# Spectrasol IBP

LUMINAIRES EMBEDDED IN A SUSPENDED CEILING

LED



#### LUMINAIRE DESCRIPTION

PATENT NO. 309539

308363

The patented Spectrasol linear LED luminaire will illuminate your interior with artificial light that has properties close to those of 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 eye, 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.

IP20

IP54

220-240

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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 IBP luminaires are procognitive LED luminaires with a large emitting area, designed for installation in cassette and plasterboard soffits. They are suitable, for example, for offices, medical offices, classrooms and other areas where daily activities take place.

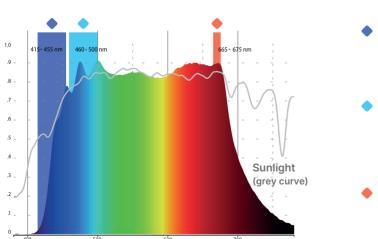
#### **TECHNICAL PARAMETERS**

CRI ≥95

Lighting parameters						
Light distribution	direct					
Optical system	opal PS cover					
UGR	<19					
CCT actual <sup>1</sup>	4800K (2700K) <sup>3</sup>					
CCT specific <sup>2</sup>	5000K (3000K) <sup>3</sup>					
CRI	>95					
DER mel (daily)	(D65)=0.87; (D50)=1					
Flicker	flicker free					
Calculated LED lifetime	L80B20 70.000h					
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	sheet steel					
Finish	Powder-coating white RAL 9016					
Maximum ambient temperature	25°C					
Luminaire protection	IP20 + IP54					
Packaging	Cardboard box					
<sup>1</sup> actual CCT in a typical illuminated space	<sup>3</sup> second CCT value for biodynamic variants only					

<sup>2</sup>specific CCT of luminaire (spherical integrator)

Second CCT value for biodynamic variants only tolerance on photometric quantities ±10%



#### SPECTRASOL SPECTRAL COMPOSITION VISUALISATION IN A TYPICAL ILLUMINATED SPACE AND DESCRIPTION OF ITS KEY REGIONS

Harmful blue light suppressed

- Does not damage retinal cells Does not emit concentrated 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

Balanced energy in the cyan procognitive region (460-500 nm)

### Regenerative photobiomodulating energy

### Regenerates damaged retinal cells

Peak emission in the photobiomodulation red (~670 nm)

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# IBP LUMINAIRE VARIANTS

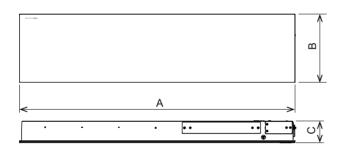
Order code	Title		LED TYPE	Luminous flux of luminaire	EDImel (D65; D50)	Power consumption luminaire	Light fixture dimension [mm]		Weight of luminaire	
				[lm]	[lm]	[W]	А	В	С	[kg]
S01-03-001	Spectrasol IBP5000AKO600ND	600x600	procognitive LED Spectrasol 5000 K CRI 95	4500	3910; 4500	45	596	596	90	2,7
S01-03-002	Spectrasol IBP5000AKO600DALI	600x600								
S01-03-003	Spectrasol IBP5000AKO600DALIBD	600x600					596	596	90	2,9
			relaxing warm, white	3000	-	38				
S01-03-004	Spectrasol IBP5000CKO600ND	1200x300	procognitive LED Spectrasol 5000 K CRI 95	4500	3910; 4500	45	1195	296	90	2,8
S01-03-005	Spectrasol IBP5000CKO600DALI	1200x300								
S01-03-006	Spectrasol IBP5000CK0600DALIBD 120	1200x300					1195	296	90	3
		12002300	relaxing warm, white	3000	-		1195	290		

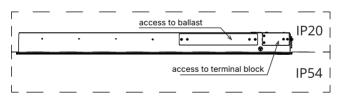
Tolerance on photometric quantities and power consumption of luminaire  $\pm 10\%$ 

# IBP LUMINAIRE ACCESSORIES

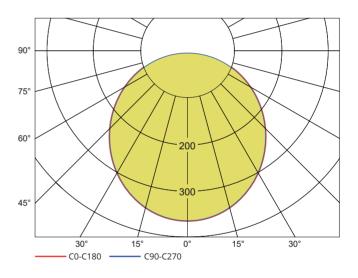
Order code	Variants
P01-03-001	Plasterboard mounting frame for the IBP-A luminaire (QVESTRAMA600)
P01-03-002	Recessed mounting frame for the IPB-A luminaire (RAM100A600/9003)
P01-03-003	Plasterboard mounting frame for the IBP-C luminaire (QVESTRAMC600)
P01-03-004	Recessed mounting frame for the IBP-C luminaire (RAM100C600/9003)
P01-00-001	Universal suspension system (ZH UNI4)

#### LUMINAIRE DIMENSIONS





#### LIGHTING DISTRIBUTION CHART



LUMINAIRE VISUALISATION



