

## Goniophotometric services and solutions

SSL Resource Ltd provides the services and solutions for photometric testing facilities, LED luminaires and for optics. We measure the angular intensity distributions, luminous flux, energy efficiency index etc. with in-house developed Goniophotometers operated in our own laboratory. We serve our customers also in the case of increased testing quantity by providing a fully functional goniophotometer measurement system into a luminaire manufacturer's own laboratory premises. We do also the new product development projects related to the optical design and simulations of lenses and reflectors.



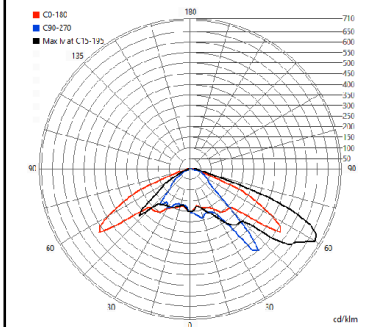
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## Photometric Services for LED Lighting Industry

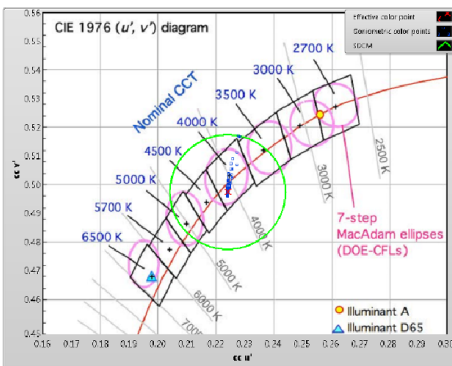


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[www.sslresource.com](http://www.sslresource.com)

# Photometric Measurement and Optical Design Services

SSL Resource Ltd is a lighting measurement specialist company from Finland. We provide photometric measurement and optical design services for producing the light distributions of lighting fixtures. Our customer base contains luminaire manufacturing industry and luminaire importers from 11 countries in four continents.

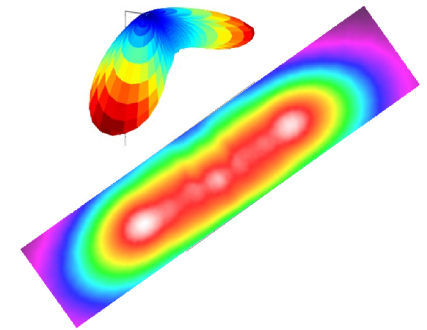


## Features of our services

- C and A type goniometer
- Measurement standard compliance to EN 13032-1, LM-79-08, CIE S 025
- We are fast: delivery times within 1 week and in 24h with Express service
- Large lighting fixtures — Max. dimension and weight of luminaires 2.9m and 50kg.
- Excellent success in IEA 4E SSL interlaboratory comparison program.

## Measurement services - luminaires

- EULUMDAT / IES file measurements
- Luminous intensity distribution
- Luminous flux
- Luminous efficacy
- Energy efficiency index
- UGR, CU, WEC, CCEC tables
- Cone illuminance diagrams
- Isolux diagrams
- Total and angle dependent Color coordinates, CCT, CRI, and spectral distribution
- Spatial uniformity MacAdam / SDCM
- Photosynthetic photon flux PPF / PPFD
- Optical flicker frequency, flicker index, percent flicker



## Optical design services

SSL Resource has also specialized to develop new optical lenses and reflectors for LED luminaires or other optical devices. The work can include the 3D optics design of a fully new light product or the optical simulation of an existing product idea. The development work is conducted through the customer development projects. We have designed e.g. a street light and laser line generator.

## Other services

- Measurement of spectral transmittance / reflectance of optical materials (PCB, lens, reflector, diffuser etc.)
- Measurement of coefficient of retroreflection and retroreflected color
- Measurement of luminance ratio, color, beam width and uniformity of traffic signal lights (VMS)
- Training courses for general photometry and SSL goniometer facility