

# DIN EN 16268:2013-04 (E)

## Performance of reflecting surfaces for luminaires

---

	Contents	Page
<b>Foreword .....</b>		<b>3</b>
<b>1 Scope .....</b>		<b>4</b>
<b>2 Normative references .....</b>		<b>4</b>
<b>3 Terms and definitions .....</b>		<b>5</b>
<b>4 Measurement methods .....</b>		<b>6</b>
<b>4.1 General .....</b>		6
<b>4.2 Total reflectance tot .....</b>		7
<b>4.3 Diffuse reflectance d .....</b>		8
<b>4.4 Specular reflectance r, rL, rT .....</b>		8
<b>4.5 Colour .....</b>		8
<b>5 Durability test methods for evaluation of reflective materials based on maintained performance under different specified conditions .....</b>		<b>8</b>
<b>5.1 General .....</b>		8
<b>5.2 Temperature resistance .....</b>		9
<b>5.3 Humidity resistance .....</b>		9
<b>5.4 UV-Exposure resistance .....</b>		9
<b>5.5 Abrasion resistance .....</b>		9
<b>5.6 Scratch resistance .....</b>		9
<b>6 Classification .....</b>		<b>9</b>
<b>7 Assignment of Reflectance Class .....</b>		<b>10</b>
<b>8 Presentation of performance data .....</b>		<b>10</b>
<b>Annex A (normative) Measurement of total, diffuse and specular reflectance and colour .....</b>		<b>13</b>
<b>A.1 General .....</b>		13
<b>A.2 Measurement of total reflectance .....</b>		13
<b>A.3 Measurement of diffuse reflectance .....</b>		16
<b>A.4 Measurement of specular reflectance .....</b>		16
<b>Annex B (normative) Measurement of abrasion and scratch resistance .....</b>		<b>18</b>
<b>B.1 Measurement of abrasion and wipe resistance according to ISO 9211-4:2012 .....</b>		18
<b>B.2 Measurement of scratch-resistance according to ISO 15184:2012 .....</b>		18
<b>Annex C (informative) Further important properties of reflective materials .....</b>		<b>21</b>
<b>C.1 Cleaning .....</b>		21
<b>C.2 Solvent Resistance .....</b>		21
<b>Annex D (informative) Examples of structured surfaces .....</b>		<b>22</b>
<b>Bibliography .....</b>		<b>24</b>