



COMMISSION INTERNATIONALE DE L'ÉCLAIRAGE
INTERNATIONAL COMMISSION ON ILLUMINATION
INTERNATIONALE BELEUCHTUNGSKOMMISSION

BRIGHTNESS LUMINANCE RELATIONS

Classified Bibliography

PUBLICATION CIE N° 78 (1988)
CENTRAL BUREAU OF THE CIE
A — 1030 VIENNA, Kegelgasse 27 — AUSTRIA

II

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FOREWORD

The Classified Bibliography on Brightness-Luminance Relations has been compiled by

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Rosalind M. Smith

and discussed by Technical Committee 1-05 Brightness-Luminance Relation. The Committee comes under CIE Division 1 Vision and Colour.

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Introduction

- This work is a result of a renewed activity of the CIE in the field of brightness as defined as the psychological attribute. The subject was taken on in TC 1.4 ('Vision') and passed on to the newly installed technical committee '*Brightness luminance relations*' (chair J.A.J. Roufs) of Division 1 in the new organizational structure of the CIE.
- The committee started its duties with the compilation of a classified bibliography the result of which may be found in the following pages.

Scope

- After pilot work based on a few hundred titles, a classification system was created and agreed on in the 1983 plenary meeting in Amsterdam. Since then the bibliography gradually grew into its present size (1986).
- We do not claim completeness. Especially the pre-1960 publications were difficult to trace. It was rather remarkable to find so many sources and original articles disagreeing. Although we have checked many entries against copies of the original articles, we did not succeed in checking them all.
- The bibliography consists of two parts:
 - 1. an alphabetical part listing all first authors for quick reference;
 - 2. a classified part.

Each article was designated one or more classes. Sometimes the contents of an article would not be immediately apparent from its title. In the class called '*Methodolgy brightness (contrast) measurement*' several papers have been included which are concerned with general methodological aspects, not necessarily in direct connection with brightness measurement.

- In completing we noticed that certain classes became rather large. If in a later phase subdivisions would be desirable, separation of *brightness* and *brightness contrast* would be an obvious partition. Since the bibliography is computer-stored, special classifications like a cross-reference author index etc. are feasible if desired. The authors would be grateful when any references which may have been missed are pointed out to them.

Coding

Apart from the normal bibliographical data, a few code-strings are incorporated. The number preceding the first author is the order of intake. The strings of

capitals refer to the class(es) defined below. The lowercase letterstring refers to the status of the documentation. Only the characters 'v' and 'a' are relevant to the reader. 'a' means that the title is verified by means of a reprint of the original article. The character 'v' means verified but not necessarily on the basis of the original. In that case other sources like Abstract Journals etc. have been consulted.

The Classification of the Brightness Literature

(Agreed on Amsterdam 1983.)

1. Methodology Brightness (Contrast) measurement

- MBC**
- brightness and contrast scaling
 - brightness and contrast matching
 - indirect brightness and contrast determination

2. Brightness (Contrast)-Luminance relations for Static stimuli

- BCLS**
- for relatively simple configurations
 - for complex scenes (luminance reproduction curve)

3. Brightness (Contrast)-Luminance relations for Dynamic stimuli

- BCLD**
- for time dependent stimuli
 - followed in the time domain

4. Lightness-Tone relations

- LT**
- for relatively simple stimuli
 - for complex scenes (ambient lighting, wavelength, surround luminance)

5. Brightness (Contrast) and Spatial aspects

- BCS**
- contour effects
 - surround
 - area
 - retinal location
 - sharpness/frequency
 - luminance gradient

6. Brightness (Contrast) of a Point source

- BCP
- effects of intensity
 - background luminance

7. Brightness (Contrast) and state of Adaptation; after images

- BCA
- background luminance
 - preadaptation
 - duration

8. Brightness (Contrast) Models

- BCM
- scaling models
 - effect of spatial parameters
 - dynamic models

9. Various

- BLV
- binocular brightness, interocular effects
 - colour, Helmholtz Kohlrausch, Troxler's effect
 - special apparatus

Acknowledgments

Ms J.L.P.M. Koelman, ILL librarian, for tracing and obtaining many articles from all over the world.

Mr G.W.A. Niesen for designing the computer program.

Ms I.M.A. de Meyere for adapting the software.

VII

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contrast and lightness in alphabetical
order

16 June 1987

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