Christie LHD878-DS lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie LHD878-DS projectors.

Lens	Throw distance formula		Vertical & horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.38:1 fixed* (121-128102-XX)	TD(A2) = 0.29548 x D -24.71634	TD(A2) = 0.751 x D - 62.779	+91.5% /+97.5% V -5% /+5% H	100 to 350	254 to 889
0.8:1 fixed* (121-111104-XX)	TDmin = 0.7973 x W + 3.0716	TDmin = 0.7973 x W + 7.8020	-7.6% /+7.6% V -4.3% /+4.3% H	30 to 600	76.2 to 1524
0.74-0.98:1 zoom (121-136101-XX)	TDmin = 0.7499 x W + 4.0470 TDmax = 0.9792 x W + 4.0131	TDmin = 0.7499 x W + 10.2793 TDmax = 0.9792 x W + 10.1933	-18.5% /+62.7% V -10% / +10% H	60 to 600	152.4 to 1524
1.2-1.8:1 zoom (121-129103-XX)	TDmin = 1.1683 x W + 2.4163 TDmax = 1.7647 x W + 2.3656	TDmin = 1.1683 x W + 6.1375 TDmax = 1.7647 x W + 6.0087	-18.5% /+62.7% V -10% / +10% H	30 to 600	76.2 to 1524
1.7-3.0:1 zoom (121-139105-XX)	TDmin = 1.7053 x W + 2.8752 TDmax = 2.9030 x W + 2.6826	TDmin = 1.7053 x W + 7.3031 TDmax = 2.9030 x W + 6.8139	-18.5% /+62.7% V -10% / +10% H	30 to 600	76.2 to 1524
2.8-4.9:1 zoom* (121-114107-XX)	TDmin = 2.8192 x W + 1.6775 TDmax = 4.8259 x W - 1.1161	TDmin = 2.8192 x W + 4.2609 TDmax = 4.8259 x W - 2.8350	-18.5% /+62.7% V -10% / +10% H	30 to 600	76.2 to 1524

Lens	Throw distance formula		Vertical & horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
4.9-8.3:1 zoom* (121-115108-XX)	TDmin = 4.6747 x W + 11.9931	TDmin = 4.6747 x W + 30.4626	-18.5% /+62.7% V	30 to 600	76.2 to 1524
	TDmax = 8.0483 x W + 10.1465	TDmax = 8.0483 x W + 25.7721	-10% / +10% H		

- Throw distance measured from the center of the front foot of the projector.
- Calculated throw distance (TD) values are subject to a +/- 5% tolerance for individual lens variation.
- Calculated offset values are subject to a +/- 7% centering tolerance.
- * = Glass lenses
- A2 = Projector rear to screen
- D = Diagonal
- W = Width