

| <b>LC-XS30, LC-XS25 (SCHOOL)</b>               |      |              |                                                        | <b>Screen Dimensions.</b> |                                     |     |      |      |      |      |      |      |
|------------------------------------------------|------|--------------|--------------------------------------------------------|---------------------------|-------------------------------------|-----|------|------|------|------|------|------|
| Resolution: XGA (1024x768)                     |      |              |                                                        | <b>H'</b>                 | 2.0                                 | 3.0 | 5    | 6    | 7.5  | 9    | 12   | 15   |
| Aspect Ratio: (3 High by 4 Wide by 5 Diagonal) |      |              |                                                        | <b>W'</b>                 | 2.67                                | 4   | 6.67 | 8    | 10   | 12   | 16   | 20   |
| Aperture: 0.504 in. wide                       |      |              |                                                        | <b>D"</b>                 | 40                                  | 60  | 100  | 120  | 150  | 180  | 240  | 300  |
| Standard Lens                                  | T/W  | Shift/Limits | Lens Description                                       | EFL                       | Throw (Distance to Screen) in feet. |     |      |      |      |      |      |      |
| LC-XS30, LC-XS25                               | 1.74 | 10:1         | 0.886"~1.063" Manual, Zoom<br>(22.5~27 mm) f:1.65~1.81 | 0.879                     | 4.7                                 | 7.0 | 11.6 | 14.0 | 17.4 | 20.9 | 27.9 | 34.9 |
|                                                | 2.09 | (fixed)      |                                                        | 1.055                     | 5.6                                 | 8.4 | 14.0 | 16.7 | 20.9 | 25.1 | 33.5 | 41.9 |

| <b>LC-XB42 and LC-XB42N (BRILLIANT)</b>        |      |              |                                                         | <b>Screen Dimensions.</b> |                                     |     |      |      |      |      |      |      |
|------------------------------------------------|------|--------------|---------------------------------------------------------|---------------------------|-------------------------------------|-----|------|------|------|------|------|------|
| Resolution: XGA (1024x768)                     |      |              |                                                         | <b>H'</b>                 | 2.0                                 | 3.0 | 5    | 6    | 7.5  | 9    | 12   | 15   |
| Aspect Ratio: (3 High by 4 Wide by 5 Diagonal) |      |              |                                                         | <b>W'</b>                 | 2.67                                | 4   | 6.67 | 8    | 10   | 12   | 16   | 20   |
| Aperture: 0.64 in. wide                        |      |              |                                                         | <b>D"</b>                 | 40                                  | 60  | 100  | 120  | 150  | 180  | 240  | 300  |
| Standard Lens                                  | T/W  | Shift/Limits | Lens Description                                        | EFL                       | Throw (Distance to Screen) in feet. |     |      |      |      |      |      |      |
| LC-XB42, LC-XB42N                              | 1.18 | 9:1          | 0.756 ~ 1.189" Manual, Zoom<br>(19.2~30.2 mm) f:1.7~2.5 | 0.756                     | 3.2                                 | 4.7 | 7.9  | 9.5  | 11.8 | 14.2 | 18.9 | 23.6 |
|                                                | 1.86 | (fixed)      |                                                         | 1.189                     | 5.0                                 | 7.4 | 12.4 | 14.9 | 18.6 | 22.3 | 29.7 | 37.2 |

| <b>LC-XB33N (BRILLIANT)</b>                    |      |              |                                                        | <b>Screen Dimensions.</b> |                                     |     |      |      |      |      |      |      |
|------------------------------------------------|------|--------------|--------------------------------------------------------|---------------------------|-------------------------------------|-----|------|------|------|------|------|------|
| Resolution: XGA (1024x768)                     |      |              |                                                        | <b>H'</b>                 | 2.0                                 | 3.0 | 5    | 6    | 7.5  | 9    | 12   | 15   |
| Aspect Ratio: (3 High by 4 Wide by 5 Diagonal) |      |              |                                                        | <b>W'</b>                 | 2.67                                | 4   | 6.67 | 8    | 10   | 12   | 16   | 20   |
| Aperture: 0.504 in. wide                       |      |              |                                                        | <b>D"</b>                 | 40                                  | 60  | 100  | 120  | 150  | 180  | 240  | 300  |
| Standard Lens                                  | T/W  | Shift/Limits | Lens Description                                       | EFL                       | Throw (Distance to Screen) in feet. |     |      |      |      |      |      |      |
| LC-XB33N                                       | 1.38 | 10:1         | 0.697"~1.114" Manual, Zoom<br>(17.7~28.3 mm) f:1.6~2.5 | 0.696                     | 3.7                                 | 5.5 | 9.2  | 11.0 | 13.8 | 16.6 | 22.1 | 27.6 |
|                                                | 2.15 | (fixed)      |                                                        | 1.083                     | 5.7                                 | 8.6 | 14.3 | 17.2 | 21.5 | 25.8 | 34.4 | 43.0 |

| <b>LC-XB33, LC-XB31 (BRILLIANT)</b>            |      |              |                                                        | <b>Screen Dimensions.</b> |                                     |     |      |      |      |      |      |      |
|------------------------------------------------|------|--------------|--------------------------------------------------------|---------------------------|-------------------------------------|-----|------|------|------|------|------|------|
| Resolution: XGA (1024x768)                     |      |              |                                                        | <b>H'</b>                 | 2.0                                 | 3.0 | 5    | 6    | 7.5  | 9    | 12   | 15   |
| Aspect Ratio: (3 High by 4 Wide by 5 Diagonal) |      |              |                                                        | <b>W'</b>                 | 2.67                                | 4   | 6.67 | 8    | 10   | 12   | 16   | 20   |
| Aperture: 0.504 in. wide                       |      |              |                                                        | <b>D"</b>                 | 40                                  | 60  | 100  | 120  | 150  | 180  | 240  | 300  |
| Standard Lens                                  | T/W  | Shift/Limits | Lens Description                                       | EFL                       | Throw (Distance to Screen) in feet. |     |      |      |      |      |      |      |
| LC-XB33, LC-XB31                               | 1.72 | 10:1         | 0.886"~1.063" Manual, Zoom<br>(22.5~27 mm) f:1.65~1.81 | 0.868                     | 4.6                                 | 6.9 | 11.5 | 13.8 | 17.2 | 20.7 | 27.5 | 34.4 |
|                                                | 2.06 | (fixed)      |                                                        | 1.040                     | 5.5                                 | 8.3 | 13.8 | 16.5 | 20.6 | 24.8 | 33.0 | 41.3 |

| <b>LC-XB21B (BRILLIANT)</b>                    |      |              |                                                         | <b>Screen Dimensions.</b> |                                     |     |      |      |      |      |      |      |
|------------------------------------------------|------|--------------|---------------------------------------------------------|---------------------------|-------------------------------------|-----|------|------|------|------|------|------|
| Resolution: XGA (1024x768)                     |      |              |                                                         | <b>H'</b>                 | 2.0                                 | 3.0 | 5    | 6    | 7.5  | 9    | 12   | 15   |
| Aspect Ratio: (3 High by 4 Wide by 5 Diagonal) |      |              |                                                         | <b>W'</b>                 | 2.67                                | 4   | 6.67 | 8    | 10   | 12   | 16   | 20   |
| Aperture: 0.48 in. wide                        |      |              |                                                         | <b>D"</b>                 | 40                                  | 60  | 100  | 120  | 150  | 180  | 240  | 300  |
| Standard Lens                                  | T/W  | Shift/Limits | Lens Description                                        | EFL                       | Throw (Distance to Screen) in feet. |     |      |      |      |      |      |      |
| LC-XB21B                                       | 1.78 | 6:01         | 0.886~1.063" Manual, Zoom<br>(22.5~27.0 mm) f:1.65~1.83 | 0.855                     | 4.8                                 | 7.1 | 11.9 | 14.3 | 17.8 | 21.4 | 28.5 | 35.6 |
|                                                | 2.15 |              |                                                         | 1.034                     | 5.8                                 | 8.6 | 14.4 | 17.2 | 21.5 | 25.9 | 34.5 | 43.1 |

| <b>LC-XA20 (AVANTI)</b>                        |      |              |                                                         | <b>Screen Dimensions.</b> |                                     |     |      |      |      |      |      |      |
|------------------------------------------------|------|--------------|---------------------------------------------------------|---------------------------|-------------------------------------|-----|------|------|------|------|------|------|
| Resolution: XGA (1024x768)                     |      |              |                                                         | <b>H'</b>                 | 2.0                                 | 3.0 | 5    | 6    | 7.5  | 9    | 12   | 15   |
| Aspect Ratio: (3 High by 4 Wide by 5 Diagonal) |      |              |                                                         | <b>W'</b>                 | 2.67                                | 4   | 6.67 | 8    | 10   | 12   | 16   | 20   |
| Aperture: 0.48 in. wide                        |      |              |                                                         | <b>D"</b>                 | 40                                  | 60  | 100  | 120  | 150  | 180  | 240  | 300  |
| Standard Lens                                  | T/W  | Shift/Limits | Lens Description                                        | EFL                       | Throw (Distance to Screen) in feet. |     |      |      |      |      |      |      |
| LC-XA20 (AVANTI)                               | 1.78 | 6:01         | 0.886~1.063" Manual, Zoom<br>(22.5~27.0 mm) f:1.65~1.83 | 0.855                     | 4.8                                 | 7.1 | 11.9 | 14.3 | 17.8 | 21.4 | 28.5 | 35.6 |
|                                                | 2.15 |              |                                                         | 1.034                     | 5.8                                 | 8.6 | 14.4 | 17.2 | 21.5 | 25.9 | 34.5 | 43.1 |

| <b>LC-XD25 (DIAMOND)</b>                       |      |              |                                                           | <b>Screen Dimensions.</b> |                                     |     |      |      |      |      |      |      |
|------------------------------------------------|------|--------------|-----------------------------------------------------------|---------------------------|-------------------------------------|-----|------|------|------|------|------|------|
| Resolution: XGA (1024x768)                     |      |              |                                                           | <b>H'</b>                 | 2.0                                 | 3.0 | 5    | 6    | 7.5  | 10   | 12   | 15   |
| Aspect Ratio: (3 High by 4 Wide by 5 Diagonal) |      |              |                                                           | <b>W'</b>                 | 2.67                                | 4   | 6.67 | 8    | 10   | 13.3 | 16   | 20   |
| Aperture: 0.504 in. wide                       |      |              |                                                           | <b>D"</b>                 | 40                                  | 60  | 100  | 120  | 150  | 200  | 240  | 300  |
| Standard Lens                                  | T/W  | Shift/Limits | Lens Description                                          | EFL                       | Throw (Distance to Screen) in feet. |     |      |      |      |      |      |      |
| LC-XD25 (DIAMOND)                              | 1.35 | 6:01         | 0.685~0.831" Manual, Zoom<br>(17.4~21.1.0 mm) f:1.77~1.99 | 0.680                     | 3.6                                 | 5.4 | 9.0  | 10.8 | 13.5 | 17.9 | 21.6 | 27.0 |
|                                                | 1.63 |              |                                                           | 0.820                     | 4.3                                 | 6.5 | 10.9 | 13.0 | 16.3 | 21.6 | 26.0 | 32.5 |

|                                                                              |  |  |  |           |      |      |      |      |      |      |      |       |
|------------------------------------------------------------------------------|--|--|--|-----------|------|------|------|------|------|------|------|-------|
| <b>Image Height for 16:9:</b> width stays the same as 4:3 (ignore Diagonal). |  |  |  | <b>H'</b> | 1.50 | 2.25 | 3.75 | 4.50 | 5.63 | 6.75 | 9.00 | 11.25 |
|------------------------------------------------------------------------------|--|--|--|-----------|------|------|------|------|------|------|------|-------|

These charts are a simulation. Effective Focal Length (EFL) most accurately represents lens behavior, and drives the calculations.  
Calculations are from the front glass of the lens and accurate to approximately +/- 3%. Specifications are subject to change without notice.



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