



Schneider - KREUZNACH

LENS MADE IN GERMANY

*Première*

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# CINELUX PREMIÈRE

25 lenses with focal lengths of 32.5 to 100 mm, stepless aperture f/1.7... f/4.0



## High-performance lenses with aspheric surfaces and a variable iris diaphragm



A large maximum aperture of f/1.7 for an increase in brightness of up to 40% over conventional standard lenses with an aperture of only f/2.0.



An iris diaphragm with stepless adjustment from f/1.7 to f/4.0 for the optimum matching of brightness to the different cinema projection formats with 12 blades for an almost circular aperture to minimize diffraction.

Multiplex theatres with large screens make very high demands on the projection lenses. Our new lens series opens up new design possibilities for cinema presentation in an unsurpassed combination of brightness, flexibility and imaging: Aspheric technology has been combined with adjustable iris diaphragms for the first time. This allows a uniformity of illumination to be achieved over the total image field right from the maximum aperture of f/1.7 – something previously thought impossible. Stopping down a little can actually even increase the already excellent imaging performance.

The integrated variable diaphragm makes it possible for the first time to match the brightness level of the different cinema formats to one another without changing the projector setting.

The depth of field can be visibly increased by stopping down the lens; possible problems with oblique projection or when projecting with subtitles can thus be countered more easily. The marginal sharpness of the image when projecting onto a screen with greater curvature is likewise improved.

With a fully open aperture, the lamp power of the projector can be reduced over that of a Super-Cinelux 35 lens with the same brightness so that less power is consumed; in addition, the service life of the xenon lamp is thus considerably longer.



CINELUX PREMIÈRE 1.7/32.5



CINELUX PREMIÈRE 1.7/60



CINELUX PREMIÈRE 1.7/80



### Multiplex cinema comparison test of screen illumination

The revolutionary Cinelux Première lenses project up to 40% more light than conventional f/2.0 lenses and feature exceptionally uniform illumination right into the corners thanks to high color saturation, deep black and extremely high contrast. Their stepless stopping down capability permits an increase in depth of field (e.g. for a curved or slanted screen). The high resolving power of the Cinelux Première lenses is likewise characterized by amazing consistency over the total image area irrespective of the screen size.

The two figures to the right show the results of comparative measurements of the image brightness and image homogeneity with a standard 40 mm f/2.0 projection lens (top) and the new Cinelux Première (bottom). The measurements were taken in a multiplex cinema using a USL Light Meter™. The two rectangles at the right represent the screen size. The gray areas in the 45 different measurement fields correspond to the relative brightness measured at the center of each measurement field with respect to white = brightest part of the screen center. The numbers show the luminance in foot-lamberts.

3.5	4.6	5.6	6.2	6.6	6.4	5.8	5.2	4.2
5.0	6.2	7.6	8.6	9.0	9.0	8.0	7.0	5.6
5.6	7.0	8.0	9.0	9.4	9.2	8.2	7.2	5.6
5.8	7.0	8.0	8.8	9.0	8.8	8.0	7.0	5.4
5.0	6.4	7.2	7.8	8.2	7.8	7.0	6.0	4.4

Standard projections lens 2.0/40

7.0	8.4	9.6	10.2	10.4	10.4	10.2	9.4	8.2
8.0	9.4	10.4	10.8	11.0	10.8	10.4	10.0	8.8
8.6	10.0	10.8	11.0	11.0	11.0	10.4	10.0	8.8
8.8	10.0	10.6	10.8	10.6	10.6	10.4	9.8	8.6
8.4	9.6	10.2	10.4	10.4	10.2	9.8	9.2	8.0

Cinelux Première 1.7/40