

NEW AMSTERDAM FILM LOOPERS LLC - LENS THROW CHART

A variety of lenses for *Eiki 16mm projectors* are available for rent:

12.5 mm, **16 mm**, **20 mm**, **25 mm**, **35 mm - 65 mm (Zoom Lens)**, **37.5 mm - 62.5 mm (Zoom Lens)**, **50mm (standard)**.

All 16mm projections remain at a fixed 1.37:1 ratio (W:H).

Some of our lenses are homemade; there are slight variations between them in terms of exact throw.

NOTE: All measurements listed below are *approximate*.

LENS > DISTANCE (FEET) v	12.5 mm (0.5")	16 mm (0.625")	20 mm (0.8")
5'	48.75" (W) x 35.5" (H)	27.5" (W) x 20" (H)	25.75" (W) x 18.75" (H)
10'	95.375" (W) x 69.5" (H)	76" (W) x 55.5" (H)	54.75" (W) x 40" (H)
15'	139.5" (W) x 101.75" (H)	108.25" (W) x 79" (H)	79" (W) x 57.75" (H)
20'	185.25" (W) x 135.25" (H)	142" (W) x 103.75" (H)	104.75" (W) x 76.5" (H)
25'	229.5" (W) x 167.5" (H)	177.75" (W) x 129.75" (H)	128.75" (W) x 94" (H)
30'	274.5" (W) x 200.25" (H)	212.25" (W) x 155" (H)	153.75" (W) x 112.25" (H)

LENS > DISTANCE (FEET) v	25 mm (1.0")	35 mm - 65 mm ZOOM (1.4" - 2.6" ZOOM)	37.5 mm - 62.5 mm ZOOM (1.5" - 2.5" ZOOM)
5'	24" (W) x 17.5" (H)	≤ 16" (W) x 11.75" (H)	≤ 14" (W) x 10.25" (H)
10'	47" (W) x 34.25" (H)	≤ 31.75" (W) x 23.25" (H)	≤ 27.75" (W) x 20.25" (H)
15'	68.5" (W) x 50" (H)	≤ 47.25" (W) x 34.5" (H)	≤ 41.25" (W) x 30" (H)
20'	90.5" (W) x 66" (H)	≤ 62" (W) x 45.25" (H)	≤ 54.5" (W) x 39.75" (H)
25'	111.5" (W) x 81.5" (H)	≤ 77" (W) x 56.25" (H)	≤ 68.25" (W) x 49.75" (H)
30'	133.5" (W) x 97.5" (H)	≤ 92" (W) x 67.25" (H)	≤ 82" (W) x 59.75" (H)

LENS > DISTANCE (METERS) v	12.5 mm (0.5")	16 mm (0.625")	20 mm (0.8")
1.5 m	122 cm (W) x 89 cm (H)	68 cm (W) x 50 cm (H)	64 cm (W) x 47 cm (H)
3.0 m	238 cm (W) x 174 cm (H)	187 cm (W) x 137 cm (H)	137 cm (W) x 100 cm (H)
4.5 m	348 cm (W) x 254 cm (H)	267 cm (W) x 195 cm (H)	198 cm (W) x 144 cm (H)
6.0 m	462 cm (W) x 337 cm (H)	350 cm (W) x 255 cm (H)	262 cm (W) x 191 cm (H)
7.5 m	573 cm (W) x 418 cm (H)	438 cm (W) x 320 cm (H)	322 cm (W) x 235 cm (H)
9.0 m	685 cm (W) x 500 cm (H)	523 cm (W) x 382 cm (H)	384 cm (W) x 280 cm (H)

LENS > DISTANCE (METERS) v	25 mm (1.0")	35 mm - 65 mm ZOOM (1.4" - 2.6" ZOOM)	37.5 mm - 62.5 mm ZOOM (1.5" - 2.5" ZOOM)
1.5 m	60 cm (W) x 44 cm (H)	≤ 40 cm (W) x 29 cm (H)	≤ 36 cm (W) x 26 cm (H)
3.0 m	118 cm (W) x 86 cm (H)	≤ 80 cm (W) x 58 cm (H)	≤ 70 cm (W) x 51 cm (H)
4.5 m	172 cm (W) x 125 cm (H)	≤ 118 cm (W) x 86 cm (H)	≤ 104 cm (W) x 76 cm (H)
6.0 m	227 cm (W) x 166 cm (H)	≤ 155 cm (W) x 113 cm (H)	≤ 137 cm (W) x 100 cm (H)
7.5 m	280 cm (W) x 204 cm (H)	≤ 192 cm (W) x 140 cm (H)	≤ 172 cm (W) x 125 cm (H)
9.0 m	335 cm (W) x 244 cm (H)	≤ 230 cm (W) x 168 cm (H)	≤ 206 cm (W) x 150 cm (H)