



LUXAM
Lighting For Museums

MUSEUM LIGHTING

Fiber Optic & LED solutions

UPDATED MARCH 2024

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INTRODUCTION

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

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

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

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

FROM CASES TO SPACES

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

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

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

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



PHOTO 4



PHOTO 3



PHOTO 5



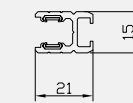
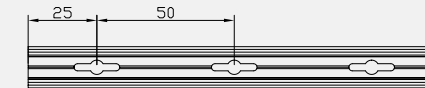
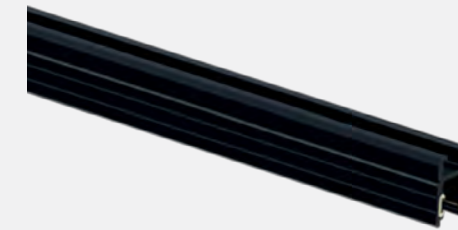
MicroLED System

PHOTO 6

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



L-MTEC-01



L-MTCJ-01



L-MTSJ-01



L-MTCP-01

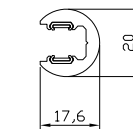


L-MTFCJ-01



L-MTCTK-01

VERTICAL O TRACK L-MTOTK



L-MTOEC-01



L-MTOSJ-01



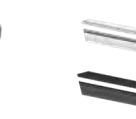
L-MTOCJ-01



L-MTOCP-01-B



L-MTFL-01



L-MTCTK-01



L-MTFL

RECESSED TRACK L-MTRTK



L-MTREC-01



L-MTRSJ-01



L-MTRCJ-01



L-MTRCP-01



L-MTCTK-01

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.



ALL MICROTRACK FIXTURES

All fixtures can mix and match on the same track.

SPOTLIGHTS

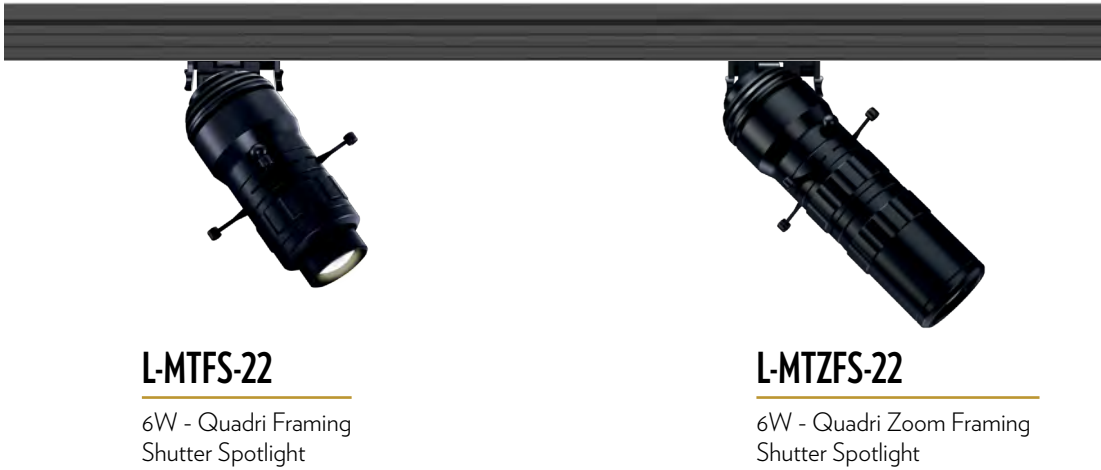


L-MTSP-12
1W - Onboard dimmer

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 Micro Track 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



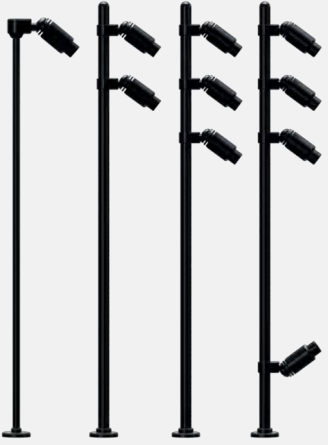
L-MTSP-11
1W Remote Dimmer



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 Micro Track 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 Micro Track 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	12V / 1.2W
Input current	100mA
Beam angles	Zoomable 9° to 60°
Luminous flux	98 lm @RA97 / 56 lm
CTT available	3000K, 4000K, 5000K
Dimmable options	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	340mA
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 - 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	UL, CE
Warranty	5 years
Protection	IP30

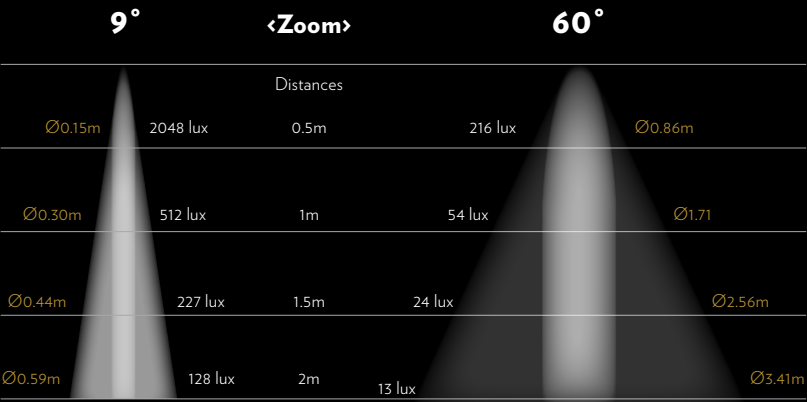


SPOTLIGHT PHOTOMETRICS

L-MTSP-12 1W



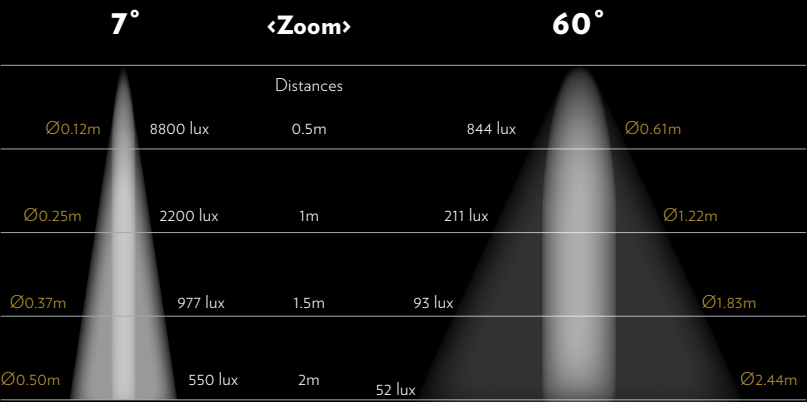
1W with Onboard Dimmer



L-MTSP-02 3W



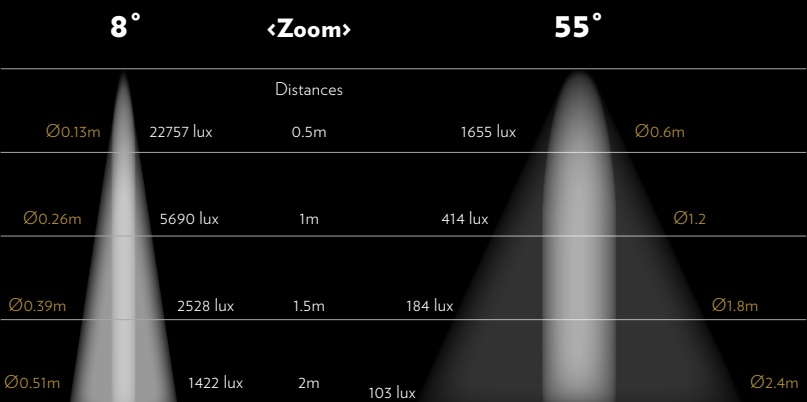
3W with Onboard Dimmer



L-MTSP-22 6W



6W with Onboard Dimmer



MICROTRACK SPOTLIGHT ACCESSORIES



L-MTSP-12 1W



L-MTAS-10 L-MTBD-10 L-MTFH-10 L-MTBR-10



L-MTSP-02 3W



L-MTFH-01 L-MTAR-01 L-MTSC-01 L-MTSN-01 L-MTAS-01 L-MTBD-01 L-MTBST-01



L-MTSP-22 6W



L-MTAS-20 L-MTBD-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

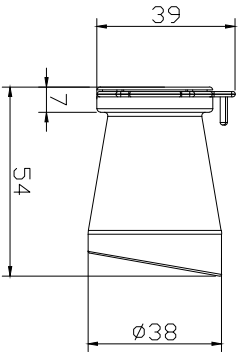
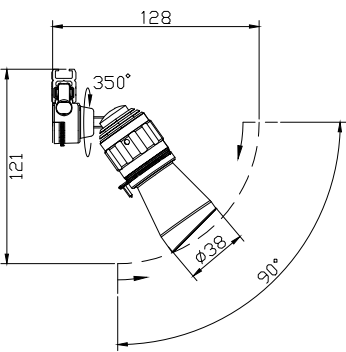


PHOTO 8



L-MTSP-02



L-MTSP-02 + L-MTBST-01

PHOTOMETRICS COMPARISON

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



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LUXAM | Lighting for Museums

PHOTO 9



PHOTO 10



LUXAM | Lighting for Museums

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MICROTRACK LIGHTBAR FIXTURES

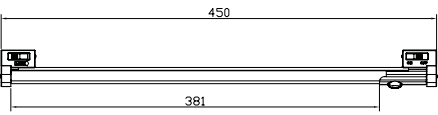


The LightBar can be used alone or with other MicroTrack fixtures to provide the desired effect - wash and spot.

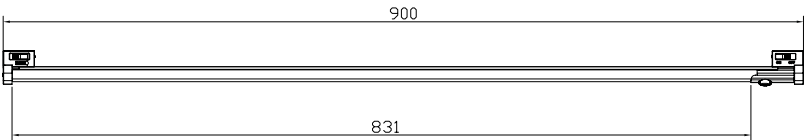
The 1W, 3W, and the 6W MicroTrack heads can be combined together with the Lightbar on the same track. All have the ability to be individually dimmed, creating a highly functional system.



L-MTBA-01-B/W-45



L-MTBA-01-B/W-90



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)

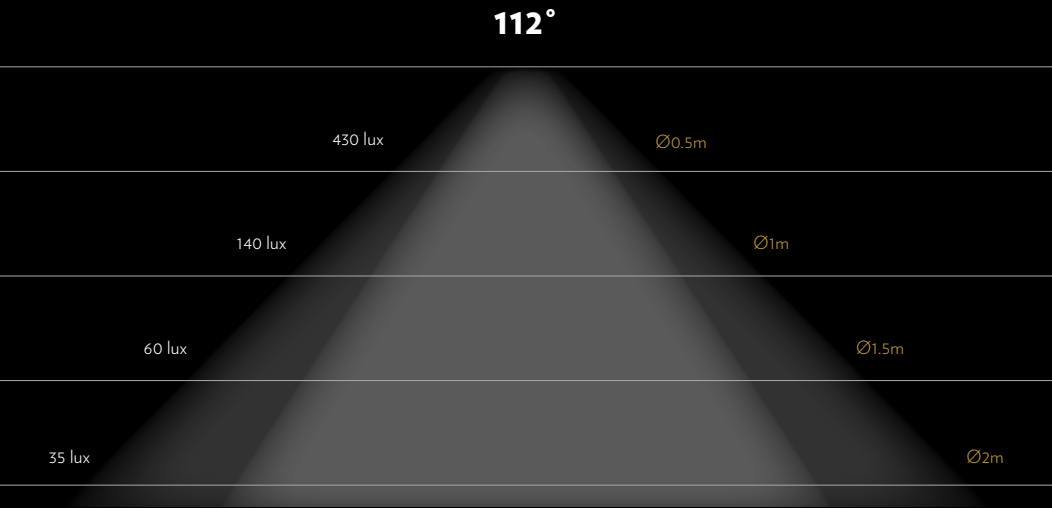
Distance	1m, 2m
L-MTBA-01-B/W-45	80 lux, 20 lux
L-MTBA-01-B/W-90	140 lux, 35 lux



LIGHTBAR PHOTOMETRICS



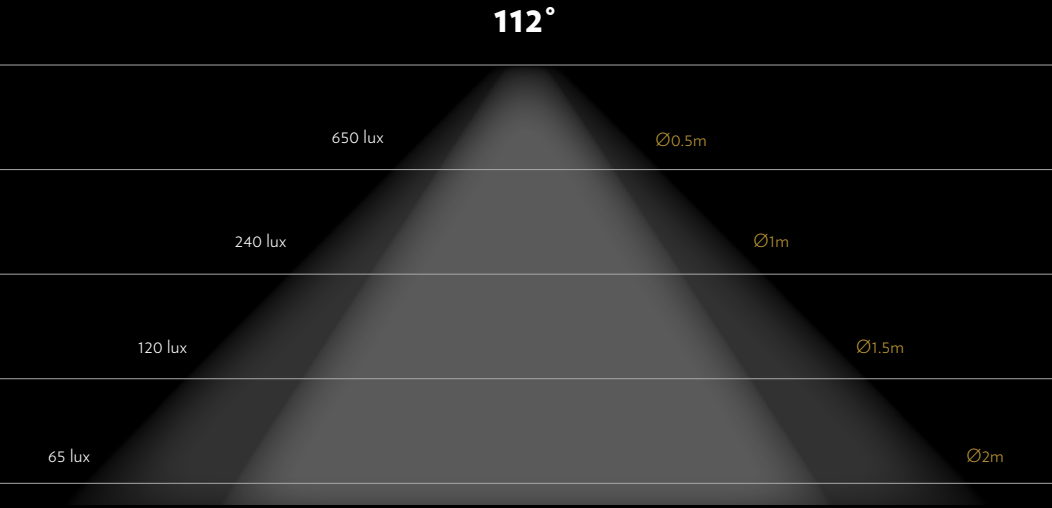
L-MTBA-450 Lightbar 7W (18")



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

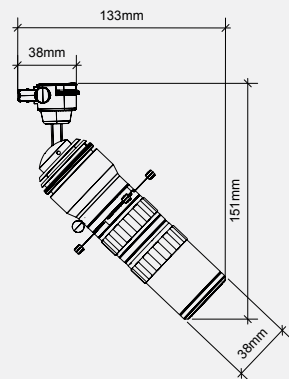
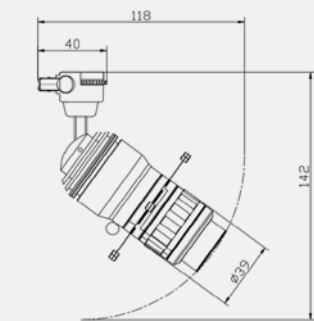


L-MTZFS-22 6W



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

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



TECHNICAL DATA: L-MTFS-22

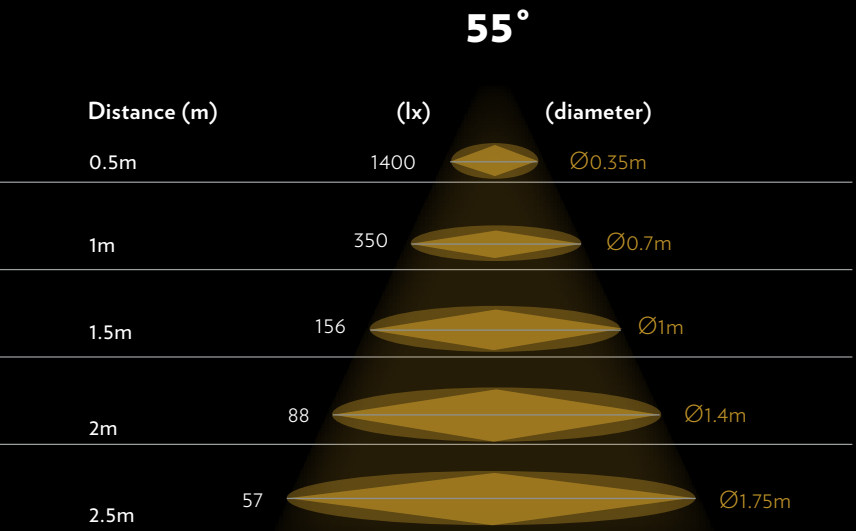
Voltage/wattage	11v -24VDC / 7.8W
Beam angle	55°
Input Current	650mA - 330mA
Polarity	No polarity required
Dimming	Onboard Dimmer PWM 0-100%
CRI	97 typ
CCT	3000K, 4000K, 5000K
Head Pan	355°/tilt 90°
Rating	IP30
Material	Aluminum

TECHNICAL DATA: L-MTZFS-22

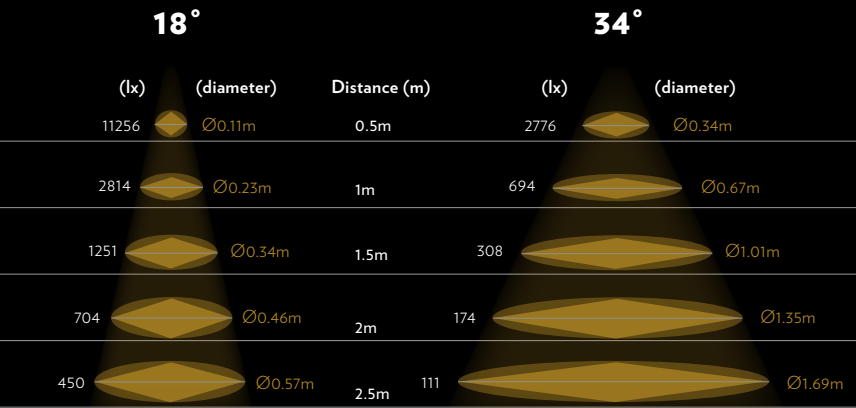
Voltage/wattage	11v -24VDC / 6W
Beam angle	15°-36°
Input Current	650mA - 330mA
Polarity	No polarity required
Dimming	Onboard Dimmer PWM 0-100%
CRI	97 typ
CCT	3000K, 4000K, 5000K
Head Pan	355°/tilt 90°
Rating	IP30
Material	Aluminum

QUADRI FRAMING SHUTTER PHOTOMETRICS

L-MTFS-22 6W

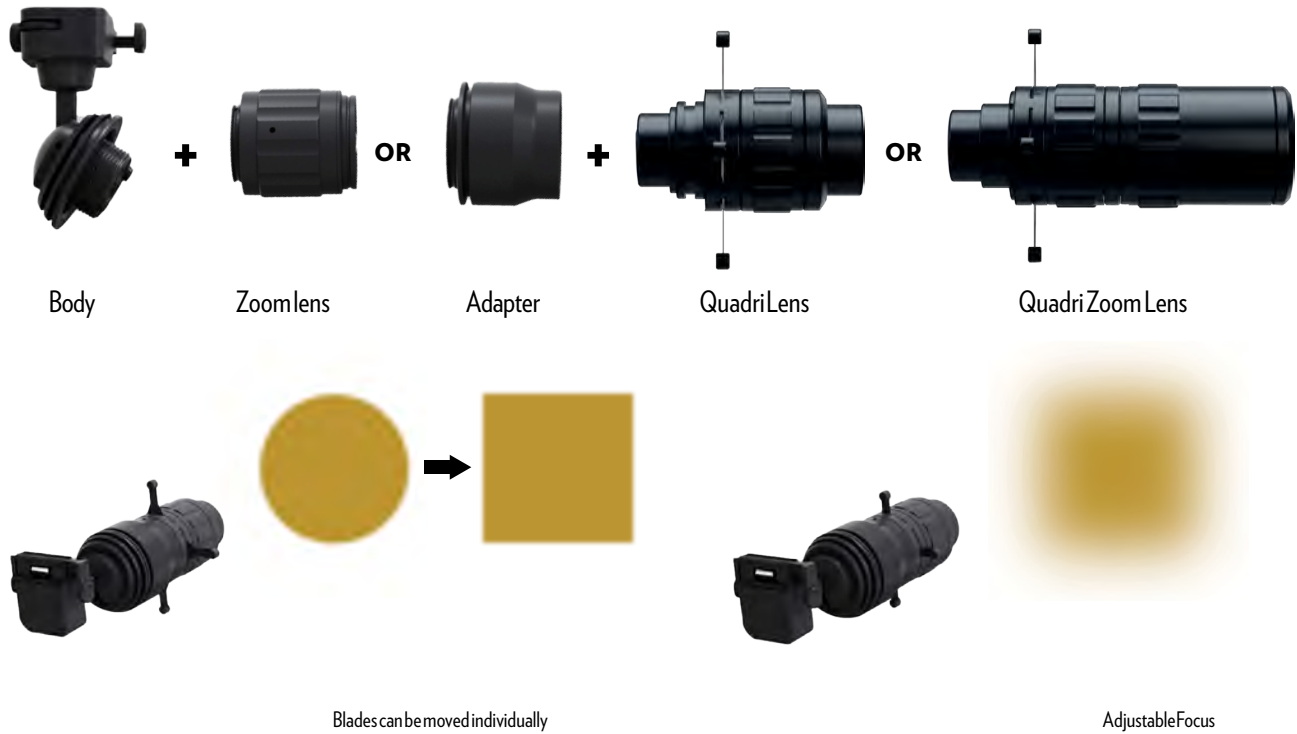


L-MTZFS-22 6W

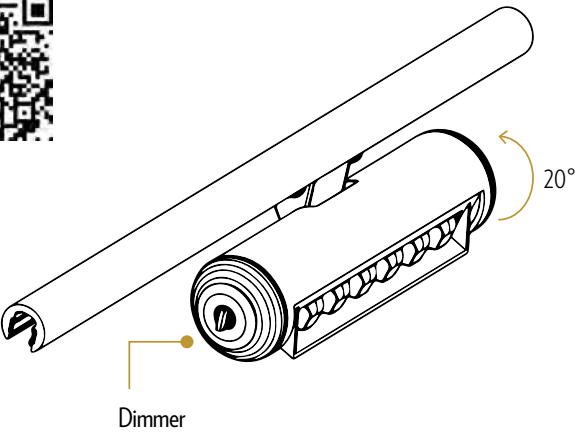


The Quadri L-MTFS-22 and L-MTZFS-22 are Framing Shutter spotlights and work with all our MicroLED tracks.

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



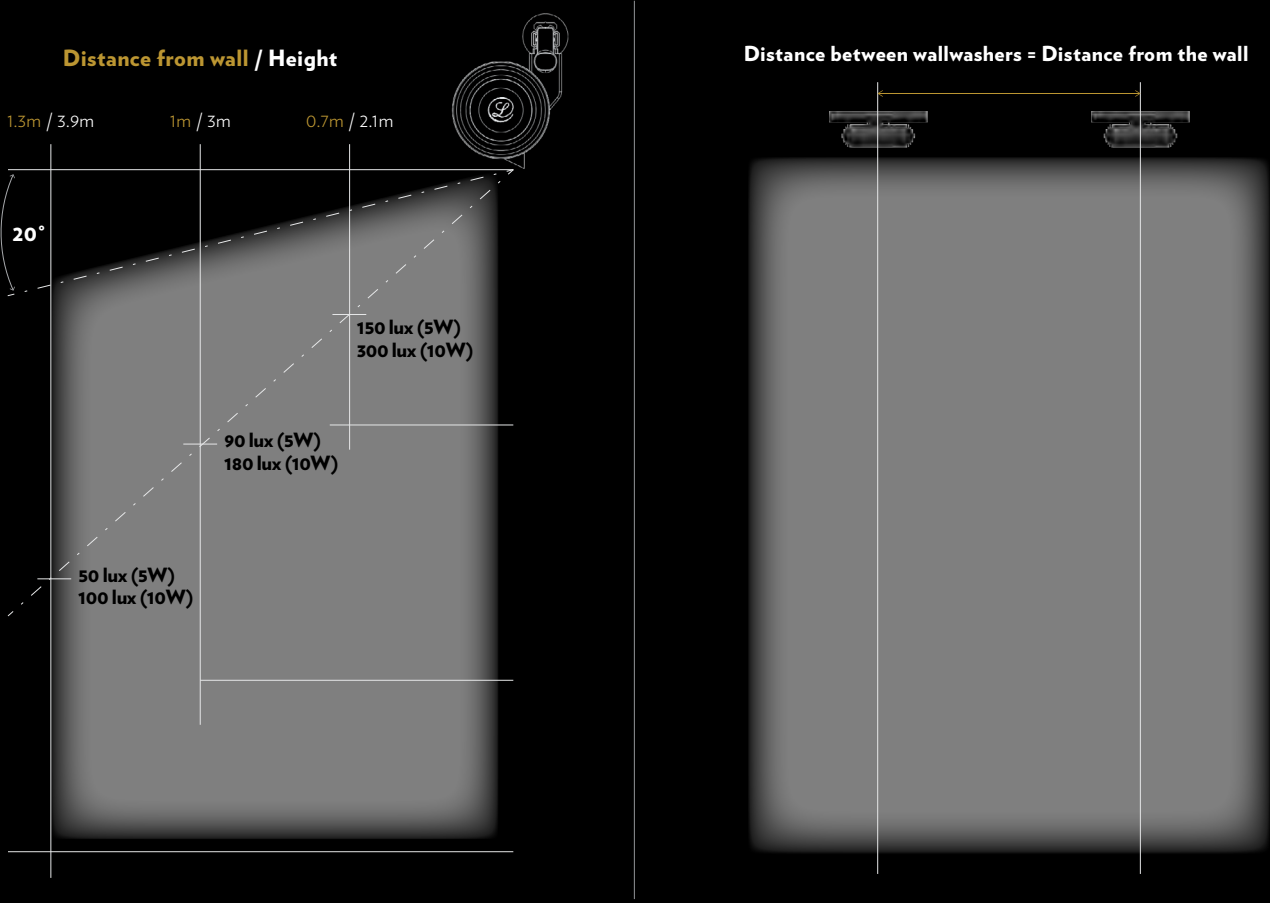
TECHNICAL DATA: L-MTWS-22	
Power	5W
Beam angle	Washer effect
Voltage	12V DC
Input Current	410mA
Class	III
Dimmer	Onboard Dimmer PWM 0-100%
CRI	97 typ
CCT available	3000K , 4000K , 5000K
Indoor use	IP30
Material	Alum. Alloy / PC

L-MTWS-32 10W



TECHNICAL DATA: L-MTWS-32	
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.



L-MTSA-12
1W - with Onboard dimmer



L-MTSA-02
3W - with Onboard dimmer



L-MTSA-22
6W Standalone Spotlight



L-MFSA-22
6W Quadri-StandaloneDimmer



L-MZFSA-22
6W Quadri Zoom StandaloneDimmer



L-MSPS-10
1W - Standalone Solid Surface



L-MSPS-00
3W - Standalone Solid Surface



L-MSPS-20
6W Standalone Solid Surface



L-MSFS-20
6W Quadri Standalone Solid Surface



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



L-UPL-10-1
Stem Light



L-UPL-10-2/3/4
Stem Light



L-MBA-01
TALEA Ledstick Round or Square Corners



PHOTO 13

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



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



L-MSPS-00

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



PHOTO 15



PHOTO 16

MICROMONO STANDALONE STEM FIXTURES

L-UPL-10-1 STEM1



Stem 1 comes with a 6mm rod with adjustable heights

- FEATURES:**
- STEM 1 has a single stationary 1W spot light
 - Full range of accessories – Barndoors, Snoots, Filter frame, etc.
 - Stem 1 comes with a 6mm rod with 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
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 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
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.



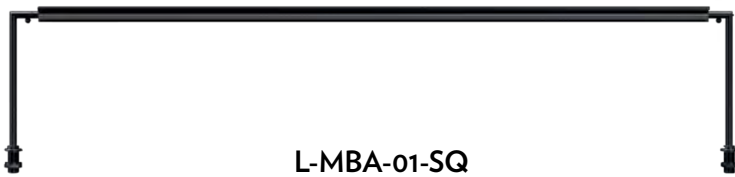
FEATURES:

- 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	For Constant Current
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

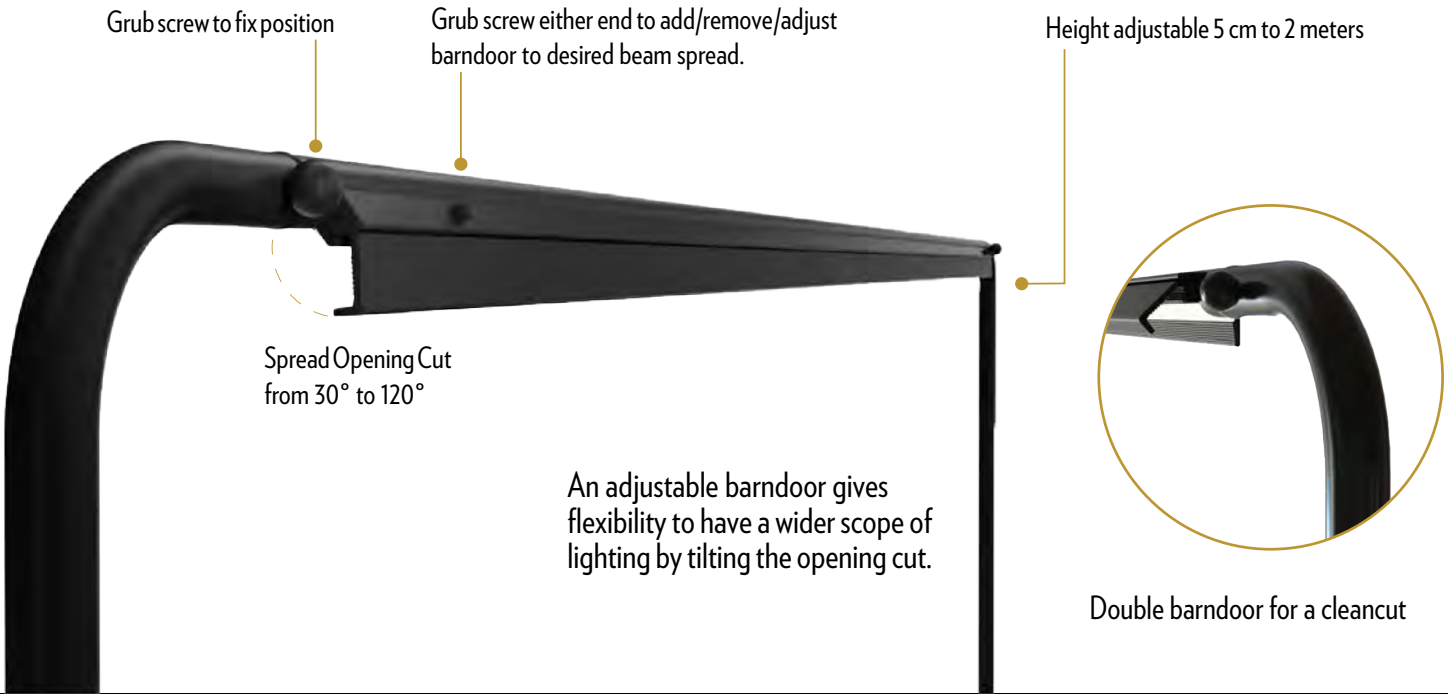
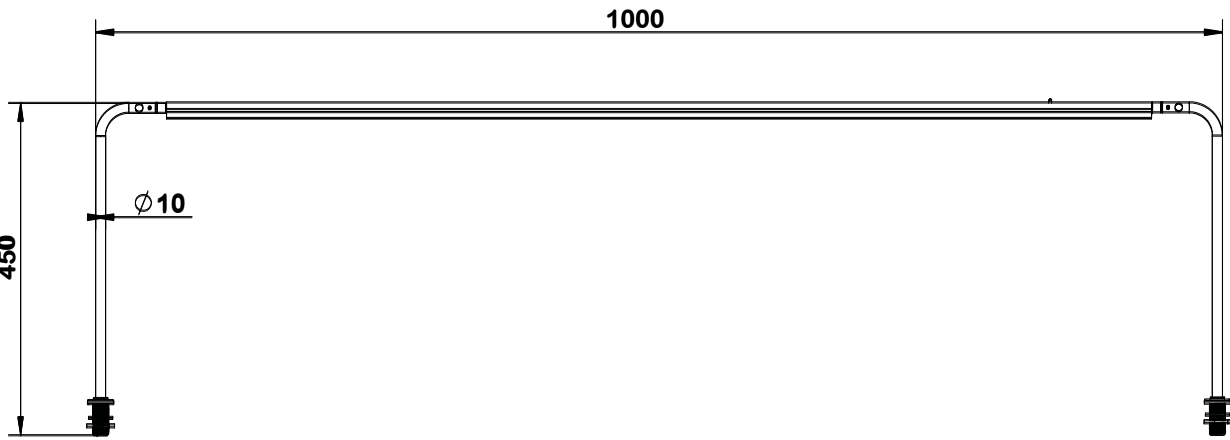
Two options: Round or Square corners



L-MBA-01-SQ



L-MBA-01-R



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





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PHOTO 18



PHOTO 19



PHOTO 20

LUXAM | Lighting for Museums

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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

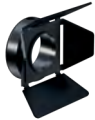
MICROSPOT STANDALONE 1W DIMMER



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



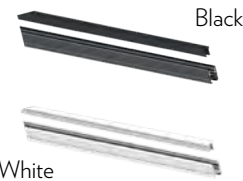
REFERENCE	DESCRIPTION
L-MTFCJ-01-B	90° inside-slot Flat connector for H -shape Track

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

O-SHAPE MICRO TRACK

VERTICAL O TRACK



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

LIVE END CONNECTOR



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

STRAIGHT JUNCTION CONNECTOR



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

90° CORNER JUNCTION



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

END CAP



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

FLANGE



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

CACHE



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

R-SHAPE MICRO TRACK

RECESSED TRACK



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

LIVE END CONNECTOR



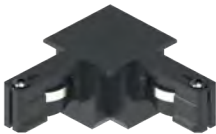
REFERENCE	DESCRIPTION
L-MTREC-01-B	Live end connector for R-shape Track, Black
L-MTREC-01-W	Live end connector for R-shape Track, White

STRAIGHT JUNCTION CONNECTOR



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

90° CORNER JUNCTION



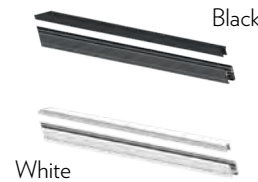
REFERENCE	DESCRIPTION
L-MTRCJ-01-B	90° corner junction for R-shape Track, Black
L-MTRCJ-01-W	90° corner junction for R-shape Track, White

END CAP



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

CACHE



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

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

LED DRIVERS 12V



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

LED DRIVERS 12V - EUROPE



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

PICK-UP CONNECTOR



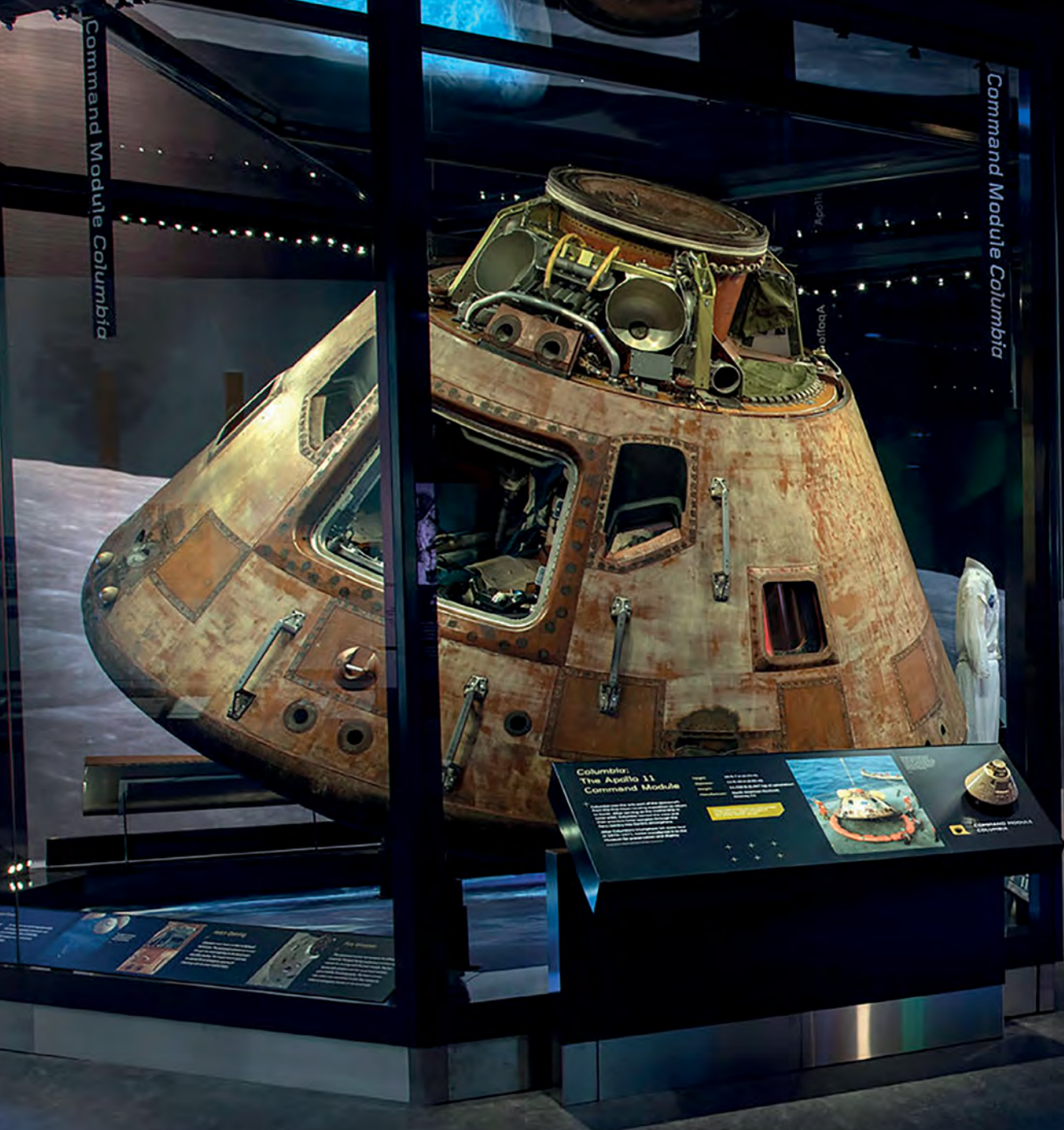
REFERENCES	PRODUCT DESCRIPTION
L-MTPK-40-B	Picking Connector 12V/18W

DRIVER



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

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 "Subbot 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 jumpsuit. It provided or to breathe, protected him from temperature extremes, radiation, and high-speed meteoric particles, and allowed him to communicate with others.

This A-7L was the seventh version of the Apollo suit built by G.E. Industries in Delaware. It is displayed with Armstrong's lunar exploration, now assembly and extravehicular gloves.

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



INTRODUCTION TO FIBER OPTICS

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

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

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

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

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

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

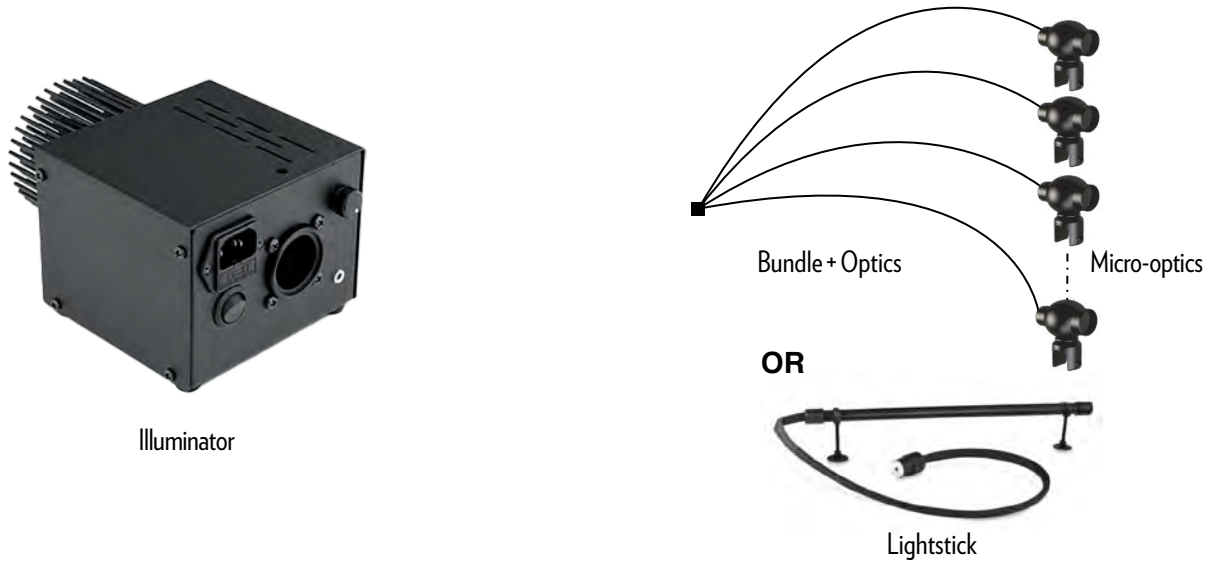


HOW THE LUXAM FIBER SYSTEM WORKS

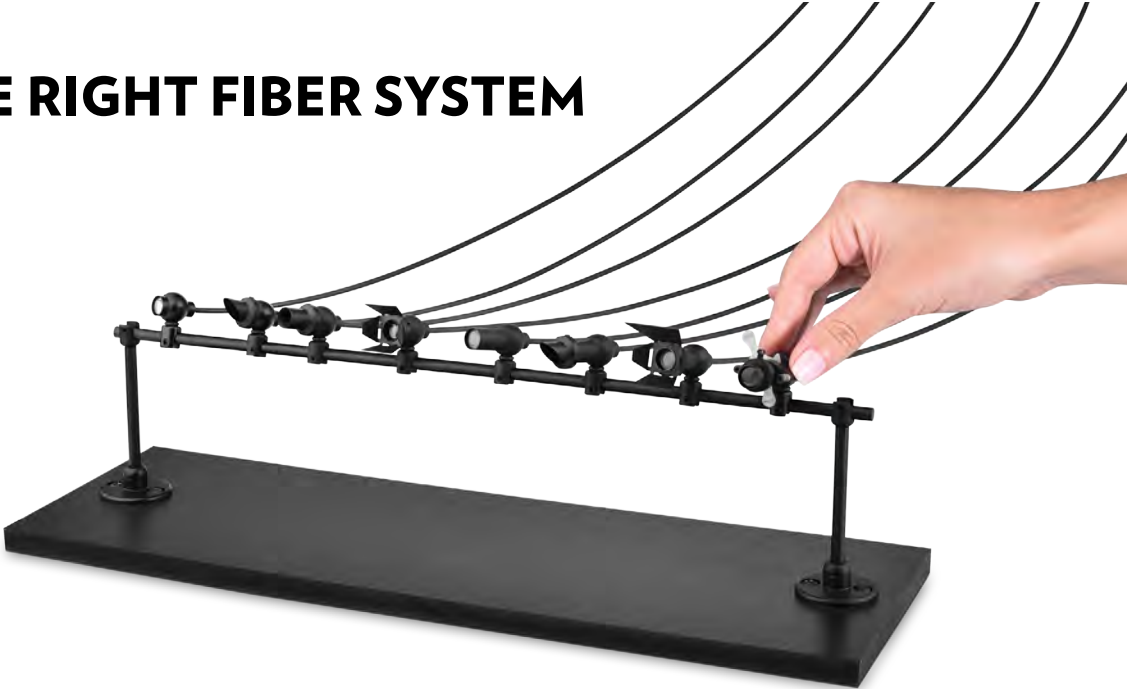
The Fiber system is very simple and has 3-4 elements to consider depending on the system chosen. Each system is individually chosen and manufactured depending on the needs of the display cases and the artifacts housed within them.

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

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

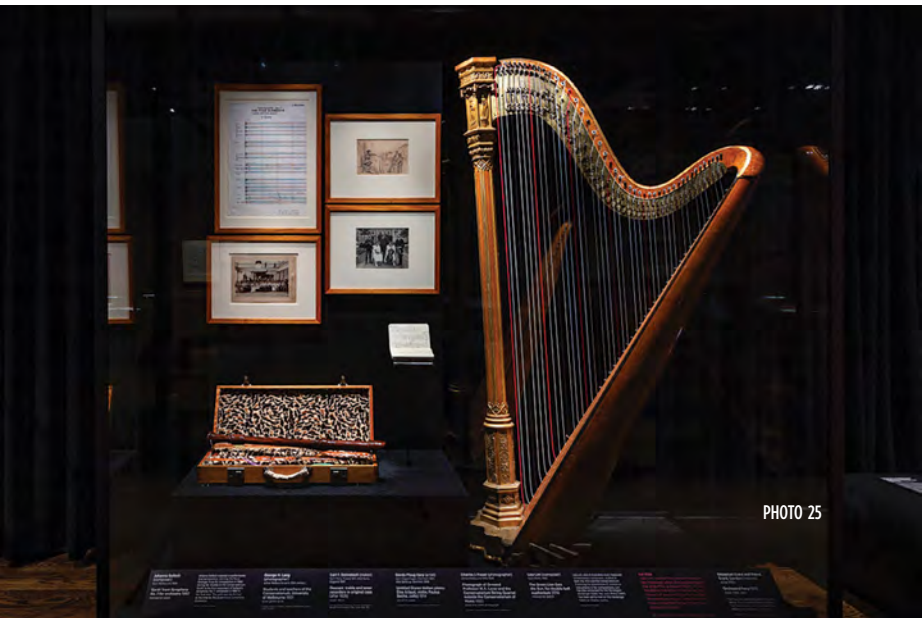


CHOOSING THE RIGHT FIBER SYSTEM



What to consider when choosing a Fiber Optic System:

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



FIBER BUNDLE SPECIFICATIONS

SPECIFICATIONS

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

TYPICAL FIBER BUNDLES W/ ORDER CODE

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

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



PHOTO 26



PHOTO 27

FIBER OPTIC MICROTOWERS

Self supported fiber optic MicroTowers are for most vertical applications.

This flexible system uses pins that can be adjusted to 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.

FEATURES

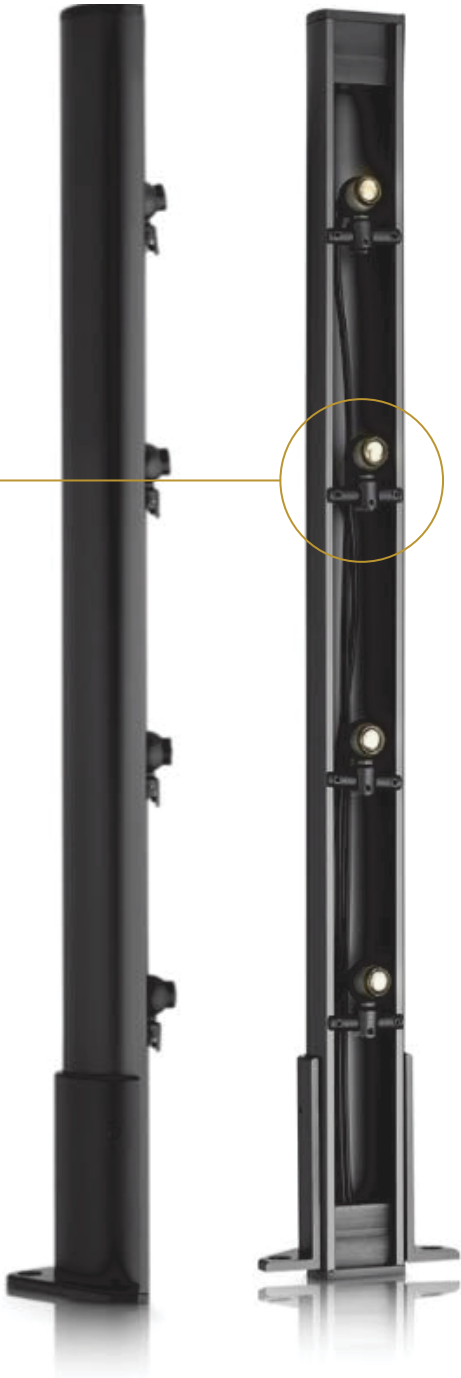
- Pan & Tilt capable
- Variable spacing bet ween fixtures provides great flexibility for focusing
- Standard Color: Anodized Matte Black - exterior extrusion can be painted
- Custom lengths to 2.5 m
- Unique triangular mount to fit tight corners
- 55-210 MICRO 10° : 10° to 60°
- 55-207 MICRO 5° : 5° 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)						Distance (m)	Lighting Spot Diameter (m)
	0.5	1m	1.5m	2m	2.5m	0.5	0.04
20W 3000k	1328	332	148	83	53	1	0.09
30W 3000k	1536	384	171	96	61	1.5	0.13
45W 3000k	1960	490	218	123	78	2	0.17
						2.5	0.22

55-207_55° Open Intensity Level (lux)

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

55-210_10° Open Intensity Level (lux)

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

55-210_65° Open Intensity Level (lux)

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



- CLAM SHELL**
- Base support for 16mm black 22-105
 - Base support for 20mm black 22-101



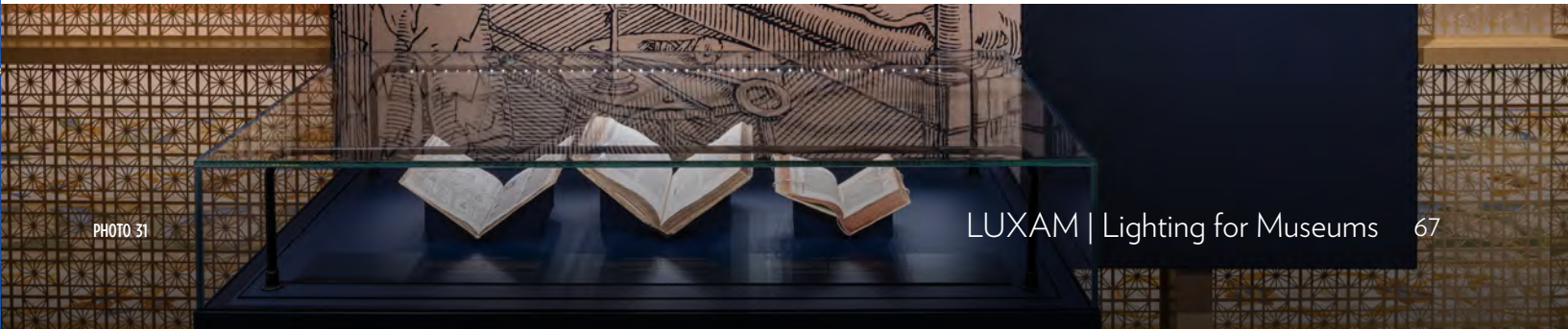
- VERTICAL FLANGE**
- for 16mm - 22-104



- C-CLAMP WITH 65-103 BASE**
- C-clamp with surface mount 16mm - 65-502
 - C-clamp with surface mount 20mm - 65-503
 - C-clamp with surface mount 24mm - 65-504

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

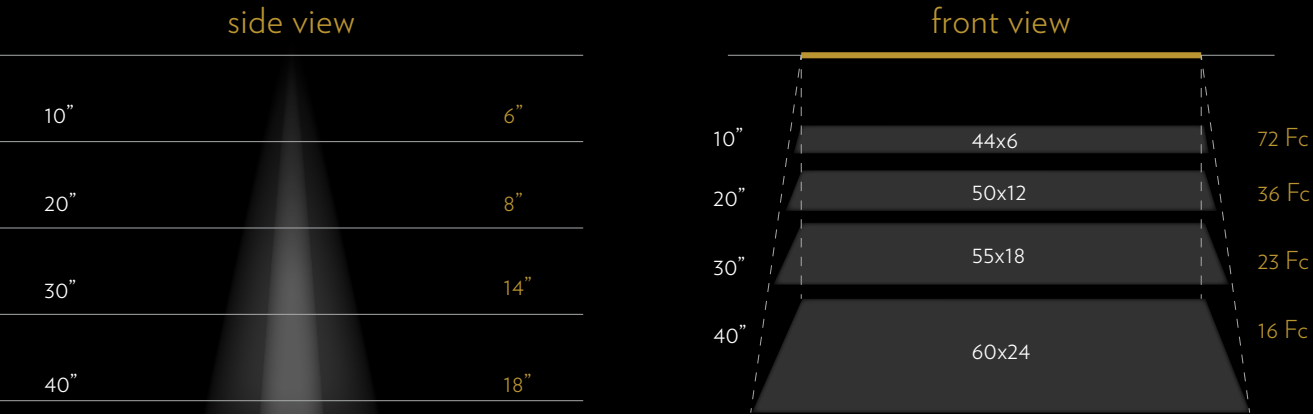
- C-CLAMP SIZE**
- Code x stem length, mm
 - Order Code example: 65-502-15



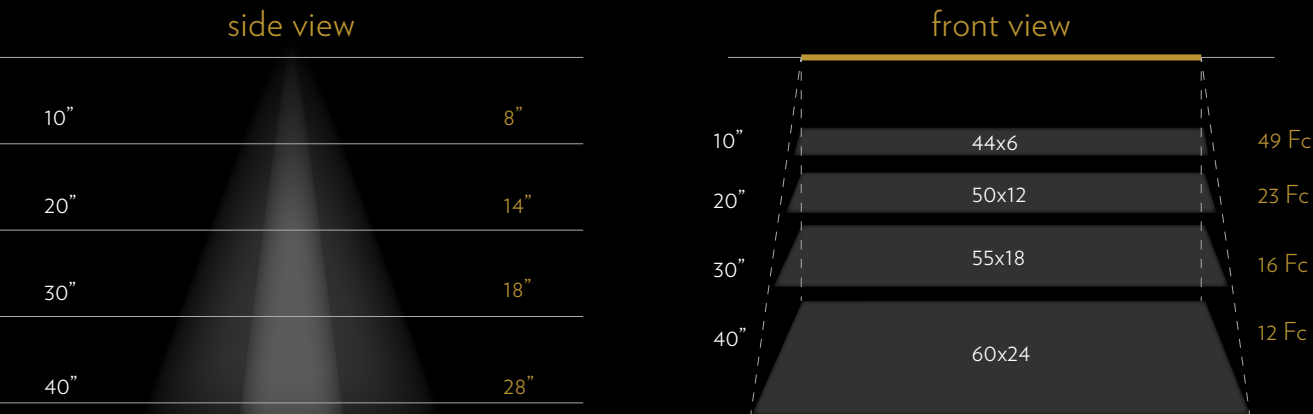
LIGHTSTICK PHOTOMETRICS

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

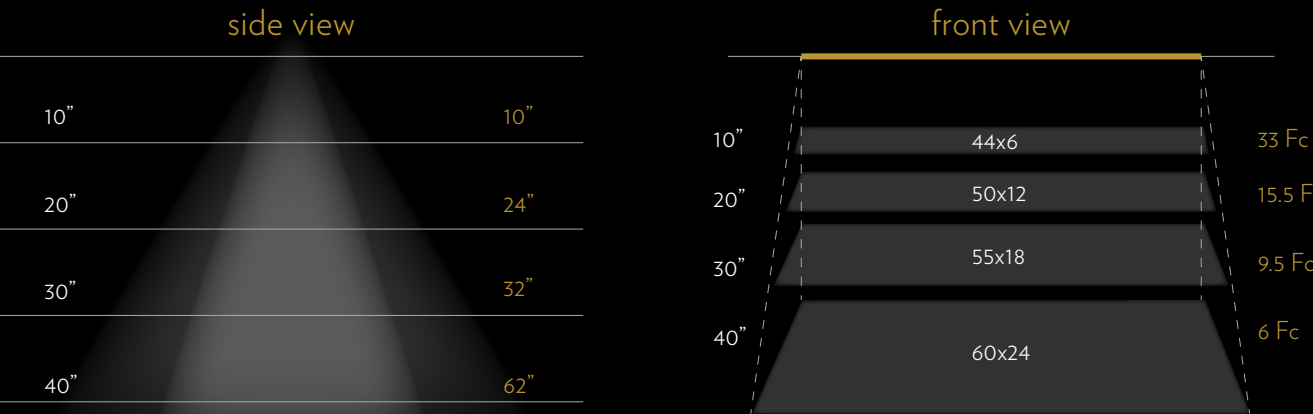
30° light beam



60° light beam



90° light beam



LED ILLUMINATORS

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



10-200-BP 30/35W

SPECIFICATIONS

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

PRODUCT CODES

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



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

SPECIFICATIONS

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

PRODUCT CODES

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



LED ILLUMINATORS (AVAILABLE IN EUROPE)



15-122/ 20W

SPECIFICATIONS

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

PRODUCT CODES

CCT 3000K	15-121-3K
-----------	-----------



15-135 / 30W

SPECIFICATIONS

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

PRODUCT CODES

CCT 3000K	15-135-3K
CCT 4000K	15-135-4K



15-145 / 45W

SPECIFICATIONS

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

PRODUCT CODES

CCT 3000K	15-145-3K
CCT 4000K	15-145-4K



LED ILLUMINATORS - INTERACTIVE

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



80-105 / 5 PORT HYBRID

SPECIFICATIONS

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



INTEGRATING IN DISPLAY CASES

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

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

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

Some specifics to bear in mind:

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

INSTALLATION AND FOCUS

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

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

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

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

THERE ARE THREE STAGES OF INSTALLATION:

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



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LUXAM | Lighting for Museums

PHOTO 33



PHOTO 34



PHOTO 35

LUXAM | Lighting for Museums

73





LUXAM



FIBER OPTIC SYSTEMS

ORDER CODES

MICRO-FIXTURES



55-101

10° micro-fixture, stirrup mount



55-201

10° micro-fixture, staple mount for 0.4" (10mm)



55-202

5° micro-fixture, staple mount for 0.4" (10mm)



55-203

5° micro-fixture, staple mount for 0.63" (16mm)



55-204

5° micro-fixture, staple mount for 0.8" (20mm)



55-205

5° micro-fixture, stirrup mount



55-210

10° micro-fixture, staple mount for 0.24" (6mm)



55-207

5° micro-fixture, staple mount for 0.24" (6mm)



55-301

10° micro-fixture, staple mount for 0.63" (16mm)



55-304

10° micro-fixture, staple mount for 0.8" (20mm)



55-535

5° micro-fixture with front focalisation, staple mount for 0.24" (6mm)



55-541

5° micro-fixture with front focalisation, staple mount for 0.4" (10mm)



55-542

5° micro-fixture with front focalisation, staple mount for 0.63" (16mm)



55-543

5° micro-fixture with front focalisation, staple mount for 0.8" (20mm)



55-544

10° micro-fixture with front focalisation, staple mount for 0.24" (6mm)



55-545

10° micro-fixture with front focalisation, staple mount for 0.4" (10mm)



55-546

10° micro-fixture with front focalisation, staple mount for 0.63" (16mm)



55-547

10° micro-fixture with front focalisation, staple mount for 0.8" (20mm)



55-548

5° micro-fixture with front focalisation, stirrup mount



55-549

10° focusable micro-fixture, stirrup mount

FRAMING MICRO-PROJECTORS



55-430

Framing micro-projector, staple mount for 0.4" (10mm), V-shaped blades.



55-431

Framing micro-projector, staple mount for 0.63" (16mm)



55-432

Framing micro-projector, staple mount for 0.8" (20mm)



55-433

Framing micro-projector, stirrup mount, V-shaped blades.



55-435

Framing micro-projector, staple mount for 0.24" (6mm)

MODULAR MICRO-COMPONENTS



55-100

10° micro optic head



55-120

5° micro optic head



55-405

0.4(10mm) micro-optic head/ 10° for micro-fixture body



55-406

Micro-optic head/5° with double focusing device



55-407

Micro-optic framing head for micro-fixture body/



55-505

Micro-fixture body, stirrup mount



55-507

Micro-fixture body, staple mount for 0.24" (6mm)



55-510

Micro-fixture body without 0.4" (10mm) optic head



60-311

25°/35° mini optic head assembly



60-312

10° mini optic head assembly



60-400

Mini fixture body for 20°/35° lens (reference 60-320), surface mount



60-410

Mini fixture body for 20°/35° lens (reference 60-320), through pannel mount



60-415


Mini fixture body for 20°/35° lens (reference 60-320), staple mount on 0.24" (6mm) tube





60-420


Mini fixture body for 20°/35° lens (reference 60-320), staple mount on 0.4" (10mm) tube


MICRO-ACCESSORY

- 


55-302
Filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117
- 


55-303
Barn-doors/filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117
- 


55-315
Asymmetric barndoors/filter holder for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117
- 


55-320
Micro snoot for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117
- 


55-325
Beveled micro snoot for micro-fixture and semi-recessed adjustable mini sphere 50-116 and 50-117
- 


60-110
Filter holder for mini optic
- 

60-115
Barn-doors/filter holder for mini optic
- 

60-120
Mini snoot for mini optic
- 

60-125
Beveled snoot for mini-fixture
- 

55-408
Additional V-shaped blade
- 

55-409
Blade with 3 different hole diameters
- 

55-410
Linear blade edge
- 

55-411
Elliptic edge blade

MICRO-RECESSED

- 

50-050
01,22" (3mm) adjustable micro-sphere, 10° optic, for 0.86" (22mm) thick panel
- 

50-055
01,22" (3mm) adjustable micro-sphere, 5° optic, for 0.86" (22mm) thick panel
- 

50-107
Adjustable mini-sphere, 18°/43° optic, 0.87" (22mm) for 03, 4,5 optic cable, fixation by clamping on back flange
- 


50-108
Adjustable mini-sphere, 18°/43° optic, 0.87" (22mm) for 03,4,5 optic cable, fixation by 2 screws
- 


50-116
Adjustable mini-sphere without optic, for 03,4,5 optic cable, fixation by clamping on back flange
- 


50-117
Adjustable mini-sphere without optic, for 03,4,5 optic cable, front fixation by 2 screws
- 


55-050
Adjustable micro-sphere, 10° optic, for 0.86" (22mm) thick panel


MICRO-FLEXIBLES


- 


55-402
09mm micro-head without optic for 0.6" (24mm) micro-flexible tube
- 


55-404
10° micro-optic head for 0.6" (24mm) micro-flexible tube
- 


65-101
Through pannel threaded tube mount for 0.24" (6mm) rod
- 


65-102
Staple mount for 0.4" (10mm) grid and 0.24" (6mm) rod
- 


65-103
Surface mounting plate for 0.24" (6mm) rod
- 


65-110-25
0.24" / 6mm rod - 1" / 25mm
- 


65-110-50
0.24" / 6mm rod - 2" / 50mm
- 

65-110-100
0.24" / 6mm rod - 4" / 100mm
- 

65-110-200
0.24" / 6mm rod - 8" / 200mm
- 

65-110-300
0.24" / 6mm rod - 12" / 300 mm
- 

65-110-1000
0.24" / 6mm rod - 39,5" / 1000 mm
- 

65-110-2000
0.24" / 6mm rod - 79" / 2000 mm
- 

65-160
Staple mount for 0.24" (6mm) and 0.4" (10mm) grid with 6mm rod 70mm length

- 

65-140
Spacer 0.24" (6mm) - male/ female, M3, 0.4" (10mm) long
- 

65-141
Spacer 0.24" (6mm) - male/ female, M3, 0.8" (20mm) long
- 

65-142
Spacer 0.24" (6mm) - male/ female, M3, 2" (50mm) long
- 

65-260
Staple mount for 0.24" (6mm) grid and 0.24" (6mm) rod
- 

65-310
Magnetic mounting plate for 0.24" (6mm) rod

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

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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

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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

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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

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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: 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

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

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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 & 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

Academy Museum of Motion Pictures, CA
Alabama State Archives, Montgomery, AL
American Museum of Natural history, NY
Appomattox Court House Museum, VA
Armenian Museum of America, MA
Autry Museum of the West
Babe Ruth Birthplace, MD
Bank of Canada Museum, ON, Canada
Boston Fine Art, Boston, MA
Carnegie Museum of Natural History, PA
Carnegie Museum of New Hampshire, NH
Central Synagogue, Manhattan, NY
Chicago History Museum, IL
Chicago Museum of Science and Industry, Chicago, IL
Cincinnati Art Museum, OH
Cleveland Museum of Natural History, OH
Collier County Museum, FL
Cranbrook Institute, MI
Crystal Bridges Museum, AR
Dior Exhibit, Brooklyn Museum, NY
Emory University, GA
Fine Arts Museum of San Francisco, CA
First Division Museum at Cantigny, Wheaton, IL
Ford's Theatre, DC
Frazier Historical Arms Museum, Louisville, KY
Frick Collection, NY
George W. Bush Presidential Library, Dallas, TX
Georgia State Capitol Museum, GA
GIA Institute, CA
Hillwood Estate Museum, DC
Jamestown/Yorktown Foundation, VA
Jim Moran foundation, FL
Knoxville Museum of Art, TN
LSU Museum of Art, LA
Marco Island Museum, FL
Mariners Museum, VA
Metropolitan Museum of Art, NY
Mississippi Museum of Natural History, MI
Mississippi Museum of Natural history, Jackson, MS
Mt. Vernon Education Center, VA
Museum of American Finance, NY
Museum of Fine Art p Boston, MA
Nantucket Whaling Museum, Nantucket, MA
National Archives, DC
National Air and Space Museum, DC
National Civil War Museum, PA
National Infantry Museum, GA
National Museum of African American History and Culture, DC
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
National Music Museum, SD
National Portrait Gallery, DC
National Postal Museum, DC
New York Historical Society, NY
Newseum, DC
Norton Museum of Art, FL
Old Conn. Statehouse, CT
Peabody Essex Museum, MA
Perfume Passage Foundation,
Philadelphia Museum of Art, PA
Philipse Manor Hall, NY
Pitts Theology Library Emory University, Atlanta, GA

REFERENCES

NORTH AMERICA

Polk County Museum, FL
Ronald Regan Presidential Library, CA
Sandoway Nature Center, Delray, FL
Smithsonian Libraries, DC
Sports Legends Museum – Camden Yards, Baltimore, MD
The Asia Society, NY
The Catholic Museum of America, DC
The Cloisters, NY
The Henry Ford Museum, MI
The Holy Land attraction, Orlando, FL
The Flight Path Museum & Learning Center LAX, CA
The Library of Congress, Washington, DC
The Mob Museum
The White House Porcelain Collection, DC
UArizona Alfie Norville Gem & Mineral Museum, AR
University Conn Ballard Museum of Puppetry, CT
University of Florida Harn Museum of Asian Art, Gainesville, FL
US Marine Corps Museum, VA
US Mint, Philadelphia, PA
US Naval Academy – John Paul Jones crypt, Annapolis, MD
USC – Doheny Library Treasure Room, Los Angeles, CA
US Golf Association Museum
Vassar College, NY
Virginia Museum of Fine Art, VA
Walters Art Museum, Baltimore, MD
Walt Disney/ France Pavillon Epcot, FL

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, Liège
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'Orsay, Paris
Le Musée des Antiquités Nationales de Saint Germain en Laye
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
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 L. Louvain la Neuve, Belgium
Musée M leuven, Belgium
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 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 Shrine, Melbourne, Australia
TMAG, Hobart, Tasmania
Univerity of Melbourne, Old Quad, Multivocal, Australia



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