### U.S. DEPARTMENT OF COMMERCE NATIONAL BUREAU OF STANDARDS WASHINGTON 25. D.C.

#### NATIONAL BUREAU OF STANDARDS

# REPORT OF TEST

on

One Photographic Objective

Submitted by Xerox Corporation Rochester, New York 14603

### Transmittance on Axis

Transmittance on exis	90.7%
Geometric f-mumber	f/4.60
T-step	T/4.83

The probable errors of the transmittance, geometric f/mumber, and T/stop do not exceed 15%. These measurements have been made in accordance with MIL-STD-150A, Section 3.2, Aperture and Related Quantities.

## Illumination in the Image Plane

Angular Separation from Axia	Relative Illumination
Oo	1.00
5°	0.98
100	•92
15°	.84
20°	•69
25°	•5°
<b>3</b> 0°	- 30

The probable error of each relative illumination value does not exceed #0.05. These measurements have been made in accordance with ASA Standard No. PH 3.22-1958, Distribution of Illumination over the Field of Photographic Objective or Projection Lens, section 3. Direct Measurement of Illumination Distribution. These values were determined at 1:1.

This report applies to the Bausch and Lomb lens marked 3.D., nominal focal length 9 1/2 inches, maximum sperture f/4.5. It was measured at maximum aperture using a 4. 3. Welch "Densichron".

For the Director.

Francis & Washer, Chief Refractometry Jection Metrology Division

MBS Test No. 181564 August 4, 1964 Allaymanina