

KI-120 Koehler Illuminator

Exceptional 3200K uniform irradiance in the VIS-NIR region



VALUE

Provides a Source of Uniform Irradiance

Illuminance Level Easily Adjusted

Spot Size Ranges from 4 mm to 16 mm

Working Distance 10 - 60 cm

MEASURE

Characterization of Front-Surface Optics

Haze Measurements

Retro-Reflector Materials Tests

Reflectance and Transmittance Measurements

Automotive and Architectural Glass Measurements

Reliable

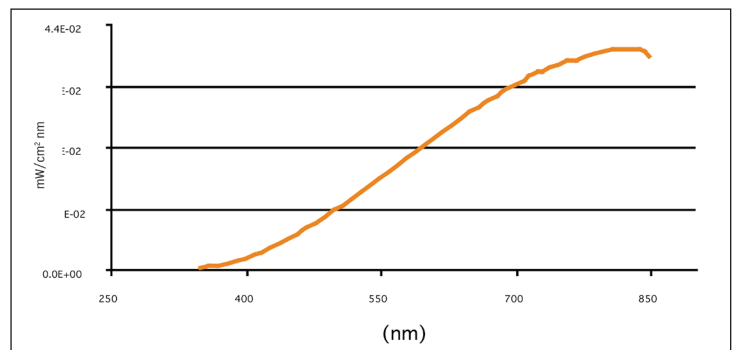
Labsphere's KI-120 Koehler Illuminator is designed for applications requiring uniform irradiance in the UV-VIS-NIR region of the spectrum. The Koehler Illuminator is a halogen lamp mounted in a lamp housing combined with a focusing optics assembly. The image of the halogen lamp filament is focused on a glass rod that evenly mixes the light distribution and directs the radiance through a fixed aperture before it passes through a lens assembly with an adjustable iris diaphragm, which controls the amount of illumination at the working plane.

Easy-to-use

The KI-120 Koehler Illuminator features a 120-watt tungsten halogen lamp in an assembly with a mounting boss attached to a ½ inch diameter rod that slides into the post holder mounted on a sturdy 6 x 6 inch support base, allowing for height adjustment or alternate mounting. Included is a 6-foot cable with a 2-pin male connector to operate with Labsphere's LPS-150-0660 lamp power supply. The KI-120 provides a maximum illuminance output of 13,000 lux at a normal working distance of 50 cm. A filter holder allows the placement of 1 inch diameter color balancing filters, narrow band filters or neutral density filters between the lamp and the glass rod.

Flexible

The flexible focusing optics provides the option of changing the beam spot size and working distance. The illuminator can be used with the optional filter sets; Narrow Band Filter Set (NBFS) to obtain monochromatic uniform output, Color Balancing Filter set (CBFS) to shift the color temperature as required for the application, Neutral Density Filter Set (NDFS) to adjust the magnitude of the output.



Spectral Irradiance Plot at 50 cm

Specifications

Model and Description

Koehler Illuminator, KI-120

KI-120 with Labsphere Power Supply, LPS-150-0660

Order Number

AS-02509-100

AS-02509-200

Properties and Performance

Power:	120 W
Voltage:	18.2 Volts
Illuminance Output:	13,000 lux at 50 cm
Working Distance:	10 – 60 cm
Spot Size Diameter:	4 mm - 16 mm
Color Temperature:	3200 K
Uniformity:	94%
Rated Lamp Life:	500 hours

Optional Accessories

Labsphere Power Supply, LPS-150-0660

AS-02656-660

