Lens Information
Part Number: MVTC23053
Serial Number: 492321
Test Date: 8/21/2013
Tested By: MPB/VLW
N° Horizontal Pixels: 2108
N° Vertical Pixels: 2108

Modulation Transfer Function
The loss of contrast determined from imaging an object, expressed in spatial frequency. The higher the ratio, the higher the contrast. MTF measured on-axis and at four quadrants in the field in both tangential and sagittal directions.

Test Conditions
Target: Chrome-on-glass .25mm dots
Illumination: 450-650nm white LED telecentric back light source
Camera: Grasshopper3 USB3.0 mono, 1" sensor cropped to 2/3" format

Working Distance
Is the distance between the object and the first mechanical surface of the lens.
W.D., Nominal (mm): 44.4
W.D., As Tested (mm): 44.03
W.D. Error (%): 0.83%

Magnification
Is measured on-axis from a square target of a known size in both the tangential and sagittal directions and averaged.
Mag., Nominal: 0.528
Mag., As Tested: 0.5275
Mag. Error (%): 0.09%

Telecentricity
Is measured by moving the target between the borders of the field depth test range and recording the change in field heights. The chief ray is then calculated from the ratio of the field height change to the total target displacement.
Maximum (deg): -0.572

Radial Distortion
Is characterized by measuring the field heights from the center of the field to the edge and calculating the deviation of the measured values from the on-axis magnification.
Avg Radial Distortion (%): -0.01%