

Mounting Guide ULS Mirror Epson EB-L6/7/8-Series



Thank you for choosing a ULS Mirror System.

By following the steps outlined in this mounting guide, you will ensure reliable performance and long-term satisfaction with the product.

Introduction / Purpose of This Mounting Guide:

This mounting guide demonstrates how to install the ULS Mirror Set together with the appropriate Projector Plate onto the projector. It details recommended positioning relative to the projector body, the pole connection at the ULS Base Plate, and the ball-head orientation on the mirror itself. These recommendations are derived from both precise calculations and extensive practical testing.

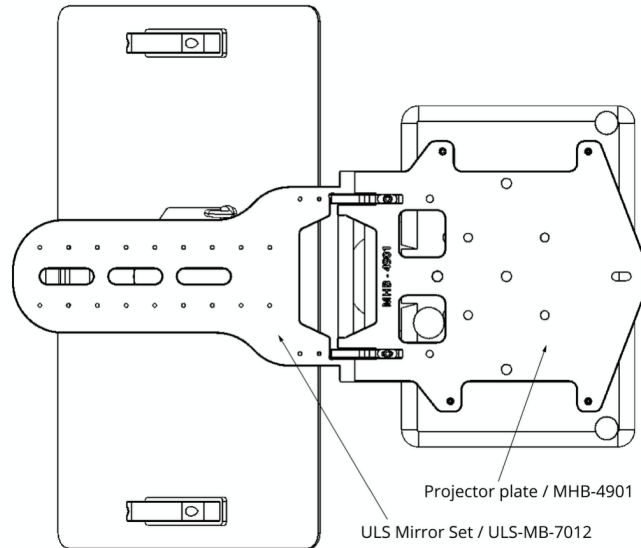
⚠ Safety Notice

This device has left our company in perfect condition. To maintain this condition and ensure safe operation, all safety instructions and warning notes must be followed.

- Never look directly into the light source of the connected projector.
- Keep children away from the device and installation area at all times.

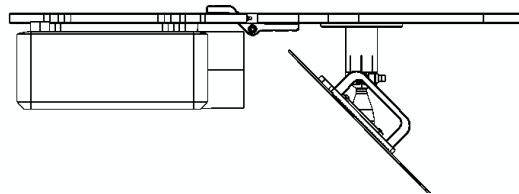
For detailed safety guidelines, technical definitions, and further information, please refer to the official ULS Mirror Manual (June 2025), available at:

https://dynamicprojection.com/transfer/ULS/ULS_Manual_V14_June2025.pdf



This mounting guide applies to the ULS Mirror variants for Epson EB-L6 / EB-L7 / EB-L8 Series projectors with fixed, non-exchangeable lenses. As these projector models are equipped with different optical systems, the throw ratio varies depending on the specific model. The respective throw ratios are listed in the table below and form the basis for selecting the appropriate ULS Mirror Set.

Three ULS Mirror sets are available. Depending on the lens used — and therefore on the throw ratio — as well as the mirror deflection angle, different mirror sizes and pole heights may be required. The values listed below apply exclusively to a 90° vertical deflection; different deflection angles require separate calculations. Larger mirror sizes than the listed minimum requirement may also be used.



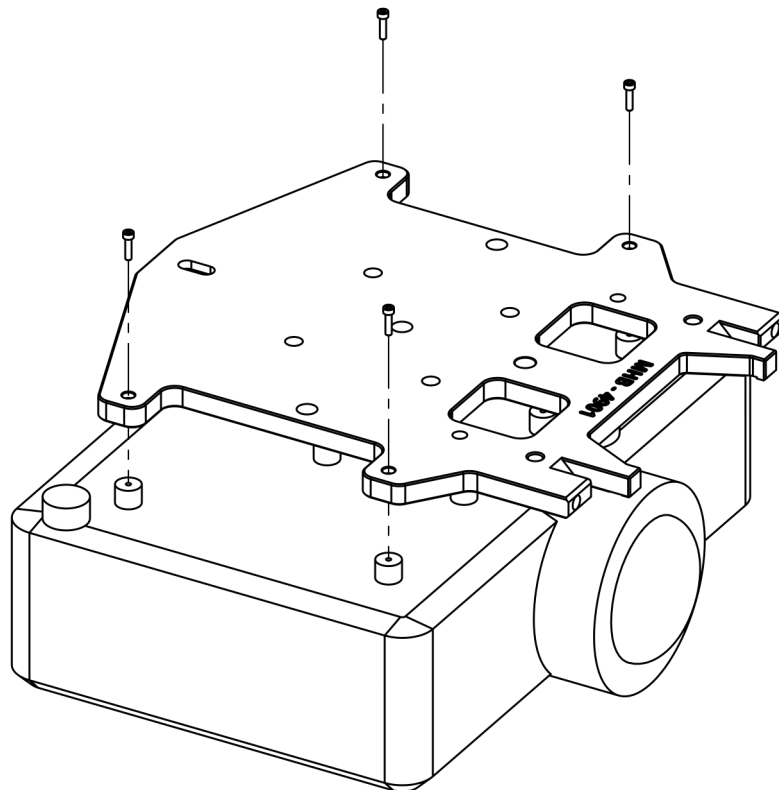
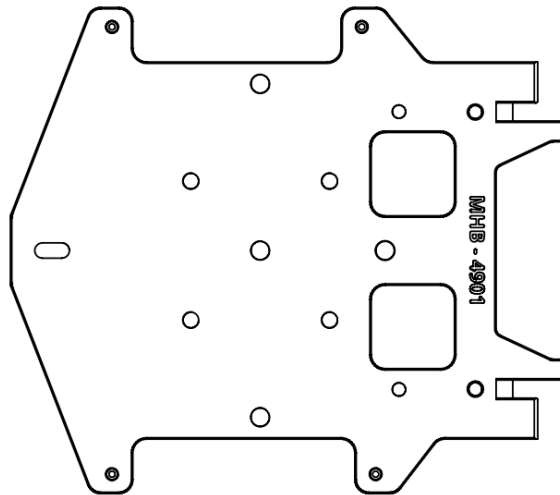
3LCD Laser Projector Model	Lens T.R.	ULS Mirror Set	Mirror size **	Pole
EB-L690SE / 695SE / 795SE*	0.5 - 0.7:1	ULS-MB-7012*	700 x 480	P120
EB-L690SU / 695SU / 790SU / 895SU	0.79 - 1.36:1	ULS-MB-4808	480 x 320	P088
EB-L690U / 790U / 890U / 890E	1.35 - 2.20:1	ULS-MB-3405	340 x 250	P056

* The calculated required throw ratio onto the mirror is approximately 0.5:1. For project planning, we recommend using a minimum throw ratio of approximately 0.53:1 instead, to allow for installation tolerances and final on-site adjustments. This approach helps to avoid working too close to the optical limit and gives the installation team some practical flexibility during setup.

** Dimensions in mm



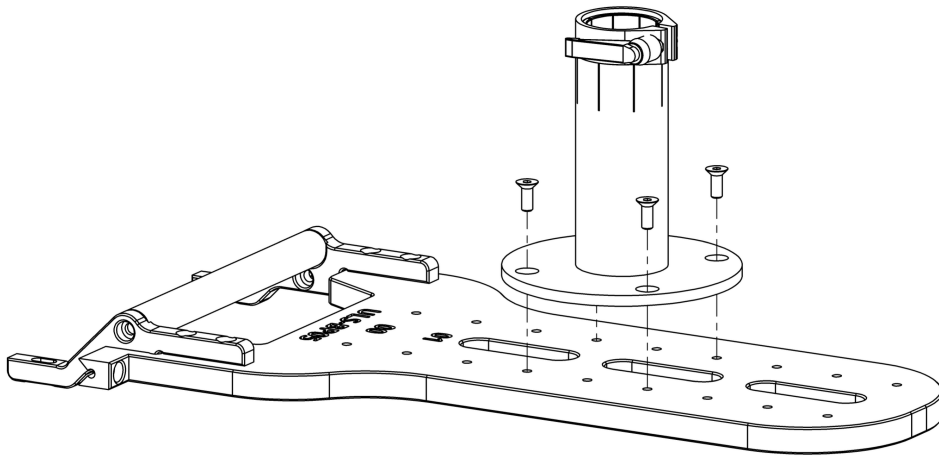
1. Place the Projector plate MHB-4901 onto the projector by using 4x M4 x 16 socket screws. Ensure that the correct side of the Projector Plate is facing.



- 2 Mount the ULS Pole onto the ULS Base plate ULS-BP05 / ULS-BP09 using the 4x M6 x 16 countersunk socket screws (Senkschrauben mit Innensechskant) as shown below.

Depending on the mirror size and the lens used, please follow the recommended Position (00 - 06) on the ULS Base plate as indicated in the list below.

In any case, ensure that the mirror is mounted in a way that prevents any risk of damaging the projector lens.



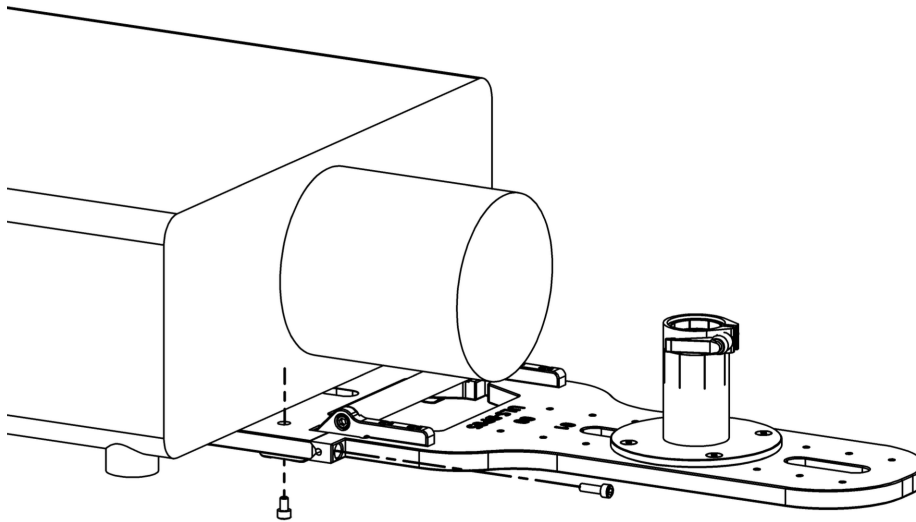
3LCD Laser Projector Model	Lens T.R.	Mirror size **	Pole	Base plate
EB-L690SE / 695SE / 795SE	0.5 - 0.7:1*	700 x 480	P120	Position 02
EB-L690SU / 695SU / 790SU / 895SU	0.79 - 1.36:1	480 x 320	P088	Position 01 - 02
EB-L690U / 790U / 890U / 890E	1.35 - 2.20:1	340 x 250	P056	Position 01 - 05
EB-L690U / 790U / 890U / 890E	1.35:1	340 x 250	P056	Position 02

* The calculated required throw ratio onto the mirror is approximately 0.5:1. For project planning, we recommend using a minimum throw ratio of approximately 0.53:1 instead, to allow for installation tolerances and final on-site adjustments. This approach helps to avoid working too close to the optical limit and gives the installation team some practical flexibility during setup.

** Dimensions in mm



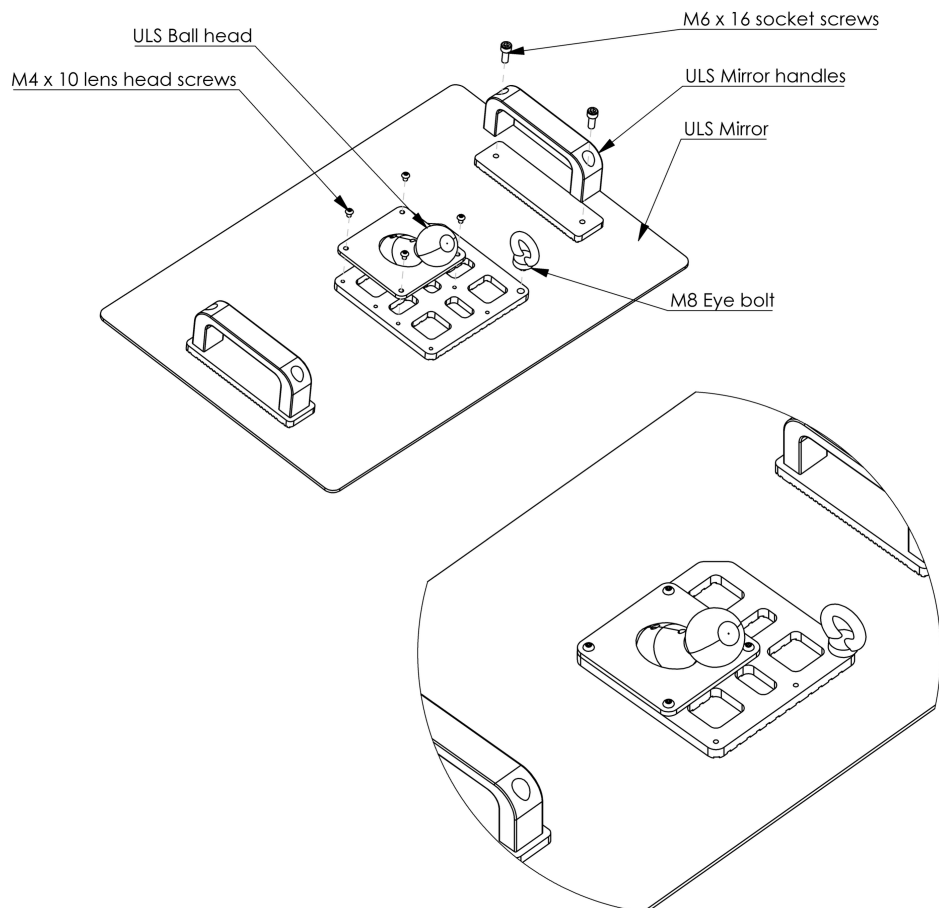
- 3 Mount the ULS Base Plate ULS-BP05 / ULS-BP02 onto the Projector Plate MHB-4901 by using 2x M6 x 20 socket screw and from below 2x M6 x 12 socket screws.





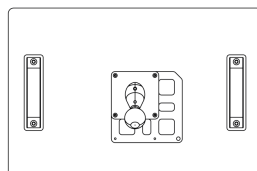
4 Mirror assembly – the figure shows a ULS-M340 mirror (340 x 250 mm)

An M8 eye bolt is provided for attaching a safety wire. For any overhead installation, the use of a certified safety wire is mandatory.



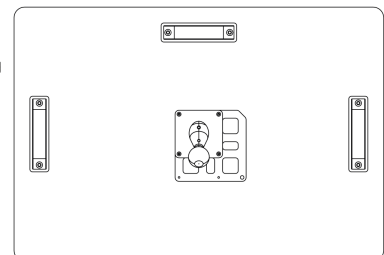
ULS Mirror M480

- Removable handles.
- Changeable positions of ball head
- Mirror size 480 x 340 mm
- Code: ULS-M480



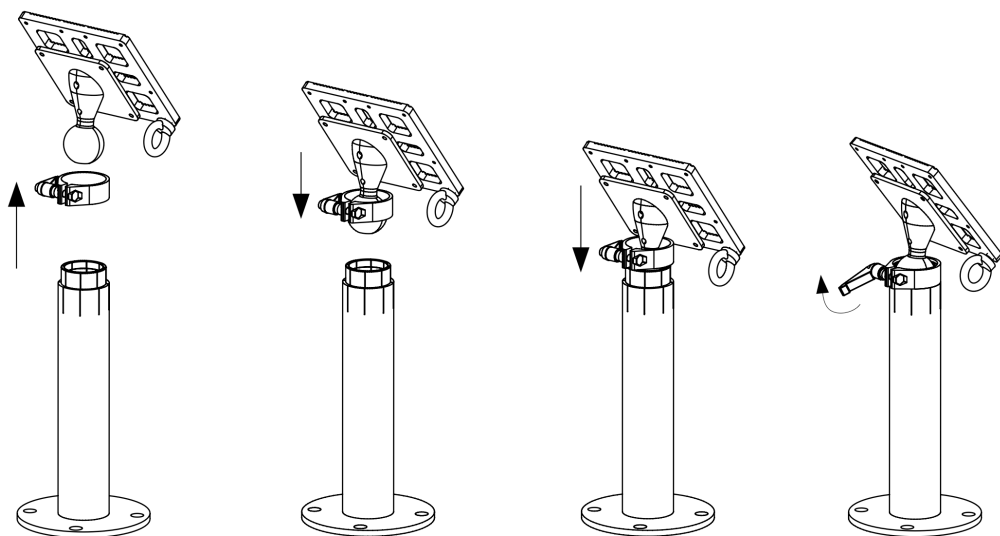
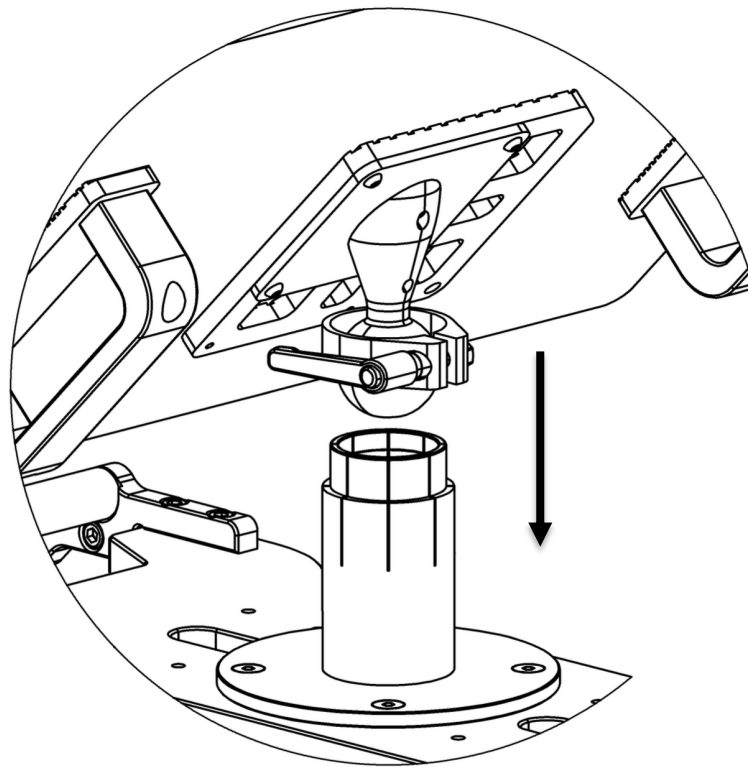
ULS Mirror M700

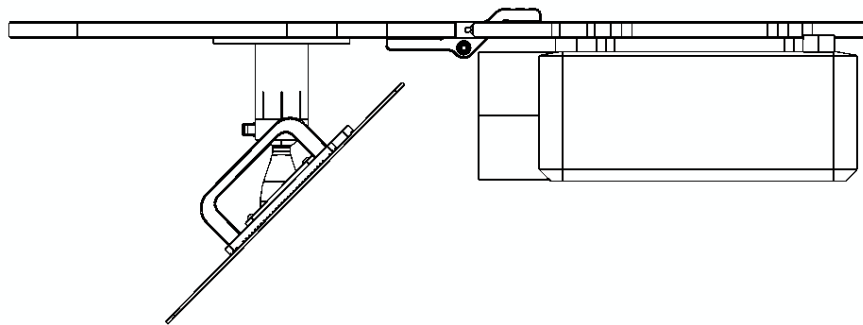
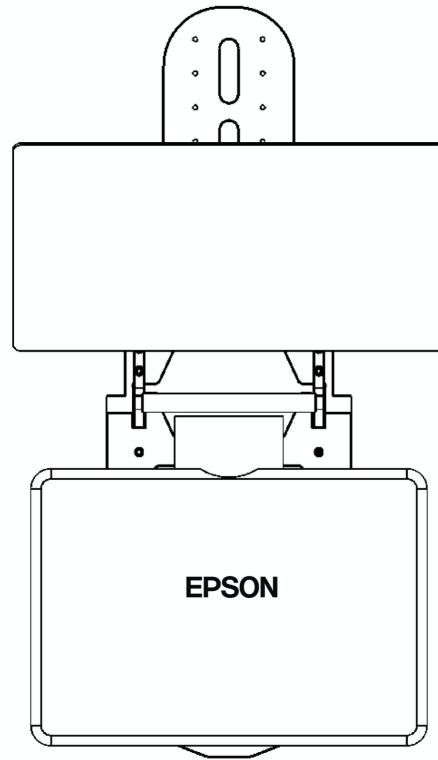
- Removable / changeable handles.
- Changeable positions of ball head
- Mirror size 700 x 480 mm
- Code: ULS-M700





- 5 Place the ring clamp over the ball head, push the ball head in the ULS Pole ball socket and secure the position with the locking lever.

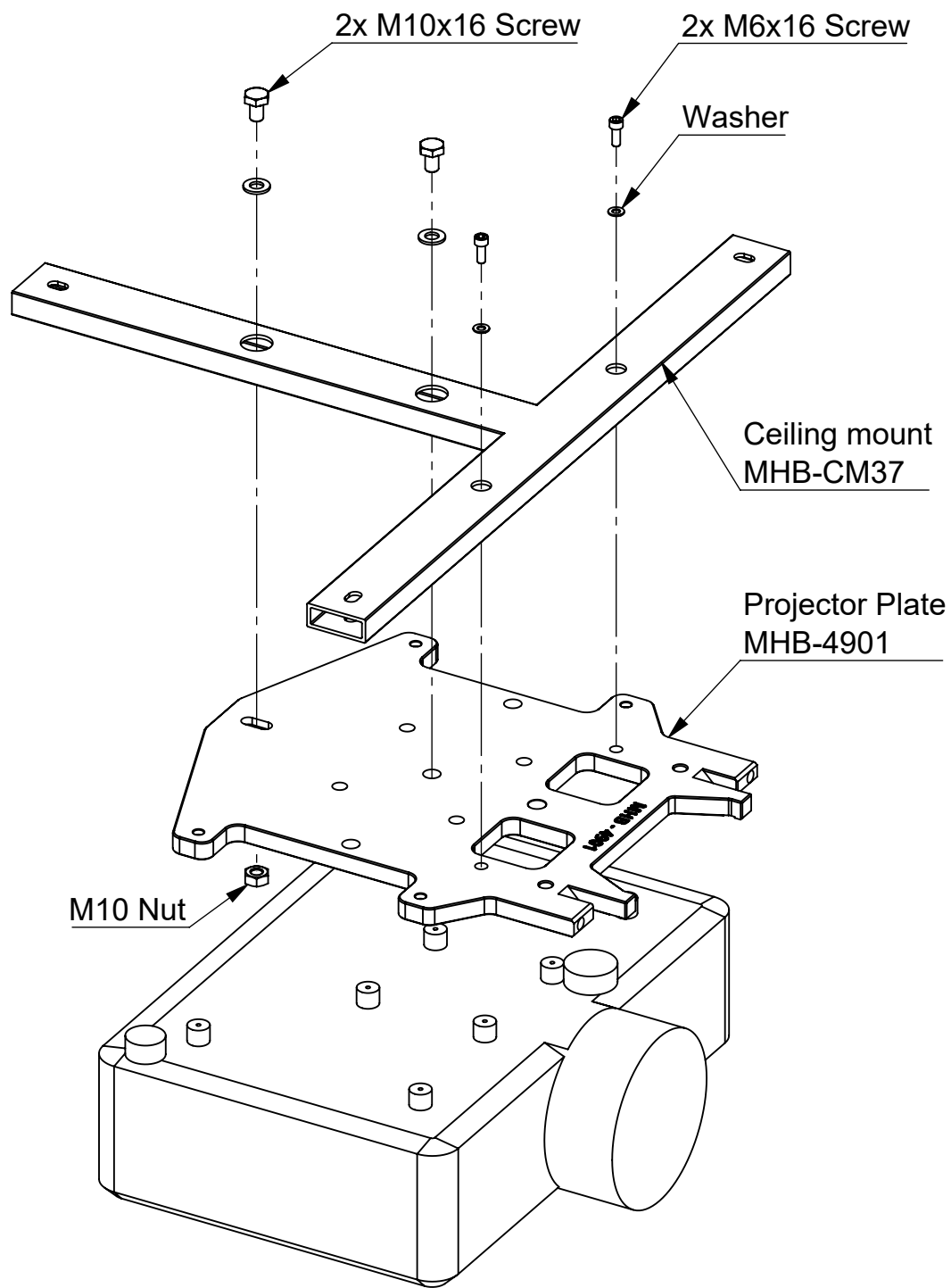




EPSON EB-L690SU + ULS Mirror M480 (ULS Mirror Set 48/08)

Extended information regarding mounting configurations, mechanical integration, and safety instructions can be found in the official installation manual. Please consult the ULS - manual on our website for complete guidance.

https://dynamicprojection.com/transfer/ULS/ULS_Manual_V14_June2025.pdf



WENN NICHT ANDERS DEFINIERT:
TOLERANZEN:

DIN ISO 2768-1 m

OBERFLÄCHENBESCHAFFENHEIT:

ENTGRATEN
UND SCHARFE
KANTEN
BRECHEN

ZEICHNUNG NICHT SKALIEREN

ÄNDERUNG



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INSTITUTE

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	NAME	SIGNATUR	DATUM			
GEZEICHNET			7.7.2026			
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GENEHMIGT						
PRODUKTION						
QUALITÄT				WERKSTOFF:		
				GEWICHT:		

BENENNUNG:

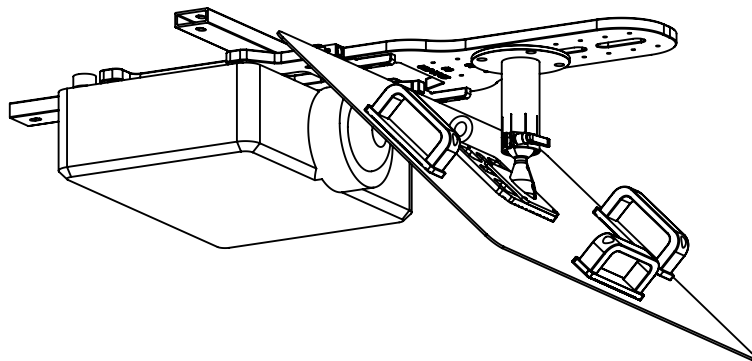
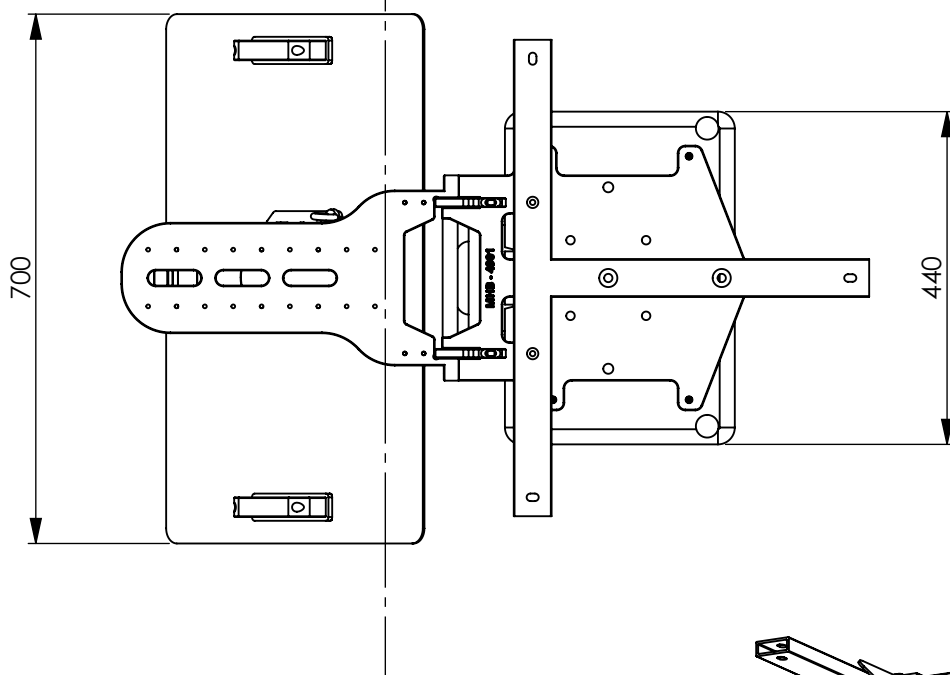
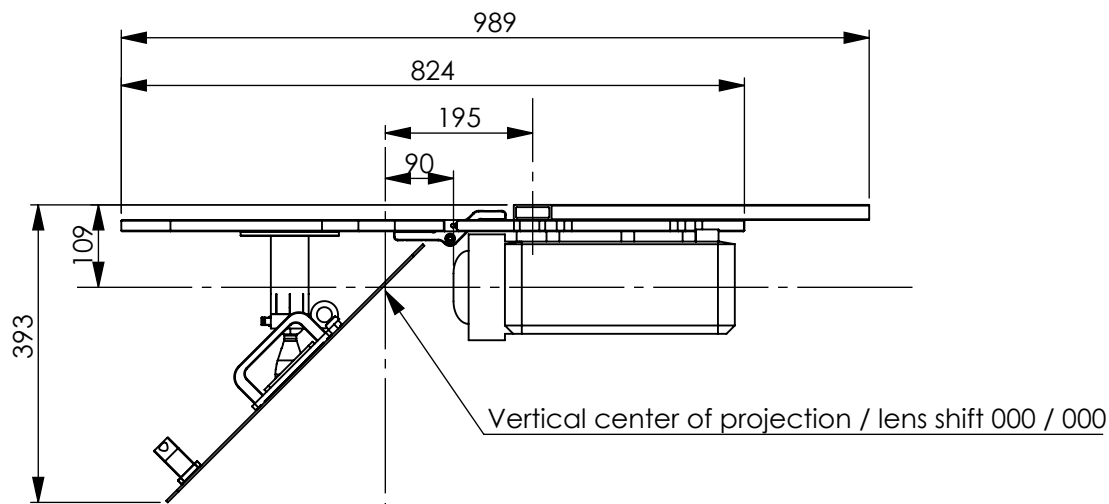
How to mount the ceiling mount
MHB-CM37 to the Projector Plate

ZEICHNUNGSNR.
DPI-MHB-4901_MHB-CM37

A4

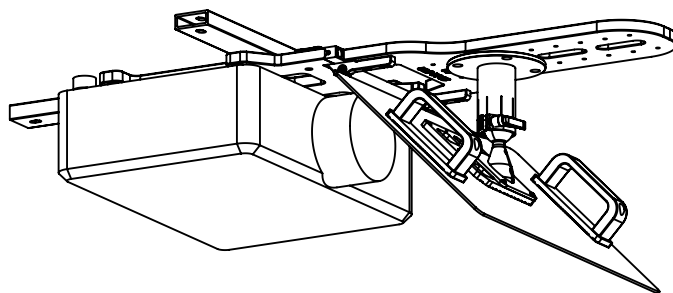
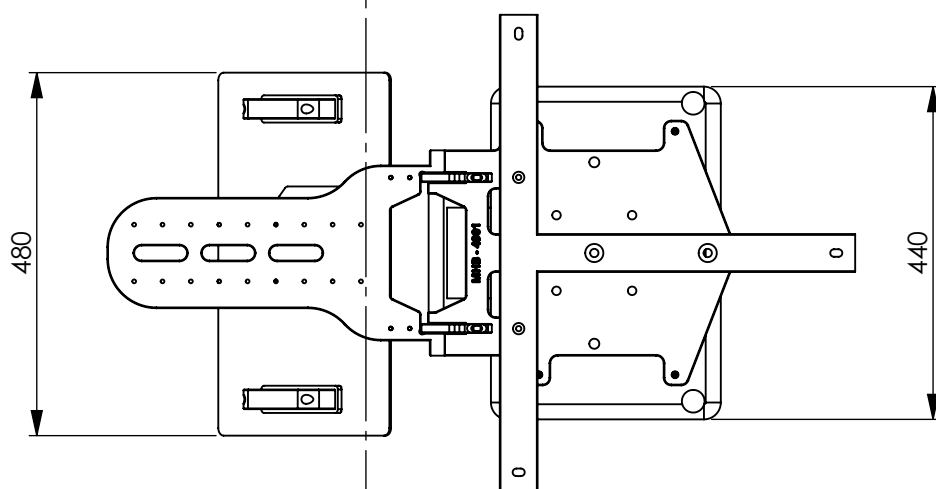
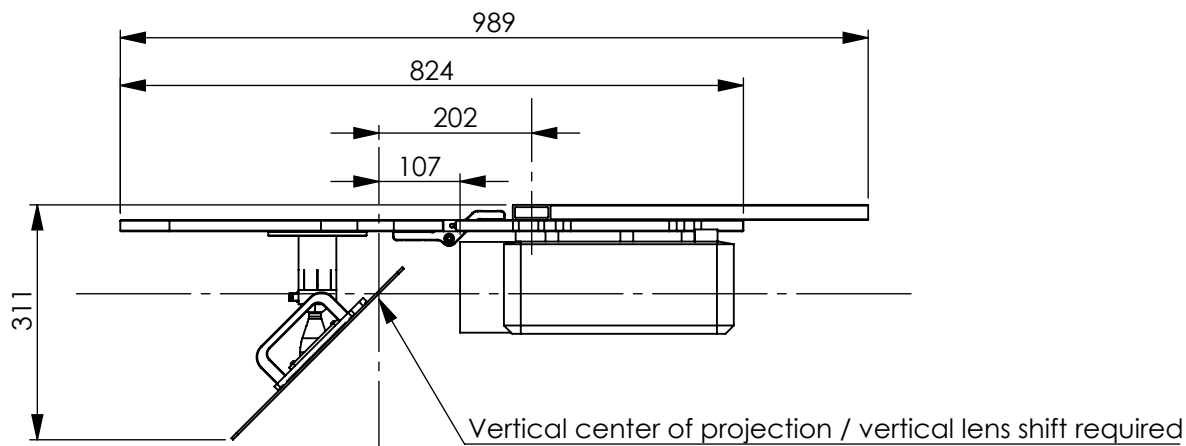
MASSSTAB: 1:10

BLATT 1 VON 1



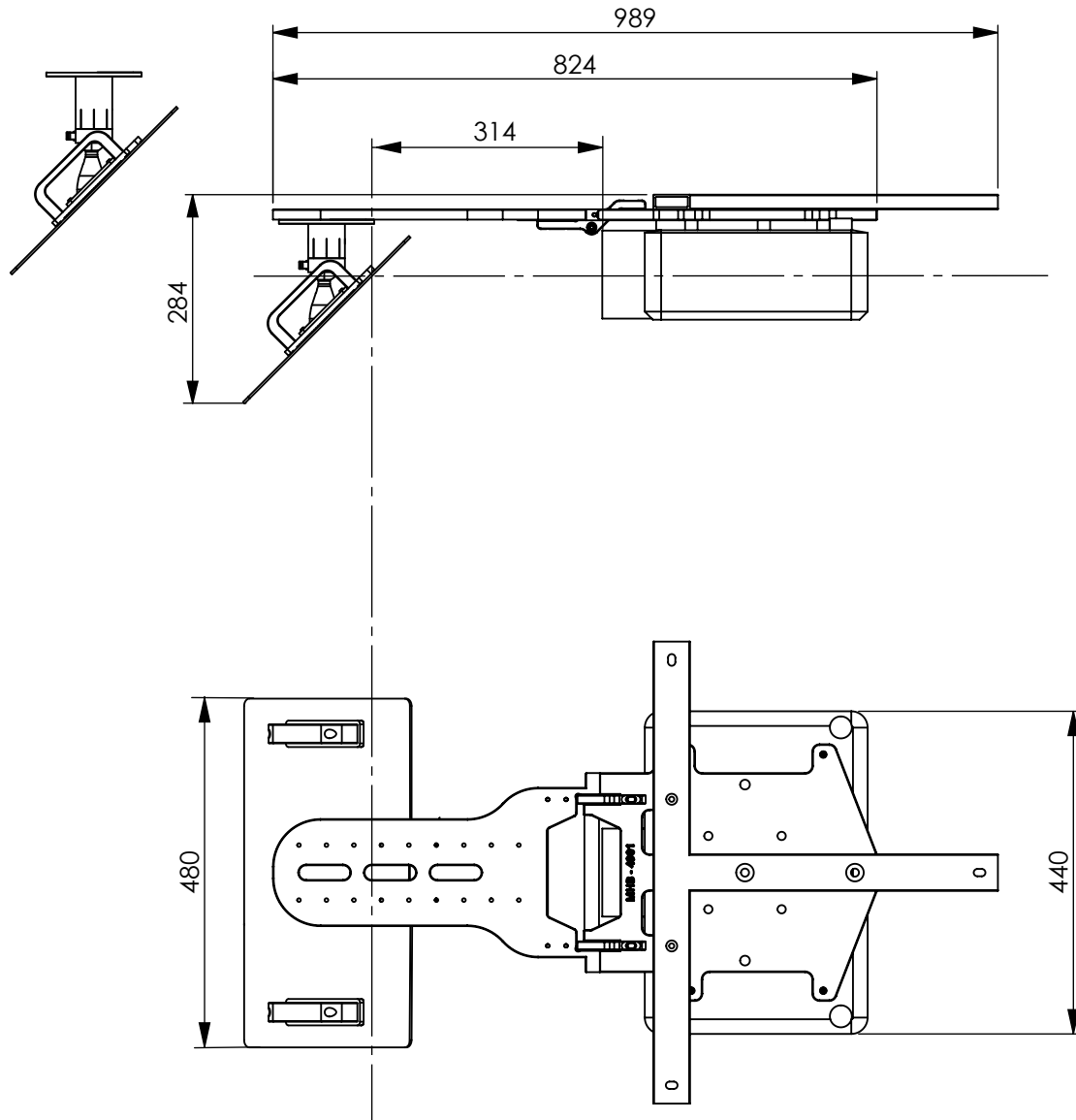
Mirror Size M700 = 700 x 480 mm / Pole P120 - Pos 02

WENN NICHT ANDERS DEFINIERT: TOLERANZEN: DIN ISO 2768-1 m		OBERFLÄCHENBESCHAFFENHEIT:		ENTGRATEN UND SCHARFE KANTEN BRECHEN		ZEICHNUNG NICHT SKALIEREN		ÄNDERUNG	
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NAME		SIGNATUR		DATUM		BENENNUNG:			
GEZEICHNET				28.5.2026		ULS-MB-7012 with Epson EB-L690SE and Ceiling mount MHB-CM37			
GEPRÜFT									
GENEHMIGT									
PRODUKTION									
QUALITÄT				WERKSTOFF:		ZEICHNUNGSNR.		A4	
						DPI-ULS-MB-7012-Epson_EB-L690SE_MHB-CM37			
				GEWICHT:		MASSSTAB: 1:10		BLATT 1 VON 1	



Mirror Size M480 = 480 x 320 mm / Pole P88 - Pos 1

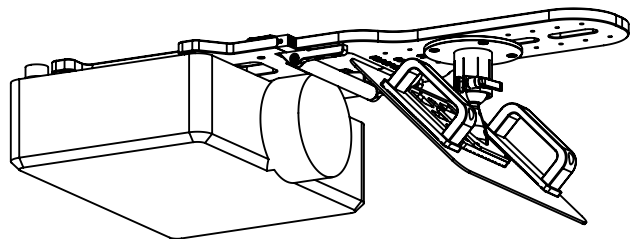
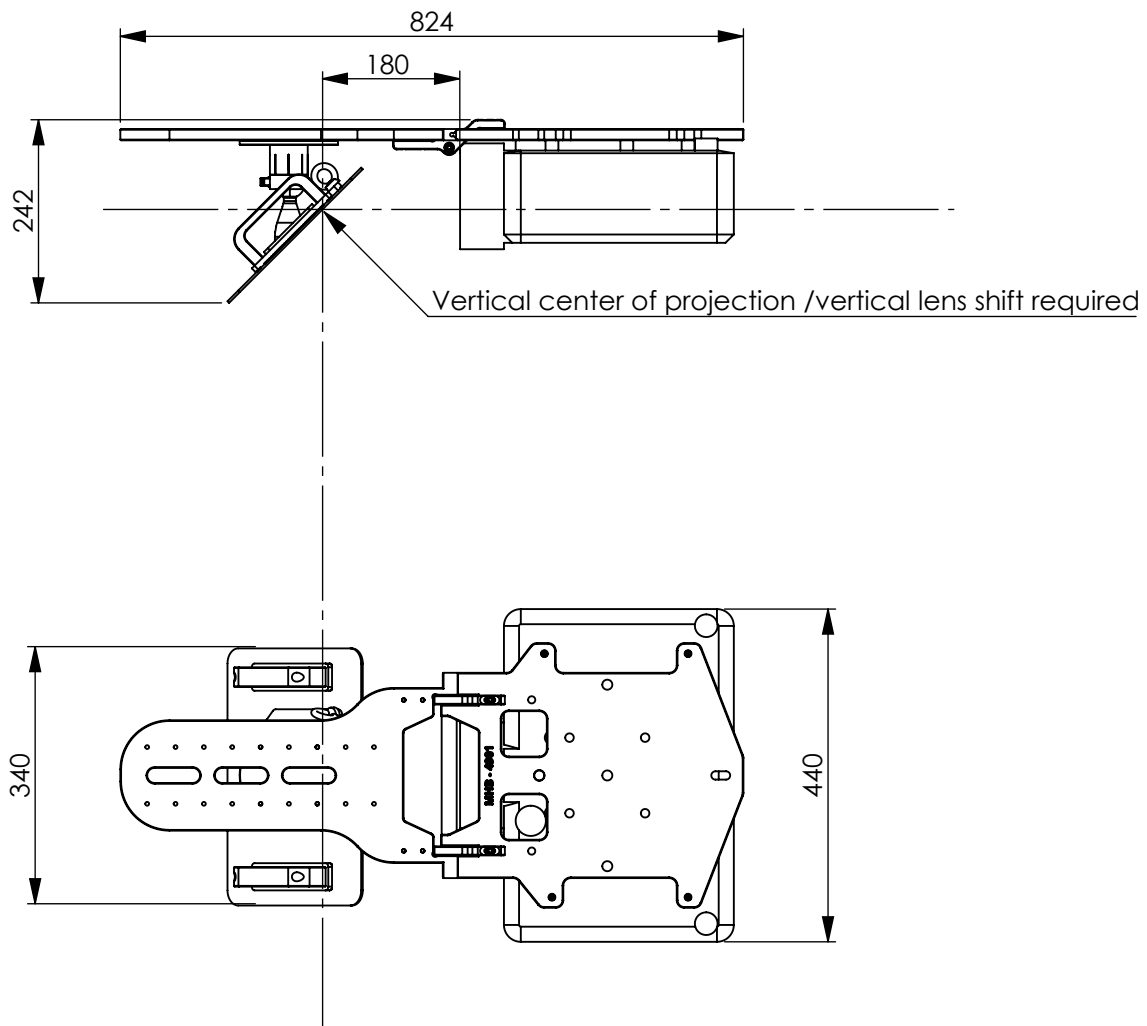
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		NAME		SIGNATUR		DATUM		BENENNUNG:	
GEZEICHNET						28.5.2026		ULS-MB-4808 with Epson EB-L690SU and Ceiling mount MHB-CM37	
GEPRÜFT									
GENEHMIGT									
PRODUKTION									
QUALITÄT						WERKSTOFF:		ZEICHNUNGSNR.	
								DPI-ULS-MB-4808-Epson_EB-L690SU_MHB-CM37	
						GEWICHT:		MASSSTAB: 1:10	
								BLATT 1 VON 1	
								A4	



Mirror Size M480 = 480 x 320 mm / Pole P056 - Pos 6

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						BENENNUNG:			
						ULS-MB-4805 with Epson EB-L690SU T.R.: 1.36:1 and Ceiling mount MHB-CM37			
						ZEICHNUNGSNR.		A4	
						DPI-ULS-MB-4805-Epson_EB-L690SU_1.36:1_MHB-CM37			
						MASSSTAB: 1:10		BLATT 1 VON 1	

GEZEICHNET	NAME	SIGNATUR	DATUM		
GEPRÜFT			1.7..2026		
GENEHMIGT					
PRODUKTION					
QUALITÄT				WERKSTOFF:	
				GEWICHT:	



Mirror Size M340 = 340 x 250 mm / Pole P056 - Pos 02

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	NAME	SIGNATUR	DATUM			BENENNUNG:			
GEZEICHNET			06.07.2026			ULS-MB-3405 + MHB-4901 with Epson EB-L690SU for throw ratio 1.35:1			
GEPRÜFT									
GENEHMIGT									
PRODUKTION									
QUALITÄT				WERKSTOFF:		ZEICHNUNGSNR.		A4	
						DPI-ULS-MB-3405_EB-L690SU			
				GEWICHT:		MASSSTAB: 1:10		BLATT 1 VON 1	