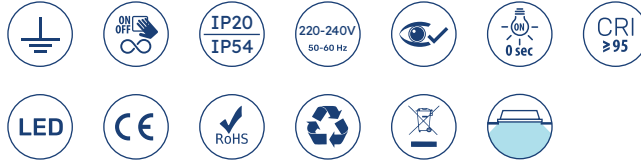
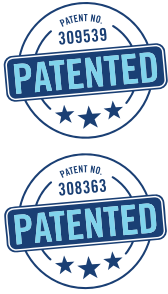


Spectrasol IBP SCHOOL

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 spectrum, and large-area light distribution make this model an ideal choice for all classrooms and staff rooms where it is crucial to promote cognitive performance, learning abilities, attention, concentration, and vitality.

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)=0,85 ; (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 |

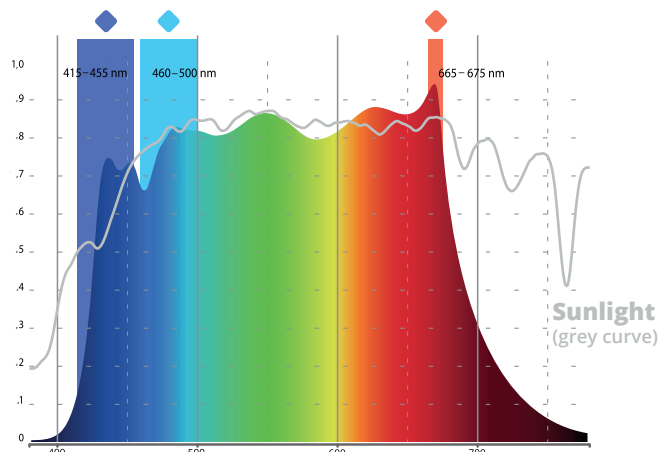
Mechanical parameters

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

¹real CCT in a typical illuminated room
²dimensional CCT of luminaire (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



◆ Suppressed 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 _{max} | 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 | | | | | |

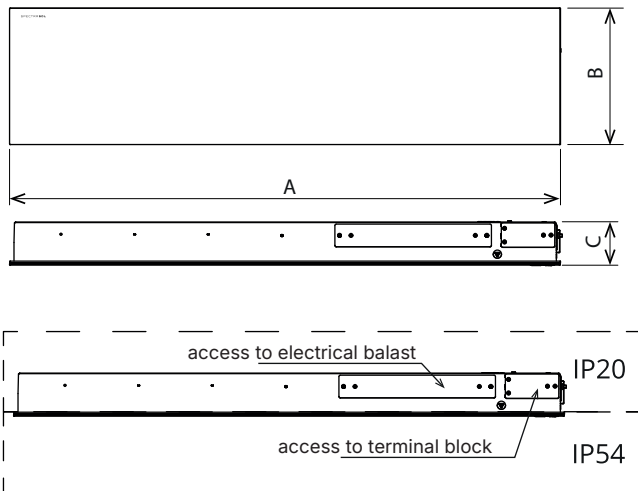
Connection and control DALI/PUSH



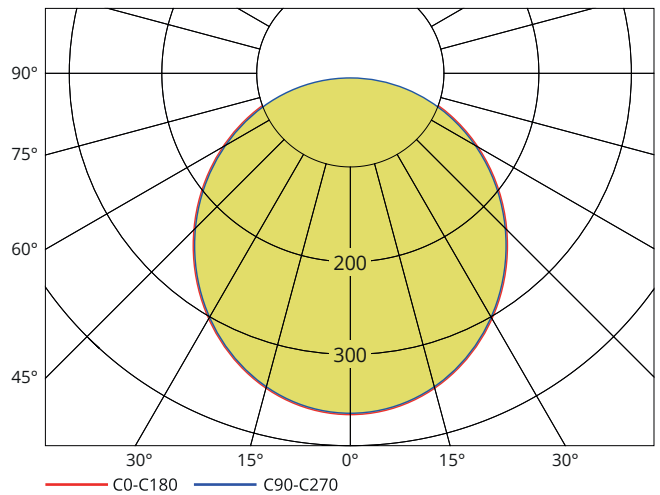
IBP LUMINAIRE ACCESSORIES

| 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

