

LIGHT

Lux Sensor

The design of buildings including all types of architectural models. Variations in levels of lighting are obviously a very important criterion when considering design

Specific lighting conditions under which animal experiments are carried out

Design of lighting levels in psychological experiments

 \bigcirc

(•)

Lighting for animal housing, e.g. poultry houses

Visible light can be defined as the part of the wavelength spectrum perceived by the human vision in a manner similar to the eye. This response to the human eye to light can be expressed as a spectral reponse curve which has the form shown on reverse. There is a peak sensitivity at 555nm for the light adapted eye. This curve is known as the photopic curve or CIE Standard Observer Curve. The response curve for this filtered sensor is almost indistinguishable from the Photopic curve shown on the reverse. Light falling within the curve is measured in Lux units. Appropriate levels of light measured in Lux units are important in many areas of human activity such as close field work, general reading, relaxation and can have important psychological effects.





SKL	310 SPEC	IFICATIO	VS						
Dimensions	Weight	Construction	Cable	Sensor	Detector	Filters	Sensitivity -current (1)	Sensitivity -voltage	Working range (2)
34mm	130g. (with 3m cable)	Material Dupont 'Delrin' fully sealed to IP68	2 core screened DEF std 61-12/4.5	Cosine corrected head	Silicon photocell. Low fatigue character- istics	Optical Glass	1.4µA/ 10kLux	1mV/ 10kLux	0-500 kLux
Linearity error-to bove level	Absolute calibration error (3)	Cosine error (4)	Azimuth error (5)	Temperature coefficient	Longterm stability (6)	Response time (7) - voltage output	e Internal resistance - voltage output	Operating range	Humidity range
<0.2%	typ. <3% 5% max.	3%	<1%	<u>+</u> 0.1%/°C	<u>+</u> 2%	10ns	c.650 ohms	-35 to +75°C	0-100% RH
NOT	ES ON S	PECIFICA	TIONS						
(5) Measur (6) Maximu less tha (7) Times a	red at 45° eleva um change in c an figures quot are generally le capacity cable	ation over 360° one year. Calibra ed ess than the figu	ation check reco	ommended at le	ast every two ye	ears. Experie	sky, diffuse sun, g nce has shown tha creased if long lea	t changes are	typically much
	(GRAPH							
Y				LUX	SENSOR	SKL 31	10		
	ORDERII	% response to Lux	0 - 350	450 N	550 nanomet	65 res	SKL 310 - CIE)	
Se	ensor						Skue	lostar	ents Itd
SI	SKL 310 Photometric or Lux sensor Skye Instrume								
Ac	cessories								
SKM 221Levelling unitSKM 226Long arm pole/wall mount									
M	eters and	datalogge	rs						
SI SI	KL 300 KL 904 KL 908 DL 5000	oorioo	S)isplay me pectroSe pectroSe)ataHog c	nse2+			Ski	