cooling of the light source, so that the potential 50.000 hour life length can actually be achieved.

Unlike many other suppliers on the market who only claim to do so, **CLS actually produces its fixtures in The Netherlands.**

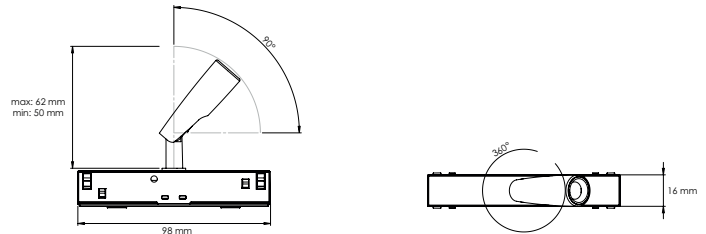
CLS belongs to a group of companies with more than 30 years of expertise in the professional lighting business. This provides additional reassurance for years to come.

## Measurements Focus Micro Series

### Focus Micro



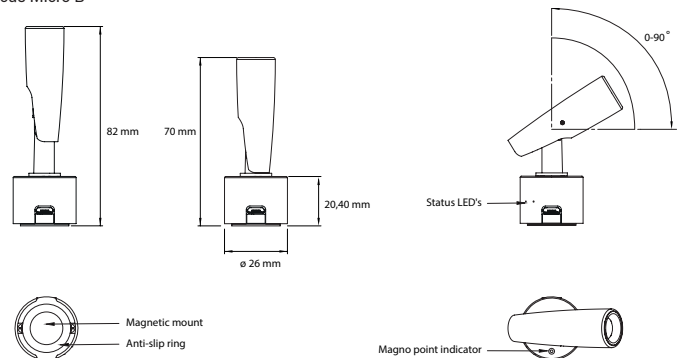
### Focus Micro Track



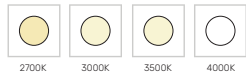
## Technical specifications

LED:	Luxeon
Available colours:	CRI>95: 2700K, 3000K 3500K or 4000K
Beam angle:	6° - 90°
Power supply:	Spot & B: 350mA / 24VDC Track: 24VDC
Power consumption:	Max. 1 Watt
Housing:	Anodised aluminium, black & white coated
Swivel:	360° horizontal, 90° vertical
IP value:	IP20
Ambient temperature:	-10 °C till 40 °C

### Focus Micro B



## Colour & colour temperatures



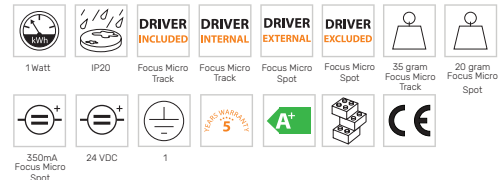
## Optics



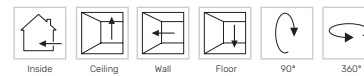
## Housing & finish



## General Specifications



## Mounting options



## Control options



\* Due to continuous improvements and innovations, specifications may change without notice. All specifications are indicative, for actual values download the photometrics on our website.