

## Photometric law of distance 2.4.02-01



## What you can learn about ...

- Luminous flux
- Quantity of light
- Luminous intensity
- Illuminance
- Luminance

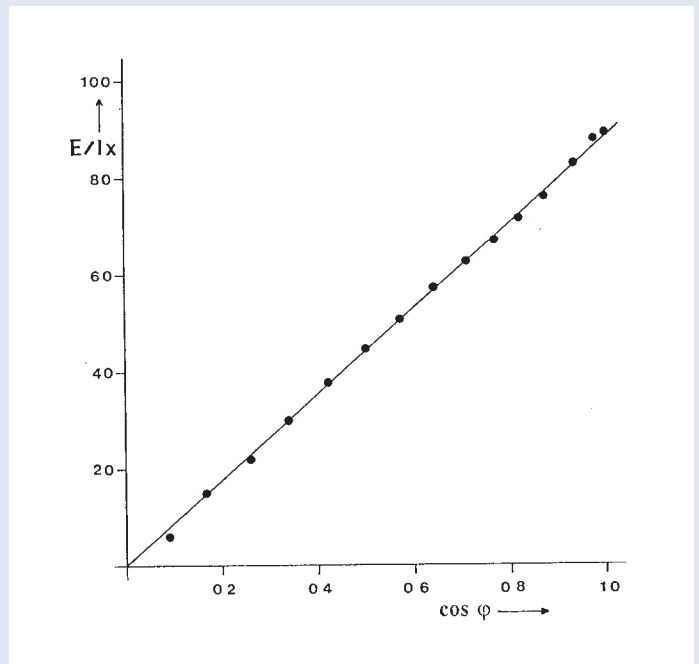
## Principle:

The luminous intensity emitted by a punctual source is determined as a function of distance.

## What you need:

Hand held measuring instrument Lux, RS 232	07137.00	1
Luxmeter probe	12107.01	1
Optical profile bench, $l = 600$ mm	08283.00	1
Base for optical profile bench, adjustable	08284.00	2
Slide mount for optical profil bench, $h = 30$ mm	08286.01	1
Slide mount for optical profil bench, $h = 80$ mm	08286.02	1
Lamp socket E 14, on stem	06175.00	1
Filament lamps, 6 V/5 A	06158.00	1
Power supply 0-12 V DC/ 6 V, 12 V AC	13505.93	1
Universal clamp	37718.00	1

Complete Equipment Set, Manual on CD-ROM included  
Photometric law of distance P2240201



Illuminance as a function of the reciprocal values of the square of the distances.

## Tasks:

1. The luminous intensity emitted by a punctual source is determined as a function of distance from the source.
2. The photometric law of distance is verified by plotting illuminance as a function of the reciprocal value of the square of the distance.