

**LIGHTING EQUIPMENT FOR SOLAR SIMULATION**  
**Questionnaire**

**General**

Customer: \_\_\_\_\_

Project: \_\_\_\_\_

**Application**

What kind of tests will be performed?

Material Tests  Solar Heat Load Tests  Others   
If others please describe: \_\_\_\_\_

What type of samples will be tested?

Vehicles  Components  or: \_\_\_\_\_

What are the physical dimensions of the samples?

Length \_\_\_\_\_

Height \_\_\_\_\_

Width \_\_\_\_\_

If complete vehicles are tested please indicate the min. and max. dimensions.

**Specifications**

Has the test to be performed in accordance with any standard?

If so, please list it \_\_\_\_\_

and specify the main requirements: \_\_\_\_\_

**Solar Simulation System**

What size is the area and/or the volume that needs to be irradiated?

Length \_\_\_\_\_

Height \_\_\_\_\_

Width \_\_\_\_\_

What is the required irradiance  
for the full spectrum (280-3.000 nm) in W/m<sup>2</sup> : \_\_\_\_\_  
(typical max. 1.120W/m<sup>2</sup>)

What are your requirements on  
the spatial homogeneity: \_\_\_\_\_  
(typical +/-10% (1Sigma))

What are the requirements on  
the spectral distribution: \_\_\_\_\_  
(a typical reference is the so-called  
"Total Radiation" CIE Publ. No.85/T.4)

Do you want the solar simulation system to be:

Stationary (fixed)  or Moveable

If moveable please explain your needs: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What type of control system do you prefer?

Manual  Automatic  External

If an automatic and/or external control is requested, please describe your needs: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What is the average distance for cable routing between the electrical supply rooms (installation of our electrical cabinets) to the solar simulation system? \_\_\_\_\_

What kind of electrical supply is available in your facility?

(Voltage/Frequency/Power) \_\_\_\_\_  
\_\_\_\_\_

Do you have any other special requirements ? Yes  No

If yes, please specify: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**If possible please supply a rough sketch of your test facility and your planned test set-up.**

**Ambient operation and installation conditions**

What are the inner dimensions of your test chamber/location (free space):

Length \_\_\_\_\_

Height \_\_\_\_\_

Width \_\_\_\_\_

What are the ambient conditions for the system inside the chamber

Not in operation / In operation  
Temperature (°C) \_\_\_\_\_ / \_\_\_\_\_

Rel. Humidity (r.H. %) \_\_\_\_\_ / \_\_\_\_\_

What are the ambient conditions for the electrical cabinets

Temperature (°C) \_\_\_\_\_

Rel. Humidity (r.H. %) \_\_\_\_\_

**Thank you for your assistance!**