



LUXAM  
Lighting For Museums

# MUSEUM LIGHTING

Fiber Optic & LED solutions

UPDATED MARCH 2024

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## INTRODUCTION

For over 25 years, Luxam has specialised in museum display case lighting. Our fiber optic and LED solutions have lit tens of thousands of priceless artifacts within cases across the globe, collaborating with many of the world's most renowned museums.

From the National Air and Space Museum to the Grand Egyptian Museum, our lighting philosophy has stayed the same; case lighting is there to help each unique artifact tell its story, while preserving it for history, and enabling museums to maintain its light for decades to come. Luxam is now coming out of cases and into spaces, our product offering organically growing with the demand and needs of our clients and partners.

“Studies suggest that among museum staff, artifact preservation is the most important issue; while artifact appearance (especially clear form and accurate color) is the most important issue to visitors. Effective museum lighting can balance both concerns. [...] Successful museum lighting should be an integral part of both the architecture and the exhibit design.” RP-30 “Recommended Practice for Museum Lighting” ANSI/IES

Which is why Luxam works with museums, designers, and fabricators, from the earliest stages of design, in order to ensure the best results.

## FROM CASES TO SPACES

After over 20 years as museum display case lighting specialist, Luxam is coming out of cases and into spaces.

Once our MicroLED line launched, our clients using our spotlights for low ceiling applications, and exhibit/architectural lighting where a larger track and fixture could not necessarily be attached or was not needed. From new spaces to historical houses - the MicroLED line is the ideal solution for easy to use and quick to adjust high quality lighting.

We've therefore organically developed part of the MicroLED family with this evolution in mind, from recessed tracks, a larger 6W Spotlight, white and silver colors available, and now 6W Quadri Framing Shutter Spotlight.

We are always listening to our clients, designers and partners to create better tools and solutions.



PHOTO 4



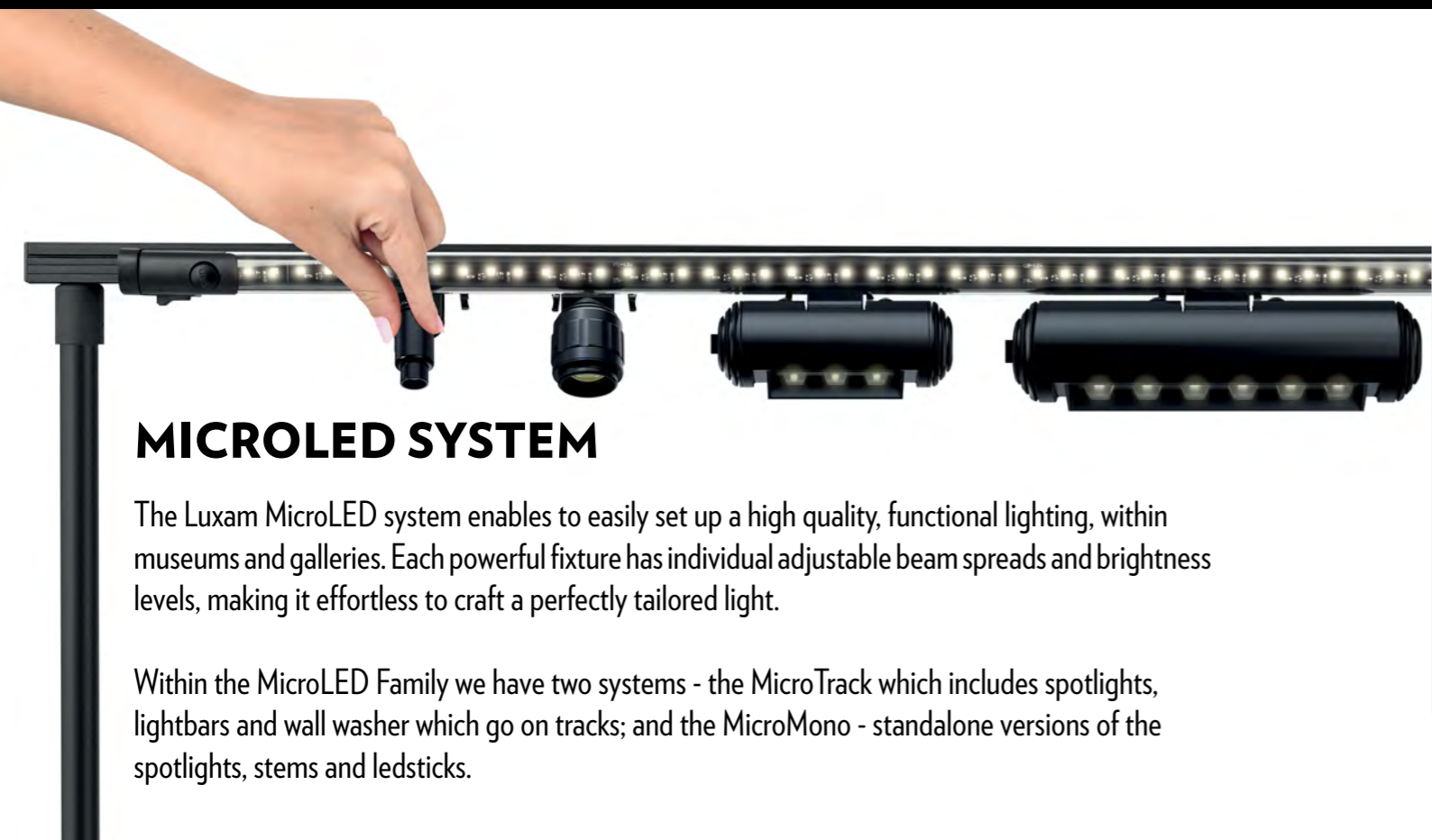
PHOTO 3



PHOTO 5



# MicroLED System



## MICROLED SYSTEM

The Luxam MicroLED system enables to easily set up a high quality, functional lighting, within museums and galleries. Each powerful fixture has individual adjustable beam spreads and brightness levels, making it effortless to craft a perfectly tailored light.

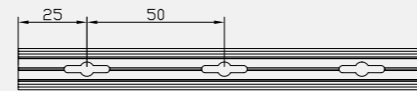
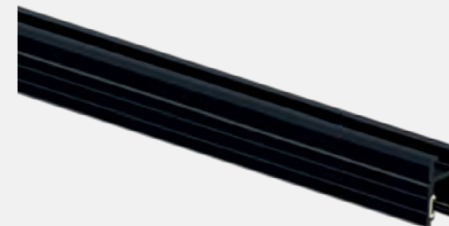
Within the MicroLED Family we have two systems - the MicroTrack which includes spotlights, lightbars and wall washer which go on tracks; and the MicroMono - standalone versions of the spotlights, stems and ledsticks.



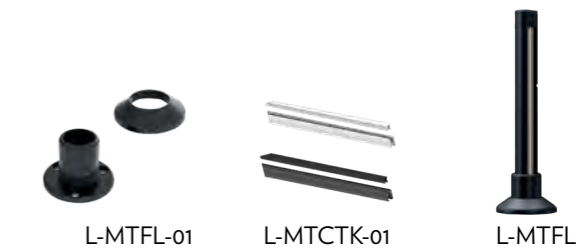
## MICROTRACK TRACKS

Tracks are available in 1M, 2M, and can be custom cut. Available colors are Black, White and Silver.

### STANDARD H TRACK L-MTHTK



### VERTICAL O TRACK L-MTOTK



### RECESSED TRACK L-MTRTK



## ALL MICROTRACK FIXTURES

All fixtures can mix and match on the same track.

### SPOTLIGHTS



**L-MTSP-12**

1W - Onboard dimmer

**L-MTSP-02**

3W - Onboard dimmer

**L-MTSP-22**

6W - Onboard dimmer

### QUADRI-FRAMING SHUTTER



**L-MTFS-22**

6W - Quadri Framing Shutter Spotlight

**L-MTZFS-22**

6W - Quadri Zoom Framing Shutter Spotlight

### WALL WASHERS



**L-MTWS-22**

Wall Washer 5W with Barndoor

**L-MTWS-32**

Wall Washer 10W with Barndoor

### LINEAR LIGHTBAR



**L-MTBA-01 : Light Bar**

L-MTBA-01-B

## MICROTRACK SPOTLIGHT VARIATIONS

### L-MTSP-12 1W



1W with onboard dimmer

#### FEATURES:

- Compatible with all MicroTrack systems
- Fully dimmable and focusable
- Compatible accessories : Barndoors, Angled Snoots, & Filter frames
- Two versions:
  - Available with Remote Dimming : L-MTSP-11

#### STANDALONE VERSIONS:

- with onboard dimmer (L-MTSA-12)
- without onboard dimmer (L-MSPS-10)
- L-UPL-10-1, L-UPL-10-2/3/4



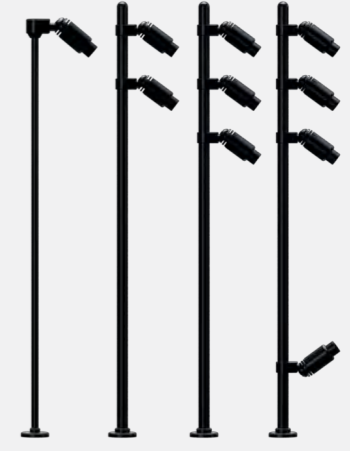
**L-MTSP-11**  
1W Remote Dimmer



**L-MTSA-12**  
1W Standalone Onboard Dimmer



**L-MSPS-10**  
1W Standalone Remote Dimmer



**L-UPL-10-1/2/3/4**  
Stem Lights

### L-MTSP-02 3W



3W with onboard dimmer

#### FEATURES:

- Compatible with all MicroTrack systems
- Fully dimmable and focusable
- Full range of accessories including Barndoors, Snoots, Filter Frames, etc.
- Two versions:
  - Available with Remote Dimming : L-MTSP-01

#### STANDALONE VERSIONS:

- with onboard dimmer (L-MTSA-02)
- without onboard dimmer (L-MSPS-00)



**L-MTSP-01**  
3W Remote Dimmer



**L-MTSA-02**  
3W Standalone Onboard Dimmer



**L-MSPS-00**  
3W Standalone Remote Dimmer

### L-MTSP-22 6W



6W with onboard dimmer

#### FEATURES:

- Compatible with all MicroTrack systems
- Fully dimmable and focusable
- Compatible accessories : Angled Snoots & Barndoor

Quadri Framing Shutter Head can be added to the body of the L-MTSP-22 and transform into L-MTFS-22

#### STANDALONE VERSIONS:

- with onboard dimmer (L-MTSA-22, L-MFSA-22, L-MZFSA-22)
- Without onboard dimmer (L-MSPS-20, L-MSFS-20, L-MSZFS-20)



**L-MTSA-22**  
6W Standalone Spotlight



**L-MSPS-20**  
6W Standalone Solid Surface



**L-MFSA-22**  
6W Quadri-Standalone



**L-MTFS-22**  
6W Quadri Framing Shutter



**L-MSFS-20**  
6W Quadri-Standalone Solid Surface



**L-MSZFS-20**  
6W Quadri-Zoom Standalone Solid Surface

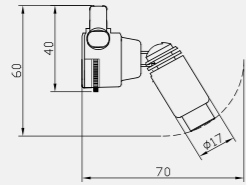


**L-MZFSA-22**  
6W Quadri-Zoom Standalone Dimmer



**L-MTZFS-22**  
6W Quadri-Zoom Framing Shutter

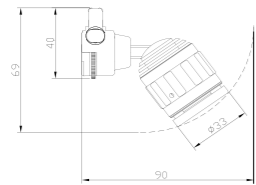
## MICROTRACK SPOTLIGHT FIXTURES



### L-MTSP-12 1W

Voltage/wattage	12 VDC / 1.2W
Input current	100mA
Beam angles	Zoomable 9° to 60°
Luminous flux	98 lm @RA97 / 56 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	On board Dimmer: PWM, range 0-100%
CRI	97 typ
Weight	39g
Main materials	Aluminum

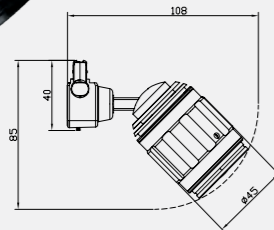
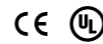
Color finished	Black, White and Silver
Working temperature	10°C to 25°C
Storage temperature	Recommended 22°C
Lifespan	50000 hours
Certificates	UL, CE
Warranty	5 years
Protection	IP30
Without Onboard dimmer:	L-MTSP-11



### L-MTSP-02 3W

Voltage/wattage	12 VDC / 3.8W
Input current	340mA
Beam angles	Zoomable 8° to 56°
Luminous flux	270 lm @RA97 / 130 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	Onboard Dimmer PWM 0-100%
CRI	97 typ
Weight	84g
Main materials	Aluminum

Color finished	Black, White and Silver
Working temperature	10°C to 25°C
Storage temperature	Recommended 22°C
Lifespan	50000 hours
Certificates	UL, CE
Warranty	5 years
Protection	IP30
Without Onboard dimmer:	L-MTSP-01



### L-MTSP-22 6W

Voltage/wattage	11V-24VDC / 7.8W
Input current	650mA - 330mA
Beam angles	Zoomable 8° to 55°
Luminous flux	813 lm @RA97 / 255 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	Onboard Dimmer PWM 0-100%
CRI	97 typ
Weight	158g
Main materials	Aluminum

Color finished	Black, White and Silver
Working temperature	10° to 25°C
Storage temperature	Recommended 22°C
Lifespan	50000 hours
Certificates	CE
Warranty	5 years
Protection	IP30



## SPOTLIGHT PHOTOMETRICS

### L-MTSP-12 1W



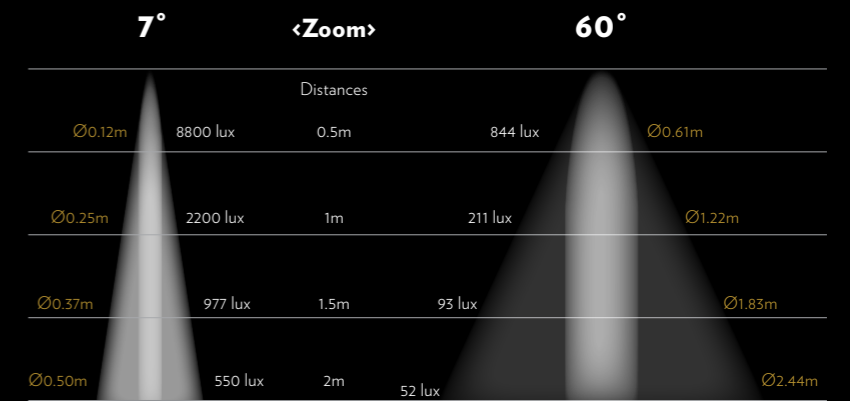
1W with Onboard Dimmer



### L-MTSP-02 3W



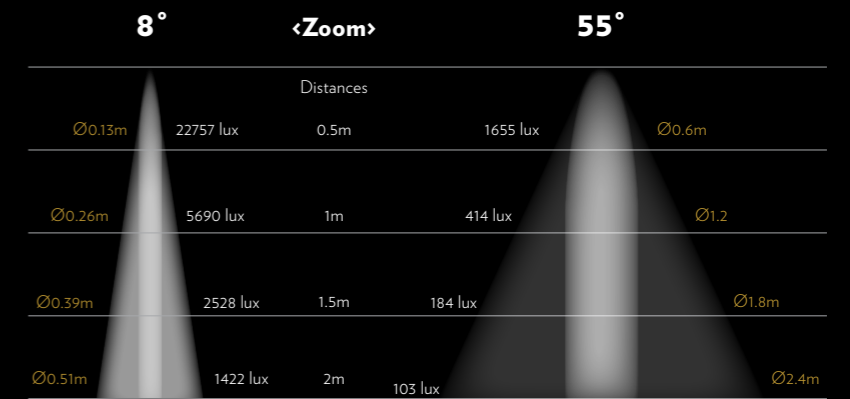
3W with Onboard Dimmer



### L-MTSP-22 6W



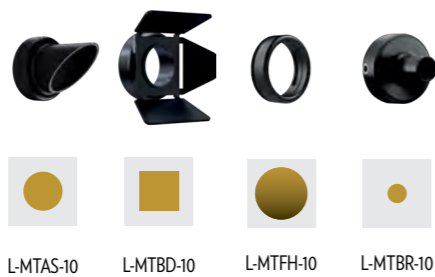
6W with Onboard Dimmer



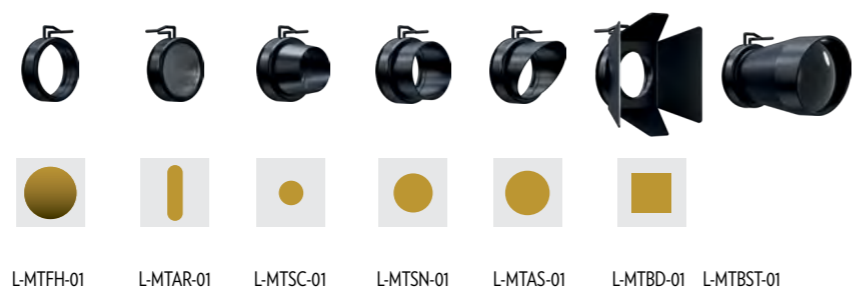
### MICROTRACK SPOTLIGHT ACCESSORIES



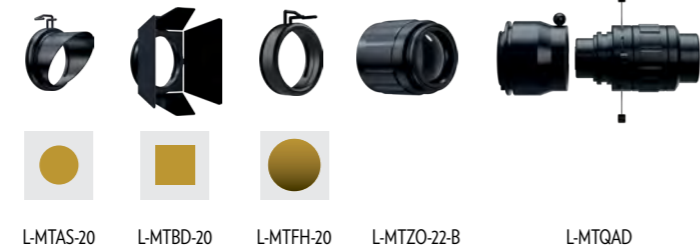
L-MTSP-12 1W



L-MTSP-02 3W



L-MTSP-22 6W

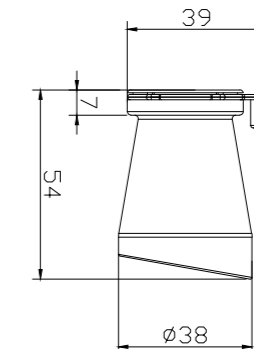
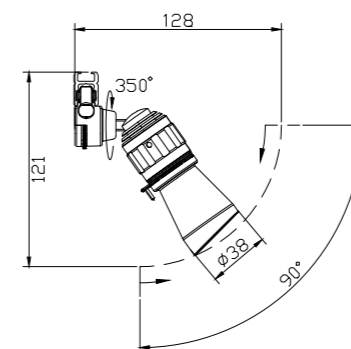


### MICROTRACK ACCESSORY BOOSTER

L-MTBST-01 FOR THE 3W SPOTLIGHT



L-MTSP-02 spotlights with L-MTBST-01 Booster accessory



L-MTSP-02

#### PHOTOMETRICS COMPARISON



L-MTSP-02 + L-MTBST-01

(lx)	L-MTSP-02		distance (m)	L-MTSP-02 + L-MTBST-01	
	7°	(diameter)		5°	(diameter)
8,800		Ø0.12m	0.5m	24,600	Ø0.07m
2,200		Ø0.25m	1m	6,150	Ø0.15m
997		Ø0.37m	1.5m	2,700	Ø0.22m
550		Ø0.50m	2m	1,500	Ø0.29m
352			2.5m	985	Ø0.37m
244			3m	680	Ø0.44m







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PHOTO 9



PHOTO 10



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## MICROTRACK LIGHTBAR FIXTURES



Dimmer Switch  
0-100%

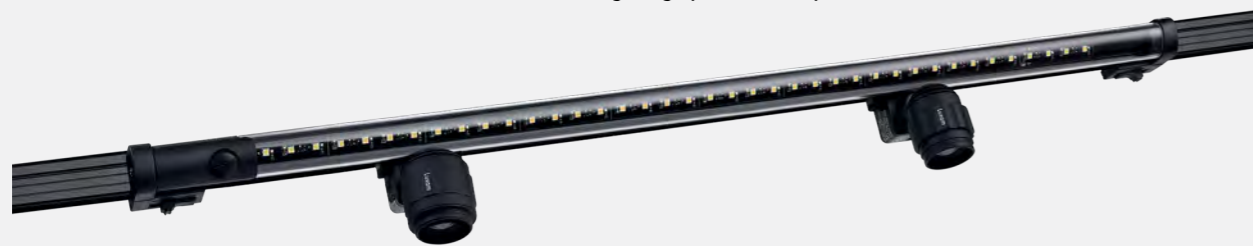
50%

Fully compatible with all MicroTrack systems  
Available with Clear or Frosted Filters  
Onboard Dimmer and Tilt function

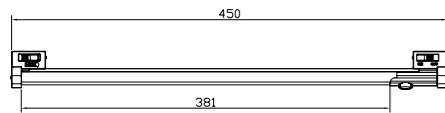


The LightBar can be used alone or with other MicroTrack fixtures to provide the desired effect - wash and spot.

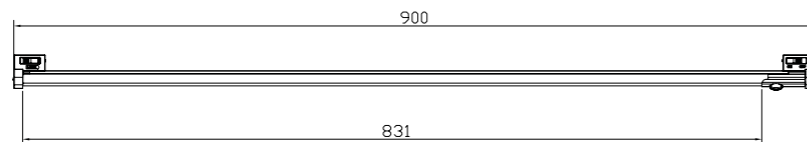
The 1W, 3W, and the 6W MicroTrack heads can be combined together with the Lightbar on the same track. All have the ability to be individually dimmed, creating a highly functional system.



L-MTBA-01-B/W-45



L-MTBA-01-B/W-90

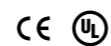


### TECHNICAL DATA: L-MTBA-01

Power Input	7W/450mm//15W/900mm-Voltage:12VDC
Control	On board Dimmer: PWM, range 0-100%
LED	Smart Eco
CRI	97+
CCT available	3000K, 4000K, 5000K

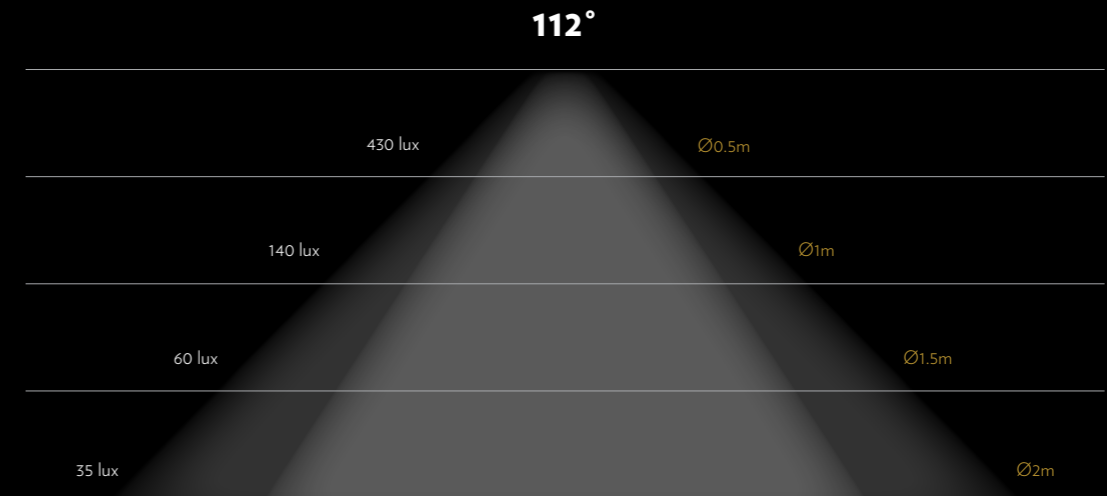
Filter	Clear or frosted
Rotation angle	0-50°
Body	Aluminum / PC
Rating	IP30
Dimensions	450-900*27*38 (mm)

Distance	1m, 2m
L-MTBA-01-B/W-45	80 lux, 20 lux
L-MTBA-01-B/W-90	140 lux, 35 lux

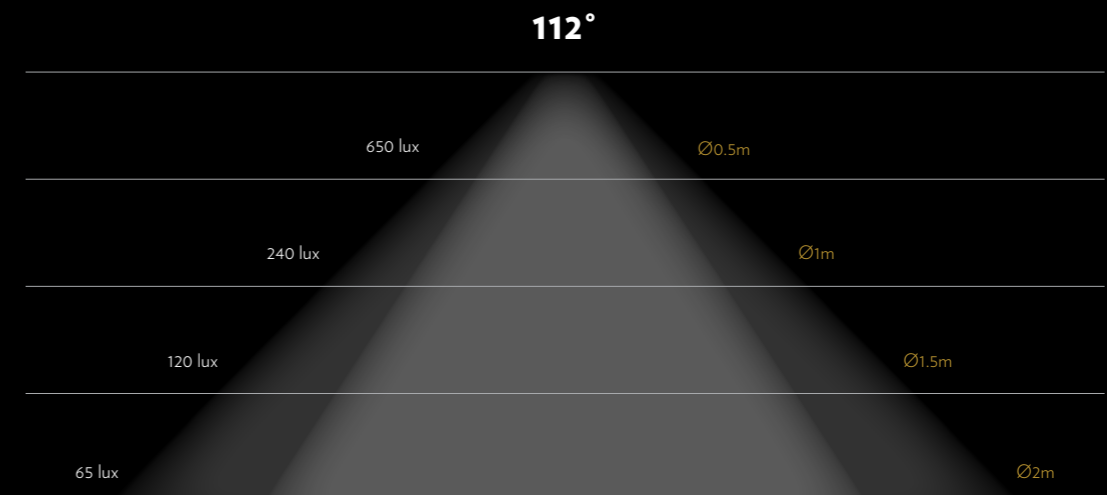


## LIGHTBAR PHOTOMETRICS

L-MTBA-450 Lightbar 7W (18")



L-MTBA-900 Lightbar 15W (36")



## QUADRI FRAMING SHUTTER SPOTLIGHT

### L-MTFS-22 6W



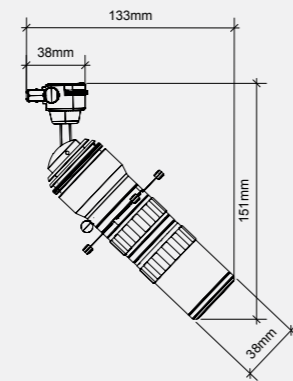
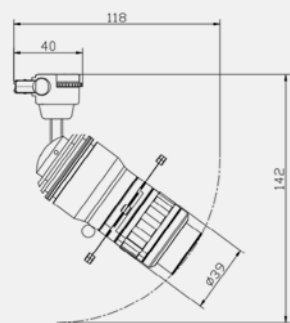
L-MTFS-22  
6W - Quadri Framing Shutter Spotlight



### L-MTZFS-22 6W



L-MTZFS-22  
6W - Quadri Zoom Framing Shutter Spotlight



#### TECHNICAL DATA: L-MTFS-22

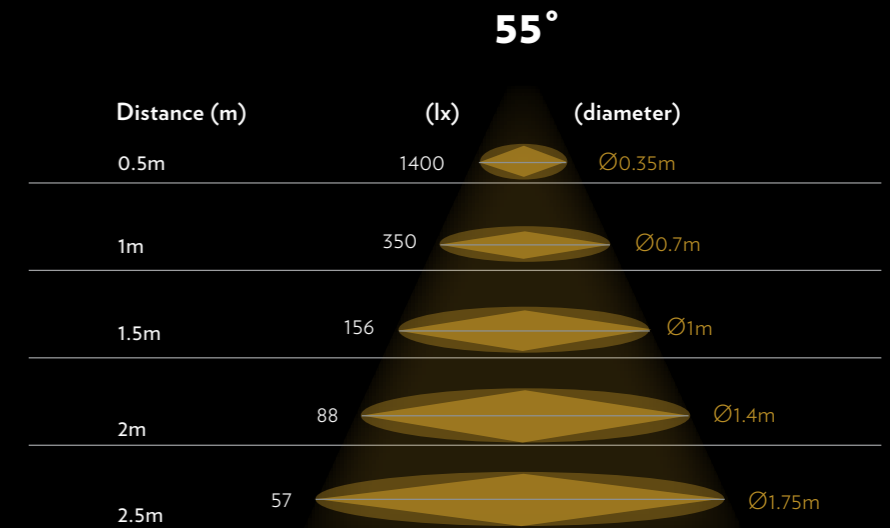
Voltage/wattage	11v -24VDC
Beam angle	55°
Input Current	650mA - 330mA
Polarity	No polarity required
Dimming	Onboard Dimmer PWM 0-100%
CRI	97 typ
CCT	3000K, 4000K, 5000K
Head Pan	355°/tilt 90°
Rating	IP30
Material	Aluminum

#### TECHNICAL DATA: L-MTZFS-22

Voltage/wattage	11v -24VDC / 6W
Beam angle	15°-36°
Input Current	650mA - 330mA
Polarity	No polarity required
Dimming	On board Dimmer: PWM, range 0-100%
CRI	97 typ
CCT	3000K, 4000K, 5000K
Head Pan	355°/tilt 90°
Rating	IP30
Material	Aluminum

## QUADRI FRAMING SHUTTER PHOTOMETRICS

### L-MTFS-22 6W

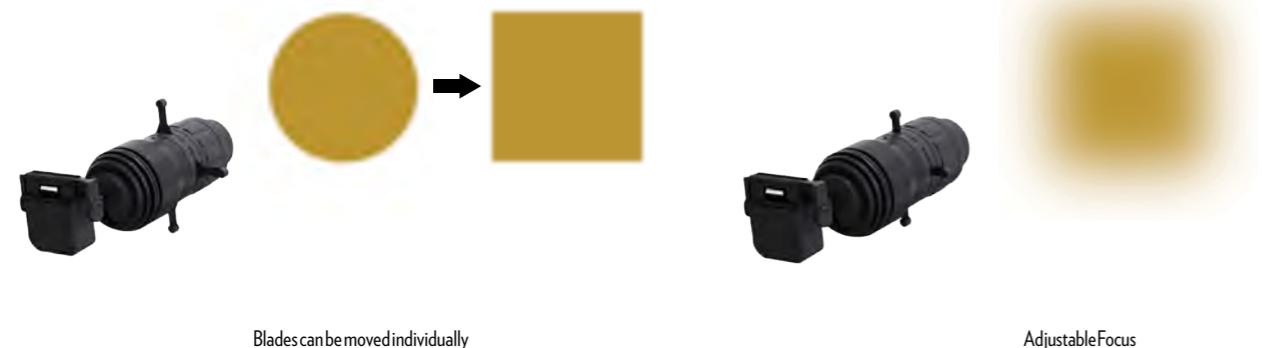
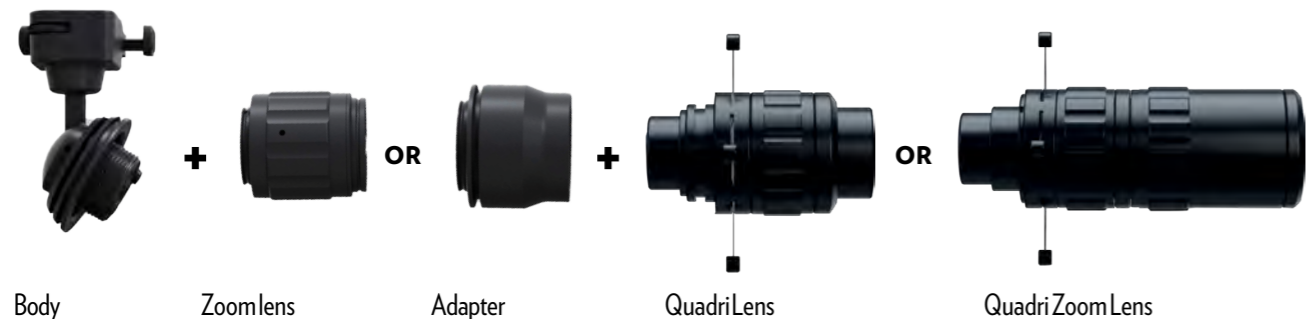


### L-MTZFS-22 6W

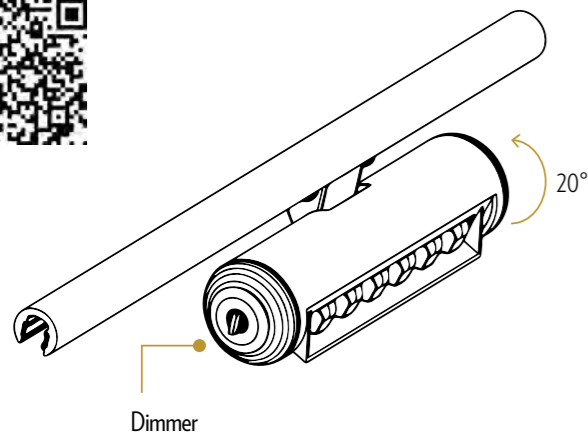


The Quadri L-MTFS-22 and L-MTZFS-22 are Framing Shutter spotlights and work with all our MicroLED tracks.

The L-MTSP-22 6W Spotlight can transform into the L-MTFS-22 Quadri spotlight - with one body you can have either a spotlight or a framing shutter spotlight.



# MICROTRACK WALL WASHERS



**FEATURES:**

These fixtures are designed to evenly highlight a wall from top to bottom, also used inside the showcases they light the back panels.

Fully compatible with all MicroTrack systems

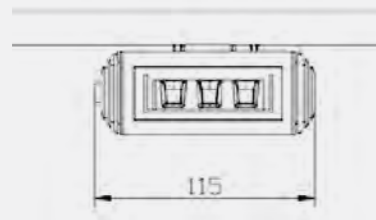
Available in Black or White

Onboard dimmer

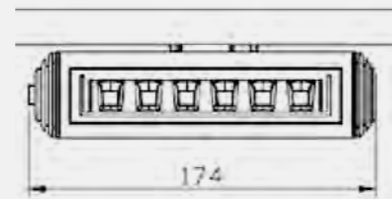
Barndoors available for both:



## L-MTWS-22 5W



## L-MTWS-32 10W

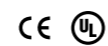


**TECHNICAL DATA: L-MTWS-22**

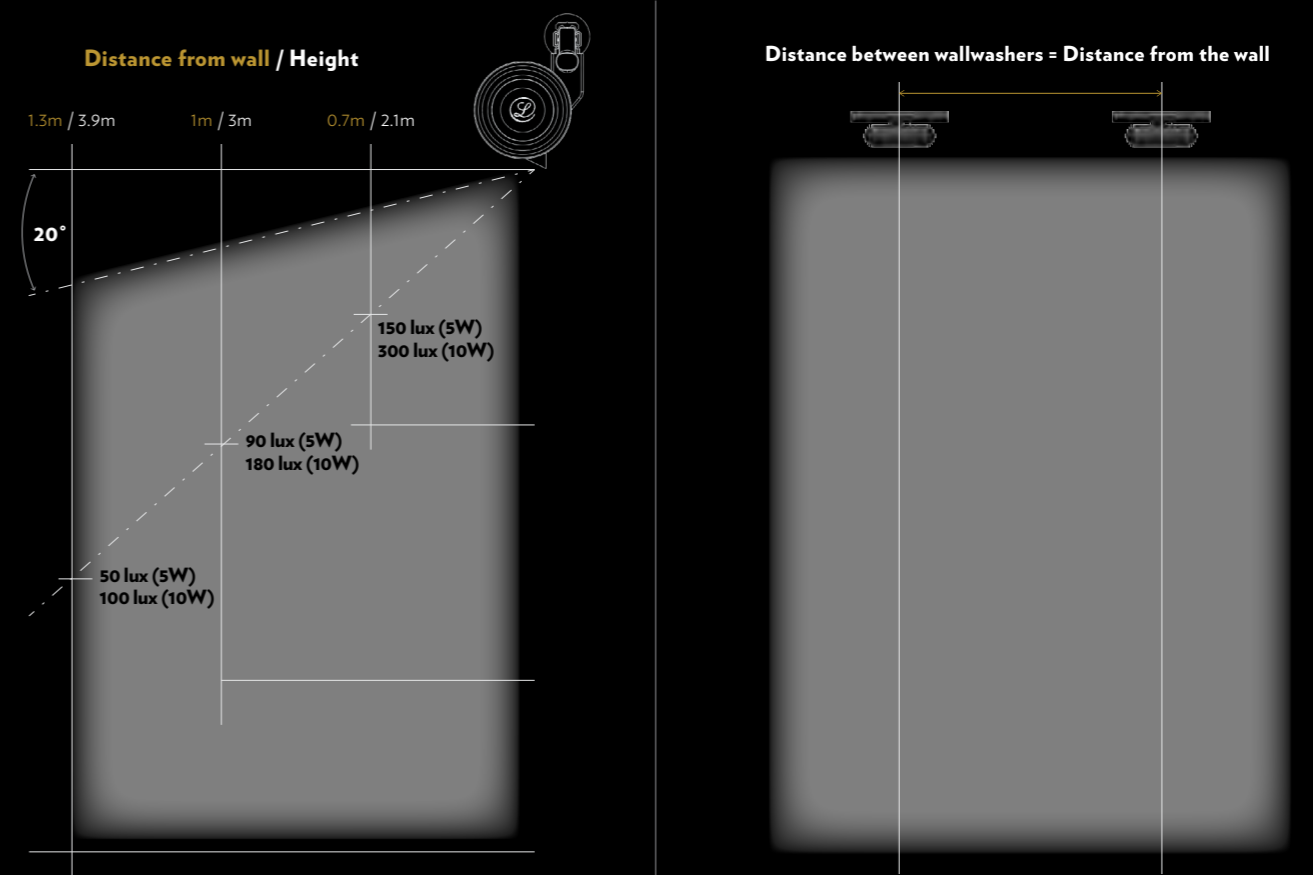
Power	5W
Beam angle	Washer effect
Voltage	12V DC
Input Current	410mA
Class	III
Dimmer	On board Dimmer: PWM, range 0-100%
CRI	97 typ
CCT available	3000K, 4000K, 5000K
Indoor use	IP30
Material	Alum. Alloy / PC

**TECHNICAL DATA: L-MTWS-32**

Power	10.5W
Beam angle	Washer effect
Voltage	12V DC
Input Current	860mA
Class	III
Dimmer	Onboard Dimmer PWM 0-100%
CRI	97 typ
CCT available	3000K, 4000K, 5000K
Indoor use	IP30
Material	Alum. Alloy / PC



# MICROTRACK WALL WASHER FIXTURE PHOTOMETRICS





# MICROMONO STANDALONE FIXTURES

The standalone heads are ideal when there is no possibility to use a track or when only individual lights are required.



# MICROMONO STANDALONE FIXTURES

## L-MSPS-10

<b>Voltage</b>	For Constant Current Driver 2.75 VDC	<b>CRI</b>	97	<b>Lens</b>	Glass BK7
<b>Power</b>	1W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	9° to 70°
<b>Input Current</b>	300-350mA Constant Current (connect in series)	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	PWM0-100% with remote dimmer	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White or Silver



## L-MSPS-00

<b>Voltage</b>	For Constant Current Driver 2.8V DC output voltage minimum	<b>CRI</b>	97 typ	<b>Lens</b>	Glass BK7
<b>Power</b>	3W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	8° to 56°
<b>Input Current</b>	700-1000mA Constant Current (connect in series)	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	PWM 0-100% with remote dimmer	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White or Silver



## L-MSPS-20

<b>Voltage</b>	For Constant Current Driver 36.2V DC output voltage minimum	<b>CRI</b>	97 typ	<b>Lens</b>	Glass
<b>Power</b>	6W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	8° to 55°
<b>Input Current</b>	165mA	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	Dimmable with PMW driver	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White or Silver



## L-MSFS-22

<b>Voltage</b>	For Constant Current Driver	<b>CRI</b>	97 typ	<b>Lens</b>	Glass BK7
<b>Power</b>	6W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	55°
<b>Input Current</b>	170mA Constant Current (connect in series)	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	Dimmable with PMW driver	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White and Silver



## L-MSZFS-20

<b>Voltage</b>	For Constant Current Driver 36V DC output voltage minimum	<b>CRI</b>	97 typ	<b>Lens</b>	CV
<b>Power</b>	6W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	15°-36°
<b>Input Current</b>	170mA Constant Current (connect in series)	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	Dimmable with PMW driver	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White or Silver



## L-MTSA-12

<b>Voltage</b>	12 VDC	<b>CRI</b>	97 typ	<b>Lens</b>	Glass BK7
<b>Power</b>	1.2W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	9° to 70°
<b>Input Current</b>	100mA	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	On board Dimmer: PWM, range 0-100%	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White or Silver



## L-MTSA-02

<b>Voltage</b>	12 VDC	<b>CRI</b>	97 typ	<b>Lens</b>	Glass BK7
<b>Power</b>	3.8W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	8° to 56°
<b>Input Current</b>	340mA	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	On board Dimmer: PWM, range 0-100%	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White or Silver



## L-MTSA-22

<b>Voltage</b>	11V - 24VDC	<b>CRI</b>	97 typ	<b>Lens</b>	Glass BK7
<b>Power</b>	7.2W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	8° to 55°
<b>Input Current</b>	650mA - 330mA	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	On board Dimmer: PWM, range 0-100%	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White and Silver



## L-MFSA-22

<b>Voltage</b>	11V - 24VDC	<b>CRI</b>	97 typ	<b>Lens</b>	Glass BK7
<b>Power</b>	6W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	55°
<b>Input Current</b>	650mA - 330mA	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	On board Dimmer: PWM, range 0-100%	<b>Pan angle</b>	355°/90°	<b>Fixture Color</b>	Black, White and Silver



## L-MZFSA-22

<b>Voltage</b>	11v-24VDC	<b>CRI</b>	97 typ	<b>Lens</b>	CV
<b>Power</b>	6W	<b>Standard</b>	UL - CE	<b>Beam angles</b>	15°-36°
<b>Input Current</b>	650mA - 330mA	<b>Tilt angle</b>	90°	<b>Light Color</b>	3000K, 4000K, 5000K
<b>Dimmer</b>	On board Dimmer: PWM, range 0-100%	<b>Pan angle</b>	355°	<b>Fixture Color</b>	Black, White and Silver





PHOTO 14



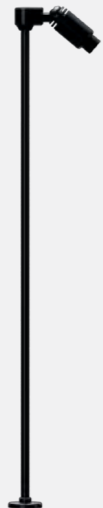
PHOTO 15



PHOTO 16

# MICROMONO STANDALONE STEM FIXTURES

## L-UPL-10-1 STEM1



Stem 1 comes with a 6mm rod with adjustable heights

**FEATURES:**

- STEM 1 has a single stationary 1W spot light
- Full range of accessories – Barndoors, Snoots, Filter frame, etc.
- Stem 1 comes with a 6mm rod with adjustable heights
- Focusable from 10° to 60°
- Standard height: 30cm



**TECHNICAL DATA : L-UPL-10-1**

Voltage/Wattage	For Constant Current Driver 2.8 VDC output voltage minimum
Input Current	300-350mA Constant Current (connect in series)
Beam angles	9° to 70°
Dimmable options	Dimmable with PMW driver
CRI	97 typ
CCT	3000K, 4000K, 5000K
Main materials	Aluminum Alloy / PC
Color Definition	Black, White and Silver
Certificates	UL - CE
Warranty	5 years
Protection	IP30

## L-UPL-10-2/3/4



Stem 2/3/4 heads comes with a 10mm rod with adjustable height.

**FEATURES:**

- Choose between 2, 3, or 4 1W heads - standard or custom heights available
- Full range of accessories – Barndoors, Snoots, Filter frame, etc.
- Fixed on a 10mm bar
- Focusable from 9° to 60°
- Standard height: 40cm - Long option: up to 90cm stem



**TECHNICAL DATA : L-UPL-10-2/3/4**

Voltage/Wattage	For Constant Current Driver 5.6/8.4/11.2 VDC output voltage minimum
Input Current	600-700mA/900-1050mA/1200-1400mA Constant Current
Beam angles	9° to 70°
Dimmable options	Dimmable with PMW driver
CRI	97 typ
CCT	3000K, 4000K, 5000K
Main materials	Aluminum Alloy / PC
Color Definition	Black, White, Silver, Gold
Certificates	UL - CE
Warranty	5 years
Protection	IP30

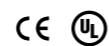


PHOTO 17

# TALEA LEDSTICK

## L-MBA-01: TALEA LEDSTICK with ADJUSTABLE BARN DOOR



Unique adjustable barndoor feature. Barndoor can be removed and can be adjusted in order to control the beam spread 30-120° degrees.

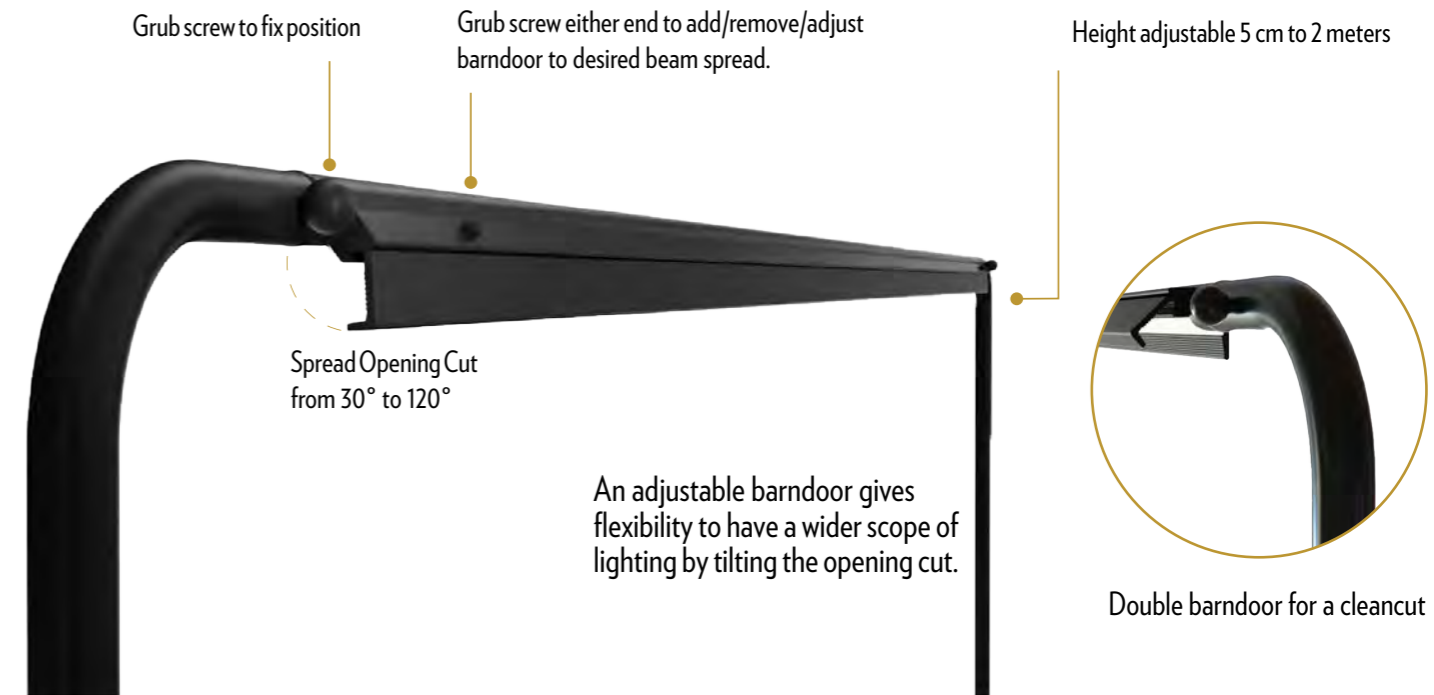
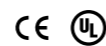
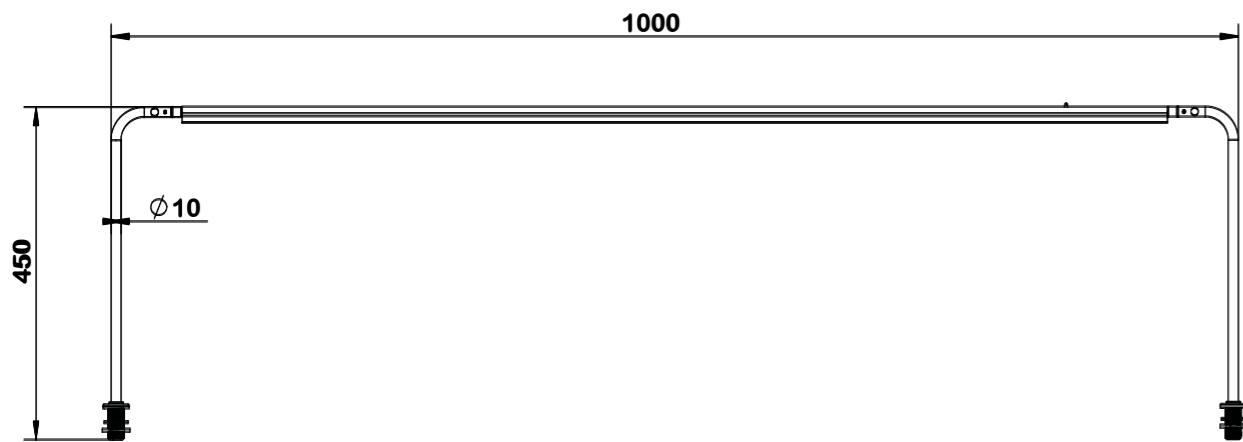
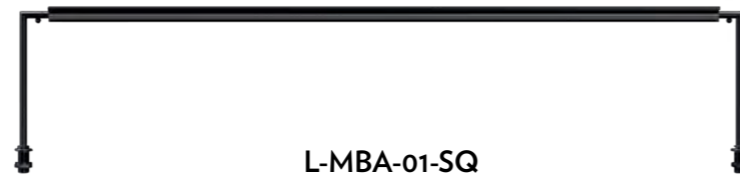
### FEATURES:

- Available in 1M, 1.5M and 2M in length
- 12V input with 15, 23 and 30W output
- CCT available in 3000K, 4000K, or 5000K
- Standard color is Black Anodized
- Adjustable 30-120° degree clean cut Beamspread
- Adjustable height 5cm - 2m
- Clean cut Beamspread
- Adjustable height 5cm - 2m

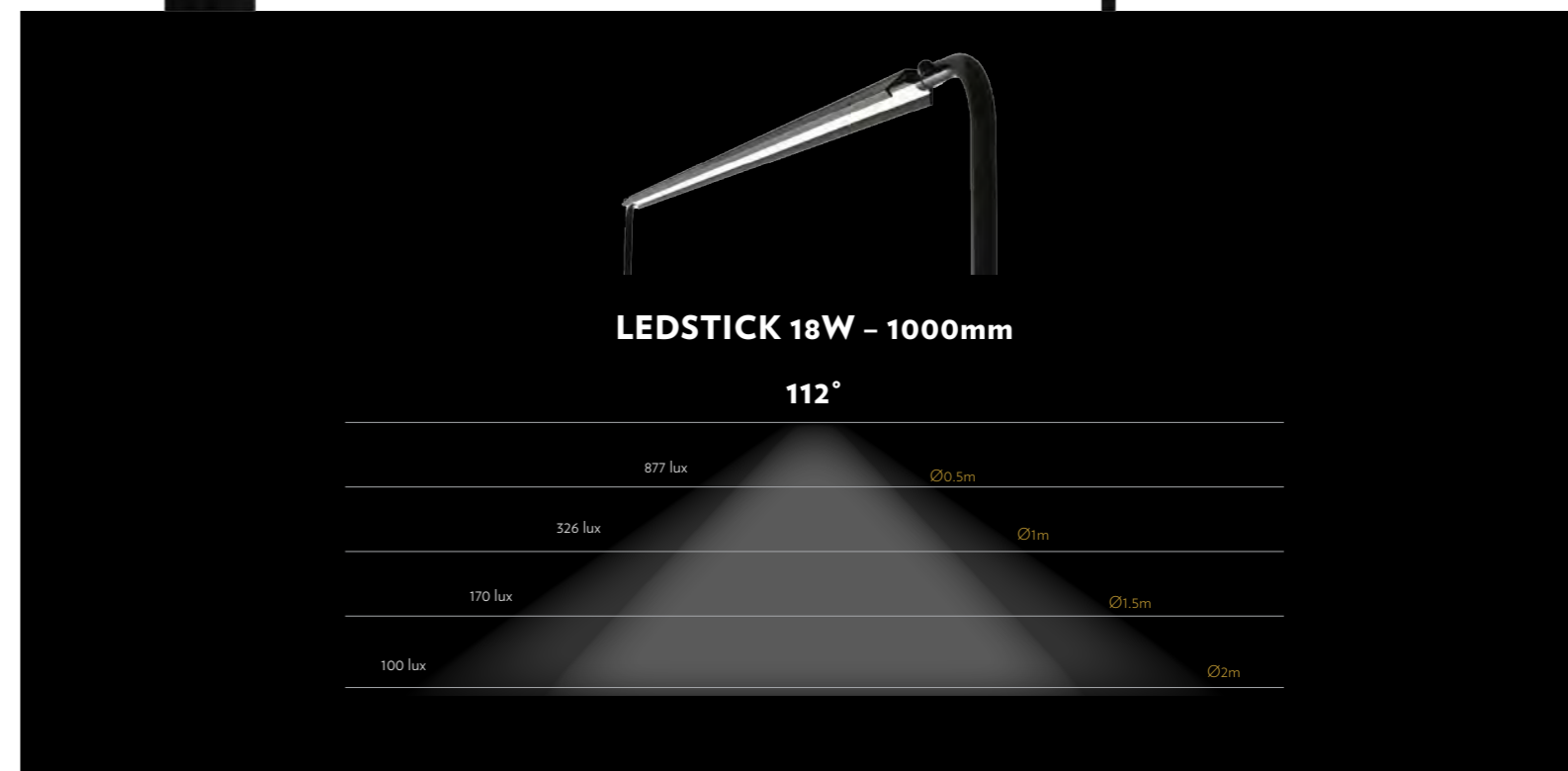
### TECHNICAL DATA : L-MBA-01

Voltage/Wattage	12 VDC
Input Current	1000mA/meter
Beam Angles	90°
Pan	355°
Dimmable Options	Dimmable with PMW driver
CRI	97+
CCT	3000K, 4000K, 5000K
Main Materials	Aluminum
Color Definition	Black, White, Silver, Gold
Certificates	UL - CE
Warranty	5 years
Protection	IP30

Two options: Round or Square corners



An adjustable barndoor gives flexibility to have a wider scope of lighting by tilting the opening cut.





BROWN AND GOLD FURNITURE

FAMILY COMMUNITY

**Inside the home**  
 Like all homes, traditional Chinese homes were designed to be functional and beautiful. The layout of the home was based on the principles of Feng Shui, a traditional Chinese belief in the flow of energy. The home was designed to be a place of harmony and balance, reflecting the values of the Chinese people.

**Family and community**  
 The home was a place of family and community. It was a place where people gathered to share meals, celebrate festivals, and pass on traditions. The home was a place of love and care, reflecting the values of the Chinese people.

PHOTO 18



PHOTO 19



PHOTO 20

# MICROLED SYSTEM

## ORDER CODES



### MICROSPOT 1W

#### MICROSPOT 1W



REFERENCE	DESCRIPTION
L-MTSP-12-B-3K	Micro Spot 1.2W/12VDC, dimmer, 3000K, Black
L-MTSP-12-B-4K	Micro Spot 1.2W/12VDC, dimmer, 4000K, Black
L-MTSP-12-B-5K	Micro Spot 1.2W/12VDC, dimmer, 5000K, Black
L-MTSP-12-W-3K	Micro Spot 1.2W/12VDC, dimmer, 3000K, White
L-MTSP-12-W-4K	Micro Spot 1.2W/12VDC, dimmer, 4000K, White
L-MTSP-12-W-5K	Micro Spot 1.2W/12VDC, dimmer, 5000K, White
L-MTSP-12-S-3K	Micro Spot 1.2W/12VDC, dimmer, 3000K, Silver
L-MTSP-12-S-4K	Micro Spot 1.2W/12VDC, dimmer, 4000K, Silver
L-MTSP-12-S-5K	Micro Spot 1.2W/12VDC, dimmer, 5000K, Silver

#### MICROSPOT 1W NO DIMMER



REFERENCE	DESCRIPTION
L-MTSP-11-B-3K	Micro Spot 1.2W/12VDC, no dimmer 3000K, Black
L-MTSP-11-B-4K	Micro Spot 1.2W/12VDC, no dimmer 4000K, Black

#### MICROSPOT STANDALONE 1W



REFERENCE	DESCRIPTION
L-MSPS-10-B-3K	Micro Spot Standalone 1.2W/12VDC, 3000K, Black
L-MSPS-10-B-4K	Micro Spot Standalone 1.2W/12VDC, 4000K, Black
L-MSPS-10-B-5K	Micro Spot Standalone 1.2W/12VDC, 5000K, Black
L-MSPS-10-W-3K	Micro Spot Standalone 1.2W/12VDC, 3000K, White
L-MSPS-10-W-4K	Micro Spot Standalone 1.2W/12VDC, 4000K, White
L-MSPS-10-W-5K	Micro Spot Standalone 1.2W/12VDC, 5000K, White
L-MSPS-10-S-3K	Micro Spot Standalone 1.2W/12VDC, 3000K, Silver
L-MSPS-10-S-4K	Micro Spot Standalone 1.2W/12VDC, 4000K, Silver
L-MSPS-10-S-5K	Micro Spot Standalone 1.2W/12VDC, 5000K, Silver

#### MICROSPOT STANDALONE 1W DIMMER



REFERENCE	DESCRIPTION
L-MTSA-12-B-3K	Micro Spot Standalone 1.2W/12VDC, dimmer, 3000K, Black
L-MTSA-12-B-4K	Micro Spot Standalone 1.2W/12VDC, dimmer, 4000K, Black
L-MTSA-12-B-5K	Micro Spot Standalone 1.2W/12VDC, dimmer, 5000K, Black
L-MTSA-12-W-3K	Micro Spot Standalone 1.2W/12VDC, dimmer, 3000K, White
L-MTSA-12-W-4K	Micro Spot Standalone 1.2W/12VDC, dimmer, 4000K, White
L-MTSA-12-W-5K	Micro Spot Standalone 1.2W/12VDC, dimmer, 5000K, White
L-MTSA-12-S-3K	Micro Spot Standalone 1.2W/12VDC, dimmer, 3000K, Silver
L-MTSA-12-S-4K	Micro Spot Standalone 1.2W/12VDC, dimmer, 4000K, Silver
L-MTSA-12-S-5K	Micro Spot Standalone 1.2W/12VDC, dimmer, 5000K, Silver

## MICROSPOT 1W ACCESSORIES

### BARNDOOR



REFERENCE	DESCRIPTION
L-MTBD-10-B	Barndoor for 1.2W Micro Spot, Black
L-MTBD-10-W	Barndoor for 1.2W Micro Spot, White
L-MTBD-10-S	Barndoor for 1.2W Micro Spot, Silver

### ANGLED SNOOT



REFERENCE	DESCRIPTION
L-MTAS-10-B	Angled snoot for 1.2W Micro Spot, Black
L-MTAS-10-W	Angled snoot for 1.2W Micro Spot, White
L-MTAS-10-S	Angled snoot for 1.2W Micro Spot, Silver

### FILTER HOLDER



REFERENCE	DESCRIPTION
L-MTFH-10-B	Filter holder for 1.2W Micro Spot, Black
L-MTFH-10-W	Filter holder for 1.2W Micro Spot, White
L-MTFH-10-S	Filter holder for 1.2W Micro Spot, Silver

### BEAM REDUCER



REFERENCE	DESCRIPTION
L-MTBR-10-B	Beam Reducer for 1.2W, Black
L-MTBR-10-W	Beam Reducer for 1.2W, White
L-MTBR-10-S	Beam Reducer for 1.2W, Silver

## MICROSPOT 3W

### MICROSPOT 3W



REFERENCE	DESCRIPTION
L-MTSP-02-B-3K	Micro Spot 3.8W/12VDC, dimmer, 3000K, Black
L-MTSP-02-B-4K	Micro Spot 3.8W/12VDC, dimmer, 4000K, Black
L-MTSP-02-B-5K	Micro Spot 3.8W/12VDC, dimmer, 5000K, Black
L-MTSP-02-W-3K	Micro Spot 3.8W/12VDC, dimmer, 3000K, White
L-MTSP-02-W-4K	Micro Spot 3.8W/12VDC, dimmer, 4000K, White
L-MTSP-02-W-5K	Micro Spot 3.8W/12VDC, dimmer, 5000K, White
L-MTSP-02-S-3K	Micro Spot 3.8W/12VDC, dimmer, 3000K, Silver
L-MTSP-02-S-4K	Micro Spot 3.8W/12VDC, dimmer, 4000K, Silver
L-MTSP-02-S-5K	Micro Spot 3.8W/12VDC, dimmer, 5000K, Silver

### MICROSPOT 3W NO DIMMER



REFERENCE	DESCRIPTION
L-MTSP-01-B-ND-3K	Micro Spot 3.8W/12VDC no dimmer 3000K, Black

### MICROSPOT STANDALONE 3W



REFERENCE	DESCRIPTION
L-MSPS-00-B-3K	Micro Spot Standalone 3.8W/12VDC, 3000K, Black
L-MSPS-00-B-4K	Micro Spot Standalone 3.8W/12VDC, 4000K, Black
L-MSPS-00-B-5K	Micro Spot Standalone 3.8W/12VDC, 5000K, Black
L-MSPS-00-W-3K	Micro Spot Standalone 3.8W/12VDC, 3000K, White
L-MSPS-00-W-4K	Micro Spot Standalone 3.8W/12VDC, 4000K, White
L-MSPS-00-W-5K	Micro Spot Standalone 3.8W/12VDC, 5000K, White
L-MSPS-00-S-3K	Micro Spot Standalone 3.8W/12VDC, 3000K, Silver
L-MSPS-00-S-4K	Micro Spot Standalone 3.8W/12VDC, 4000K, Silver
L-MSPS-00-S-5K	Micro Spot Standalone 3.8W/12VDC, 5000K, Silver

### MICROSPOT STANDALONE 3W DIMMER



REFERENCE	DESCRIPTION
L-MTSA-02-B-3K	Micro Spot Standalone 3.8W/12VDC, dimmer, 3000K, Black
L-MTSA-02-B-4K	Micro Spot Standalone 3.8W/12VDC, dimmer, 4000K, Black
L-MTSA-02-B-5K	Micro Spot Standalone 3.8W/12VDC, dimmer, 5000K, Black
L-MTSA-02-W-3K	Micro Spot Standalone 3.8W/12VDC, dimmer, 3000K, White
L-MTSA-02-W-4K	Micro Spot Standalone 3.8W/12VDC, dimmer, 4000K, White
L-MTSA-02-W-5K	Micro Spot Standalone 3.8W/12VDC, dimmer, 5000K, White
L-MTSA-02-S-3K	Micro Spot Standalone 3.8W/12VDC, dimmer, 3000K, Silver
L-MTSA-02-S-4K	Micro Spot Standalone 3.8W/12VDC, dimmer, 4000K, Silver
L-MTSA-02-S-5K	Micro Spot Standalone 3.8W/12VDC, dimmer, 5000K, Silver

## MICROSPOT 3W ACCESSORIES

### BARNDOOR



REFERENCE	DESCRIPTION
L-MTBD-01-B	Barndoor for 3.8W Micro Spot, Black
L-MTBD-01-W	Barndoor for 3.8W Micro Spot, White
L-MTBD-01-S	Barndoor for 3.8W Micro Spot, Silver

### SNOOT



REFERENCE	DESCRIPTION
L-MTSN-01-B	Snoot for 3.8W Micro Spot, Black
L-MTSN-01-W	Snoot for 3.8W Micro Spot, White
L-MTSN-01-S	Snoot for 3.8W Micro Spot, Silver

### ANGLED SNOOT



REFERENCE	DESCRIPTION
L-MTAS-01-B	Angled Snoot for 3.8W Micro Spot, Black
L-MTAS-01-W	Angled Snoot for 3.8W Micro Spot, White
L-MTAS-01-S	Angled Snoot for 3.8W Micro Spot, Silver

### CONE SNOOT



REFERENCE	DESCRIPTION
L-MTSC-01-B	Cone Snoot for 3.8W Micro Spot, Black
L-MTSC-01-W	Cone Snoot for 3.8W Micro Spot, White
L-MTSC-01-S	Cone Snoot for 3.8W Micro Spot, Silver

### FILTER HOLDER



REFERENCE	DESCRIPTION
L-MTFH-01-B	Filter Holder for 3.8W Micro Spot, Black
L-MTFH-01-W	Filter Holder for 3.8W Micro Spot, White
L-MTFH-01-S	Filter Holder for 3.8W Micro Spot, Silver

### ARCHITECTURE LENS



REFERENCE	DESCRIPTION
L-MTAR-01-B	Architecture Lens for 3.8W Micro Spot, Black
L-MTAR-01-W	Architecture Lens for 3.8W Micro Spot, White
L-MTAR-01-S	Architecture Lens for 3.8W Micro Spot, Silver

### BOOSTER



REFERENCE	DESCRIPTION
L-MTBST-01-B	Booster for 3.8W Micro Spot, Black
L-MTBST-01-W	Booster for 3.8W Micro Spot, White
L-MTBST-01-S	Booster for 3.8W Micro Spot, Silver

## MICROSPOT 6W

### MICROSPOT 6W



REFERENCE	DESCRIPTION
L-MTSP-22-B-3K	Micro Spot 6W/12VDC, dimmer, 3000K, Black
L-MTSP-22-B-4K	Micro Spot 6W/12VDC, dimmer, 4000K, Black
L-MTSP-22-B-5K	Micro Spot 6W/12VDC, dimmer, 5000K, Black
L-MTSP-22-W-3K	Micro Spot 6W/12VDC, dimmer, 3000K, White
L-MTSP-22-W-4K	Micro Spot 6W/12VDC, dimmer, 4000K, White
L-MTSP-22-W-5K	Micro Spot 6W/12VDC, dimmer, 5000K, White
L-MTSP-22-S-3K	Micro Spot 6W/12VDC, dimmer, 3000K, Silver
L-MTSP-22-S-4K	Micro Spot 6W/12VDC, dimmer, 4000K, Silver
L-MTSP-22-S-5K	Micro Spot 6W/12VDC, dimmer, 5000K, Silver

### MICROSPOT STANDALONE 6W DIMMER



REFERENCE	DESCRIPTION
L-MTSA-22-B-3K	Micro Spot Standalone 6W/12VDC, dimmer, 3000K, Black
L-MTSA-22-B-4K	Micro Spot Standalone 6W/12VDC, dimmer, 4000K, Black
L-MTSA-22-B-5K	Micro Spot Standalone 6W/12VDC, dimmer, 5000K, Black
L-MTSA-22-W-3K	Micro Spot Standalone 6W/12VDC, dimmer, 3000K, White
L-MTSA-22-W-4K	Micro Spot Standalone 6W/12VDC, dimmer, 4000K, White
L-MTSA-22-W-5K	Micro Spot Standalone 6W/12VDC, dimmer, 5000K, White
L-MTSA-22-S-3K	Micro Spot Standalone 6W/12VDC, dimmer, 3000K, Silver
L-MTSA-22-S-4K	Micro Spot Standalone 6W/12VDC, dimmer, 4000K, Silver
L-MTSA-22-S-5K	Micro Spot Standalone 6W/12VDC, dimmer, 5000K, Silver

### MICROSPOT STANDALONE SOLID SURFACE 6W



REFERENCE	DESCRIPTION
L-MSPS-20-B	Standalone solid surface 6W/12-24VDC, no dimmer, 3000K/4000K Black
L-MSPS-20-W	Standalone solid surface 6W/12-24VDC, no dimmer, 3000K/4000K White
L-MSPS-20-S	Standalone solid surface 6W/12-24VDC, no dimmer, 3000K/4000K Silver

### QUADRI 6W



REFERENCE	DESCRIPTION
L-MTFS-22-B	Quadri Framing Shutter, 6W/12-24 VDC, dimmer, 3000K/4000K, Black
L-MTFS-22-W	Quadri Framing Shutter, 6W/12-24 VDC, dimmer, 3000K/4000K, White

### QUADRI 6W STANDALONE



REFERENCE	DESCRIPTION
L-MFSA-22-B	Quadri Standalone with integrated dimmer 6W/12-24 VDC, dimmer, 3000K/4000K Black
L-MFSA-22-W	Quadri Standalone with integrated dimmer 6W/12-24 VDC, dimmer, 3000K/4000K White

**QUADRI STANDALONE SOLID SURFACE**



REFERENCE	DESCRIPTION
L-MSFS-20-B	Quadri Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K Black
L-MSFS-20-W	Quadri Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K White

**QUADRI ZOOM FRAMING SHUTTER**



REFERENCE	DESCRIPTION
L-MTZFS-22-B	Quadri Zoom Framing Shutter 6W/12-24 VDC, 3000K/4000K Black
L-MTZFS-22-W	Quadri Zoom Framing Shutter 6W/12-24 VDC, 3000K/4000K White

**QUADRI ZOOM STANDALONE DIMMER**



REFERENCE	DESCRIPTION
L-MZFSA-22-B	Quadri Zoom Standalone with integrated dimmer 6W/12-24 VDC, 3000K/4000K Black
L-MZFSA-22-W	Quadri Zoom Standalone with integrated dimmer 6W/12-24 VDC, 3000K/4000K White

**QUADRI ZOOM STANDALONE SOLID SURFACE**



REFERENCE	DESCRIPTION
L-MSZFS-20-B	Quadri Zoom 16-35 Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K Black
L-MSZFS-20-W	Quadri Zoom 16-35 Standalone Solid Surface, Remote dimming available, 6W/12-24 VDC, 3000K/4000K White

**MICROSPOT 6W ACCESSORIES**

**BARNDOOR**



REFERENCE	DESCRIPTION
L-MTBD-20-B	Barndoor for 6W Micro Spot, Black
L-MTBD-20-W	Barndoor for 6W Micro Spot, White
L-MTBD-20-S	Barndoor for 6W Micro Spot, Silver

**ANGLED SNOOT**



REFERENCE	DESCRIPTION
L-MTAS-20-B	Angled Snoot for 6W Micro Spot, Black
L-MTAS-20-W	Angled Snoot for 6W Micro Spot, White
L-MTAS-20-S	Angled Snoot for 6W Micro Spot, Silver

**LED ENGINE 6W**



REFERENCE	DESCRIPTION
L-MTLED-22-B	LED Engine 6W, 3000K/4000K, Black

**ZOOM LENS 6W**



REFERENCE	DESCRIPTION
L-MTZO-22-B	Zoom Lens 6W, Black

**FRAMING SHUTTER LENS PLUS ADAPTER**



REFERENCE	DESCRIPTION
L-MTQAD	Framing shutter lens + Adapter



## LIGHTBAR AND WALLWASHER

### MICROSPOT WALLWASHER 5W



REFERENCE	DESCRIPTION
L-MTWS-22-B-3K	Wall washer for Micro Track, 5W - 3000K, Black
L-MTWS-22-B-4K	Wall washer for Micro Track, 5W - 4000K, Black
L-MTWS-22-W-3K	Wall washer for Micro Track, 5W - 3000K, White
L-MTWS-22-W-4K	Wall washer for Micro Track, 5W - 4000K, White

### MICROSPOT WALLWASHER 10W



REFERENCE	DESCRIPTION
L-MTWS-32-B-3K	Wall washer for Micro Track, 10W - 3000K, Black
L-MTWS-32-B-4K	Wall washer for Micro Track, 10W - 4000K, Black
L-MTWS-32-W-3K	Wall washer for Micro Track, 10W - 3000K, White
L-MTWS-32-W-4K	Wall washer for Micro Track, 10W - 4000K, White

### BARNDOR FOR WALLWASHER



REFERENCE	DESCRIPTION
L-MTWSB-22	Barndoor for L-MTWS-22, Black
L-MTWSB-32	Barndoor for L-MTWS-32, Black
L-MTWSW-22	Barndoor for L-MTWS-22, White
L-MTWSW-32	Barndoor for L-MTWS-32, White

### MICRO TRACK LED BAR



REFERENCE	DESCRIPTION
L-MTBA-01-B-450-3K	Micro Track LED Bar, 3000K, 450mm (18"), Black
L-MTBA-01-B-450-4K	Micro Track LED Bar, 4000K, 450mm (18"), Black
L-MTBA-01-W-450-3K	Micro Track LED Bar, 3000K, 450mm (18"), White
L-MTBA-01-W-450-4K	Micro Track LED Bar, 4000K, 450mm (18"), White
L-MTBA-01-B-900-3K	Micro Track LED Bar, 3000K, 900mm (36"), Black
L-MTBA-01-B-900-4K	Micro Track LED Bar, 4000K, 900mm (36"), Black
L-MTBA-01-W-900-3K	Micro Track LED Bar, 3000K, 900mm (36"), White
L-MTBA-01-W-900-4K	Micro Track LED Bar, 4000K, 900mm (36"), White

### STEMLIGHT



REFERENCE	DESCRIPTION
L-UPL-10-1-B	StemLight 1 head on 6mm stem - Black - 3000K/4000K/5000K
L-UPL-10-1-W	StemLight 1 head on 6mm stem - White - 3000K/4000K/5000K
L-UPL-10-1-S	StemLight 1 head on 6mm stem - Silver - 3000K/4000K/5000K
L-UPL-10-2-B	StemLight 2 heads on 10mm stem - Black - 3000K/4000K/5000K
L-UPL-10-2-W	StemLight 2 heads on 10mm stem - White - 3000K/4000K/5000K
L-UPL-10-2-S	StemLight 2 heads on 10mm stem - Silver - 3000K/4000K/5000K
L-UPL-10-2-G	StemLight 2 heads on 10mm stem - Gold - 3000K/4000K/5000K
L-UPL-10-3-B	StemLight 3 heads on 10mm stem - Black - 3000K/4000K/5000K
L-UPL-10-3-W	StemLight 3 heads on 10mm stem - White - 3000K/4000K/5000K
L-UPL-10-3-S	StemLight 3 heads on 10mm stem - Silver - 3000K/4000K/5000K
L-UPL-10-3-G	StemLight 3 heads on 10mm stem - Gold - 3000K/4000K/5000K
L-UPL-10-4-B	StemLight 4 heads on 10mm stem - 3000K - Black - 3000K/4000K/5000K
L-UPL-10-4-W	StemLight 4 heads on 10mm stem - 3000K - White - 3000K/4000K/5000K
L-UPL-10-4-S	StemLight 4 heads on 10mm stem - 3000K - Silver - 3000K/4000K/5000K
L-UPL-10-4-G	StemLight 4 heads on 10mm stem - 3000K - Gold - 3000K/4000K/5000K

### TALEA LEDBAR 10MM



REFERENCE	DESCRIPTION
L-MBA-01-R-B-100	TALEA LEDBAR 10mm, 100cm, 12V / 15W, Black, Round Corners
L-MBA-01-R-B-150	TALEA LEDBAR 10mm, 150cm, 12V / 23W, Black, Round Corners
L-MBA-01-R-B-200	TALEA LEDBAR 10mm, 200cm, 12V / 30W, Black, Round Corners
L-MBA-01-SQ-B-100	TALEA LEDBAR 10mm, 100cm, 12V / 15W, Black, Square Corners
L-MBA-01-SQ-B-150	TALEA LEDBAR 10mm, 150cm, 12V / 23W, Black, Square Corners
L-MBA-01-SQ-B-200	TALEA LEDBAR 10mm, 200cm, 12V / 30W, Black, Square Corners

For more lengths and colors, please contact us.

## H-SHAPE MICRO TRACK

### STANDARD H TRACK



REFERENCE	DESCRIPTION
L-MTHTK-100-B	H-shape Micro Track 1 meter, Black
L-MTHTK-100-W	H-shape Micro Track 1 meter, White
L-MTHTK-100-S	H-shape Micro Track 1 meter, Silver
L-MTHTK-200-B	H-shape Micro Track 2 meters, Black
L-MTHTK-200-W	H-shape Micro Track 2 meters, White
L-MTHTK-200-S	H-shape Micro Track 2 meters, Silver

### LIVE END CONNECTOR



REFERENCE	DESCRIPTION
L-MTEC-01-B	Live end connector for H-shape Track, Black
L-MTEC-01-W	Live end connector for H-shape Track, White
L-MTEC-01-S	Live end connector for H-shape Track, Silver

### STRAIGHT JUNCTION CONNECTOR



REFERENCE	DESCRIPTION
L-MTSJ-01-B	Straight junction connector for H-shape Track, Black
L-MTSJ-01-W	Straight junction connector for H-shape Track, White
L-MTSJ-01-S	Straight junction connector for H-shape Track, Silver

### 90° CORNER JUNCTION



REFERENCE	DESCRIPTION
L-MTCJ-01-B	90° corner junction for H-shape Track, Black
L-MTCJ-01-W	90° corner junction for H-shape Track, White
L-MTCJ-01-S	90° corner junction for H-shape Track, Silver

### 90° INSIDE FLAT CONNECTOR



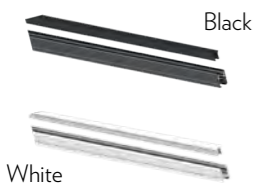
REFERENCE	DESCRIPTION
L-MTFCJ-01-B	90° inside-slot Flat connector for H-shape Track

### END CAP



REFERENCE	DESCRIPTION
L-MTCP-01-B	End cap for H-shape Track, Black
L-MTCP-01-W	End cap for H-shape Track, White
L-MTCP-01-S	End cap for H-shape Track, Silver

### CACHE



REFERENCE	DESCRIPTION
L-MTCTK-01-100-B	Cache for H and O Track slot / meter, Black
L-MTCTK-01-100-W	Cache for H and O Track slot / meter, White

## O-SHAPE MICRO TRACK

### VERTICAL O TRACK



REFERENCE	DESCRIPTION
L-MTOTEK-100-B	O-shape Micro Track 1 meter, Black
L-MTOTEK-100-W	O-shape Micro Track 1 meter, White
L-MTOTEK-100-S	O-shape Micro Track 1 meter, Silver
L-MTOTEK-200-B	O-shape Micro Track 2 meters, Black
L-MTOTEK-200-W	O-shape Micro Track 2 meters, White
L-MTOTEK-200-S	O-shape Micro Track 2 meters, Silver
L-MTOTEK-300-B	O-shape Micro Track 3 meters, Black

### LIVE END CONNECTOR



REFERENCE	DESCRIPTION
L-MTOEC-01-B	Live end connector for O-shape Track, Black
L-MTOEC-01-W	Live end connector for O-shape Track, White
L-MTOEC-01-S	Live end connector for O-shape Track, Silver

### STRAIGHT JUNCTION CONNECTOR



REFERENCE	DESCRIPTION
L-MTOSJ-01-B	Straight junction connector for O-shape Track, Black
L-MTOSJ-01-W	Straight junction connector for O-shape Track, White
L-MTOSJ-01-S	Straight junction connector for O-shape Track, Silver

### 90° CORNER JUNCTION



REFERENCE	DESCRIPTION
L-MTOCJ-01-B	90° corner junction for O-shape Track, Black
L-MTOCJ-01-W	90° corner junction for O-shape Track, White
L-MTOCJ-01-S	90° corner junction for O-shape Track, Silver

### END CAP



REFERENCE	DESCRIPTION
L-MTOCP-01-B	End cap for O-shape Track, Black
L-MTOCP-01-W	End cap for O-shape Track, White
L-MTOCP-01-S	End cap for O-shape Track, Silver

### FLANGE



REFERENCE	DESCRIPTION
L-MTFL-01-B	Flange for O-shape Track, Black
L-MTFL-01-W	Flange for O-shape Track, White
L-MTFL-01-S	Flange for O-shape Track, Silver

### CACHE



REFERENCE	DESCRIPTION
L-MTCTK-01-100-B	Cache for H and O Track slot / meter, Black
L-MTCTK-01-100-W	Cache for H and O Track slot / meter, White

## R-SHAPE MICRO TRACK

### RECESSED TRACK



REFERENCE	DESCRIPTION
L-MTRTK-100-B	R-shape Micro Track 1 meter, Black
L-MTRTK-100-W	R-shape Micro Track 1 meter, White
L-MTRTK-200-B	R-shape Micro Track 2 meter, Black
L-MTRTK-200-W	R-shape Micro Track 2 meters, White

### LIVE END CONNECTOR



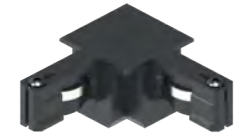
REFERENCE	DESCRIPTION
L-MTREC-01-B	Live end connector for R-shape Track, Black
L-MTREC-01-W	Live end connector for R-shape Track, White

### STRAIGHT JUNCTION CONNECTOR



REFERENCE	DESCRIPTION
L-MTRSJ-01-B	Straight junction connector for R-shape Track, Black
L-MTRSJ-01-W	Straight junction connector for R-shape Track, White

### 90° CORNER JUNCTION



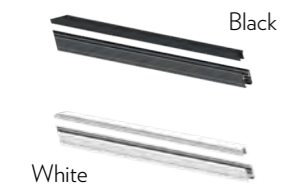
REFERENCE	DESCRIPTION
L-MTRCJ-01-B	90° corner junction for R-shape Track, Black
L-MTRCJ-01-W	90° corner junction for R-shape Track, White

### END CAP



REFERENCE	DESCRIPTION
L-MTRCP-01-B	End cap for R-shape Track, Black
L-MTRCP-01-W	End cap for R-shape Track, White

### CACHE



REFERENCE	DESCRIPTION
L-MTCTK-01-100-B	Cache for H and O Track slot / meter, Black
L-MTCTK-01-100-W	Cache for H and O Track slot / meter, White

Different spotlights require different drivers - please contact us to know which to add to your order.

### LED DRIVERS 12V



REFERENCES	PRODUCT DESCRIPTION
LPV-35-12	UL - 110/230 universal output - Class 2
LPV-60-12	UL - 110/230 universal output - Class 2
LPV-100-12	UL - 110/230 universal output

### LED DRIVERS 12V - EUROPE



REFERENCES	PRODUCT DESCRIPTION
NPF-40	CE - 110/230 universal output
NPF-90	CE - 110/230 universal output

### PICK-UP CONNECTOR



REFERENCES	PRODUCT DESCRIPTION
L-MTPK-40-B	Picking Connector 12V/18W

### DRIVER



REFERENCES	PRODUCT DESCRIPTION
L-CT-DMX-RDM-1-3W-6CH	6 CH Driver
L-CT-DMX-RDM-6W-6CH CONTROL	6 CH Driver Control

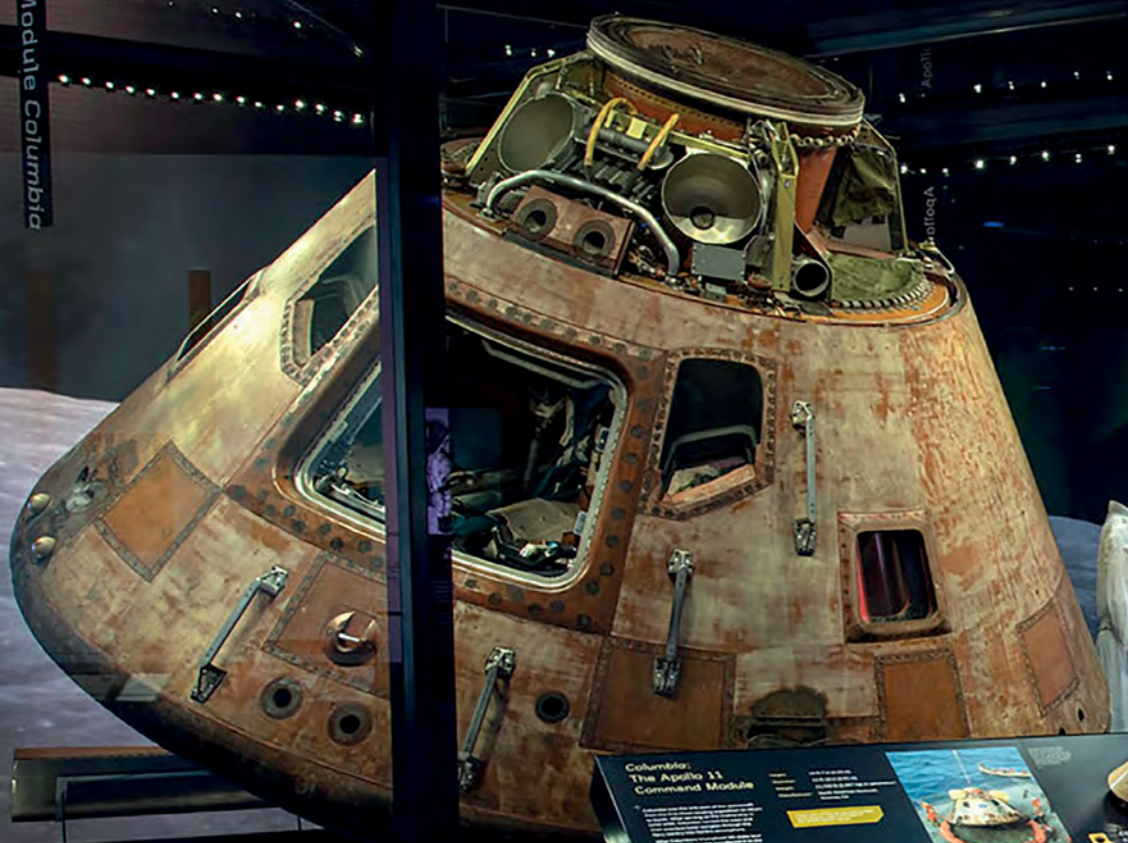


PHOTO 21

# FIBER OPTIC SYSTEMS

Command Module Columbia

Command Module Columbia



**Columbia: The Apollo 11 Command Module**

After 14 days in space, the Apollo 11 Command Module (CM) was the only part of the Apollo 11 spacecraft to return to Earth. It was launched on July 16, 1969, and landed on July 20, 1969. The CM was the only part of the Apollo 11 spacecraft that was not jettisoned during the mission. It was the only part of the Apollo 11 spacecraft that was not jettisoned during the mission. It was the only part of the Apollo 11 spacecraft that was not jettisoned during the mission.

This section is generously sponsored by Philip N. and Mary A. Lyons. Conservation, digitization, and display of the Armstrong spacesuit was made possible by the backers of the "Reboot the Suit" Kickstarter campaign.

### First Spacesuit on the Moon

Neil Armstrong wore this spacesuit when he made his historic "one small step" onto the surface of the Moon on July 20, 1969. Before and after his two-and-a-half-hour lunar walk, he wore it inside the lunar module, but without the special gold visor helmet and with different gloves.

### Neil Armstrong's A-7L Lunar Spacesuit Apollo 11

Armstrong's spacesuit is basically a form-fitting space suit. It provided air to breathe, protection from temperature extremes, radiation, and high-speed meteorite particles and allowed him to communicate with others. The A-7L was the seventh version of the Apollo suit built by 3M Industries in Delaware. It is marked with Armstrong's lunar exploration gear assembly and extravehicular gloves.

"THAT'S ONE SMALL STEP FOR MAN, ONE GIANT LEAP FOR MANKIND."



## INTRODUCTION TO FIBER OPTICS

“For internal lighting of display cases, the most sustainable, maintainable, preventive conservation solution is a combination of LED light source with fiber optic light guides in the case.” The RP-30 (ANSI recommended practice), which is the standard for American museums.

The Luxam lighting philosophy is to enhance the beauty and story of the object while respecting its conservation requirements, and for the lighting to have the ability to adapt to the needs of the display over time.

The Luxam Micro Fiber Optic System enables each object to benefit from an individual lighting that puts forward its details, color, textures, and its organic differences. Our concept makes it possible to rigorously control the visual ergonomics (multiple levels of lighting, reflections, and highlights) offering an optimal perception of objects and text for the observer.

Fiber optics are still the only way to avoid heat and electricity to enter the case. Our miniature optical terminals are easily hidden from visitors. The LED illuminators are installed outside of the case avoiding any problems of obsolescence due to the evolution of the lightsource and ensuring that every system benefits from the latest technology available.

This ‘obsolescence proof’ system will technically match the expected life of the display case.

Fiber Optic system is the best long-term investment for museums when looking at a 10, 20, 30-year period. The only part that would require changing are the illuminators, and each illuminator can enable up to 24 spots of lights. Many of our museum partners change out all their illuminators after 10-15 years and immediately have the best of the latest technology and color rendering, at a fraction of the cost that it would be to replace an entire system.



## HOW THE LUXAM FIBER SYSTEM WORKS

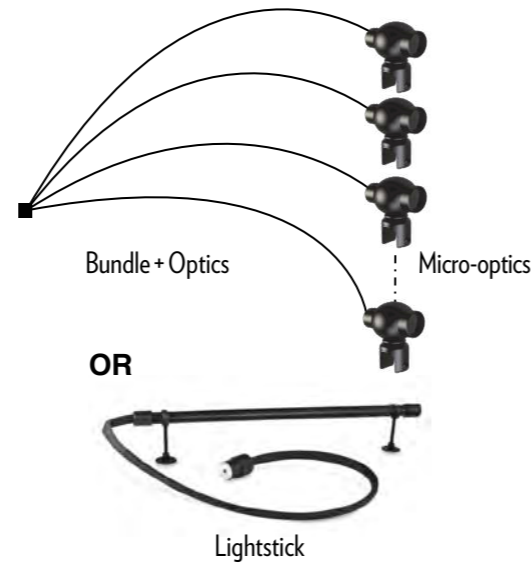
The Fiber system is very simple and has 3-4 elements to consider depending on the system chosen. Each system is individually chosen and manufactured depending on the needs of the display cases and the artifacts housed within them.

The variables to consider when picking the right system for you:

1. What type of lighting would be best: Spotlights or Lightsticks  
Optics will offer a highly precise and contrasted lighting especially useful to illuminate rounded and 3D objects. Lightsticks will offer an even linear lighting best suited to books and texts.
2. The Illuminator - We currently have 7 types of illuminators – traditional illuminators with onboard dimmers, DMX compatible, and two interactive illuminators.
3. The best attachment solution for each option: grid, bars, towers, or different lighstick options. (More info in the following pages)



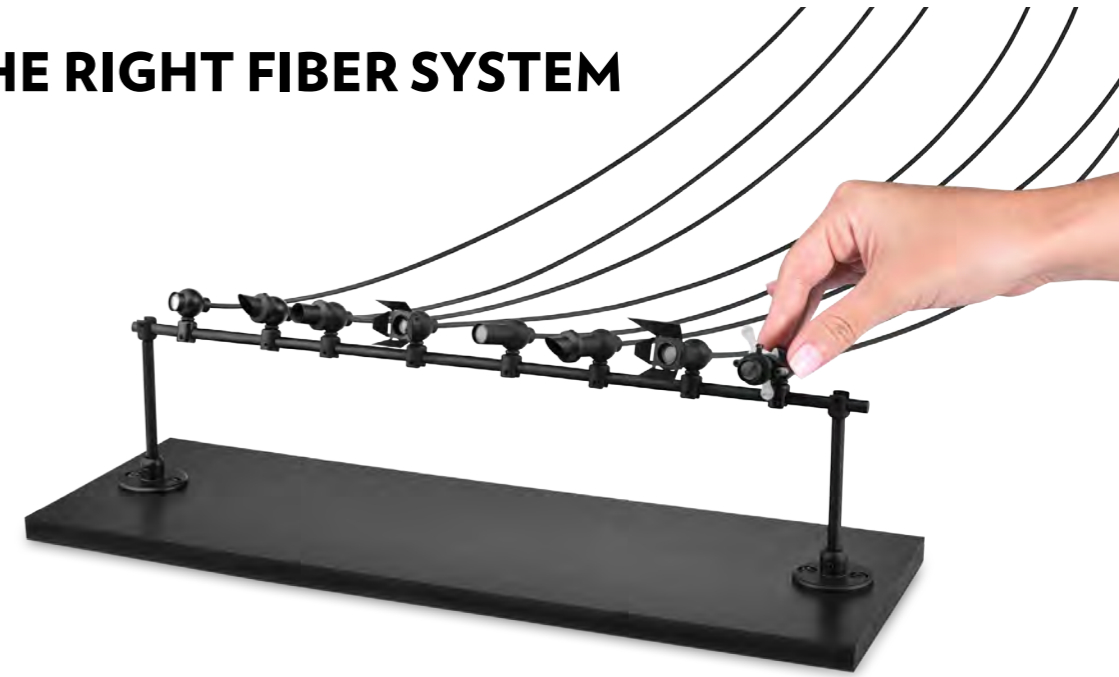
Illuminator



OR

Lightstick

## CHOOSING THE RIGHT FIBER SYSTEM



What to consider when choosing a Fiber Optic System:

1. The Illuminator: Do you need a simple system with onboard dimming, one that is DMX compatible, or an interactive option when various lights can be controlled separately? We currently have 7 types of illuminators. (More info from page 18)
2. The Optic size – We have 3 sizes: Nano, Micro, and Mini. The Micro Optic size is by far the most common and practical – it can light the smallest of the object as well as full medieval gowns. All options come with an extensive range of accessories.
3. The Bundle size – There are three aspects to a bundle: size of the fiber, number of strands, and length of each strand. The size of the optics will determine the millimeter of the fiber, which will determine the max number of fibers you can have per bundle. For example, the micro-optics use 2mm fiber and you can have up to 24 strands per bundle. As each bundle is custom made there are a multitude of options. We do not recommend for strands to be more than 7 meters long



# FIBER BUNDLE SPECIFICATIONS

## SPECIFICATIONS

Active Diameter	1.5mm	2.0mm	3.0mm	4.0mm	5.0mm
Outside Diameter	2.0mm	2.8mm	6.0mm	7.0mm	8.0mm
Minimum 90° Turning Radius	20mm (3/4")	40mm (1/75")	50mm (2")	60mm (3")	65mm (4")
*Optimal Fibers/Connector	30	24	20	12	4

## TYPICAL FIBER BUNDLES W/ ORDER CODE

Bundle 1.5 x 24 x 3	1.5mm x 24 tails x 3 meters, to common connector
Bundle 2 x 16 x 3	2.0mm x 16 tails x 3 meters, to common connector
Bundle como 1.5 x 10 x 3 + 2 x 10 x 3	Combo 20 trails, 10 x 1.5mm and 10 x 2 x 3 meters to common connector
Bundle 3 x 12 x 4	3.0mm x 12 tails x 4 meters, to common connector

Custom Fiber bundles of any length and combination of diameters available as standard order.  
Maximum tail length for optimal performance is recommended to be less than 20' or 6m..



PHOTO 26

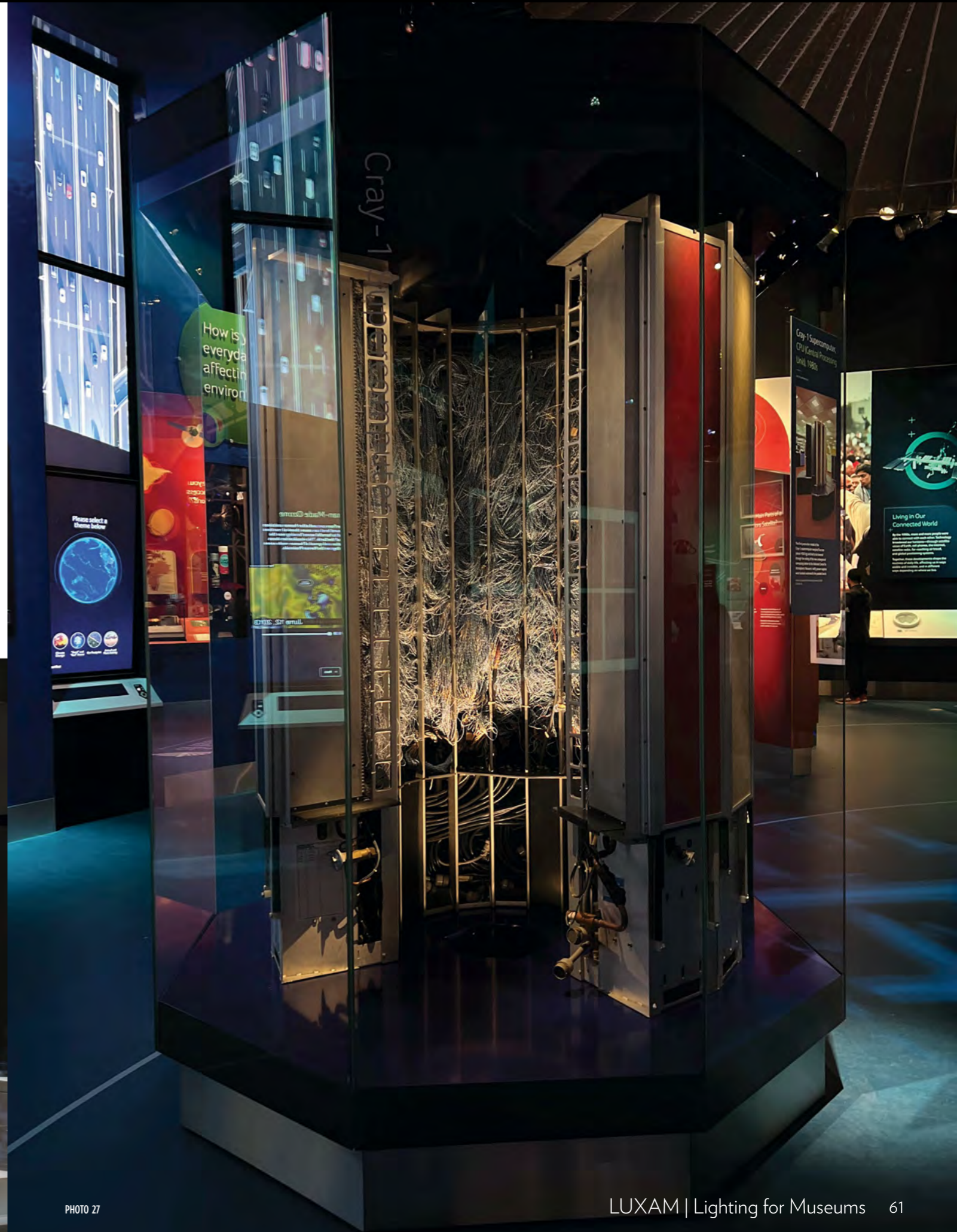


PHOTO 27

# FIBER OPTIC MICROTOWERS

Self supported fiber optic MicroTowers are for most vertical applications.

This flexible system uses pins that can be adjusted to provide the desired focus according to the objects. For Vitrines and Four-Sided viewing when you cannot attach the lighting to the casework sides. Mounting options include a flange mount for the base and/or ceiling.

## FEATURES

- Pan & Tilt capable
- Variable spacing between fixtures provides great flexibility for focusing
- Standard Color: Anodized Matte Black - exterior extrusion can be painted
- Custom lengths to 2.5 m
- Unique triangular mount to fit tight corners
- 55-210 MICRO 10° : 10° to 60°
- 55-207 MICRO 5° : 5° to 50°



Adjustable Pins



Flange: 78.18mm wide  
Unique triangular mount fits seamlessly into corners



\*\* Note INSERTS between pins are an option to hide the fiber further.





# FIBER MICRO OPTIC PHOTOMETRICS

MICRO FIXTURE 5 DEGREES (55-207) WITH 2MM FIBER - TESTED WITH 15-135 30W ILLUMINATOR

## 55-207\_5° Open Intensity Level (lux)

Illuminator/ Distance (m)	0.5	1m	1.5m	2m	2.5m	Distance (m)	Lighting Spot Diameter (m)
20W 3000k	1328	332	148	83	53	0.5	0.04
30W 3000k	1536	384	171	96	61	1	0.09
45W 3000k	1960	490	218	123	78	1.5	0.13
						2	0.17
						2.5	0.22

## 55-207\_55° Open Intensity Level (lux)

Illuminator/ Distance (m)	0.5	1m	1.5m	2m	2.5m	Distance (m)	Lighting Spot Diameter (m)
20W 3000k	108	27	12	7	4	0.5	0.71
30W 3000k	120	30	13	8	5	1	1.43
45W 3000k	156	39	17	10	6	1.5	2.14
						2	2.86
						2.5	3.57

## 55-210\_10° Open Intensity Level (lux)

Illuminator/ Distance (m)	0.5	1m	1.5m	2m	2.5m	Distance (m)	Lighting Spot Diameter (m)
20W 3000k	1140	285	127	71	46	0.5	0.9
30W 3000k	1284	321	143	80	51	1	0.18
45W 3000k	1736	434	193	109	69	1.5	0.26
						2	0.35
						2.5	0.44

## 55-210\_65° Open Intensity Level (lux)

Illuminator/ Distance (m)	0.5	1m	1.5m	2m	2.5m	Distance (m)	Lighting Spot Diameter (m)
20W 3000k	140	35	16	9	6	0.5	1.07
30W 3000k	168	42	19	11	7	1	2.14
45W 3000k	212	53	24	13	8	1.5	3.22
						2	4.29
						2.5	5.36





## FIBER OPTIC LIGHTSTICKS

Fiber Optic Lightsticks are the linear expression of fiber optic lighting. They are designed to illuminate two-dimensional surfaces with an even spread of light.



### SPECIFICATIONS

- Custom fabrication to your exact specifications
- Perfect for documents, books, and text panels
- Provides a show less wash of light
- Uniform base light in a 3D space for small cases
- Standard focus at 60° wash
- Tight focus capable at 30°
- Wide focus capable for vitrines at 90°
- Length measurement must include Live End Cap and End Cap

### LIGHTSTICK SPECIFICATIONS AND FIXATIONS

Lightstick Diameter	20mm (standard)	16mm	10mm
Lightstick length max	Up to 2.5m	Up to 1.95m	Up to 0.5m
Tail length	Up to 5m	Up to 5m	Up to 5m
Beam Angle Options	30° / 60° / 90°	30° / 60° / 90°	60°



16mm Lightstick has 40% less light because of the turn of the fiber.

### ELBOW GANTRY WITH FLANGE

90° elbow for 16mm and 20mm for gantry and thrust mounting in table cases, vitrines, and wall cases. To specify stick length for elbows - provide drawing.



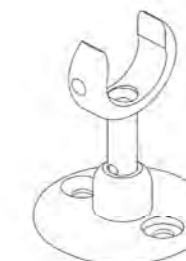
#### CLAM SHELL

- Base support for 16mm black 22-105
- Base support for 20mm black 22-101



#### VERTICAL FLANGE

- for 16mm - 22-104



#### C-CLAMP WITH 65-103 BASE

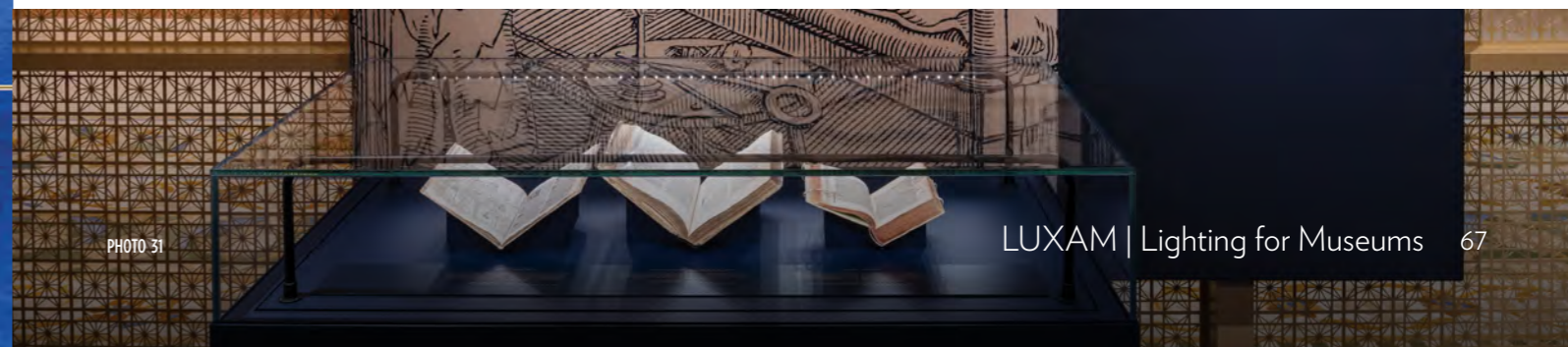
- C-clamp with surface mount 16mm - 65-502
- C-clamp with surface mount 20mm - 65-503
- C-clamp with surface mount 24mm - 65-504

#### STEMS

- Stems 15, 30, 60, 75, and 90 mm

#### C-CLAMP SIZE

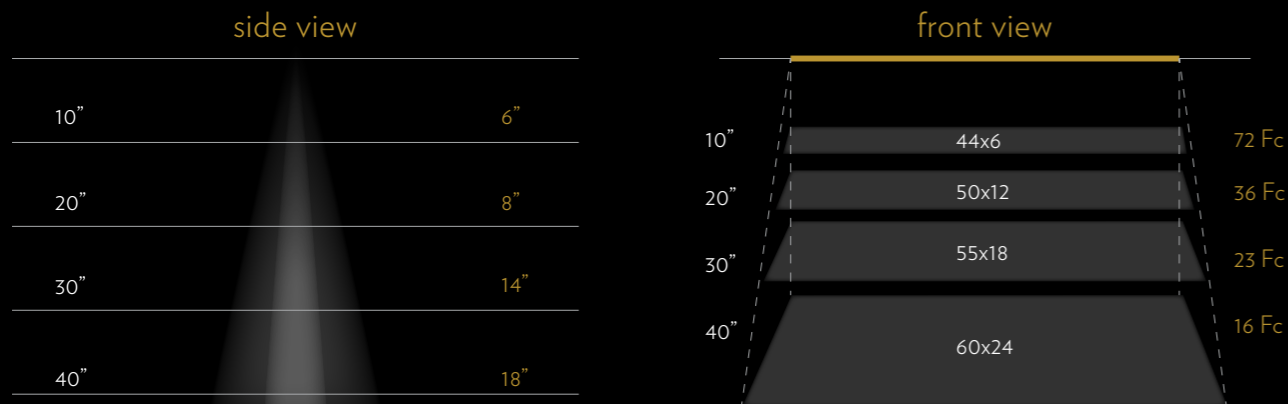
- Code x stem length, mm
- Order Code example: 65-502-15



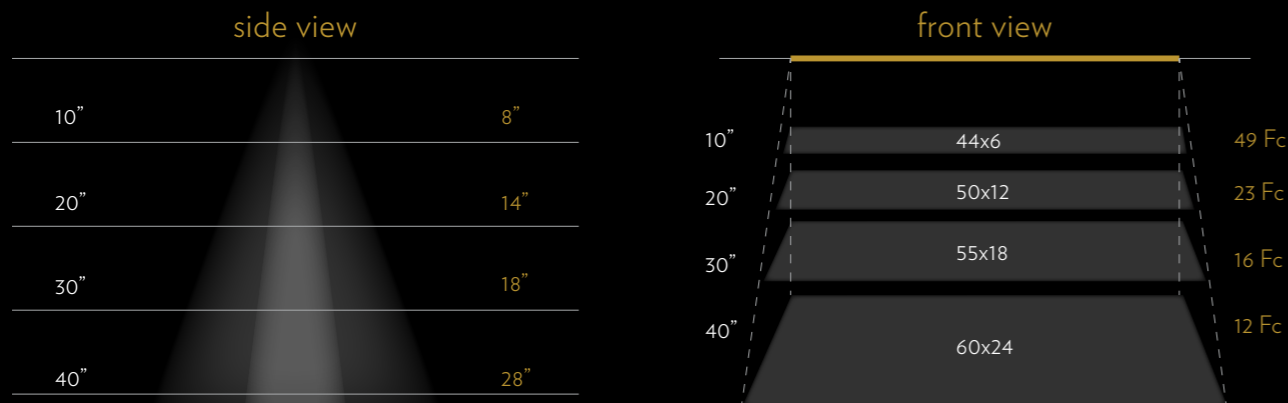
# LIGHTSTICK PHOTOMETRICS

## 40" LIGHSTICK - 10-200-B 35W ILLUMINATOR @ 700 MA

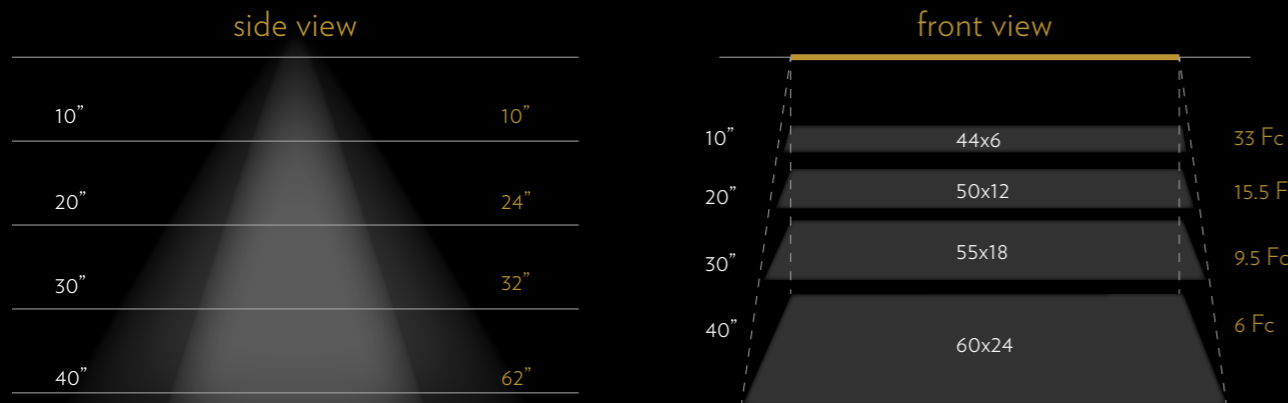
### 30° light beam



### 60° light beam



### 90° light beam



# LED ILLUMINATORS

Mated to our fiber optic bundle CAX2 brings the light directly to our Microfixtures inside the casework.



### 10-200-BP 30/35W

#### SPECIFICATIONS

Max power consumption	30-35W
Input Voltage	90-240V AC 60Hz
Input Current	1A
CRI	3000K - 97, 3500K - 90+, 4000K - 90+
CCT	3000, 3500, 4000
Dimmer function	100% to black, local potentiometer
Operating temp	+5° <ta < 40°C
Weigh	1.4kgs / 3lbs
Dimensions	199.5mm x 131.7mm x 98.5mm
Material	Alum. Alloy / PC

#### PRODUCT CODES

CCT 3000K	10-200-B-P-3K
CCT 4000K	10-200-B-P-4K
CCT 3500K	10-200-BP-3.5K



### 10-200-BP-DMX/ 30/35W

#### SPECIFICATIONS

Max power consumption	30-35W
Input Voltage	90-240V AC 60Hz
Input Current	1A
CRI	3000K - 97, 3500K - 90+, 4000K - 90+
CCT	3000, 3500, 4000
Dimmer function	100% to black potentiometer /DMX
Operating temp	+5° <ta < 40°C
Weigh	1.44kgs / 3.2lbs
Dimensions	193.6mm x 166.7mm x 98.5mm
Material	Alum. Alloy / PC

#### PRODUCT CODES

CCT 3000K	10-200-BP-DMX-3K
CCT 4000K	10-200-BP-DMX-4K
CCT 3500K	10-200-BP-DMX-3.5K



## LED ILLUMINATORS (AVAILABLE IN EUROPE)



### 15-122/ 20W SPECIFICATIONS

Max power consumption	20W
Input Voltage	190-240V AC
Input Current	1A
CRI	3000K-98 4000k-90+
CCT	3000K
Dimmer function	Yes
Operating temp	Natural Convection
Weigh	1.24kgs / 2.75lbs
Dimensions	152mm x 81mm x 125mm
Material	Alum. Alloy / PC

### PRODUCT CODES

CCT 3000K 15-121-3K



### 15-135 / 30W SPECIFICATIONS

Max power consumption	30W
Input voltage	110-220 V
Input current	1A
CRI	3000K-98 4000K-90
CCT	3000k, 4000k
Dimmer function	yes
Operating temp	+5 < Ta < +40°C
Weigh	1.25kg
Dimension	191mm x 150mm x 96mm
Material	Alum. Alloy / PC

### PRODUCT CODES

CCT 3000K 15-135-3K

CCT 4000K 15-135-4K



### 15-145 / 45W SPECIFICATIONS

Max power consumption	45W
Input voltage	110-220 V
Input current	1A
CRI	3000K-97
CCT	3000k, 4000k
Dimmer function	yes
Operating temp	+5 < Ta < +40°C
Weigh	2.5kg
Dimension	191mm x 180mm x 122mm
Material	Alum. Alloy / PC

### PRODUCT CODES

CCT 3000K 15-145-3K

CCT 4000K 15-145-4K



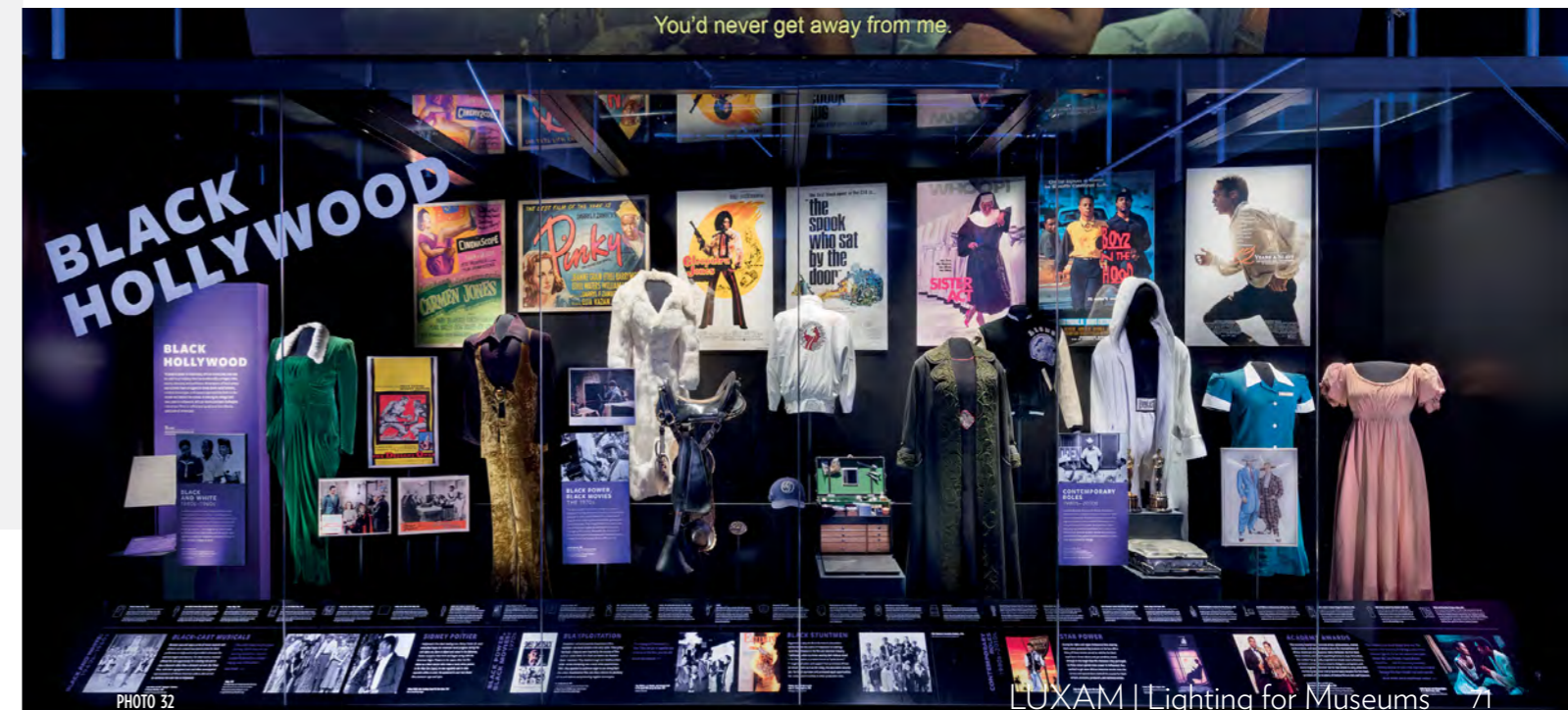
## LED ILLUMINATORS - INTERACTIVE

By combining the best attributes of LED's and fiber optic delivery systems, the dynamic interactive showcase is now possible. The 80-105 5 Port has 5 ports, each port can accommodate up to 10 strands of fiber.



### 80-105 / 5 PORT HYBRID SPECIFICATIONS

5 channels/ DMX dimming capable
5 channel of control via PC console for timed transitions
Remote location keeps out heat and electric power inside the display
Stream content directly to visitor per sonal devices
Wireless transmission to mobile server to modify on the fly
Max power consumption: 35W
Input Voltage: 90-240V AC
Input Current: 1A
CCT: 3000K or 4000K
Max operating temperature: +5° to 40°C
Use: For Indoor use only, IP20
Dimensions: 440mm*155mm*65mm



## INTEGRATING IN DISPLAY CASES

After decades lighting display cases around the world, it's undeniable that integrating lighting systems within the original designs of the cases is the best way for lighting to 'disappear' while enabling objects to shine.

Integrating lighting correctly is a collaboration between the designers, fabricators, curators, and lighting provider. We are happy to provide counsel taking our experience of lighting thousands of cases worldwide from the very beginning of a project.

Our optics attach on 6mm rods and grid tops made of 6mm rods, there are also recessed options, single strand options etc

Some specifics to bear in mind:

- Grid Tops need 4" or 10cm between the grid and the ceiling to move the fiber around. Ceiling should always be painted black.
- 6mm rods need to be at least 2" or 5cm from the wall to give enough bend radius for the fiber to turn and affix to optics (for 2mm fiber - more for larger fibers).
- Making sure the lighting will have the angles needed - looking at depth, placement of objects.

## INSTALLATION AND FOCUS

Luxam fiber optic lighting requires more diligence during installation than standard wash lighting. Each individual fixture is focused onto objects mounted within the casework. Our expert focusers have been trained in the Luxam system and are lighting experts - making sure that the final focus of the lighting is done to the highest standard.

Our teams have been called in to do one case or worked for months to do the display lighting of entire museums.

For best museum quality results, we recommend our personnel do a final focus.

We are always happy to train on site teams who will care for the maintenance of the cases.

THERE ARE THREE STAGES OF INSTALLATION:

- **BASIC FITTING** - The fibers or Lightsticks are installed into the cases. No optics are fitted to the tail ends and no tails are being fixed into position.
- **FIRST FIX** - The Lightsticks or fibers are placed, directed, and fixed into position to give a wash over the artifacts. They are fixed into position at regular intervals and directed towards the interior of the case. The purpose and result of this stage is to have the lights on in the case.
- **FINAL FOCUS** - In this stage, which is always taking place in cooperation with the curator, the lights are directed from the interior to the artifact. Final focus requires the objects and all labels to be in their final position within the case prior to our work beginning.



























# FIBER OPTIC SYSTEMS

ORDER CODES

## MICRO-FIXTURES















-  **55-101**  
10° micro-fixture, stirrup mount
-  **55-201**  
10° micro-fixture, staple mount for 0.4" (10mm)
-  **55-202**  
5° micro-fixture, staple mount for 0.4" (10mm)
-  **55-203**  
5° micro-fixture, staple mount for 0.63" (16mm)
-  **55-204**  
5° micro-fixture, staple mount for 0.8" (20mm)
-  **55-205**  
5° micro-fixture, stirrup mount
-  **55-210**  
10° micro-fixture, staple mount for 0.24" (6mm)
-  **55-207**  
5° micro-fixture, staple mount for 0.24" (6mm)
-  **55-301**  
10° micro-fixture, staple mount for 0.63" (16mm)
-  **55-304**  
10° micro-fixture, staple mount for 0.8" (20mm)
-  **55-535**  
5° micro-fixture with front focalisation, staple mount for 0.24" (6mm)
-  **55-541**  
5° micro-fixture with front focalisation, staple mount for 0.4" (10mm)
-  **55-542**  
5° micro-fixture with front focalisation, staple mount for 0.63" (16mm)

-  **55-543**  
5° micro-fixture with front focalisation, staple mount for 0.8" (20mm)
-  **55-544**  
10° micro-fixture with front focalisation, staple mount for 0.24" (6mm)
-  **55-545**  
10° micro-fixture with front focalisation, staple mount for 0.4" (10mm)
-  **55-546**  
10° micro-fixture with front focalisation, staple mount for 0.63" (16mm)
-  **55-547**  
10° micro-fixture with front focalisation, staple mount for 0.8" (20mm)
-  **55-548**  
5° micro-fixture with front focalisation, stirrup mount
-  **55-549**  
10° focusable micro-fixture, stirrup mount

## FRAMING MICRO-PROJECTORS

-  **55-430**  
Framing micro-projector, staple mount for 0.4" (10mm), V-shaped blades.
-  **55-431**  
Framing micro-projector, staple mount for 0.63" (16mm)
-  **55-432**  
Framing micro-projector, staple mount for 0.8" (20mm)
-  **55-433**  
Framing micro-projector, stirrup mount, V-shaped blades.
-  **55-435**  
Framing micro-projector, staple mount for 0.24" (6mm)

## MODULAR MICRO-COMPONENTS

-  **55-100**  
10° micro optic head
-  **55-120**  
5° micro optic head
-  **55-405**  
0.4(10mm) micro-optic head/ 10° for micro-fixture body
-  **55-406**  
Micro-optic head/5° with double focusing device
-  **55-407**  
Micro-optic framing head for micro-fixture body/
-  **55-505**  
Micro-fixture body, stirrup mount
-  **55-507**  
Micro-fixture body, staple mount for 0.24" (6mm)
-  **55-510**  
Micro-fixture body without 0.4" (10mm) optic head
-  **60-311**  
25°/35° mini optic head assembly
-  **60-312**  
10° mini optic head assembly
-  **60-400**  
Mini fixture body for 20°/35° lens (reference 60-320), surface mount
-  **60-410**  
Mini fixture body for 20°/35° lens (reference 60-320), through pannel mount
-  **60-415**  
Mini fixture body for 20°/35° lens (reference 60-320), staple mount on 0.24" (6mm) tube
-  **60-420**  
Mini fixture body for 20°/35° lens (reference 60-320), staple mount on 0.4" (10mm) tube



## MICRO-ACCESSORY

**55-302**

Filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117

**55-303**

Barn-doors/filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117

**55-315**

Asymmetric barndoors/filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117

**55-320**

Micro snoot for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117

**55-325**

Beveled micro snoot for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117

**60-110**

Filter holder for mini optic

**60-115**

Barn-doors/filter holder for mini optic

**60-120**

Mini snoot for mini optic

**60-125**

Beveled snoot for mini-fixture

**55-408**

Additional V-shaped blade

**55-409**

Blade with 3 different hole diameters

**55-410**

Linear blade edge

**55-411**

Elliptic edge blade

## MICRO-RECESSED

**50-050**

01,22" (3mm) adjustable micro-sphere, 10° optic, for 0.86" (22mm) thick panel

**50-055**

01,22" (3mm) adjustable micro-sphere, 5° optic, for 0.86" (22mm) thick panel

**50-107**

Adjustable mini-sphere, 18°/43° optic, 0.87" (22mm) for 03,4,5 optic cable, fixation by clamping on back flange

**50-108**

Adjustable mini-sphere, 18°/43° optic, 0.87" (22mm) for 03,4,5 optic cable, fixation by 2 screws

**50-116**

Adjustable mini-sphere without optic, for 03,4,5 optic cable, fixation by clamping on back flange

**50-117**

Adjustable mini-sphere without optic, for 03,4,5 optic cable, front fixation by 2 screws

**55-050**

Adjustable micro-sphere, 10° optic, for 0.86" (22mm) thick panel

## MICRO-FLEXIBLES

**55-402**

09mm micro-head without optic for 0.6" (24mm) micro-flexible tube

**55-404**

10° micro-optic head for 0.6" (24mm) micro-flexible tube

**65-101**

Through pannel threaded tube mount for 0.24" (6mm) rod

**65-102**

Staple mount for 0.4" (10mm) grid and 0.24" (6mm) rod

**65-103**

Surface mounting plate for 0.24" (6mm) rod

**65-110-25**

0.24" / 6mm rod - 1" / 25mm

**65-110-50**

0.24" / 6mm rod - 2" / 50mm

**65-110-100**

0.24" / 6mm rod - 4" / 100mm

**65-110-200**

0.24" / 6mm rod - 8" / 200mm

**65-110-300**

0.24" / 6mm rod - 12" / 300 mm

**65-110-1000**

0.24" / 6mm rod - 39,5" / 1000 mm

**65-110-2000**

0.24" / 6mm rod - 79" / 2000 mm

**65-160**

Staple mount for 0.24" (6mm) and 0.4" (10mm) grid with 6mm rod 70mm length

**65-140**

Spacer 0.24" (6mm) - male/ female, M3, 0.4" (10mm) long

**65-141**

Spacer 0.24" (6mm) - male/ female, M3, 0.8" (20mm) long

**65-142**

Spacer 0.24" (6mm) - male/ female, M3, 2" (50mm) long

**65-260**

Staple mount for 0.24" (6mm) grid and 0.24" (6mm) rod

**65-310**

Magnetic mounting plate for 0.24" (6mm) rod





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