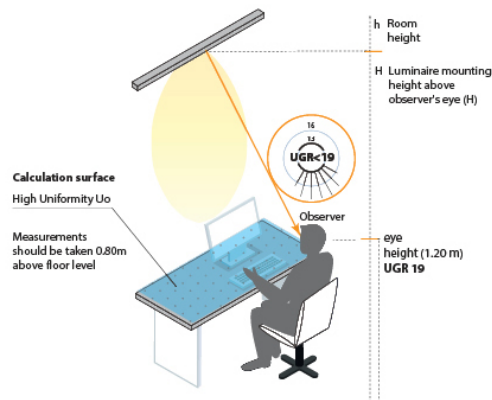


UGR

The abbreviation UGR stands for “unified glare rating”. The UGR value is a dimensionless parameter which provides information about the degree of psychological glare of a lighting installation in an indoor space. UGR values are defined in steps within a scale of 10 to 30. In EN 12464-1:2011 the steps within this scale are 13, 16, 19, 22, 25 and 28. In the final instance these steps express the statistical perception of glare experienced by a large number of observers. So UGR 19, for example, means that 65% of observers “did not really feel disturbed” by the glare. The lower the UGR value, the less direct glare is experienced by the observers.

The tabular method is a procedure which is followed in order to determine the UGR value of a lighting installation in a standard room. According to the tabular method the floor has a maximum degree of reflectance of 20%, walls of 50% and the ceiling of 70%. Despite the restrictions of the tabular method it is of benefit in evaluating products when comparisons are desired. A luminaire with a UGR value of 19 is, in practice, less likely to cause psychological glare than a luminaire which has the same parameters but a UGR value of 25. According to the above information it is more likely for the designer to achieve lower UGR values when using a low UGR luminaire such as NOTUS UGR luminaires.



*according to European Standard EN 12464-1

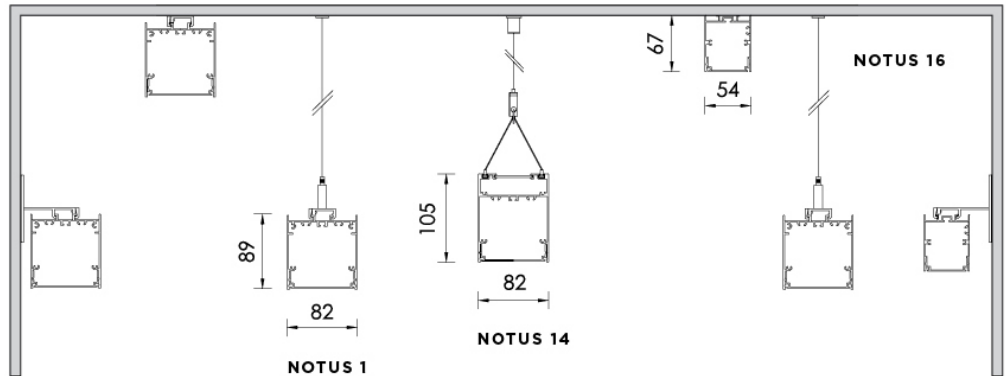


PRODUCT BENEFITS

- Uniform light and controlled beam with special cover
- Energy efficient with over 150 lm/w
- 5 years guarantee
- Lifetime > 80.000h L80 B10
- Low UGR

AREAS OF APPLICATION

- Offices
- Educational premises
- Retail shops
- Health care premises
- Industrial activities



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