



## Schneider Innovations

Schneider Cinema lenses have been selected for use in the finest theatres worldwide, because they meet the highest standards of performance demanded by today's large screens and stadium seating cinemas.

The new ES Cinelux Anamorphic 2X MC lens builds on that tradition of quality leadership and extends it into the new era of high performance cinemas with wall-to-wall screens.

When integrated with Schneider's Super-Cinelux prime lenses, the F/2.0 combination delivers a brighter, more evenly illuminated image, that has the highest possible contrast and resolution.

The Schneider Super-Cinelux 35 are the industry's only lenses available in focal lengths from 24mm to 85mm with 2mm and 2.5mm increments.

By precisely matching lens focal length to screen size, all available light and image is put on the screen, not wasted in the masking.

Our free Theatre Design Pro software makes it fast and easy to select the right lens for your theatre, and then determine the correct screen curve and tilt that you may require for best performance. It covers all of the existing formats, and displays actual key-stoning and distortion measurements, so that you can minimize them.

The Schneider lens factory in Bad Kreuznach, Germany has been constantly upgraded since opening in 1913 and it is registered to ISO 9001, the highest global quality standard.

# ES CINELUX ANAMORPHIC

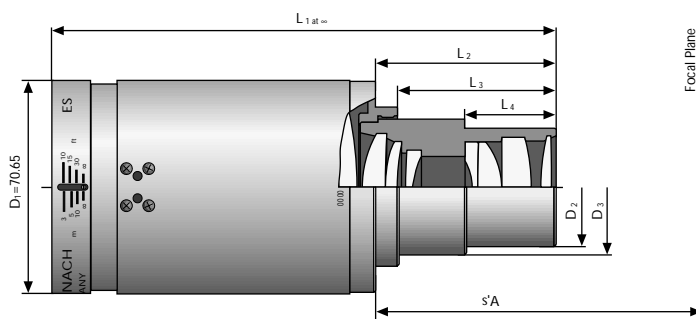
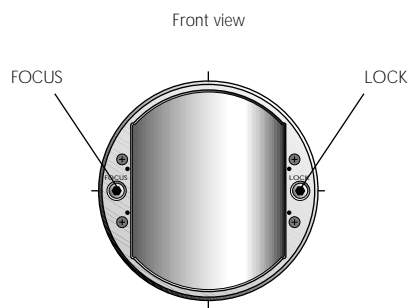
This new ES Cinelux Anamorphic 2X MC projection lens delivers extremely wide angle images with the high performance in resolution, contrast, and screen brightness, that you have come to expect from all Schneider lenses. Even at 42.5 mm this F/2.0 lens system's illumination is uniform from corner to corner, allowing virtually all of the light from today's larger lamphouses to be transferred to the biggest of screens.

The ES Cinelux Anamorphic system is extremely short, making it available as an integrated solution from 42.5mm to 100mm. It's new

design allows it to share a turret with wide-angle flat lenses, even as wide as 24mm. It features a more robust and secure micro-focus and locking mechanism. Focus and locking are done with a compact 3mm metric ball-head tool supplied with each lens. Because the focus and lock mechanisms can only be operated with this tool, these lenses are less likely to be subjected to unauthorized adjustment. While preventing tampering, this method of focusing offers easy front access, and precise adjustment. This will help ensure consistently sharper images, and reduce projection support costs.

The performance of any lens is determined by the type and quality of the glass used, the elegance of the lens design, and the quality control and skill used in the manufacturing process. The number of elements in a lens design doesn't determine lens quality or performance, it's how well these elements are made and combined, that does.

These lenses have a tube diameter of 70.65mm and their minimum projection distance is 3 meters (9 feet). Because of their wide focal length and focusing range, they are the solution for wide screen multiplex theatres, as well as screening rooms.



Focal Length [mm]	Diameter [mm]		Length [mm]				Flange Focal Distance [mm]	Back Focal Distance [mm]	Article Number
f'	D <sub>2</sub>	D <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	s'A <sub>∞</sub>	s'F'	
42.5	40.0		155.1	44.0			74.4	33.0	26233
45	40.0		154.6	43.5			77.0	35.53	26234
47.5	40.0		154.6	43.5			79.1	37.38	26235
50	39.0		157.4	44.8			75.5	33.19	26236
52.5	39.0	43.0	165.6	53.0	30.0		84.0	34.36	26237
55	39.0	43.0	163.6	51.0	30.0		84.0	36.59	26238
57.5	39.0	43.0	167.1	54.5	30.0		87.0	36.44	26239
60	35.0	43.0	144.6	32.0	23.6		72.0	41.44	26240
62.5	39.0		152.6	40.0			77.1	41.31	26241
65	39.0		152.6	40.0			77.7	44.92	30775
67.5	39.0		160.6	45.0			84.6	43.01	26246
70	39.0		160.6	45.0			84.6	47.13	30784
72.5	39.0		163.6	48.0			91.6	47.25	26256
75	39.0		163.6	48.0			91.4	50.57	30788
77.5	39.0	51.0	162.0	46.0		20.0	95.2	51.60	36388
80	39.0	51.0	159.6	43.6		20.0	95.1	53.40	36394
82.5	39.0	51.0	164.8	48.8		20.0	101.0	54.96	36404
85	39.0	51.0	162.7	46.7		20.0	101.0	56.60	36411
90	42.0	54.0	168.1	52.0	36.5		111.6	61.15	26260
95	46.0	57.0	171.0	52.4	39.4		114.0	63.60	26261
100	50.0		172.9	35.3			101.0	67.90	26262

# SUPER-CINELUX 35

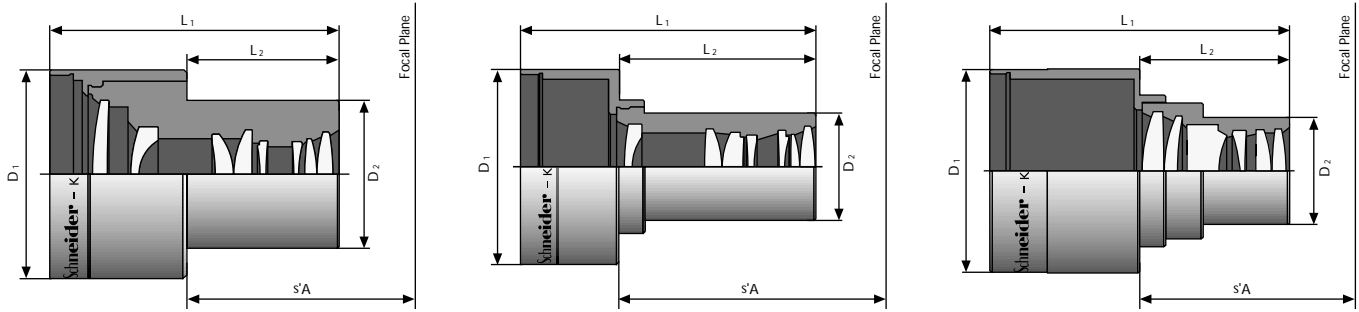
Choosing the perfect projection lens just got a lot easier...with Schneider's 2mm focal length steps.

Found in, by far, the most cinemas Schneider Super-Cinelux 35 lenses have long been the choice for uncompromising optical performance. Now that we have redesigned the short focal length portion of our line and

added a range of new lenses in increments of 2mm and 2.5mm it is easy to fill your screen with extraordinary sharp and bright images that are the right size. Forget about image-degrading screen overfill that dumps precious light into the masking.

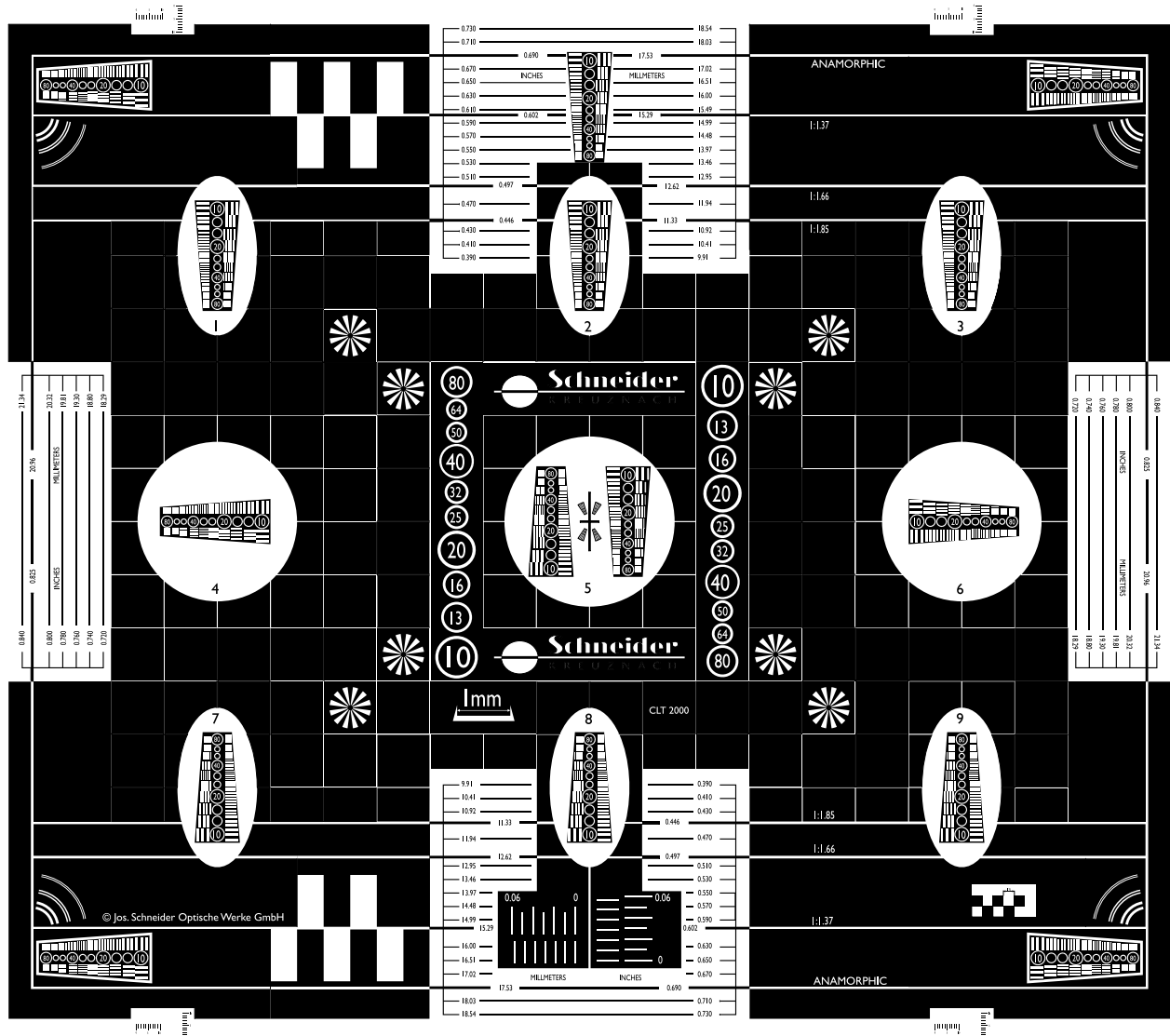
Because of their exceptional depth of field and distortion correction, only Schneider

Super-Cinelux lenses meet the high standards of performance demanded by today's large curved screens and quality demanding theatre audiences. For the ultimate in extra-wide performance, our new wide lenses starting with the 24mm which is the widest F/2.0 image in history.



Focal Length [mm]	Relative Aperture	Diameter [mm]			Length [mm]				Flange Focal Distance [mm]		Back Focal Distance [mm]	Number of Elements	Article Number	
		D <sub>1</sub>	D <sub>1</sub>	D <sub>2</sub>	70.65	62.50	70.65	62.50	70.65	62.50			70.65	62.50
f'	k	D <sub>1</sub>	D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>2</sub>	s'A	s'A	s'F'			
24		70.65	62.50	39	98.0	91.0	51.5	51.5	80.0	80.0	30.53	8	12644	12645
26					97.0	90.0	50.5	50.5			31.29	8	12191	12192
28					107.2	101.2	71.2	71.2			30.01	7	11555	11556
30					107.0	101.0	71.0	71.0			30.24	7	18968	19061
32.5					107.0	101.0	71.0	71.0			31.59	7	19073	19092
35					107.1	107.1	71.1	71.1			32.63	7	19095	19131
37.5					100.5	100.5	64.5	64.5			38.69	7	19299	19300
40					103.3	103.3	67.3	67.3			35.95	7	19431	19432
42.5					103.5	91.6	70.6	52.5			82.9	7	19438	19439
45					103.0	91.1	70.1	52.0			103.6	7	19442	19445
47.5				103.0	91.1	70.1	52.0	105.7	7	19503	19512			
50				106.3	96.4	70.3	36.4	101.0	67.1	33.19	7	39773	10497	
52.5				106.0	106.0	70.0	70.0		101.0	34.36	7	14153	14154	
55				104.0	104.0	68.0	68.0		101.0	36.59	7	14155	14156	
57.5	2.0			104.0	107.5	68.5	71.5		104.0	36.44	7	14159	14161	
60				97.1	83.6	61.1	23.6		63.5	41.44	6	39871	10499	
62.5				99.0	99.0	63.3	63.3		100.4	41.31	6	26215	26216	
65				99.0	99.0	63.3	63.3		101.0	44.92	6	30773	30774	
67.5				97.0	97.0	61.4	61.4		101.0	43.01	6	26217	26218	
70				97.0	97.0	61.2	61.4		101.0	47.13	6	30781	30783	
72.5		93.0	93.0	57.6	57.6	101.3	47.25		6	26219	26226			
75		93.0	93.0	57.5	57.6	101.0	101.0	50.57	6	30785	30787			
77.5		101.0	101.0	51.8	46.0		95.2	51.6	6	36385	36387			
80		98.6	98.6	49.4	43.6		95.2	53.44	6	36390	36392			
82.5		103.8	103.8	48.8	48.8		101.0	54.96	6	36401	36403			
85		101.7	101.7	46.7	46.7		101.0	56.66	6	36406	36410			
90		93.5	94.5	41.5	36.5		96.0	61.15	6	39775	10525			
95		95.4	107.1	39.4	39.4		101.0	63.60	6	39876	10526			
100		91.3	95.3	35.3	35.3			67.90	6	39877	10527			

# TEST FILM CLT 2000



In today's stadium theatres the focus is on high quality cinema images and large screens. This requires a new measurement tool to evaluate and compare lens system performance. The new Schneider Test Film CLT 2000 is such a tool. This Test Film is the only one designed specifically for lens performance evaluation, in addition to the other standard functions such as format verification, and projector steadiness testing. This Test Film was deliberately designed to be a very tough test for cinema lenses. Schneider Cinema lenses have nothing to fear from this Test Film, but even Schneider lenses need their

performance verified at regular intervals. Here are a few of the many unique features of this film:

- MTF test patterns (up to 100 LP/mm) are located at areas that are critical for anamorphic evaluation, as well as for flat lenses.
- The horizontal and vertical grid allow evaluation of lens distortion as well as keystoneing and curved screen geometric distortion.
- The high contrast black background reveals excess projector heat problems. It also shows lens chromatic aberration clearly.

- All common formats are shown, with their inch and metric units readily visible, for filing plates.
- The high contrast of this Test Film is ideal for evaluating lens flare and veiling glare.
- Format dimensions correspond to SMPTE recommended practices and standards.

Available in 13, 50, 100 and 200 feet.

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