

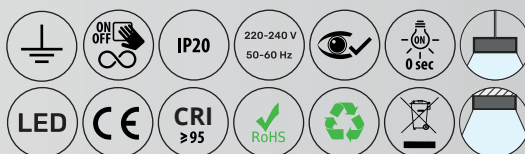
# PROCognitive LED LUMINAIRES

## SPECTRASOL ESO

### SURFACE MOUNTED LIGHTS



**SPECTRASOL**  
BIODYNAMIC HUMAN SOLUTIONS



#### Surface-mounted daytime light fixtures

The patented Spectrasol SURFACE-MOUNTED LED LIGHT fixtures will illuminate your interior with artificial light with properties close to natural sunlight. Thanks to a balanced spectral composition (SPD) that positively influences the body's circadian rhythms through the non-image-forming (NIF) system of the eyes, you will get biologically optimised full-spectrum lighting that supports overall health, physical and mental vitality and cognitive functions (cognitive performance and endurance, concentration, attention, quick thinking, ability to comprehend information, remember and recall it from memory) indoors during the day.

Moreover, Spectrasol light fixtures do not emit concentrated energy in the short-wavelength blue part of the light spectrum, the so-called harmful blue light, which increases the risk of macular degeneration. On the contrary, Spectrasol actually regenerates the eyes by emitting energy in the red, photobiomodulating part of the light spectrum, which acts as a compensating factor for harmful blue light with both preventive and therapeutic effect.

Spectrasol lights shine instantly at full power, are resistant to frequent switching, have a long lifetime and suppress the flicker effect. They are also designed to easily replace existing light sources with conventional wiring.

#### Lighting parameters

Light distribution	direct
Optical system	opal PS cover
UGR	> 19
CCT real <sup>1</sup>	4800 K
CCT specific <sup>2</sup>	5000 K
CRI	> 95
Flicker	Flicker Free
Calculated LED lifetime	L80B20 70.000 h

#### Electrical parameters

Power supply	220-240 V 50-60 Hz
Connection	screwless terminal block ready for looping
Control options	ON/OFF, DALI, SWITCH DIM

#### Mechanical parameters

Body material	sheet steel
Finishing degree	white paint

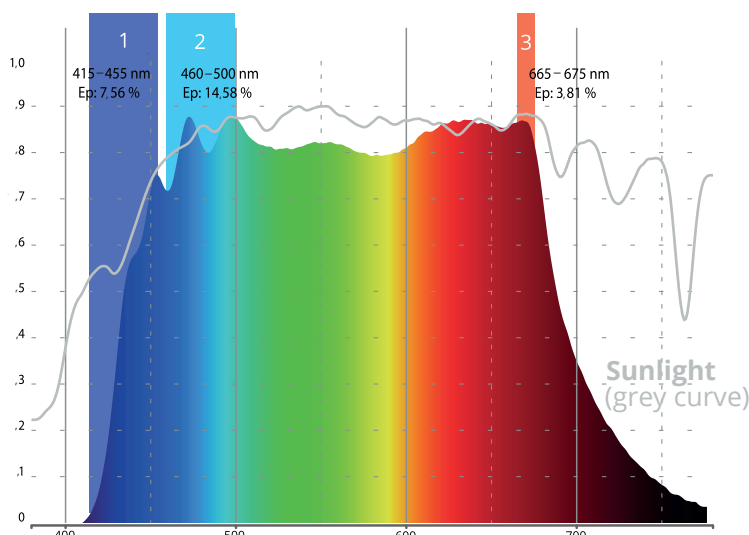
Maximum ambient temperature	25 °C
Protection class	IP20
Packaging	Cardboard Box

<sup>1</sup>Real CCT in a typical illuminated room

<sup>2</sup>Specific CCT lights (spherical integrator)

Tolerance CCT +/- 200 K

#### Visualisation of Spectrasol spectral composition and description of its key areas



#### 1 HARMFUL BLUE LIGHT

**Does not damage retina cells**  
Does not emit concentrated energy in the harmful blue light risk region (415 - 455 nm)

#### 2 PROCognitive - CIRCADIAN MELANOPIC ENERGY

**Supports the circadian system and the resulting cognitive performance, health and mood**  
Better energy in cyan region (460 - 500 nm)

#### 3 REGENERATIVE PHOTOBIOMODULATION ENERGY

**Regenerates damaged retinal cells**  
Peak emission in the photobiomodulation red (~ 670 nm)



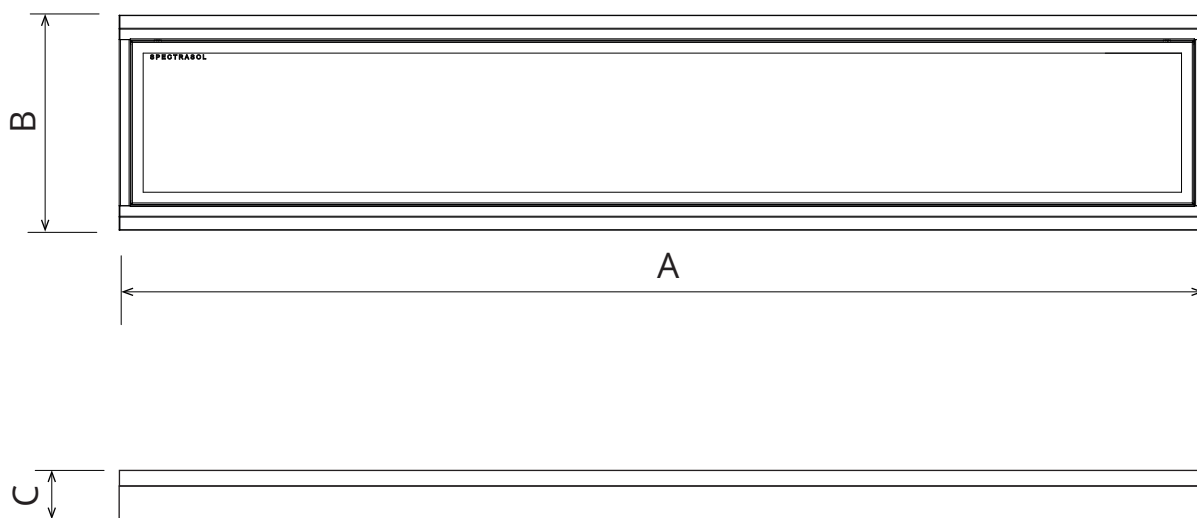


## Variants of Spectrasol ESO light fixtures

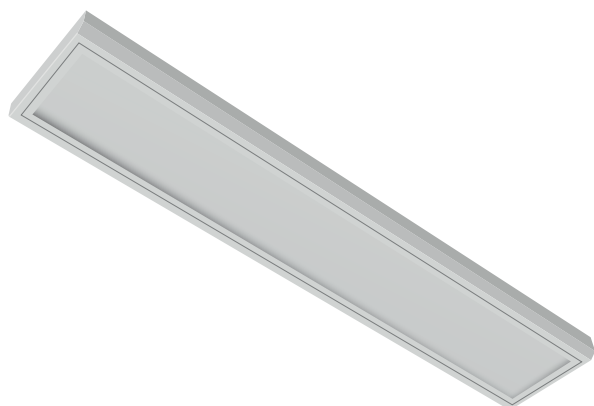
Order code	Variant	LED type	Light fixture luminous flux [lm]	Light fixture power consumption [W]	Light fixture dimensions [mm]			Light fixture weight [kg]
					A	B	C	
20205	Spectrasol ESO5000RMKOND	1200 x 240	procognitive LED	62	1210	240	52	4,6
20206	Spectrasol ESO5000RMKODALI	1200 x 240	Spectrasol 5000 K CRI 95				52	

Tolerance of luminous flux and light fixture power consumption +/- 10%

## Specification of dimensions



## Visualisation of light fixture



## Light distribution

