



NZEB_LAB

LES: Optical characterization of mirrors/reflectors

DESCRIPTION OF THE INFRASTRUCTURE

Name of the infrastructure: LES

Location (town, country): LNEG, Polo do Lumiar, Lisbon, Portugal

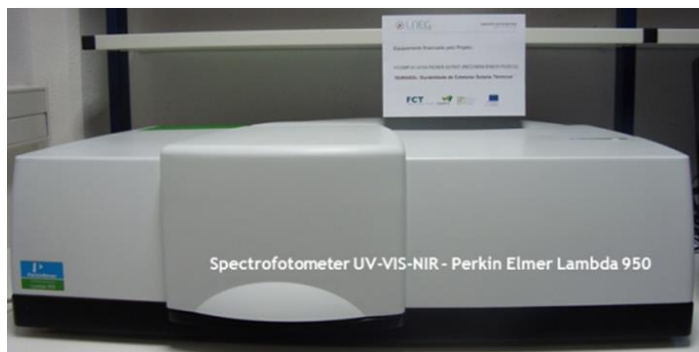
Web-site: www.lneg.pt

Legal name of the organization operating the infrastructure: LNEG

Location:

SERVICE PROVIDED

Service Name: Optical characterization of mirrors/reflectors



Associated equipment:

Spectrophotometer Perkin Elmer Lambda 950 (175 – 3300 nm) with an 150 mm diameter InGaAs integrating sphere (200 – 2500 nm)

Method:

Measurement of hemispherical reflectance with a spectrophotometer and an integrating sphere in the solar spectrum (250-2500 nm); special accessories for small dimension samples (3-6-9 mm); Calculation of the solar-weighted reflectance using the standard solar spectrum of ASTM G173 or ISO 9845;

Deliverables:

- Hemispherical reflectance spectrum in the solar spectrum (250-2500 nm)
- Solar-weighted hemispherical absorptance using the standard solar spectrum ASTM G173-03 or ISO 9845

Testing period (weeks/year):

30 (considering measurement of 10 samples per week)

Costs:

40€/sample;

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