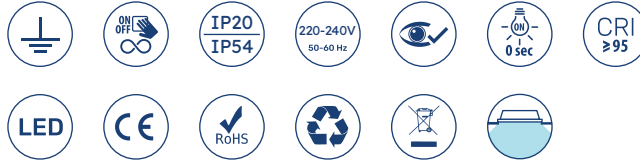


# Spectrasol IBP Work

LUMINAIRES INSTALLED IN A GRID CEILING



## LUMINAIRE DESCRIPTION

The patented Spectrasol LED luminaire will illuminate your interior with artificial light with properties close to natural sunlight. Thanks to its balanced spectral composition (SPD), which positively influences the body's circadian rhythms through the non-visual system of the eye (NIF), you get biologically optimised full-spectrum lighting that supports overall health, physical and mental vitality, and cognitive functions (cognitive performance and endurance, concentration, attention, speed of thinking, ability to understand information, memorisation and recall) indoors during the day.

Spectrasol luminaires do not emit concentrated energy in the short wavelengths of the blue part of the light spectrum in the harmful blue light range, which increases the risk of macular degeneration. Spectrasol, on the other hand, regenerates the eyes by emitting energy in the red, photobiomodulation part of the light spectrum, which acts as a compensatory factor for harmful blue light with both preventive and therapeutic effects.

Spectrasol IBP Work&School are economical, pro-cognitive luminaires featuring a large emitting surface and a highly optimized price. A simple design, cutting-edge patented spectral composition, and exceptional visual comfort resulting from wide light distribution make this model an ideal choice for all offices and production workstations where it is crucial to promote cognitive performance, attention, low error rates, concentration, alertness, vitality, and user health.

## TECHNICAL PARAMETERS

### Light parameters

Light distribution	direct
Optical system	opalescent PS cover
UGR	<19
CCT real <sup>1</sup>	4800K (2700K) <sup>3</sup>
CCT measured <sup>2</sup>	5000K (3000K) <sup>3</sup>
CRI	>95
DER mel (daytime)	(D65)=0,85 ; (D50)=0,98
Flicker	flicker free
Calculated LED lifetime	L80B20 70.000h

### Electrical parameters

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

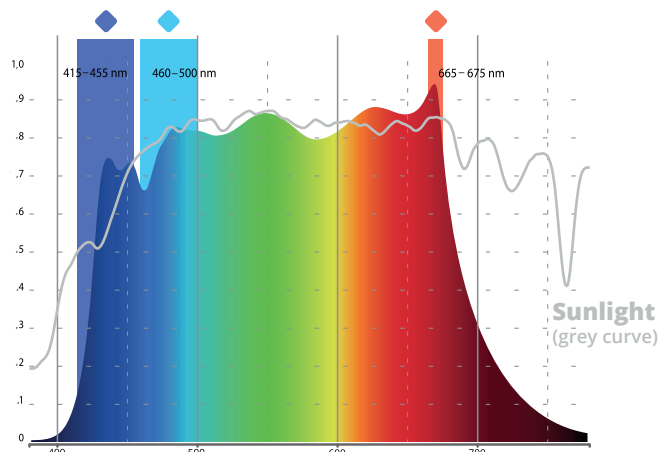
### Mechanical parameters

Body	steel sheet
Surface finish	powder coating white RAL 9016
Maximum ambient temperature	25°C
Protection	IP20 + IP54
Packaging	cardboard

<sup>1</sup>real CCT in a typical illuminated room  
<sup>2</sup>dimensional CCT of luminaire (spherical integrator)

<sup>3</sup>second CCT value for BD variants  
tolerance of photometric values 10%

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



### ◆ Supressed harmful blue light

Does not damage retina cells

Does not emit concentrated energy in the harmful blue light range (415 - 455 nm)

### ◆ Procognitive - Circadian melanopic energy

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

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

### ◆ Regenerative photobiomodulation energy

Regenerates damaged retinal cells

Peak emission in the photobiomodulation red range ( ~ 670 nm)



IBP WORK&SCHOOL LUMINAIRE VARIANTS

Order code	NAME	LED TYPE	Luminous flux of luminaire	EDImel (D65; D50)	Luminaire power consumption	Luminaire dimensions [mm]			Weight [kg]
			[lm]	[lm]	[W]	A	B	C	svítidla
S01-03-013	Spectrasol IBP-A W&S 600x600 3K5	procognitive LED Spectrasol 5000 K CRI 95	3500	2980; 3430	35	596	596	90	2.7
S01-03-014	Spectrasol IBP-A W&S 600x600 DALI 3K5								
S01-03-008	Spectrasol IBP-A W&S 600x600 4K5								
S01-03-009	Spectrasol IBP-A W&S 600x600 DALI 4K5	procognitive LED Spectrasol 5000 K CRI 95	4500	3830; 4410	45	596	596	90	2.7
S01-03-015	Spectrasol IBP-C W&S 1200x300 3K5								
S01-03-016	Spectrasol IBP-C W&S 1200x300 DALI 3K5								
S01-03-010	Spectrasol IBP-C W&S 1200x300 4K5								
S01-03-011	Spectrasol IBP-C W&S 1200x300 DALI 4K5								

Tolerance of luminaire photometric and electric values 10%

JIŠTĚNÍ SVÍTIDEL

Typ svítidla	Maximální po			Náb	
	C10	C16	B16	I <sub>max</sub>	Time
Spectrasol IBP-A W&S 600x600	30	45	30	45 A	100 μs
Spectrasol IBP-C W&S 1200x300					
Spectrasol IBP-A W&S 600x600 DALI	18	30	18	42 A	186 μs
Spectrasol IBP-C W&S 1200x300 DALI					

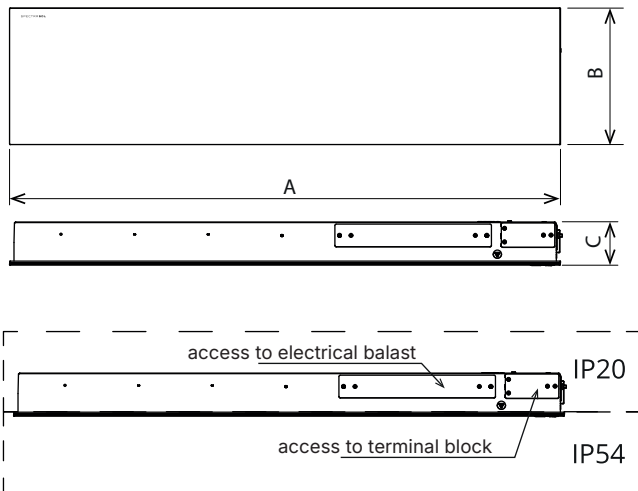
Connection and control DALI/PUSH



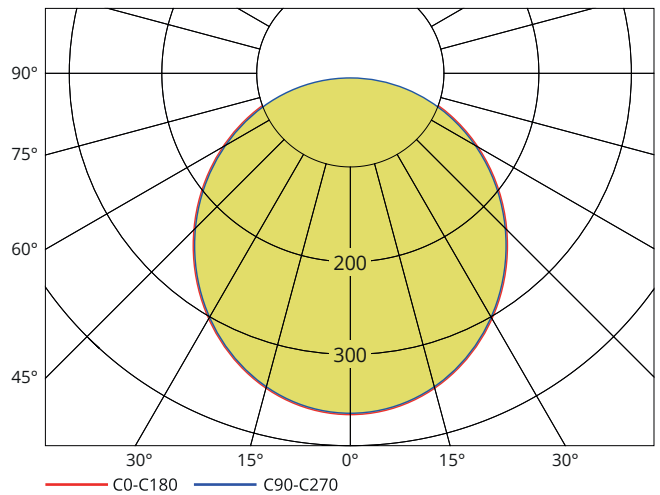
IBP LUMINAIRE ACCESSORIES

Order code	Variants
P01-03-001	Frame for plasterboard installation for luminaire IBP-A (QVESTRAMA600)
P01-03-002	Frame for surface-mounted installation for luminaire IBP-A (RAM100A600/9003)
P01-03-003	Frame for plasterboard installation for luminaire IBP-C (QVESTRAMC600)
P01-03-004	Frame for surface-mounted installation for luminaire IBP-C (RAM100C600/9003)
P01-00-001	Universal suspension system (ZH UNI4)

LUMINAIRE FITTING DIMENSIONS



LIGHT DISTRIBUTION DIAGRAM



LUMINAIRE VISUALISATION

