DIN EN 16268:2013-04 (E)

Performance of reflecting surfaces for luminaires

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 5

4 Measurement methods 6
4.1 General 6
4.2 Total reflectance tot 7
4.3 Diffuse reflectance d 8
4.4 Specular reflectance r, rL, rT 8
4.5 Colour 8

5 Durability test methods for evaluation of reflective materials based on maintained performance under different specified conditions 8
5.1 General 8
5.2 Temperature resistance 9
5.3 Humidity resistance 9
5.4 UV-Exposure resistance 9
5.5 Abrasion resistance 9
5.6 Scratch resistance 9

6 Classification 9

7 Assignment of Reflectance Class 10

8 Presentation of performance data 10

Annex A (normative) Measurement of total, diffuse and specular reflectance and colour 13

A.1 General 13
A.2 Measurement of total reflectance 13
A.3 Measurement of diffuse reflectance 16
A.4 Measurement of specular reflectance 16

Annex B (normative) Measurement of abrasion and scratch resistance 18

B.1 Measurement of abrasion and wipe resistance according to ISO 9211-4:2012 18
B.2 Measurement of scratch-resistance according to ISO 15184:2012 18

Annex C (informative) Further important properties of reflective materials 21

C.1 Cleaning 21
C.2 Solvent Resistance 21

Annex D (informative) Examples of structured surfaces 22

Bibliography 24