# PROCOGNITIVE LED LUMINAIRES SPECTRASOL IBP

EMBEDDED IN A GRID CEILING







#### Recessed light fixtures in raster ceiling for daytime lighting

The patented Spectrasol EMBEDDED LED light fixtures 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 them and recall them 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 area 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. There are also biodynamic versions of the light fixtures, equipped with warm white LEDs for evening use in addition to the procognitive LEDs.

#### Lighting parameters

direct
opal PS cover
> 19
4800 K (2600 K) <sup>3</sup>
5000 K (2600 K) <sup>3</sup>
> 95 (> 97)³
Flicker Free
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**

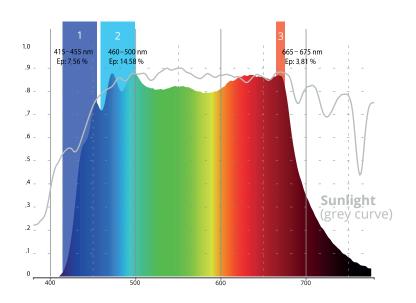
Body material	Steel sheet
Finishing degree	anodised, RAL 9016 white paint

Maximum ambient temperature 25 °C				
Protection class	IP54 + IP20			
Packing	Cardboard box			

<sup>&</sup>lt;sup>1</sup>Real CCT in typical illuminated room

Tolerance CCT +/- 200 K

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



#### HARMFUL BLUE LIGHT

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

#### **PROCOGNITIVE - CIRCADIAN MELANOPIC ENERGY**

Supports the circadian system and the resulting cognitive performance, health and mood

#### **REGENERATIVE PHOTOBIOMODULATION**

**ENERGY** 

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



<sup>&</sup>lt;sup>2</sup>Specific CCT of the light fixture (spherical integrator)

<sup>&</sup>lt;sup>3</sup>The Second CCT and CRI value for is for BD variants only



## Variants of SPECTRASOL IBP light fixtures

Order code	Variants		LED type	Light fixture luminous flux		[mm]		nension	Weight [kg]	
		1	[w]	consumption [W]	Α	В	С			
10105	Spectrasol IBP5000AKO600ND	600 x 600	procognitive*	6300	62	E06	596	596	90	2,7
10106	Spectrasol IBP5000AKO600DALI	600 x 600	procognitive	0300	62	62	390	590	90	2,7
10182	Spectrasol IBP5000AKO600DALIBD	600 x 600	procognitive* warm white**	6200	62	62 45 596	596 90			
10162	Spectrasor IBP3000ARO000DALIBD			3050	45		390	90	2,9	
10205	Spectrasol IBP5000CKO600ND	OND 1200 x 300		cognitive* 6200	62	1195	296	90	2,8	
10206	Spectrasol IBP5000CKO600DALI	1200 x 300	procognitive*	0200	02	1195	290	90	2,0	
10281	Spectracal IRRECOCCYCECODALIRA	rasol <b>IBP</b> 5000 <b>C</b> KO600DALI <b>BD</b> 1200 x 300 procognitive* 6100 62 warm white** 3050 45	1200 × 200	procognitive* 6100 62	296	90	3			
10281	Spectrasor IBF3000CKO000DALIBD		warm white**	3050	45	1193   290	90	3		

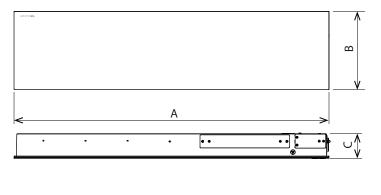
<sup>\*</sup> Procognitive LED Spectrasol 5000 K CRI 95 \*\* LED 2700 K CRI 97

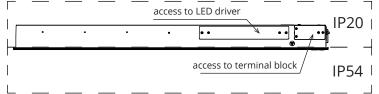
Tolerance of luminous flux and light fixture consumption +/- 10 %

## Accessories

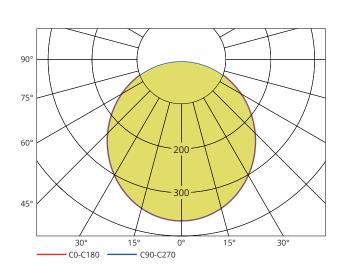
Order code	Variants		Material
99101	Frame for mounting the light fixture into drywall	IBP-A	aluminum
99201	Frame for mounting the light fixture into drywall	IBP-C	aluminum
99102	Frame for surface mounting the light fixture	IBP-A	aluminum
99202	Frame for surface mounting the light fixture	IBP-C	aluminum

## **Specification of dimensions**





## Light distribution



## Visualisation of light fixture





