Outdoor Lighting

DOWNLOAD HERE

Preface- 1: Introduction: The function of outdoor lighting 1.1 Why lighting outdoors? 1.2 Lighting engineering 1.3 The function of outdoor lighting 1.4 Cognitive aspects of vision 1.5 Tools and methods 1.6 Conclusions- 2: Physical aspects of light production 2.1 The physics of light 2.2 General aspects of light production 2.3 Incandescence 2.4 Gas-discharge lamps 2.5 Semiconductor light. 2.6 Conclusions- 3: Radiometry and photometry 3.1 Radiometry 3.2 Basic photometric concepts 3.3 Conclusions- 4: The mathematics of luminance 4.1 The field concept 4.2 Some aspects of hydrodynamics 4.3 The luminance of real and virtual objects 4.4 The luminance of reflecting surfaces 4.5 Conclusions- 5: Practical Photometry 5.1 General aspects of photometry 5.2 Traditional subjective photometry 5.3 Traditional objective photometry 5.4 Modern objective photometry 5.5 Conclusions- 6: The human observer; physical and anatomical aspects of vision 6.1 The ability to see 6.2 The nervous system 6.3 The anatomy of the human visual system 6.4 The optical nerve tracts 6.5 Conclusions- 7: The human observer; visual performance aspects 7.1 The functions of the human visual system 7.2 The sensitivity of the human visual system 7.3 Visual performance 7.4 The primary visual functions 7.5 Conclusions- 8: The human observer; visual perception 8.1 Derived visual functions 8.2 Blinding glare 8.3 Disability glare 8.4 Discomfort glare 8.5 Conclusions- 9: The human observer; colour vision 9.1 Colour aspects 9.2 Colour vision physiology 9.3 Colour metrics and colorimetry 9.4 The colour characteristics of light sources 9.5 Conclusions- 10: Road lighting applications 10.1 Geometric optics 10.2 Luminaire design 10.3 Light pollution 10.4 Reflection properties of road surfaces 10.5 Conclusions- 11: Road lighting design 11.1 Design methods for road lighting installations11.2 Road lighting for developing countries 11.3 Simplified design methods 11.4 Conclusions - References - Subject Index EAN/ISBN: 9781402086021 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Schreuder, Duco

DOWNLOAD HERE

Similar manuals: