

## Ceiling/Ambient Light Rejecting (CLR®/ALR) Front Projection Materials Comparison

Date: February 9, 2021

Material Name	CLR®	CLR® 2	CLR® 3	CineGrey 5D®	CineGrey 3D®	Dark Star® 9
On-axis peak gain	0.60	0.9	0.8	1.5	1.2	0.9
Viewing angle	180°	160°	170°	80°	90°	180°
Ambient Light Rejection	95%	85%	80%	75%	65%	95%
Half Gain	90°	80°	85°	40°	45°	90°
Surface Color	Black	Silver Gray	Black	Silver Gray	Silver Gray	Black
Texture	Fine	Micro	Fine	Micro	Micro	Micro
Reflection type	Retro Reflective	Retro Reflective	Retro Reflective	Angular Reflective	Angular Reflective	Retro Reflective
Black Backing	Yes	Yes	Yes	No	No	Yes
Fabric Projection Layer	Single Layer Coating	Multi-Layer Coating	Single Layer Coating	Single Layer Coating	Single Layer Coating	Single Layer Coating
Composition	eco-friendly TPU	PET	eco-friendly TPU	PVC	PVC	PET
Anti-Scratch Surface	No	Yes	No	Yes	Yes	No
Projector type compatible	Ultra-short throw	Ultra-short and Short throw	Ultra-short throw	*Short and Standard Throw	*Short and Standard Throw	Standard Throw
Projector installation	Tabletop mounted	Tabletop mounted	Tabletop mounted	Tabletop/Ceiling	Tabletop/Ceiling	Tabletop/Ceiling
Throw Ratio	0.1 - 0.6	0.23 - 1.2	0.1 - 0.6	0.8 - 2.0	0.8 - 2.0	1.5 - 3.0
Resolution	8K	8K	8K	8K	8K	8K
Maximum Size	120" 16:9	103" 16:9	123" 16:9	~ 200" 16:9 - Fixed Frame & Electric ~ 140" 16:9 Manual Tab-Tension ~110" 16:9 Tripod Tab-Tension	~ 135" 16:9 - Fixed Frame & Electric *** ~ 120" 16:9 Manual Tab-Tension *** ~85" 4:3 Tripod Tab-Tension	106" / 122" 16:9, 156" 2.35:1 Fixed Frame
Available in screens	Fixed Frame Electric - Wall/Ceiling, Electric Floor-Rising	Fixed Frame Electric - Wall/Ceiling (External), Electric In-Ceiling Dry Erase Whiteboard Screen ***Tripod Tab-Tension ***Yard Master 2	Fixed Frame   ***Electric Tab-Tension   *** Floor Tab-Tension   Portable Folding Frame & Tripod Tab-Tension	Fixed Frame Electric - Wall/Ceiling (External), Electric In-Ceiling ***Manual Tab-Tension ***Tripod Tab-Tension	Fixed Frame ***Electric Tab-Tension ***Manual Tab-Tension ***Tripod Tab-Tension	Fixed Frame
ISF Certified (True RGB)	No	Yes	No	Yes	Yes	Yes
Rigidity	Rigid	Semi Rigid	Rigid	Flexible	Flexible	Rigid

\* Lens throw ratio must be equal to or greater than 0.8

\*\*\* Coming in 2021

ISF Certified (True RGB)

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