



LUXAM
Lighting For Museums

MUSEUM LIGHTING

Fiber Optic & LED solutions

UPDATED MARCH 2024

TABLE OF CONTENTS

4 From Cases To Spaces

6 MicroLED Systems

8 MicroLED System

9 MicroTrack Tracks

10 All MicroTrack Fixtures

11 MicroTrack Spotlight Variations

12 MicroTrack Spotlight Fixtures

13 Spotlight Photometrics

14 MicroTrack Spotlight Accessories

15 MicroTrack Accessory Booster

18 MicroTrack Lightbar Fixtures

19 Lightbar Photometrics

20 Quadri Framing Shutter Spotlight

21 Quadri Framing Shutter Photometrics

24 Microtrack Wall Washers

25 MicroTrack Wall Washer Fixture
Photometrics

28 MicroMono Standalone Fixtures

34 MicroMono Standalone Stem Fixtures

36 Talea 10MM Ledstick

40 2023 MicroLED System Order Codes

54 Fiber Optic Systems

56 Introduction to Fiber Optics

58 How the Luxam Fiber System works

59 Choosing the right Fiber System

60 Fiber Bundle Specifications

62 Fiber Optic Microtowers

64 Fiber Micro Optic Photometrics

67 Fiber Optic Lightsticks

68 Lightstick Photometrics

69 LED Illuminators

70 LED Illuminators (Available in Europe)

71 Led Illuminators - Interactive

72 Integrating In Display Cases

73 Installation and Focus

77 Fiber Optic Systems Order Codes

82 Photo Credits

83 References

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



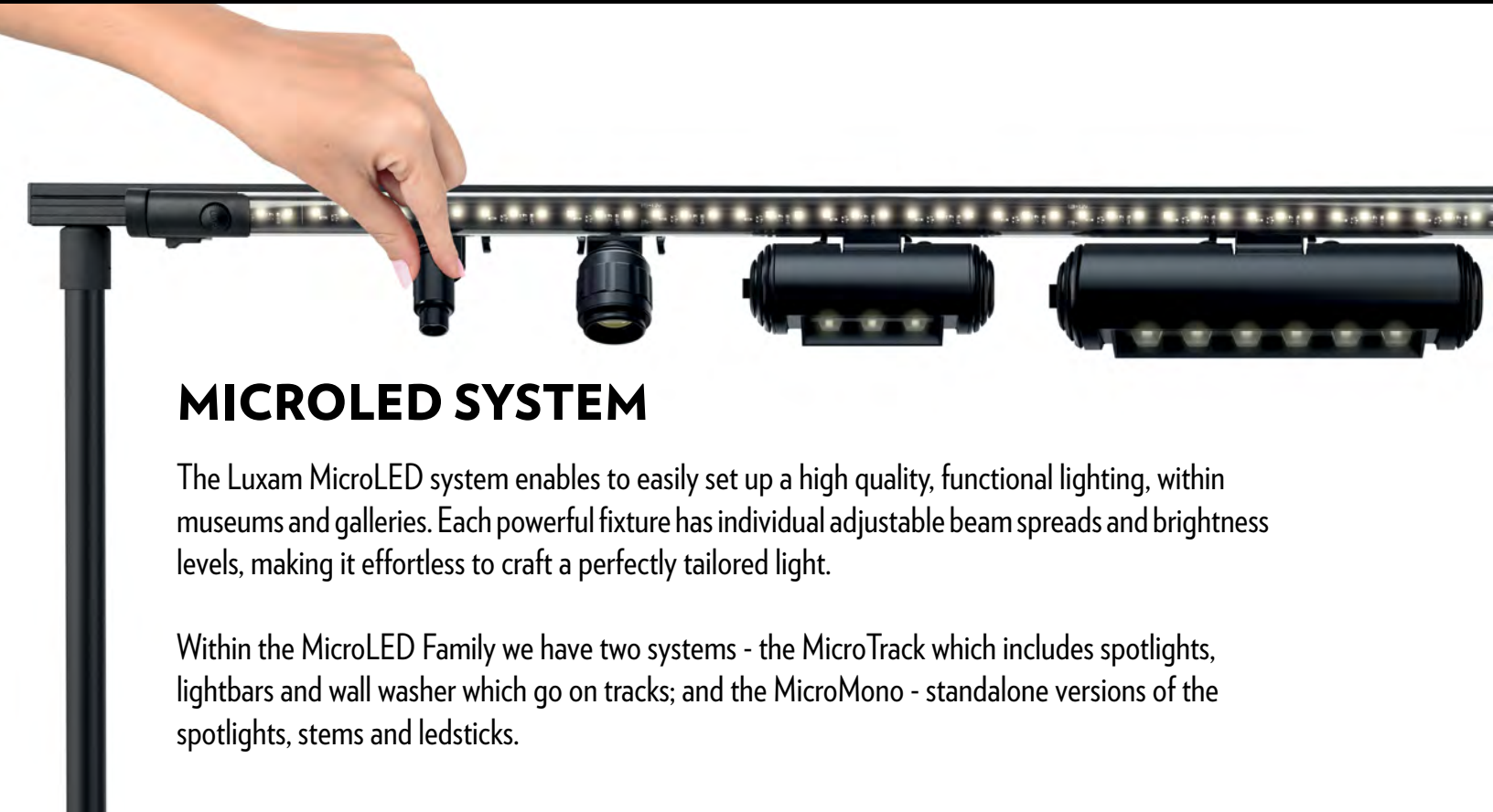
PHOTO 3



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.

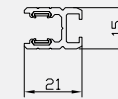
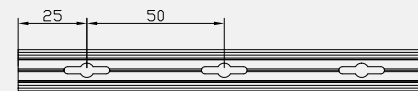
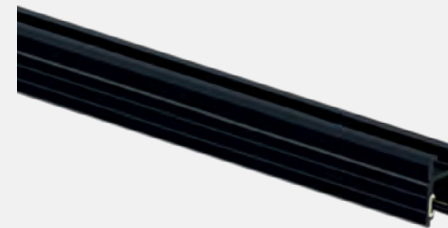
Within the MicroLED Family we have two systems - the MicroTrack which includes spotlights, lightbars and wall washer which go on tracks; and the MicroMono - standalone versions of the spotlights, stems and ledsticks.



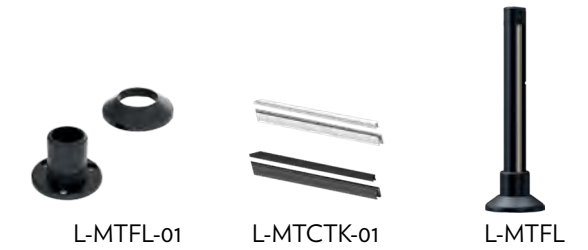
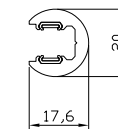
MICROTRACK TRACKS

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

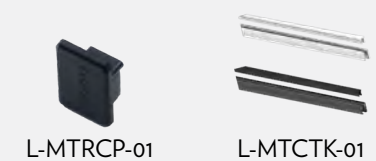
STANDARD H TRACK L-MTHTK



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



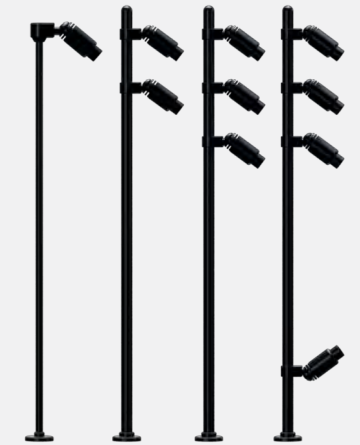
L-MTSP-11
1W Remote Dimmer



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

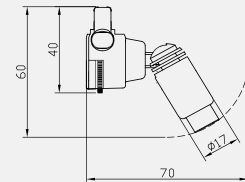


L-MZFSA-22
6W Quadri-Zoom Standalone Dimmer



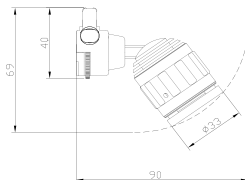
L-MTZFS-22
6W Quadri-Zoom Framing Shutter

MICROTRACK SPOTLIGHT FIXTURES

**L-MTSP-12 1W**

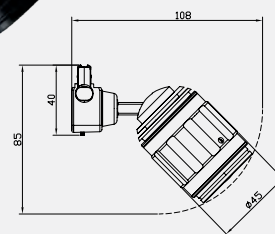
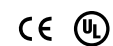
Voltage/wattage	12 VDC / 12W
Input current	100mA
Beam angles	Zoomable 9° to 60°
Luminous flux	98 lm @RA97 / 56 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	On board Dimmer: PWM, range 0-100%
CRI	97 typ
Weight	39g
Main materials	Aluminum

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

9°	<Zoom>		60°
Distances			
Ø0.15m	2048 lux	0.5m	216 lux
Ø0.30m	512 lux	1m	54 lux
Ø0.44m	227 lux	1.5m	24 lux
Ø0.59m	128 lux	2m	13 lux
			Ø0.86m
			Ø1.71
			Ø2.56m
			Ø3.41m

L-MTSP-02 3W

3W with Onboard Dimmer

7°	<Zoom>		60°
Distances			
Ø0.12m	8800 lux	0.5m	844 lux
Ø0.25m	2200 lux	1m	211 lux
Ø0.37m	977 lux	1.5m	93 lux
Ø0.50m	550 lux	2m	52 lux
			Ø0.61m
			Ø1.22m
			Ø1.83m
			Ø2.44m

L-MTSP-22 6W

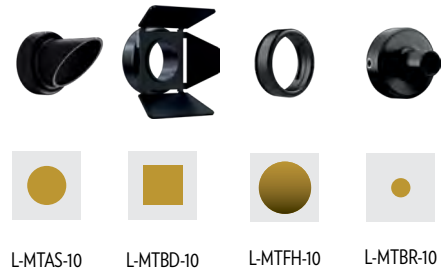
6W with Onboard Dimmer

8°	<Zoom>		55°
Distances			
Ø0.13m	22757 lux	0.5m	1655 lux
Ø0.26m	5690 lux	1m	414 lux
Ø0.39m	2528 lux	1.5m	184 lux
Ø0.51m	1422 lux	2m	103 lux
			Ø0.6m
			Ø1.2
			Ø1.8m
			Ø2.4m

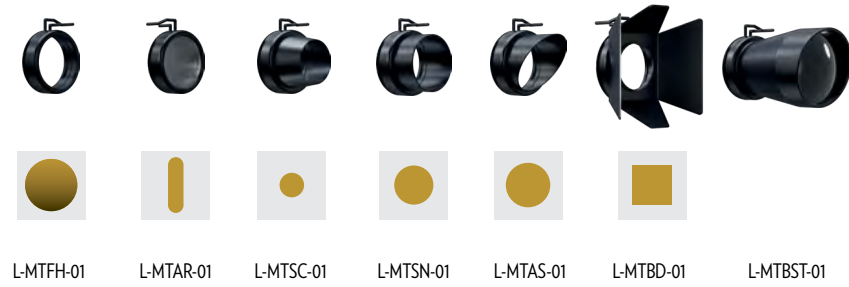
MICROTRACK SPOTLIGHT ACCESSORIES



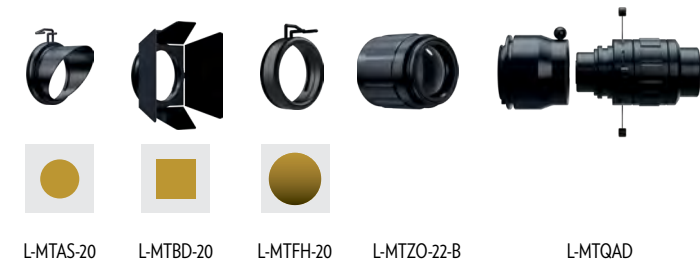
L-MTSP-12 1W



L-MTSP-02 3W



L-MTSP-22 6W

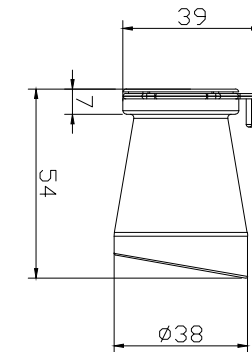
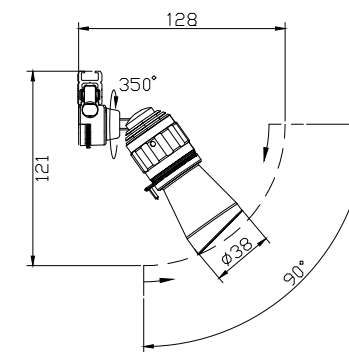


MICROTRACK ACCESSORY BOOSTER

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)	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



Dimmer Switch
0-100%

50°
Fully compatible with all MicroTrack systems
Available with Clear or Frosted Filters
Onboard Dimmer and Tilt function

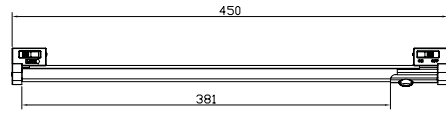


The LightBar can be used alone or with other MicroTrack fixtures to provide the desired effect - wash and spot.

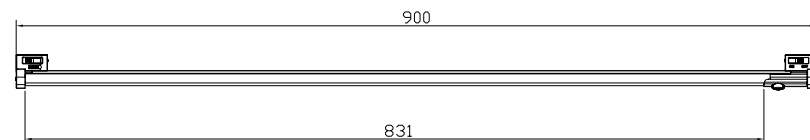
The 1W, 3W, and the 6W MicroTrack heads can be combined together with the Lightbar on the same track. All have the ability to be individually dimmed, creating a highly functional system.



L-MTBA-01-B/W-45



L-MTBA-01-B/W-90



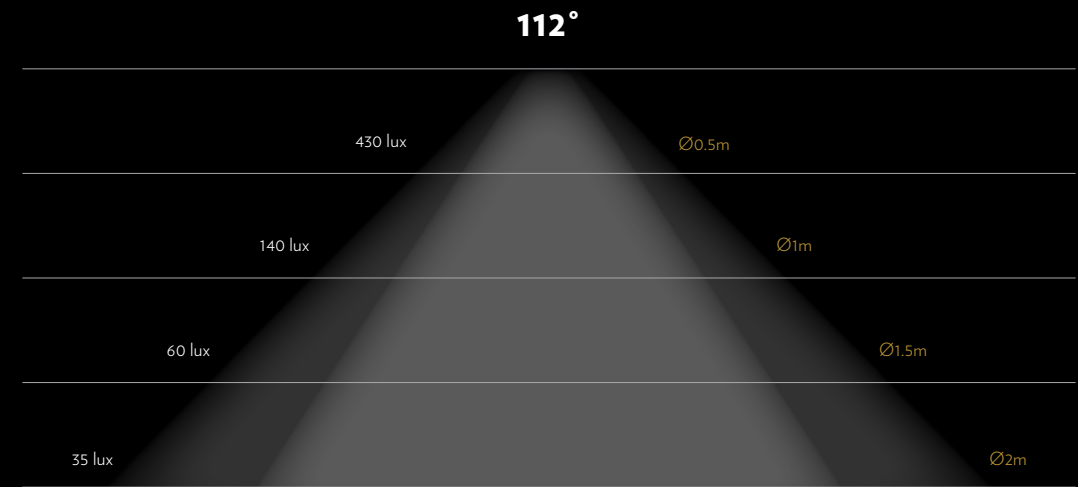
TECHNICAL DATA: L-MTBA-01

Power Input	7W/450mm// 15W/900mm-Voltage:12VDC	Filter	Clear or frosted	Distance	1m, 2m
Control	On board Dimmer: PWM, range 0-100%	Rotation angle	0-50°	L-MTBA-01-B/W-45	80 lux, 20 lux
LED	Smart Eco	Body	Aluminum / PC	L-MTBA-01-B/W-90	140 lux, 35 lux
CRI	97+	Rating	IP30		
CCT available	3000K, 4000K, 5000K	Dimensions	450-900*27*38 (mm)		



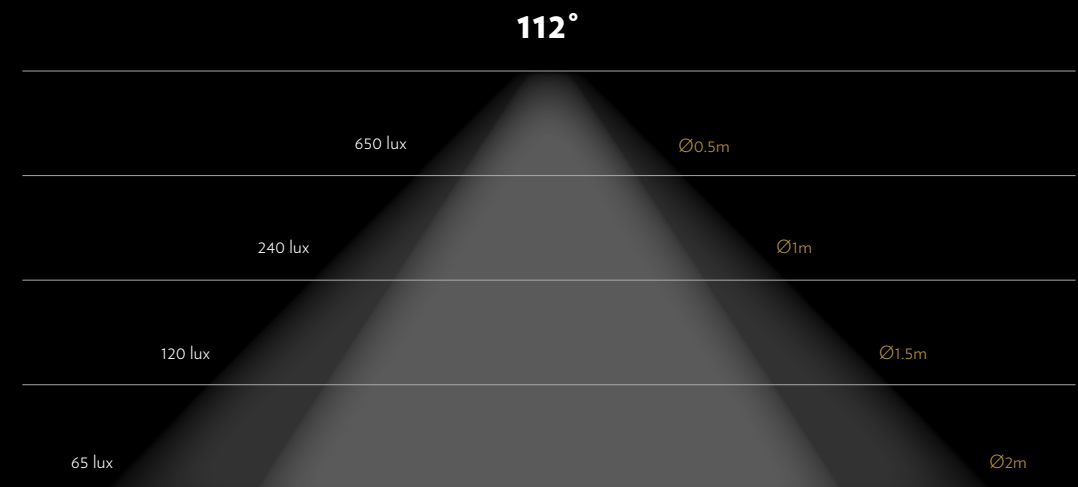
LIGHTBAR PHOTOMETRICS

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



Wir bräuchten von dieser und den folgenden Seiten das Original-DruckPDF. Oder die Bilder die in der Datei platziert sind.

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



QUADRI FRAMING SHUTTER SPOTLIGHT

L-MTFS-22 6W



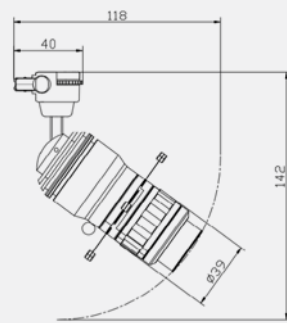
L-MTFS-22
6W - Quadri Framing Shutter Spotlight



L-MTZFS-22 6W

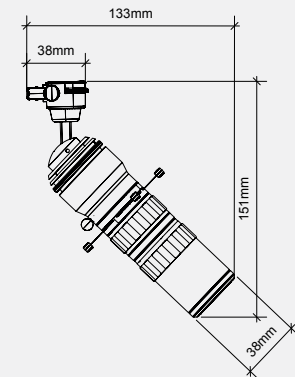


L-MTZFS-22
6W - Quadri Zoom Framing Shutter Spotlight



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

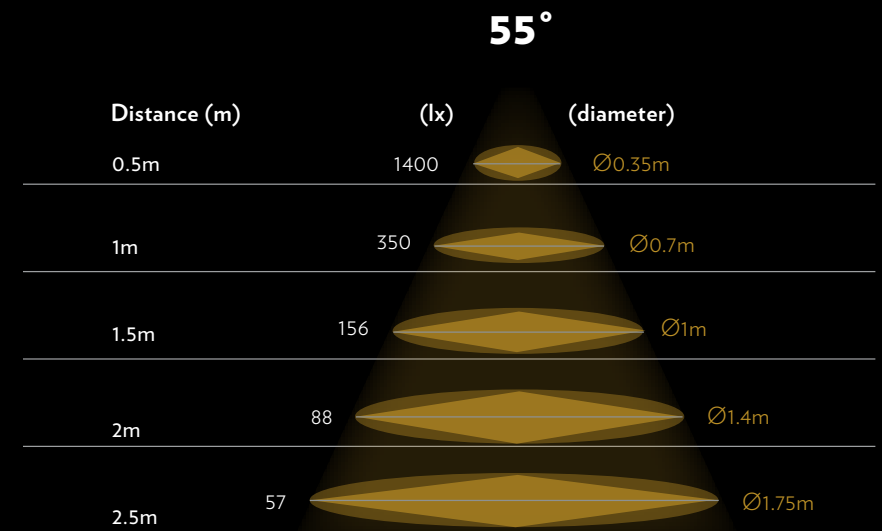


TECHNICAL DATA: L-MTZFS-22

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

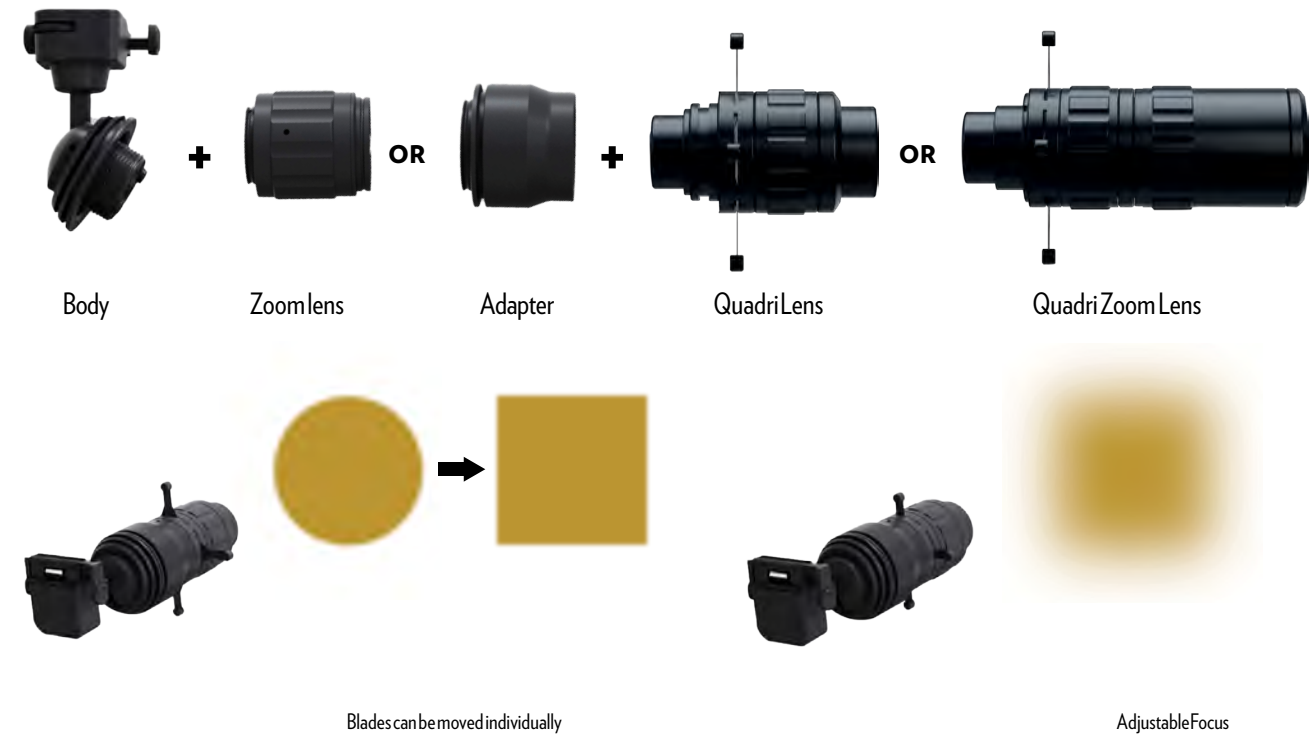


L-MTZFS-22 6W

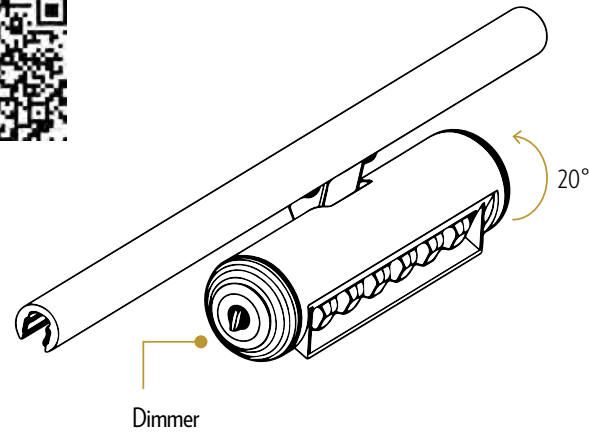


The Quadri L-MTFS-22 and L-MTZFS-22 are Framing Shutter spotlights and work with all our MicroLED tracks.

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

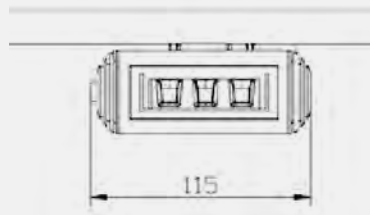
Available in Black or White

Onboard dimmer

Barndoors available for both:



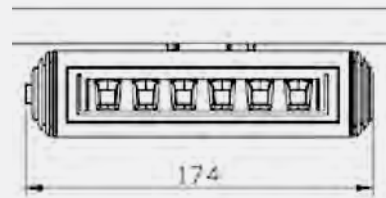
L-MTWS-22 5W



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

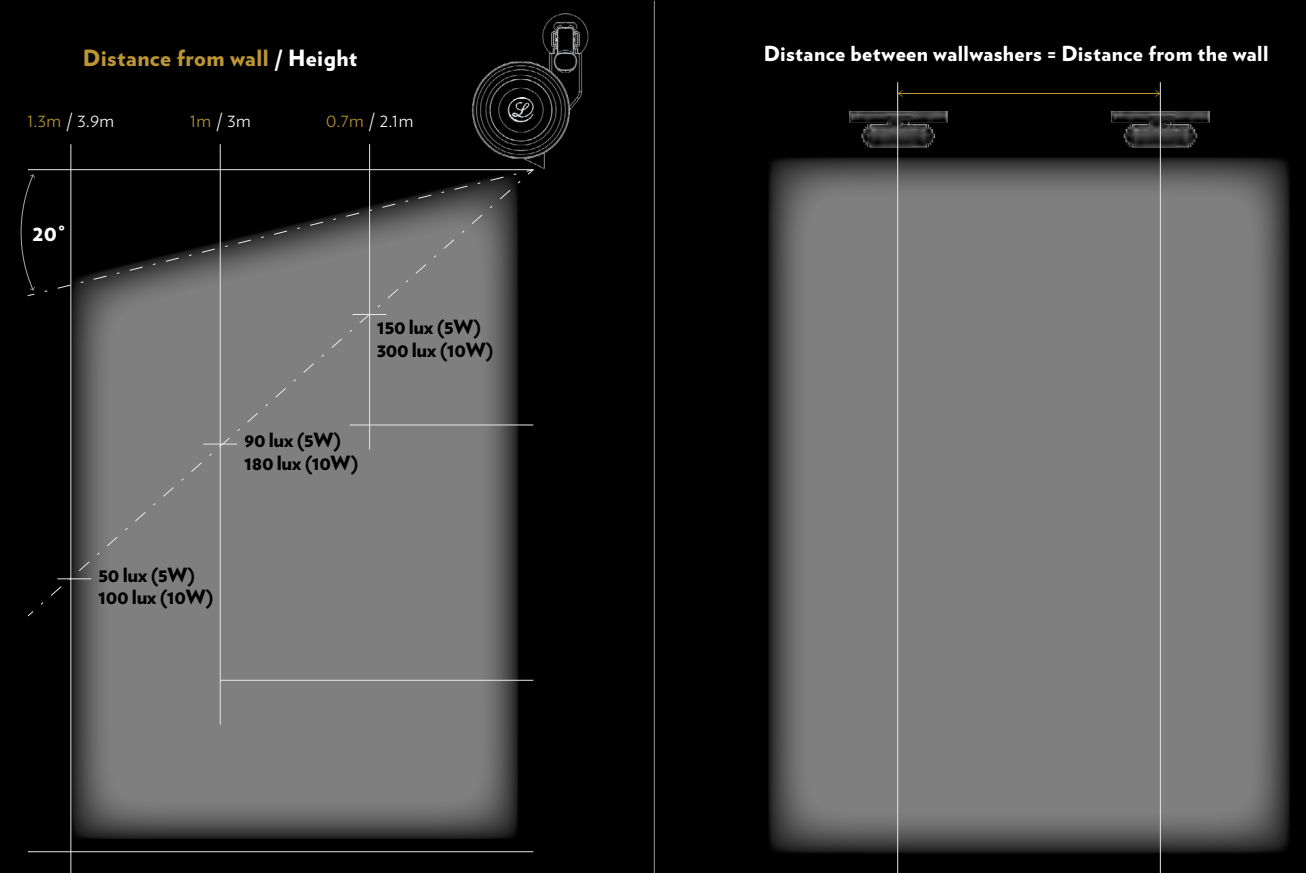
L-MTWS-32 10W



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

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



L-MSPS-00

Voltage	For Constant Current Driver 2.8V DC output voltage minimum	CRI	97 typ	Lens	Glass BK7
Power	3W	Standard	UL - CE	Beam angles	8° to 56°
Input Current	700-1000mA Constant Current (connect in series)	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-MSPS-20

Voltage	For Constant Current Driver 36.2V DC output voltage minimum	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	Dimmable with PWM driver	Pan angle	355°	Fixture Color	Black, White or 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 PWM driver	Pan angle	355°	Fixture Color	Black, White and Silver



L-MSZFS-20

Voltage	For Constant Current Driver 36V DC output voltage minimum	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 PWM driver	Pan angle	355°	Fixture Color	Black, White or Silver



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	On board Dimmer: PWM, range 0-100%	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	On board Dimmer: PWM, range 0-100%	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 - 330mA	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	On board Dimmer: PWM, range 0-100%	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 - 330mA	Tilt angle	90°	Light Color	3000K, 4000K, 5000K
Dimmer	On board Dimmer: PWM, range 0-100%	Pan angle	355°/90°	Fixture Color	Black, White and 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	On board Dimmer: PWM, range 0-100%	Pan angle	355°	Fixture Color	Black, White and Silver



PHOTO 14



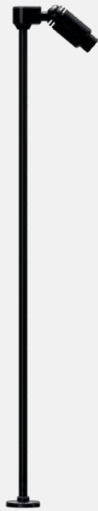
PHOTO 15



PHOTO 16

MICROMONO STANDALONE STEM FIXTURES

L-UPL-10-1 STEM1



Stem 1 comes with a 6mm rod with adjustable heights

FEATURES:

- STEM1 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 PWM 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 PWM 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

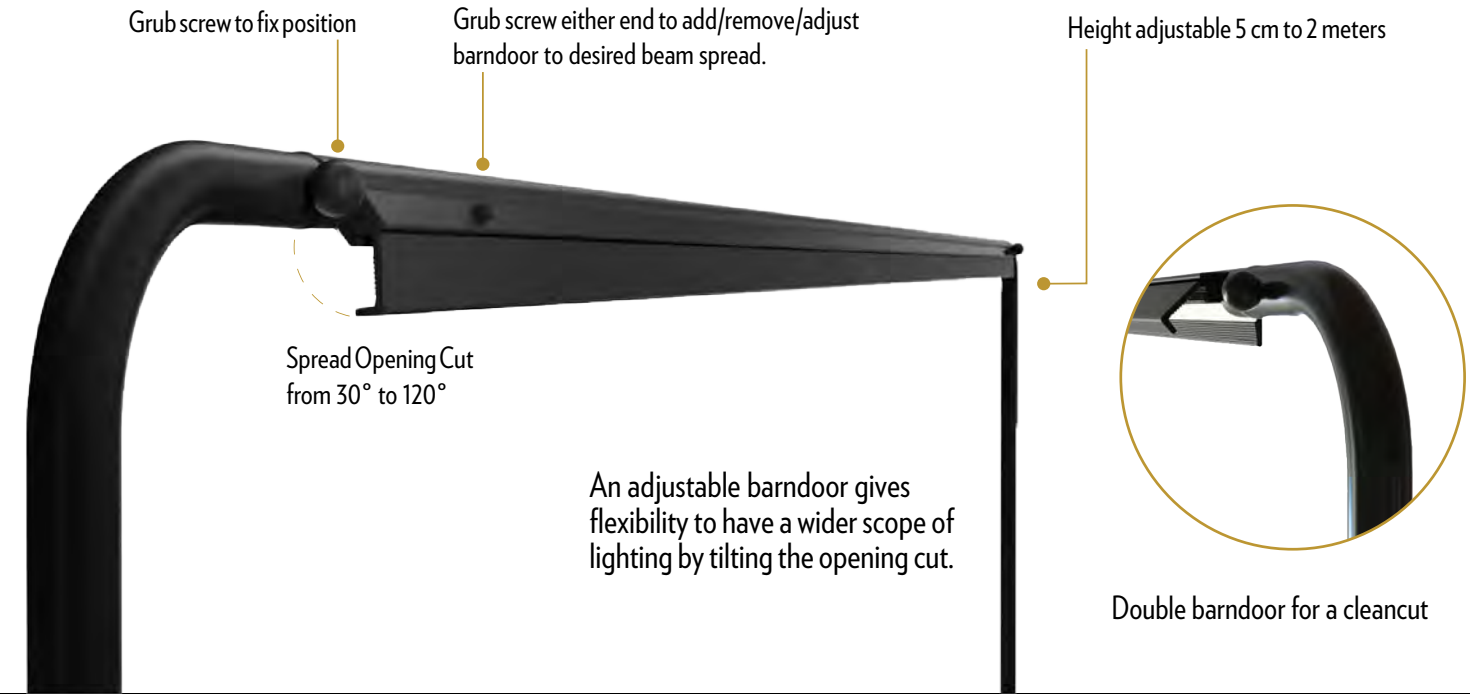
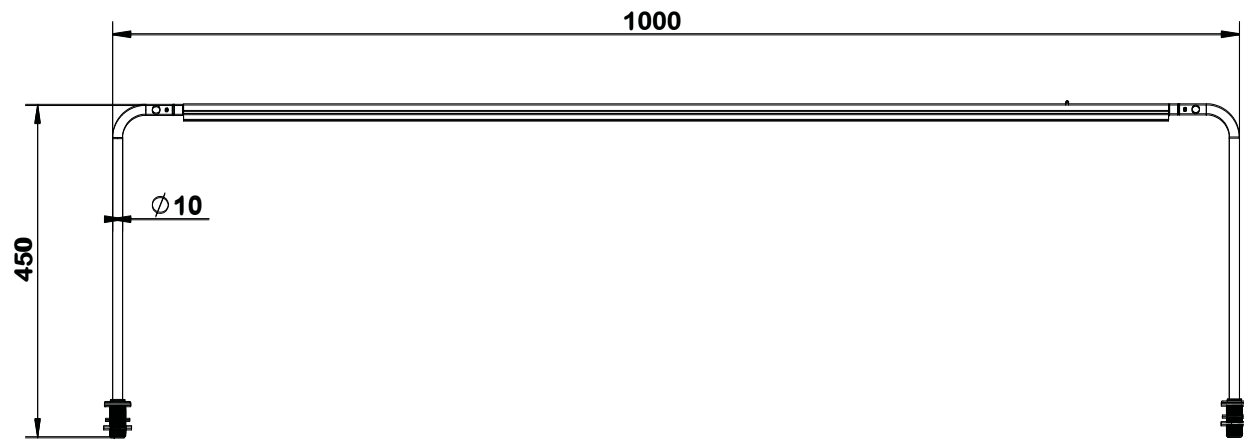




PHOTO 19



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

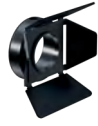
MICROSPOT STANDALONE 1W DIMMER



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 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



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



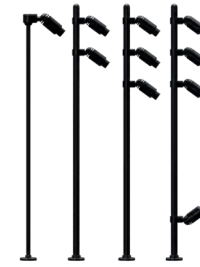
REFERENCE	DESCRIPTION
L-MTWSB-22	Barndoor for L-MTWS-22, Black
L-MTWSB-32	Barndoor for L-MTWS-32, Black
L-MTWSW-22	Barndoor for L-MTWS-22, White
L-MTWSW-32	Barndoor for L-MTWS-32, White

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



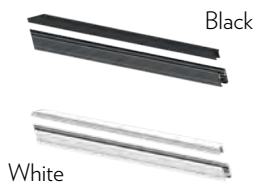
REFERENCE	DESCRIPTION
L-MTFCJ-01-B	90° inside-slot Flat connector for H-shape Track

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

White

O-SHAPE MICRO TRACK

VERTICAL O TRACK



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

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



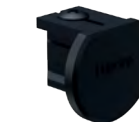
REFERENCE	DESCRIPTION
L-MTOSJ-01-B	Straight junction connector for O-shape Track, Black
L-MTOSJ-01-W	Straight junction connector for O-shape Track, White
L-MTOSJ-01-S	Straight junction connector for O-shape Track, Silver

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

Black

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

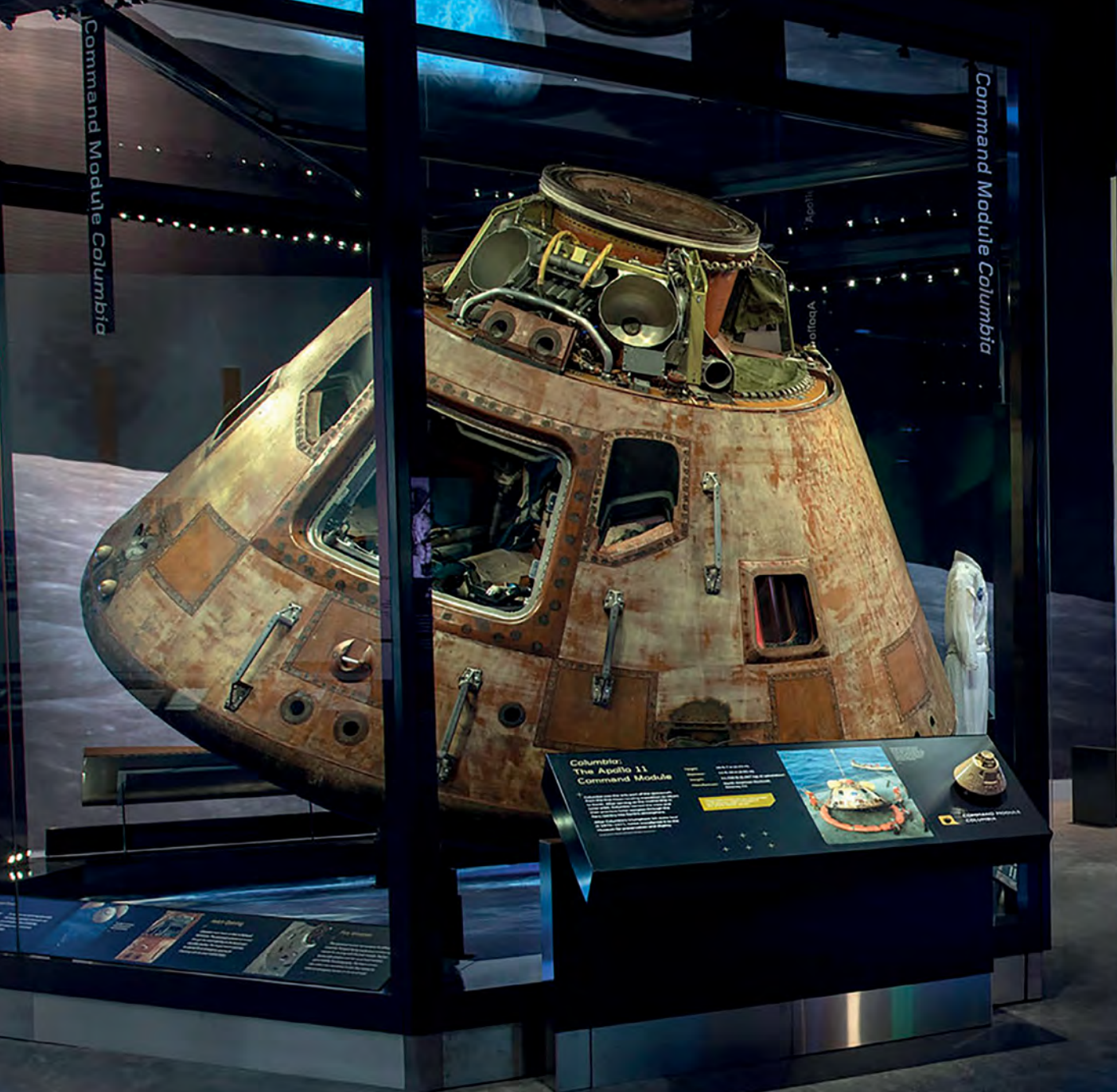


REFERENCES	PRODUCT DESCRIPTION
L-CT-DMX-RDM-1-3W-6CH	6 CH Driver
L-CT-DMX-RDM-6W-6CH CONTROL	6 CH Driver Control



PHOTO 21

FIBER OPTIC SYSTEMS



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 spacecraft. It provided or protected him from temperature extremes, radiation, and high-speed meteoric particles and allowed him to communicate with others. The A-7L was the seventh version of the Apollo suit built by G.E. Ingersoll & Company. It is named with Armstrong's lunar exploration was essential 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

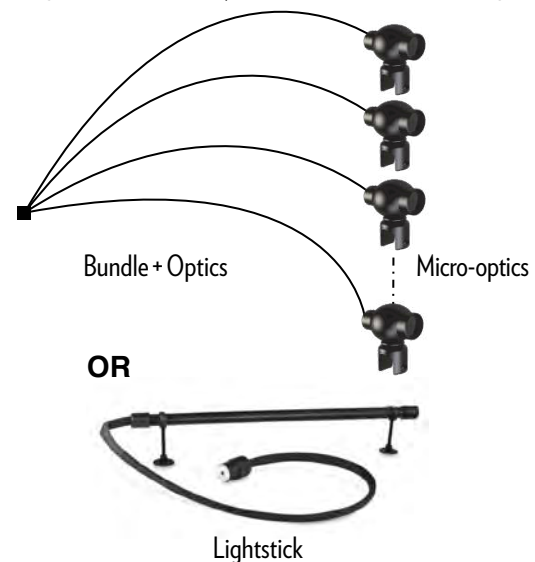
The Fiber system is very simple and has 3-4 elements to consider depending on the system chosen. Each system is individually chosen and manufactured depending on the needs of the display cases and the artifacts housed within them.

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

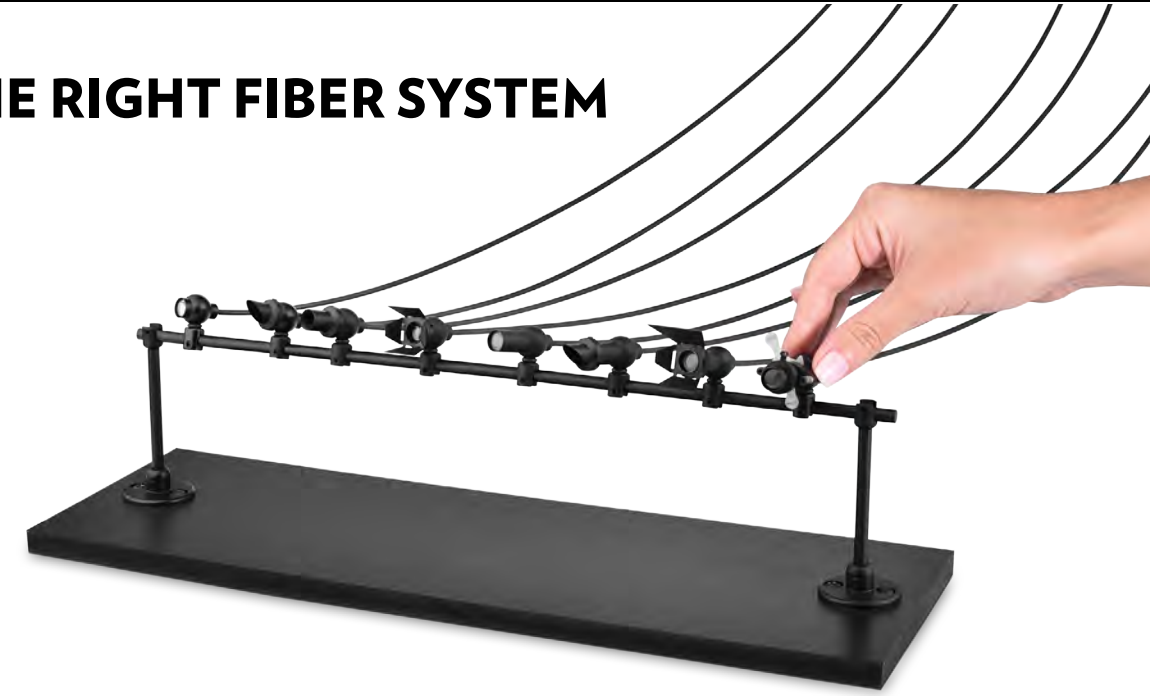
1. What type of lighting would be best: Spotlights or Lightsticks
Optics will offer a highly precise and contrasted lighting especially useful to illuminate rounded and 3D objects. Lightsticks will offer an even linear lighting best suited to books and texts.
2. The Illuminator - We currently have 7 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 lightstick options. (More info in the following pages)



Illuminator



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 tails, 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

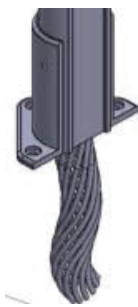
Unique triangular mount to fit tight corners

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

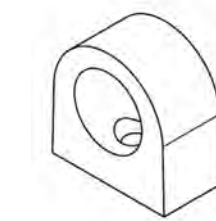
Lightstick Diameter	20mm (standard)	16mm	10mm
Lightstick length max	Up to 2.5m	Up to 1.95m	Up to 0.5m
Tail length	Up to 5m	Up to 5m	Up to 5m
Beam Angle Options	30° / 60° / 90°	30° / 60° / 90°	60°



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.



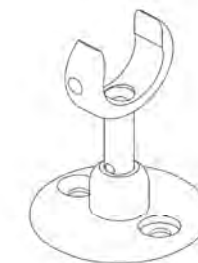
CLAM SHELL

- 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

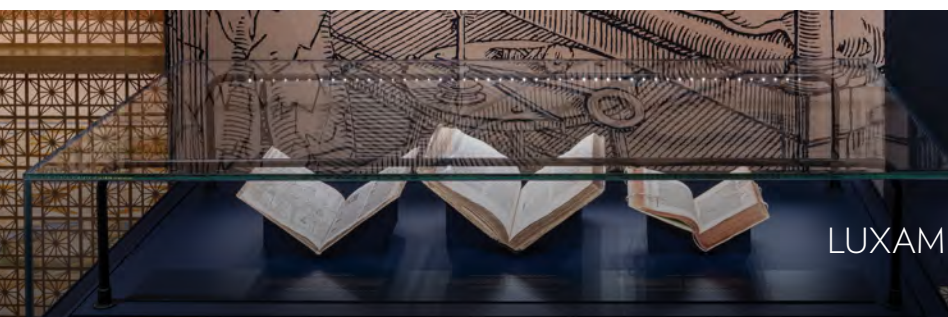
- C-clamp with surface mount 16mm - 65-502
- C-clamp with surface mount 20mm - 65-503
- C-clamp with surface mount 24mm - 65-504

STEMS

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

C-CLAMP SIZE

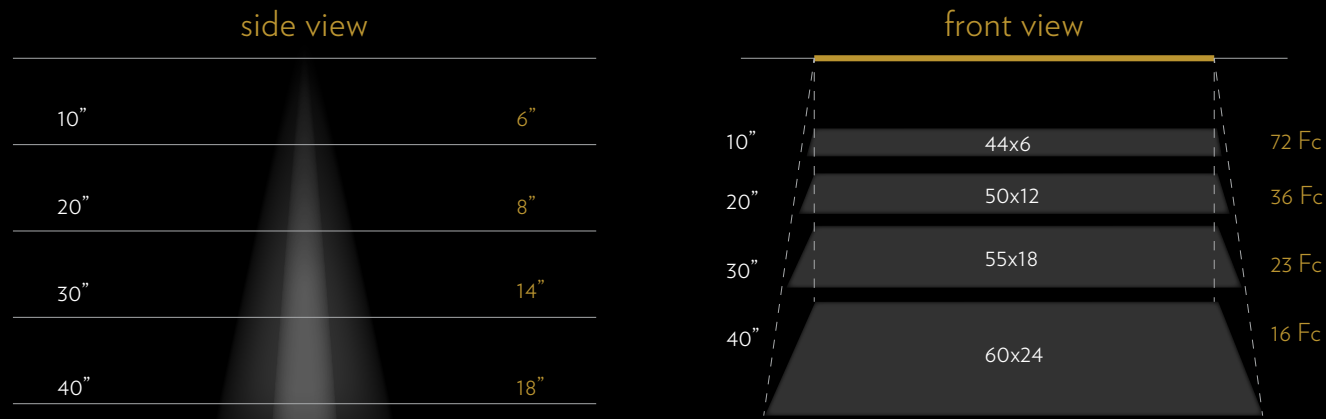
- Code x stem length, mm
- Order Code example: 65-502-15



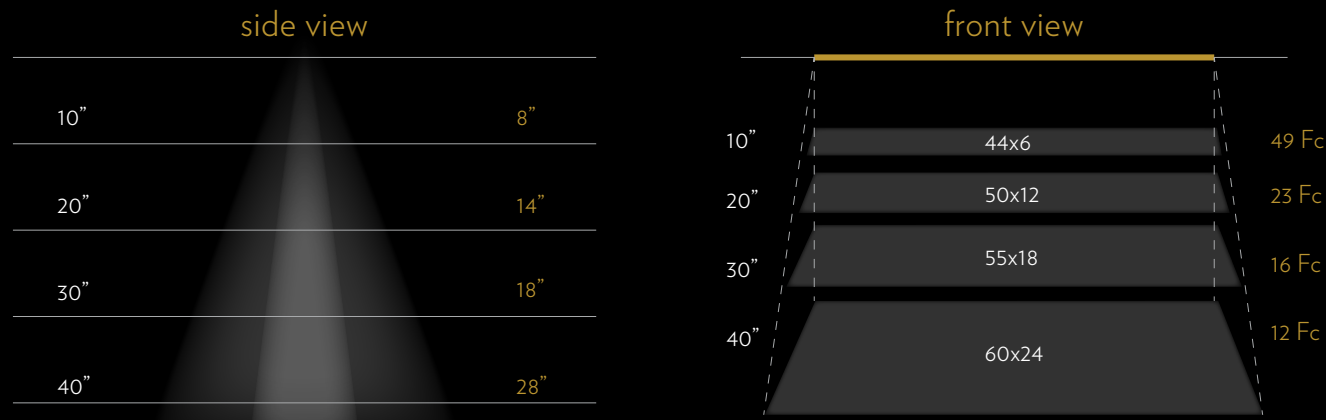
LIGHTSTICK PHOTOMETRICS

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

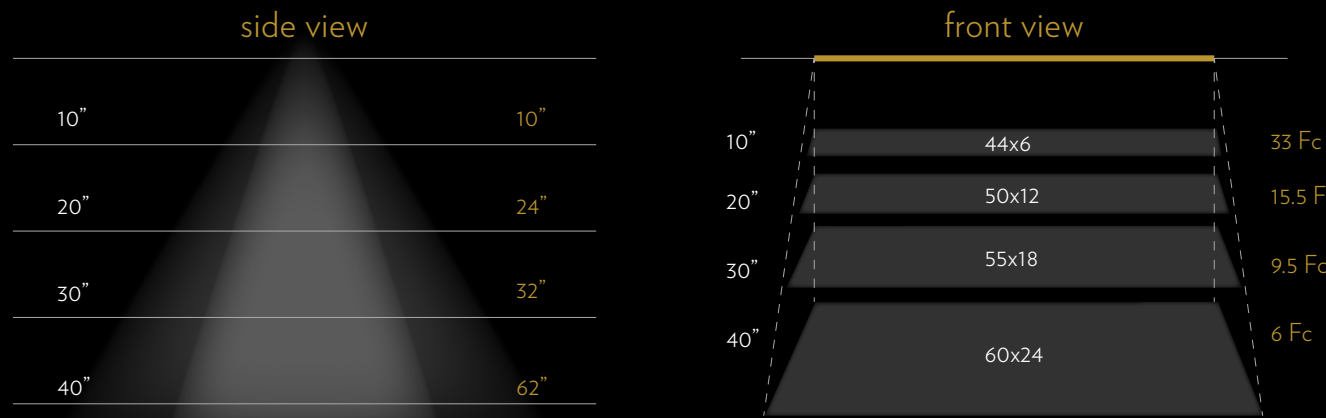
30° light beam



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 personal 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 fusers 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.



72

LUXAM | Lighting for Museums

PHOTO 33



PHOTO 34



PHOTO 35

LUXAM | Lighting for Museums

73



PHOTO 36



PHOTO 37





L U X A M



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**

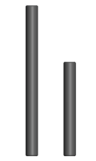
Through pannel threaded tube mount for 0.24" (6mm) rod

**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" / 300mm

**65-110-1000**

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

**65-110-2000**

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

**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

Cover Photo

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 Jouy

Photo 5

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

Photo 6

Eames 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

Photo 8

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 9

Museum: Academy Museum of Motion Pictures
Exhibition Case Fabricator: Zone Display Cases
Photo: Joshua White JWPictures.com
Exhibition Lighting Designer: Available Light
Exhibition Lighting Integrator: Clearwing System Integration

Photo 10

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
Qinghai, China
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 E. 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: Sanxingdui 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: Philippe 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 fabricator: 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 fabricator: 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 & Abbenes
Photo Credit: Mike Bink

Photo 30

Museum: Chateau de Versailles
Scenography Design: Jerome Dumoux
Case Fabrication: Muevo – Museum Evolution
Mounting: Ainu
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 National
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, LLC
Photography Credit: ©2020 Duncan R. Millar / Design and Production Incorporated.

Photo 37

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

Photo 38
Tiffany case at the LUXES exhibit at the Musée des Art Décoratifs de Paris, France
Photo credit: Martina O'Shea

Photo 39
Tiffany case at the LUXES exhibit at the Musée des Art Décoratifs de Paris, France
Photo credit: Martina O'Shea

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Carnegie Museum of New Hampshire, NH
Central Synagogue, Manhattan, NY
Chicago History Museum, IL
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Cincinnati Art Museum, OH
Cleveland Museum of Natural History, OH
Collier County Museum, FL
Cranbrook Institute, MI
Crystal Bridges Museum, AR
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Emory University, GA
Fine Arts Museum of San Francisco, CA
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Ford's Theatre, DC
Frazier Historical Arms Museum, Louisville, KY
Frick Collection, NY
George W. Bush Presidential Library, Dallas, TX
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National Archives, DC
National Air and Space Museum, DC
National Civil War Museum, PA
National Infantry Museum, GA
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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
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National Music Museum, SD
National Portrait Gallery, DC
National Postal Museum, DC
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Newseum, DC
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Ronald Regan Presidential Library, CA
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The Library of Congress, Washington, DC
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The White House Porcelain Collection, DC
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Museum of Sacred Art, Belem, Brasil
Museo de la moda, Santiago, Chile
Museo de Bellas Artes, Santiago, Chile

EUROPE

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Army Museum, Bruxelles
Ashmolean Museum ,Oxford
Australian Memorial Monash Villers bretonneux, France
Blaschka collection, Aquarium, Liège
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Mineralogy Museum, Liban

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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 collection 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, UAE
Shenzen Regional Museum, China
Shindagha, Dubai
The Chariots, The Terra Cotta Museum, Xian, China

OCEANIA

Australia Museum ,Sydney ,Australia
Australian National Maritime 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, Hobart, Tasmania
Univerity of Melbourne, Old Quad, Multivocal, Australia



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