

Spectrasol IBP ALFA

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 ALFA luminaires are procognitive LED luminaires with a large emission area, designed for installation in cassette and plaster-board ceilings. They are suitable, for example, for offices, surgeries, classrooms and other spaces where daily activities take place.

TECHNICAL PARAMETERS

Light parameters

Light distribution	Direct
Optical system	Opalescent PS cover
UGR	<19
CCT real ¹	4800K (2700K) ³
CCT measured ²	5000K (3000K) ³
CRI	>95
DER mel (daytime)	(D65)=0,87 ; (D50)=1
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

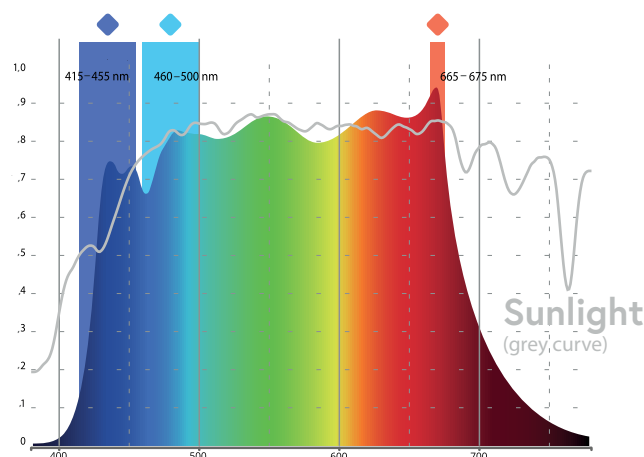
Mechanical parameters

Body	Steel sheet
Surface finish	Powder coating white RAL 9016
Maximum ambient temperature	25°C
Protection	IP20 + IP54
Packaging	Cardboard box

¹real CCT in a typical illuminated room
²dimensional CCT of luminaires (spherical integrator)

³second 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 ALFA LUMINAIRE VARIANTS

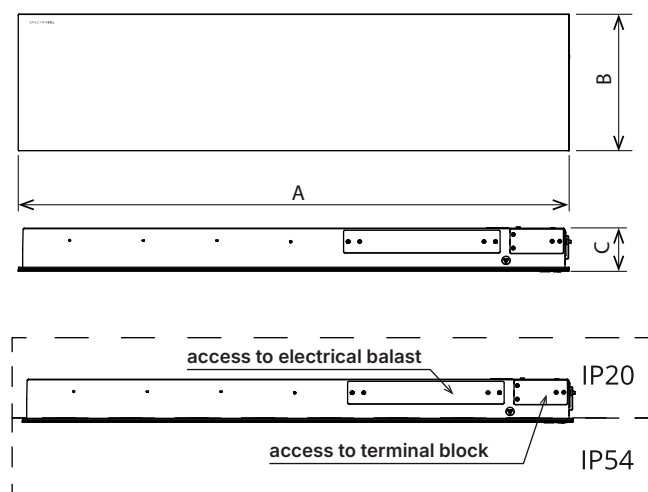
Order code	Name		LED Type	Luminous flux of luminaire	EDImel (D65; D50)	Luminaire power consumption	Light fixture dimensions [mm]			Weight [kg] lighting fixture
				[lm]	[lm]		A	B	C	
S01-03-001	Spectrasol IBP W&S5000AKO600ND	600×600	procognitive LED Spectrasol 5000 K CRI 95	4500	3910; 4500	45	596	596	90	2,7
S01-03-002	Spectrasol IBP W&S5000AKO600DALI	600×600					596	596	90	2,9
S01-03-003	Spectrasol IBP W&S5000AKO600DALIBD	600×600								
S01-03-004	Spectrasol IBP W&S5000CKO600ND	1200×300	procognitive LED Spectrasol 5000 K CRI 95	4500	3910; 4500	45	1195	296	90	2,8
S01-03-005	Spectrasol IBP W&S5000CKO600DALI	1200×300					1195	296	90	3,0
S01-03-006	Spectrasol IBP W&S5000CKO600DALIBD	1200×300								
			Relaxing warm white	3000		38				

Tolerance of photometric quantities and luminaire power consumption +/- 10%

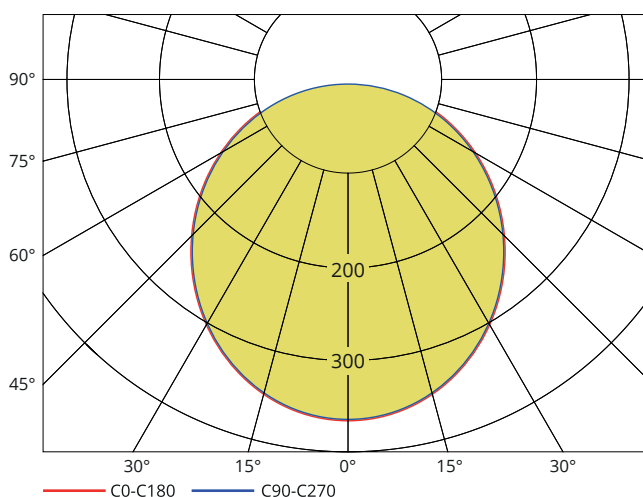
IBP LUMINAIRE ACCESSORIES

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

