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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

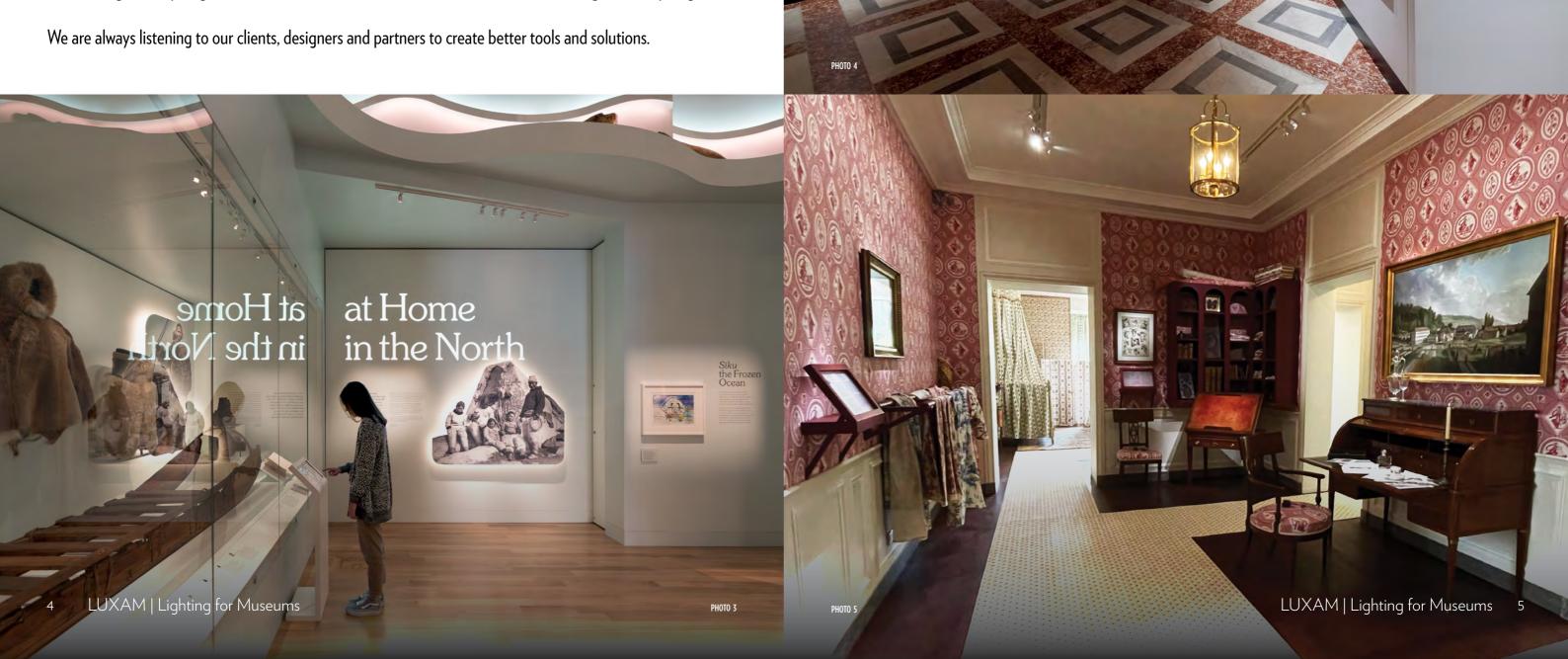
Which is why Luxam works with museums, designers, and fabricators, from the earliest stages of design, in order to ensure the best results.

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.



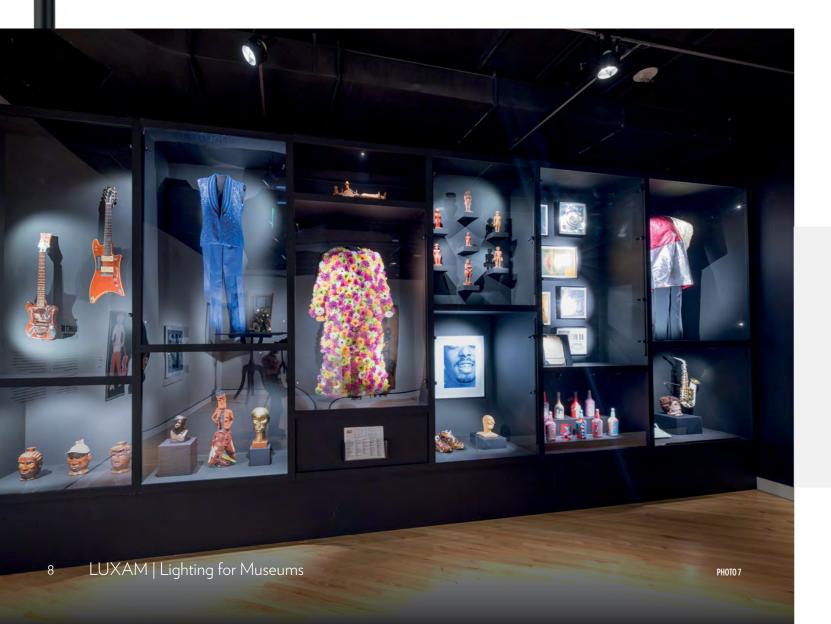
BUILT ENVIRONMENT



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.







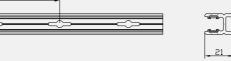
















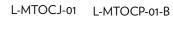




















RECESSED TRACK L-MTRTK















L-MTCTK-01

LUXAM | Lighting for Museums 9

ALL MICROTRACK FIXTURES

All fixtures can mix and match on the same track.

SPOTLIGHTS



QUADRI-FRAMING SHUTTER



WALL WASHERS

LINEAR

10

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

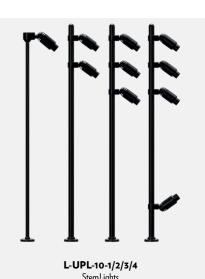


1WRemote Dimme



1W Standalone OnboardDimmer

L-MSPS-10 1W Standalone Remote Dimmer



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:

FEATURES:

- 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-MSPS-00 3W Standalone Remote Dimmer

L-MTSP-22 6W



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



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-MSFS-20

6W Quadri-Standalone

Solid Surface

L-MTSA-22 6W Standalone 6W Standalone



L-MSZFS-20 6W Quadri-Zoom Standalone

Solid Surface



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



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

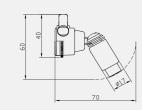


L-MTZFS-22 6W Quadri-Zoom Framing Shutter

6W with onboard dimmer

MICROTRACK SPOTLIGHT FIXTURES





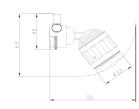
L-MTSP-12 1W

Voltage/wattage	12V / 1.2W
Input current	100m A
Beam angles	Zoomable 9° to 60°
Luminous flux	98 lm @RA97 / 56 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	Onboard Dimmer PWM 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	12V / 3.8W
Input current	340m A
Beam angles	Zoomable 7° to 60°
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 - 330m A
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	UL, CE
Warranty	5 years
Protection	IP30

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SPOTLIGHT PHOTOMETRICS

L-MTSP-12 1W





L-MTSP-02 3W



3W with Onboard Dimmer

,		<∠oom>		6 U	
		Distances		4	
Ø0.12m	8800 lux	0.5m	844 lux		Ø0.61m
Ø0.25m	2200 lux	1m	211 lux		Ø1.22m
_					
Ø0.37m	977 lux	1.5m	93 lux		Ø1.83m
-					
Ø0.50m	550 lux	2m	52 lux	•	Ø2.44m

L-MTSP-22 6W





MICROTRACK SPOTLIGHT ACCESSORIES



L-MTSP-12 1W













L-MTAS-10

L-MTFH-10



L-MTSP-02 3W

L-MTSP-22 6W



L-MTFH-01



















L-MTBD-01 L-MTBST-01

L-MTAS-01 L-MTSC-01 L-MTSN-01









L-MTAS-20







L-MTFH-20

L-MTZO-22-B

L-MTQAD



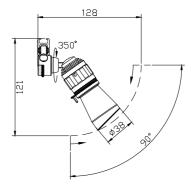
MICROTRACK ACCESSORY BOOSTER

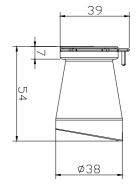
L-MTBST-01 FOR THE 3W SPOTLIGHT





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







PHOTOMETRICS COMPARISON



L-MTS	P-02	+ L-M	TBST-O	1
			. 55 . 0	•

(lx)	7 °	(diameter)	distance (m)	(lx)	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



MICROTRACK LIGHTBAR FIXTURES



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



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	831	

TECHNICAL DATA: L-MTBA-01

Power Input	7W/450mm// 15W/900mm-Voltage:12VDC	
Control On-board Dimmer		
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

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LIGHTBAR PHOTOMETRICS



112°



................

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

112°



QUADRI FRAMING SHUTTER SPOTLIGHT

L-MTFS-22 6W



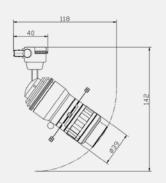
L-MTFS-22 6W - Quadri Framing Shutter Spotlight

L-MTZFS-22 6W



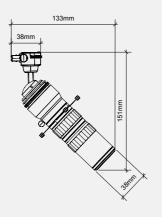
L-MTZFS-22 6W - Quadri Zoom Framing Shutter Spotlight





TECHNICAL DATA: L-MTFS-22

Voltage/wattage	11v -24VDC / 7.8W
Beam angle	55°
Input Current	650mA - 330mA
Polarity	No polarity required
Dimming	Onboard Dimmer PWM 0-100%
CRI	97 typ
ССТ	3000K, 4000K, 5000K
Head Pan	355°/tilt 90°
Rating	IP30
Material	Aluminum



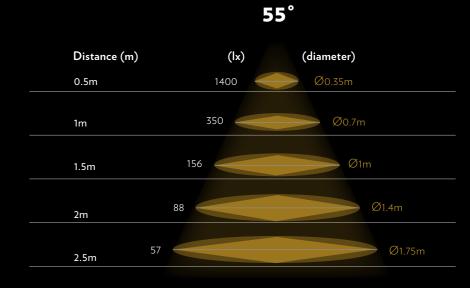
TECHNICAL DATA: L-MTZFS-22

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

QUADRI FRAMING SHUTTER PHOTOMETRICS

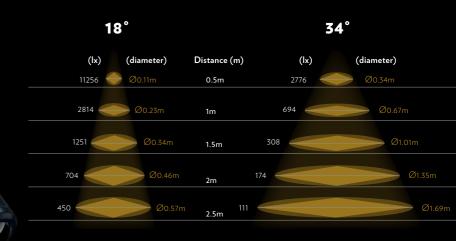
L-MTFS-22 6W





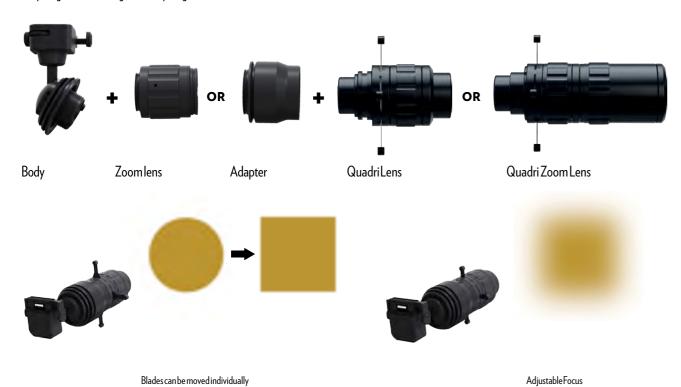
L-MTZFS-22 6W





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

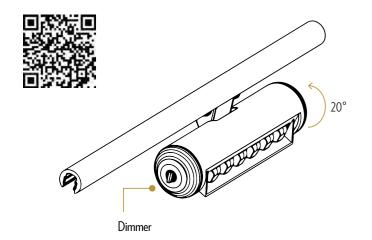
The L-MTSP-22 6W Spotlight can transform into the L-MTFS-22 Quadri spotlight - with one body you can have either a spotlight or a framing shutter spotlight.







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

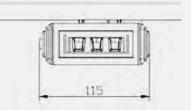
Onboard dimmer

Barndoors available for both:



L-MTWS-22 5W



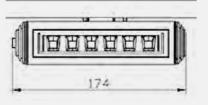


TECHNICAL DATA: L-MTWS-22

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

L-MTWS-32 10W

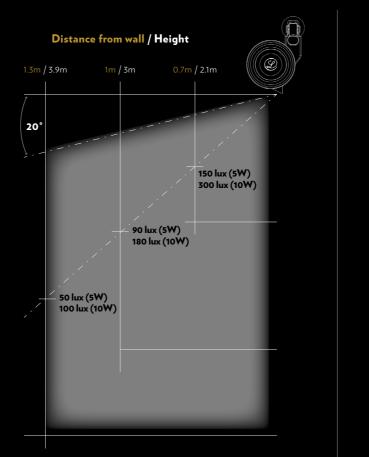


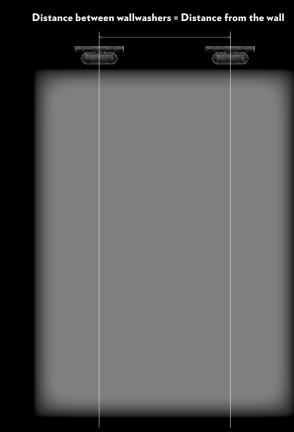


TECHNICAL DATA: L-MTWS-32

10.5W
Washer effect
12V DC
860mA
III
Onboard Dimmer PWM 0-100%
97 typ
3000K, 4000K, 5000K
IP30
Alum. Alloy / PC

MICROTRACK WALL WASHER FIXTURE **PHOTOMETRICS**







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PHOTO 12



MICROMONO STANDALONE FIXTURES

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



Onboard dimmer





6W Standalone

Spotlight





3W - with Onboard dimmer

L-MFSA-22 6W Quadri-Standalone Dimmer

L-MZFSA-22 6W Quadri Zoom Standalone Dimmer

L-MSPS-10

1W - Standalone

Solid Surface

L-MSPS-00 3W - Standalone



L-MSPS-20 L-MSFS-20

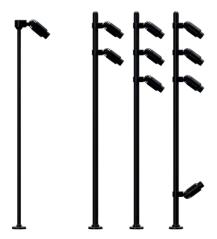


Solid Surface

6W Standalone Solid Surface

6W Quadri Standalone Solid Surface

6W Quadri Zoom Standalone Solid Surface



L-UPL-10-1 StemLight

L-UPL-10-2/3/4 ${\sf StemLight}$



L-MBA-01 TALEA Ledstick Round or Square Corners



MICROMONO STANDALONE FIXTURES

L-MSPS-10



Voltage	For Constant Current	CRI	97	Lens	Glass BK7
Power	1W	Standard	UL - CE	Beam angles	9° to 70°
Input Current	300W 350m A	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	PWM0-100% with remote dimmer	Pan angle	355°	Fixture Color	Black, White or Silver



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L-MTSA-12

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







Voltage	For Constant Current	CRI	97 typ	Lens	Glass BK7
Power	3W	Standard	UL - CE	Beam angles	8° to 56°
Input Current	700-1000mA	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	PWM 0-100% with remote dimmer	Pan angle	355°	Fixture Color	Black, White or Silver





L-MTSA-02

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





L-MSPS-20

	Voltage	For Constant Current Driver	CRI	97 typ	Lens	Glass
	Power	6W	Standard	UL - CE	Beam angles	8° to 55°
	Input Current	165mA	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
	Dimmer	PWM 0-100% with remote dimmer	Pan angle	355°	Fixture Color	Black, White or Silver





L-MTSA-22

Voltage	11V - 24VDC	CRI	97 typ	Lens	Glass BK7
Power	7.2W	Standard	UL - CE	Beam angles	8° to 55°
Input Current	650mA - 330m A	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	PWM 0-100% with onboard dimmer	Pan angle	355°	Fixture Color	Black, White and Silver





L-MSFS-22

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



L-MFSA-22

Voltage	11V - 24VDC	CRI	97 typ	Lens	Glass BK7
Power	6W	Standard	UL - CE	Beam angles	55°
Input Current	650mA - 330m A	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	PWM 0-100% with onboard dimmer	Pan angle	355°	Fixture Color	Black, White and Silver





L-MSZFS-20

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



L-MZFSA-22

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



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 ad justable heights

Focusable from 10° to 60°

Standard height: 30cm



TECHNICAL DATA: L-UPL-10-1

Voltage/Wattage	For Constant Current
Input Current	300-350mA Constant Current (connect in series)
Beam angles	9° to 70°
Dimmable options	Compatible PWM with external dimmer
CRI	97 typ
ССТ	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 ajustable 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
Input Current	600-700mA/900-1050mA/1200-1400mA
Beam angles	9° to 70°
Dimmable options	Compatible PWM with external dimmer
CRI	97 typ
ССТ	3000K, 4000K, 5000K
Main materials	Aluminum Alloy / PC
Color Definition	Black, White, Silver, Gold
Certificates	UL-CE
Warranty	5 years
Protection	IP30



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:

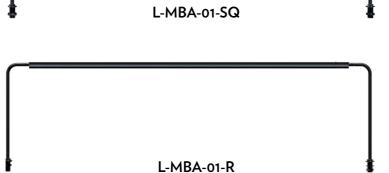
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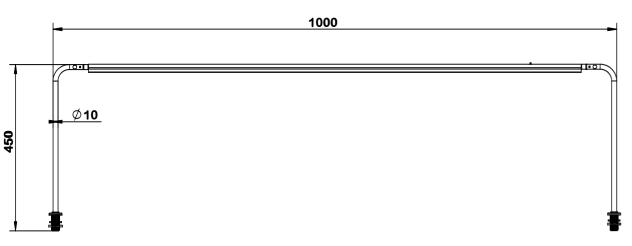
Available in 1M, 1.5M and 2M in length	
12V input with 15, 23 and 30W output	
CCT available in 3000K, 4000K, or 5000K	
Standard color is Black Anodized	
Adjustable 30-120* degree clean cut Beamspread	
Adjustable height 5cm - 2m	
Clean cut Beamspread	
Adjustable height 5cm - 2m	

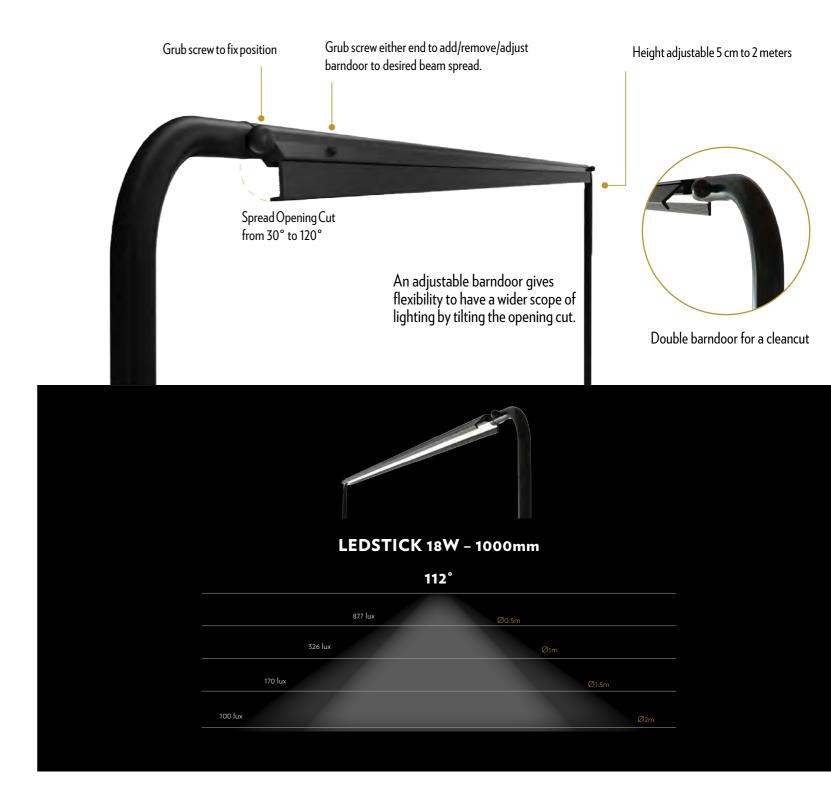
Two options: Round or Square corners

TECHNICAL DATA: L-MBA-01

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







LUXAM | Lighting for Museums LUXAM | Lighting for Museums 37

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LUXAM



MICROLED SYSTEM ORDER CODES

LUXAM



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



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

DESCRIPTION

REFERENCE

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 3.8 W/12 VDC, dimmer, 3000 K, White
L-MTSA-02-W-4K	Micro Spot Standalone 3.8 W/12 VDC, dimmer, 4000 K, White
L-MTSA-02-W-5K	Micro Spot Standalone 3.8 W/12 VDC, dimmer, 5000 K, White
L-MTSA-02-S-3K	Micro Spot Standalone 3.8W/12VDC, dimmer, 3000K, Silver
L-MTSA-02-S-4K	Micro Spot Standalone 3.8 W/12 VDC, dimmer, 4000 K, 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 Lense for 3.8W Micro Spot, Black
L-MTAR-01-W	Architecture Lense for 3.8W Micro Spot, White
L-MTAR-01-S	Architecture Lense for 3.8W Micro Spot, Silver

BOOSTER



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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

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

DESCRIPTION

QUADRI 6W STANDALONE



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**



QUADRI ZOOM FRAMING



QUADRI ZOOM STANDALONE



QUADRI ZOOM 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

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

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

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
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L-MTLED-22-B	LED Engine 6W, 3000K/4000K, Black
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ZOOM LENS 6W



REFERENCE	DESCRIPTION	
I -MT7O-22-R	Zoom Lens 6W Black	

FRAMING SHUTTER LENS **PLUS ADAPTER**





REFERENCE	DESCRIPTION
L-MTQAD	Framing shutter lens + Adapter

LUXAM | Lighting for Museums LUXAM | Lighting for Museums 47

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

BARNDOOR 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

REFERENCE

L-MTEC-01-B

L-MTEC-01-W

L-MTEC-01-S

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

DESCRIPTION

LIVE END CONNECTOR



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

Live end connector for H-shape Track, Black

Live end connector for H-shape Track, White

Live end 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

50



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

O-SHAPE MICRO TRACK

VERTICAL O TRACK



LIVE END CONNECTOR



STRAIGHT JUNCTION CONNECTOR



90° CORNER JUNCTION



END CAP



FLANGE



CACHE



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

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

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

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

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

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



LIVE END CONNECTOR



STRAIGHT JUNCTION CONNECTOR



90° CORNER JUNCTION



END CAP



CACHE



REFERENCE	NCE 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	

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	

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

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

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

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





First Spacesuit

tiel Amstrong were this spocesuit when he mode his historic "one small step" onto the surface of the Moon on July 20, 1950. Sefore and offer his two-ond-o-half shour larn wolk, he work it inside the lunar models, but without the special gold was beliefe and with different gloves.

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

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ONE SM LEAP FOR MANKING

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.



PHOTO 23

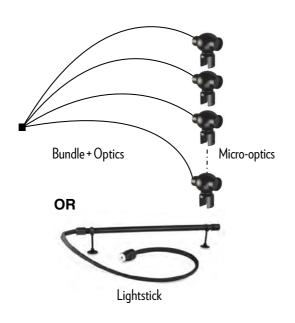
HOW THE LUXAM FIBER SYSTEM WORKS

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:

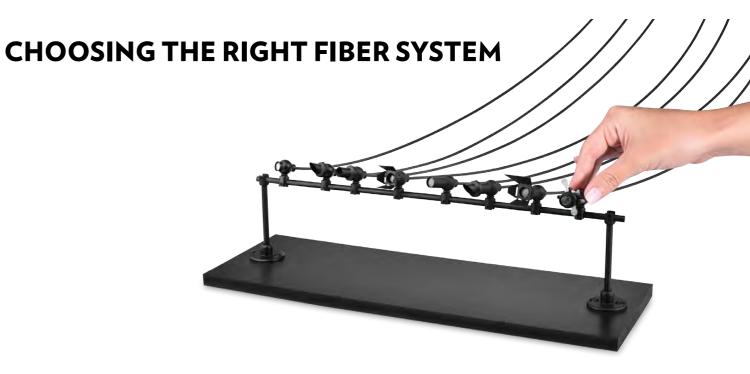
- 1. What type of lighting would be best: Spotlights or Lightsticks Optics will offer a highly precise and contrasted lighting especially useful to illuminate rounded and 3D objects. Lightsticks will offer an even linear lighting best suited to books and texts.
- 2. The Illuminator We currently have 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)











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	$2.0 \text{mm} \times 16 \text{ tails } \times 3 \text{ meters, to common connector}$
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..

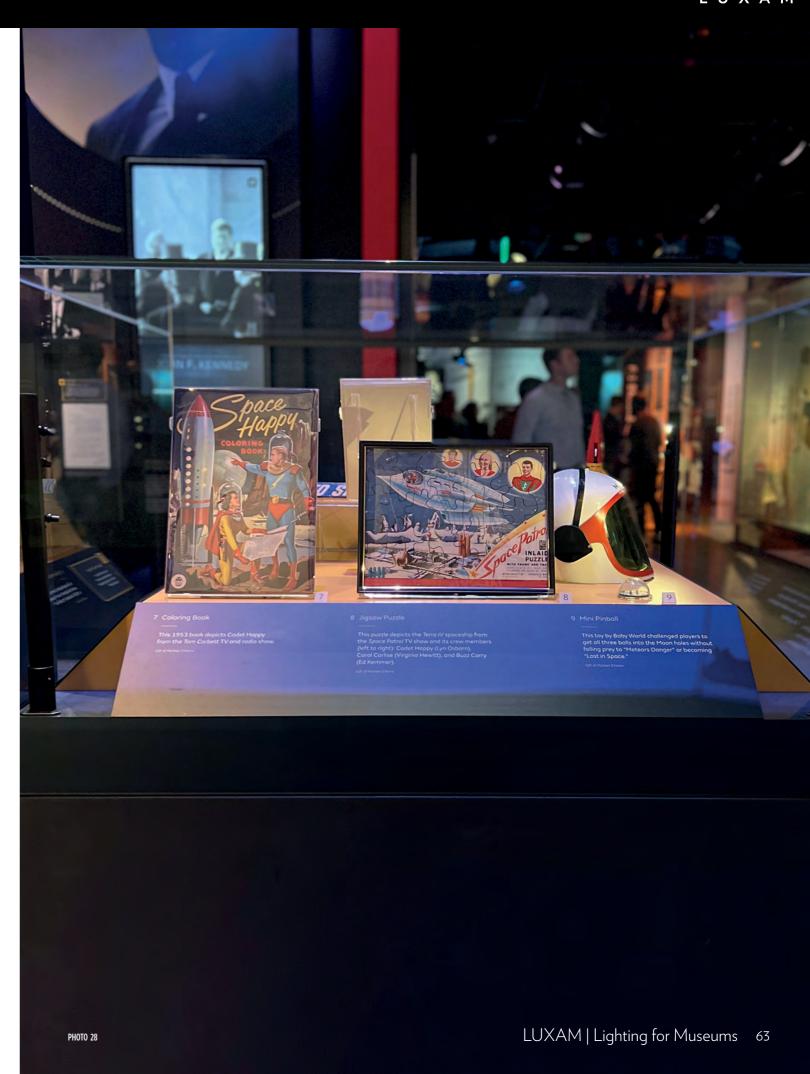


FIBER OPTIC MICROTOWERS

Self supported fiber optic Micro Towers are for most vertical applications.

This flexible system uses pins that can be adjusted to provided 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.





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
20W 3000k 13	328	332	148	83	53
30W 3000k 15	536	384	171	96	61
45W 3000k 19	960	490	218	123	78

Distance (m)		Lighting Spot Diameter (m)
0.5		0.04
1		0.09
1.5		0.13
2	B	0.17
2.5		0.22

55-207_55° Open Intensity Level (lux)

Illuminator/					
Distance (m)	0.5	1m	1.5m	2m	2.5m
20W 3000k	108	27	12	7	4
30W 3000k	120	30	13	8	5
45W 3000k	156	39	17	10	6

Distance (m)	Lighting Spot Diameter (m)
0.5	0.71
1	1.43
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
20W 3000k	1140	285	127	71	46
30W 3000k	1284	321	143	80	51
45W 3000k	1736	434	193	109	69

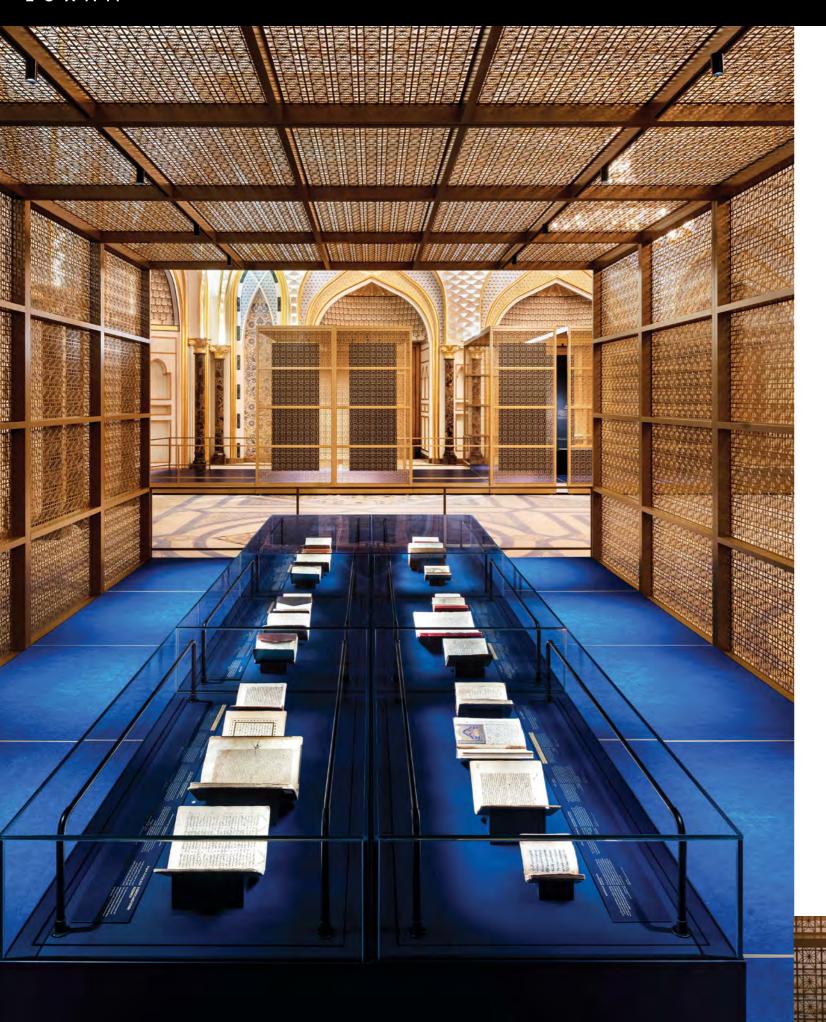
Distance (m)	Lighting Spot Diameter (m)
0.5	0.9
1	0.18
1.5	0.26
2	0.35
2.5	0.44

55-210_65° Open Intensity Level (lux)

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

Distance (m)	Spot Diameter (m)
0.5	1.07
1	2.14
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°



C-CLAMP WITH 65-103 BASE

• C-clamp with surface mount 16mm – 65-502

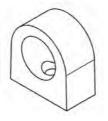
• C-clamp with surface mount 20mm - 65-503

• C-clamp with surface mount 24mm - 65-504

 $16mm\,Light stick\,has\,40\%\,less\,light\,because\,of\,the\,turn\,of\,the\,fiber.$

ELBOW GANTRY WITH FLANGE

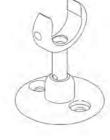
90° elbow for 16mm and 20mm for gantry and thrust mounting in table cases, vitrines, and wall cases. To specify stick lenght for elbows - provide drawing.



CLAM SHELL

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

VERTICAL FLANGE



STEMS

• Stems 15, 30, 60, 75, and 90 mm

C-CLAMP SIZE

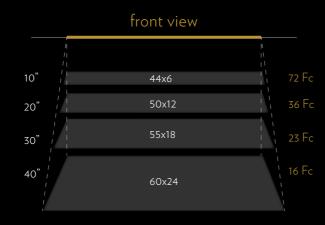
- Code x stem length, mm
- Order Code example: 65-502-15

LIGHTSTICK PHOTOMETRICS

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

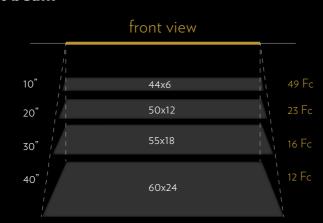
30° light beam





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+
ССТ	3000, 3500, 4000
Dimmer function	100% to black, local potentiometer
Operating temp	+5° <ta<40°c< th=""></ta<40°c<>
Weigh	1.4kgs / 3lbs
Dimensions	199.5mm x 131.7mm x 98.5mm
Material	Alum. Alloy / PC

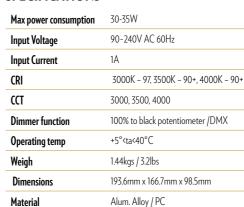
PRODUCT CODES

CCT 3000K	10-200-B P-3K
CCT 4000K	10-200-B P-4K
CCT 3500K	10-200-BP-3.5K
	24



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

SPECIFICATIONS



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+
ССТ	3000K
Dimmer function	Yes
Operating temp	Natural Convection
Weigh	1.24kgs / 2.75lbs
Dimensions	152mm x 81mm x 125mm
Material	Alum. Alloy / PC
CCT Dimmer function Operating temp Weigh Dimensions	3000K Yes Natural Convection 1.24kgs / 2.75lbs 152mm x 81mm x 125mm

PRODUCT CODES

CCT 3000K 15-12





15-135 / 30W SPECIFICATIONS

Max power consumption	30W
Input voltage	110-220 V
Input current	1A
CRI	3000K-98 4000K-90
ССТ	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



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: $+5^{\circ}$ to 40° C

Use: For Indoor use only, IP20

Dimensions: 440mm*155mm*65mm





15-145 / 45W SPECIFICATIONS

Max power consumption	45W
Input voltage	110-220 V
Input current	1A
CRI	3000K-97
ССТ	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 15-145-4K





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

Elliptic edge blade

55-411



MICRO-RECESSED



50-050

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



50-055

01,22" (3mm) adustable 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)

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



65-110-100

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

PHOTO CREDITS

Museum: Peary-MacMillan Arctic Museum | Bowdoin College Design and production : GSM Project Fabrication : Kubik Maltbie Lighting Design: Lightfactor Photography: Catherine Forand

Table of Contents

Museum: Australian Museum Lighting Designer MEGS Lighting Case Fabricator: Goppion Exhibition Designer: Aaron Maestri Heritage Architect: Design 5 Photography Credit: Rosie Hastie

Photo 3

Museum: Peary-MacMillan Arctic Museum | Bowdoin College Design and production : GSM Project Fabrication : Kubik Maltbie Lighting Design: Lightfactor Photography: Catherine Forand

Photo 4

Exhibition Museum: Musée de la Toile de Jouv

Photo 5

Museum: Library of Congress Lighting Designers: Marc Roman and Dave Jung Photo Credit: Shawn Miller

Photo 6

Fames Institute Gallery Exhibit designer: Standard Issue Lighting designer: Grace Mennell Photographer: Nicholas Calcott

Photo 7

Museum: American Museum of Natural History Lighting Designer: Renfro Design Group Case Fabricator: ClickNetherfield Exhibit Designer: Ralph Appelbaum Associates Exhibit Fabricator: Kubik Maltbie Photo Credit:© Frank Oudeman/OTTO

Exhibition Museum: University of Arizona Museum of Art Exhibition Fabricator: Design and Production Exhibition Photo Credit: Logan Havens Exhibition Lighting Designer: Technical Artistry -Kyle Chenulis Case Fabricator: Meyvaer

Photo 9

Museum: Academy Museum of Motion Pictures Exhibition Case Fabricator: Zone Display Cases Photo: Ioshua White IWPictures com Exhibition Lighting Designer: Available Light Exhibition Lighting Integrator: Clearwing System

Credits: Museum: National Museum of American History Exhibit Designer: Reich+Petch Exhibit Fabricator: Cinnabar Lighting Designer: Available Light Lighting integrator: EOS Lightmedia Case Fabricators: Meyvaert Multimedia: Cortina Productions Ewing Cole Photo Credit: Jay Rosenblatt Photography

Photo 11

Museum: National Music Museum Exhibit Design: Luci Creative Exhibit Fabrication: Ravenswood Studio Inc. Casework: Click Netherfield Showcase and Reader Rail Lighting Focus: LUXAM Media Producer: Northern Light Productions AV Integration: Electrosonic Photo: Courtesy of Jaron Keener (edited)

Photo 12

Credits: Original Tibetan Cultural Museum Photo Credit: Mathias Guillin

Photo 13

Museum: The Metropolitan Museum of Art Exhibition Fabricator: Dimensional Worldwide Exhibition Graphic Designer: Abby Chen (Met Staff) Exhibition Curators: Hannah Beachler. Michelle Commander, Sarah F. Lawrence (Met Staff), Ian Alteveer (Met Staff) Exhibition Lighting Designer: Amy Nelson (Met Staff) Exhibition Designer: Hannah Beachler, Fabiana Weinberg (Met Staff) Exhibition Production Artist: Sarah Parke (Met Staff)

Photo Credit: The Metropolitan Museum of Art

Photo 14

Project Manager: Vincent Nocelli Lighting designer: Valérie Bodier

Photo 15

Credits: Sanxinadui Museum Photo Credit- Mathias Guillin

Photo 16

Museum: Qatar Museums Lighting Designers: LightEmotion Photo Credit: Nelson Garrido Curated by: Olivier Gabet Designed by: Nathalie Crinière

Photo 17

Museum: Philipse Manor Hall Exhibit Designer: Amaze Design Exhibit Fabricator: Split Rock Studios Lighting Designer: Christensen Lighting Case Manufacturer: Zone Display Cases Photo Credit: Gilbertson Photography

Photo 18, 19, 20

Museum: Peranakan Museum Lighting Designer: Lightemotion Exhibit Fabricator: Kingsmen Photo Credit: Koh Sze Kiat Case Fabricator - Meyvaert

Photo 21

Exhibition Museum: University of Arizona Museum of Art Exhibition Fabricator: Design and Production Exhibition Photo Credit: Logan Havens Exhibition Lighting Designer: Technical Artistry -Kyle Chepulis Case Fabricator: Meyvaert

Photo 22

Museum: National Air and Space Museum Exhibition Designer: Haley Sharpe Design Exhibit Fabricator: Design and Production Lighting Designer: Abernathy Lighting Display Case Focusing: LUXAM Lighting, LLC Photo Credit: Smithsonian Institution, Jim Preston

Photo 23

Museum: Bavarian National Museum Display case fabritcator: Glasbau REIER Display Case Focusing: LUXAM Lighting, LLC Photography Credit: Raffael Pollak

Photo 24

Museum: Goldkammer Museum Exhibit Fabricator: Barth Lighting Designer: Pfarré Lighting Design Display Case Focusing: LUXAM Lighting, LLC

Photo 25

University of Melbourne- Old Quad Exhibition: Multivocal Exhibition Lighting and Focus: Megs Lighting Photos by Christian Capurro

Photo 26

Museum: Bavarian National Museum Display case fabritcator: Glasbau REIER Display Case Focusing: LUXAM Lighting, LLC Photography Credit: Raffael Pollak

Photo 27

Museum: National Air and Space Museum Exhibition Designer: Haley Sharpe Design Exhibit Fabricator: Design and Production Lighting Designer: Abernathy Lighting Display Case Focusing: Luxam

Photo 28

Museum: National Air and Space Museum Exhibition Designer: Haley Sharpe Design Exhibit Fabricator: Design and Production Lighting Designer: Abernathy Lighting Display Case Focusing: Luxam

Photo 29

Museum: RMO LEIDEN Collection of Derek Content: Rijksmuseum voor Oudheden, Leiden Designer: Anika Ohlerich Lighting designer: Chris Pype licht Graphic design: Esther Devries Showcases: Glascom Film: Scheltens & Abbene Photo Credit: Mike Rink

Photo 30

Museum: Chateau de Versailles Scenography Design: Jerome Dumoux Case Fabrication: Muevo - Museum Evolution Mounting: Aïnu Lighting Focus: Luxam Lighting

Photo 31

Museum- QASR AL WATAN Case Fabricator: Meyvaert Photo Credit: Catalin Marin

Photo 32

Museum: National Museum of African American History and Culture Exhibit Designer: Ralph Appelbaum Associates Exhibit Fabricator: Design and Production Lighting Designer: Fisher Marantz Stone Display Case Focusing: Design and Production Photography: Alan Karchmer, Alex Jamison, Eric Long courtesy of NMAAHC

Photo 33

Musée de la Chasse et de la Nature, Paris Scenography/Museography: Scénos-Associés Display Case Light Focus: LUXAM Lighting, LLC Fondation François Sommer Painting of Dioramas: François Malingrey Photographer: Béatrice Hatala

Photo 34 & 35

Display case focus installation at Versailles and Bavarian Museum

Photo 36

Cover: Museum: National Museum of US Army Exhibit Fabricator: Design and Production Case Fabricator: Meyvaert Lighting Designer: Available Light Exhibition Track and Lighting: LSI Display Case Lighting and Focusing: LUXAM Lighting, Photography Credit: ©2020 Duncan R. Millar / Design and Production Incorporated.

Curators: Dr Tamara Lewit and Dr Caroline Tully, Honorary Fellows, Classics & Archaeology Photo: Courtesy of Melbourne University & Christian Lighting Designer and Focus: MEGS lighting Exhibitor Designer: Hohab Exhibition Design Display cases: European Museum Technologies & Luxam Build: Save Projects

Tiffany case at the LUXES exhibit at the Musée des Art Décoratifs de Paris France Photo credit- Martina O'Shea

REFERENCES

NORTH AMERICA

GIA Institute, CA

Hilllwood Estate Museum, DC

Jim Moran foundation, FL

LSU Museum of Art, LA

Marco Island Museum, FL

Metropolitan Museum of Art, NY

Mt. Vernon Education Center, VA

Museum of American Finance, NY

Museum of Fine Art p Boston, MA

National Air and Space Museum, DC

National Civil War Museum, PA

National Infantry Museum, GA

National Music Museum, SD

National Portrait Gallery, DC

National Postal Museum, DC

Norton Museum of Art, FL

Old Conn. Statehouse, CT

Philipse Manor Hall NY

Peabody Essex Museum, MA

Perfume Passage Foundation,

Philadelphia Museum of Art, PA

Newseum, DC.

New York Historical Society, NY

Mississippi Museum of Natural History, MI

Nantucket Whaling Museum, Nantucket, MA

National Museum of American History, DC

National Museum of American Indians, NY

National Museum of Natural history, DC

National Museum of Natural History, DC

National Museum of the American Indian, DC

National Museum of United States Army, VA

National Museum of Women in the Arts, Washington, DC

Pitts Theology Library Emory University, Atlanta, GA

Mississippi Museum of Natural history, Jackson, MS

National Museum of African American History and Culture, DC

Mariners Museum, VA

National Archives, DC

Knoxville Museum of Art. TN

Jamestown/Yorktown Foundation, VA

Polk County Museum, FL Ronald Regan Presidential Library, CA Academy Museum of Motion Pictures, CA Sandoway Nature Center, Delray, FL Alabama State Archives, Montgomery, AL Smithsonian Libraries, DC American Museum of Natural history, NY Sports Legends Museum - Camden Yards, Baltimore, MD Appomattox Court House Museum, VA The Asia Society, NY Armenian Museum of America, MA The Catholic Museum of America, DC Autry Museum of the West The Cloisters NY Babe Ruth Birthplace, MD The Henry Ford Museum, MI Bank of Canada Museum, ON, Canada The Holy Land attraction, Orlando, FL Boston Fine Art, Boston, MA The Flight Path Museum & Learning Center LAX, CA Carnegie Museum of Natural History, PA The Library of Congress, Washington, DC Carnegie Museum of New Hampshire, NH The Moh Museum Central Synagogue, Manhattan, NY The White House Porcelain Collection, DC Chicago History Museum, IL UArizona Alfie Norville Gem & Mineral Museum, AR Chicago Museum of Science and Industry, Chicago, IL University Conn Ballard Museum of Puppetry, CT Cincinnati Art Museum, OH University of Florida Harn Museum of Asian Art, Gainesville, FL Cleveland Museum of Natural History, OH US Marine Corps Museum VA Collier County Museum, FL US Mint, Philadelphia, PA Cranbrook Institute, MI US Naval Academy - John Paul Jones crypt, Annapolis, MD Crystal Bridges Museum, AR USC - Doheny Library Treasure Room, Los Angeles, CA Dior Exhbit, Brooklyn Museum, NY US Golf Association Museum Emory University, GA Vassar College, NY Fine Arts Museum of San Francisco, CA Virginia Museum of Fine Art, VA First Division Museum at Cantigny, Wheaton, IL Walters Art Museum, Baltimore, MD Ford's Theatre, DC Walt Disney/ France Pavillion Epcot, FL Frazier Historical Arms Museum, Louisville, KY Frick Collection, NY George W. Bush Presidential Library, Dallas, TX Georgia State Capitol Museum, GA

SOUTH AMERICA

Acheological Museum of Piura, Peru Museu Carlos Costa Pinto, Salvador de Bahia, Brasil Museum of Sacred Art, Belem, Brasil Museo de la moda, Santiago, Chile Museo de Bellas Artes, Santiago, Chile

EUROPE

Amsterdam University Library

Archeological museum of Mykenae

Army Museum, Bruxelles Ashmolean Museum ,Oxford Australian Memorial Monash Villers bretonneux, France Blaschka collection, Aquarium, Liége Byzantyne Museum, Athens Carolus Borromeus, Antwerpen, Belgium Faberge and Icon exhibition, Vatican Hasselt Museum, Belgium Diamond museum Antwerpen Belgium Faberge Exhibition, Venaria Reale, Torino Gaasbeck castle, Belgium Historische Museum, Basel Holborn museum Bath UK Katoenatie museum, Antwerpen, Belgium King's Library British Museum, UK La Bibliothèque Nationale, Paris Landesmuseum Emden, Germany Le Musée d'Orsav. Paris Le Musée des Antiquités Nationales de Saint Germain en Lave Manching Kelt Museum, Germany Le Musée Fragonard de Grasse Le Palais de la Découverte, Paris Les Archives Nationales Paris Library Braunschweg, Germany Maison Rouge, Paris MAS, Antwerpen, Belgium National Bavaria Library, Munich, Germany Middelheim Museum, Atwerppen, Belgium Mineralogy Museum, Liban

Musee parfum Fragonard, France Musée Borelli, France Musée de l'Armée, Invalides, France Musée de l'esclavage, Pointe a pitre, Guadeloupe, France Musee de la Chasse, France Musée de la dentelle, Calais, France Musée de la gendarmerie, Melun, France Musée de la Toile de Jouy, France Musée du Louvre, France Musée Delvaux Brussels, Belgium Musée Historique de Strasbourg, France Musée des Beaux Arts. Bruxelles Musée I. Louvain la Neuve Belgium Musée M leuven, Belaium Museum of London Museum of Natural History, Madrid National Archeological Museum of Athens National Archeological Museum of Thessaloniki National Bavaria Museum, Munich, Germany National Museum of Iceland National Museum of Ireland 1916 Order of St John Museum, London, UK Palais Borely Marseille France Palais de Tokyo, Paris, France Palais de Versailles, France Petit Palais, Paris, France Pitt Rivers Museum, Oxford Preston Porcelain Museum, UK Rijks egyptian colllection Leiden Holland RMO Leiden, National Museum of Antiques, Netherlands Royal Library Bruxelles Royal Medieval Textile Museum, Burgos, Spain Saint Peter Babbey, Gent, Belgium Toy Museum, Luxembourg Valencia History Museum, Spain

ASIA

Asian Civilization Museum, Singapore Cartier & Women, Palace Museum, HK Ceramic gallery, Reference Collection, Forbidden city, Beijing Chiang Mai National Museum, Thailand Dior Exhibit, National Museum of Qatar Fireboat Museum, Hong Kong Hubei history Museum, China Hunan Museum, China Indian Heritage Museum, Singapore Inner Mongolia Museum, China Louvre Abu-Dhabi, UAE National Library, Singapore National Library, Singapore National Museum of Singapore Peranakan Museum, Singapore QASR Al Watan - Abu Dhabi, UAF Shenzen Regional Museum, China Shindagha, Dubai The Chariots, The Terra Cotta Museum, Xian, China

OCEANIA

Australia Museum , Sydney , Australia Australian National Maritine Museum He Tohu . Wellington, New Zealand MONA Hobart Tasmania National Gallery of Victoria, Melbourne, Australia State Library of Victoria, Melbourne, Australia The Schrine, Melbourne, Australia TMAG Hohart Tasmania Univerity of Melbourne, Old Quad, Multivocal. Australia

