

# Spectrasol CBP Basic

LUMINAIRES RECESSED INTO A GRID SYSTEM



**3 YEARS WARRANTY**



## LUMINAIRE DESCRIPTION

The patented Spectrasol LED luminaire will brighten your interior with artificial light featuring properties close to natural sunlight. Thanks to its balanced spectral power distribution (SPD), which positively influences the body's circadian rhythms through the non-image forming (NIF) system of the eye, you receive biologically optimized full-spectrum lighting. This supports overall health, physical and mental vitality, and cognitive functions (cognitive performance and endurance, concentration, alertness, speed of thought, ability to understand information, memorization, and recall) within the interior during the day.

At the same time, 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. On the contrary, Spectrasol regenerates the eyes thanks to energy emission 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 CPB Basic are simple, purpose-built pro-cognitive luminaires. Thanks to a simple low-profile construction made of thin, lightweight materials, maximum affordability is achieved while maintaining the patented spectrum and large-area light distribution. This Basic model is an ideal choice for all offices, classrooms, and other spaces where it is important to support cognitive performance, learning abilities, alertness, concentration, and vitality, while also needing to keep the budget at the level of standard luminaires. The luminaires are supplied with a separately packaged LED driver that can be placed directly on the luminaire or in its proximity. A pair of tinned wires is used for connection to the mains.

## TECHNICAL PARAMETERS

### Light parameters

Light distribution	direct
Optical system	opalescent PC difuzor
UGR	<19
CCT real <sup>1</sup>	4800K
CCT measured <sup>2</sup>	5000K
CRI	>95
DER mel (daylight)	(D65)=0,83 ; (D50)=0,95
Flicker	flicker free
Calculated LED lifespan	L80B20 70.000h

### Electrical parameters

Power supply	220-240V 50-60Hz (external driver)
Power connection	tinned wires
Connection to driver	Bayonet connector
Control options	ON/OFF, DALI, SWITCH DIM

### Mechanical parameters

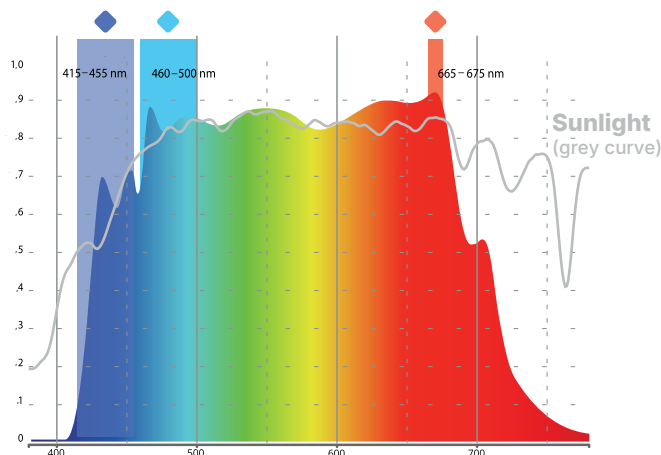
housing	steel sheet, plastic frame
Finish	white coating
Height	33 mm (65 mm with the driver placed on the luminaire)
Maximum ambient temperature	25°C
IP rating	IP20
Packaging	cardboard box + separately packaged driver

<sup>1</sup>Real CCT in a typical illuminated room

Tolerance of photometric values 10%

<sup>2</sup>Measured CCT of the luminaire (integrating sphere)

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



- ◆ **Suppressed Harmful Blue light**  
Does not damage retinal cells  
Does not emit concentrated energy in high-risk harmful blue light area (415 - 455 nm)
- ◆ **Pro-cognitive - Circadian melanopic energy**  
Supports the circadian system, sustained cognitive performance, health, and mood  
Balanced energy in the cyan pro-cognitive area (460 - 500 nm)
- ◆ **Regenerative photobiomodulation energy**  
Regenerates damaged retinal cells  
Emission peak in the photobiomodulation red area (~ 670 nm)



LUMINAIRE VARIANTS - SPECTRASOL CBP BASIC

Order code	Name	LED type	Supply current (DC)	Luminous flux*	EDimel (D65)*	EDimel (D50)*	Power consumption (AC)*	Luminaire dimensions [mm]			Weight [kg]
								A	B	C	
S01-07-001	Spectrasol CBP-A	600x600	900-1300	3500-5000	2900-4150	3300-4750	35-52	595	595	33	1.8
S01-07-001-D	Spectrasol CBP-A DALI	600x600									
S01-07-002	Spectrasol CBP-C	1200x300	900-1300	3500-5000	2900-4150	3300-4750	35-52	1195	195	33	1.8
S01-07-002-D	Spectrasol CBP-C DALI	1200x300									

\* Current setting is supported only by DALI/PUSH drivers.

Tolerance of photometric & electric values 10%

Accessories – LED drivers

Order code	Model	Type	Current settings	Power consumption	Luminaire Luminous flux	Note	Inrush current		Maximum number of luminaires per circuit					
			[mA]	[W]	[lm]		I <sub>max</sub>	Time	B10	C10	B16	C16	B20	C20
1-P-LZ-010	BK-BSL042-A1050A	ON/OFF	1050	39	4000	upon request	20,64 A	202 us	17	28	27	45	52	86
1-P-LZ-001	BK-BSL042-A1100A	ON/OFF	1100	42	4300	default - on/off model								
1-P-LZ-002	BK-DEL042-B1100AD	DALI/PUSH	750	29	3000	To be set during installation	7,9 A	176 us	33	33	52	52	65	65
			900	35	3500	To be set during installation								
			1000	41	4000	To be set during installation								
			1100	44	4300	default settings								
1-P-LZ-003	BK-DKL060-A1650AD	DALI/PUSH	1150	46	4500	To be set during installation	28,6	346 us	7	11	10	17	13	22
			1300	52	5000	default settings								

\* Current adjustment is supported only by DALI/PUSH drivers. Select the desired current by setting the current selector according to the legend.

Tolerance of photometric and electric values 10%

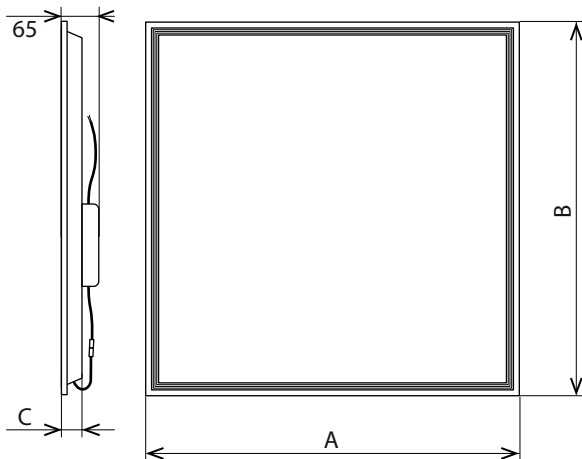
Mounting accessories

Order Code	Model
1-P-LZ-004	surface-mounted frame CBP RAM-A 600x600
1-P-LZ-005	surface-mounted frame CBP RAM-C 1200x600
1-P-LZ-006	Plasterboard clip, pack of 4 pcs (for CBP-A)
1-P-LZ-007	Plasterboard clip, pack of 6 pcs (for CBP-C)
1-P-LZ-008	Suspension kit, 2 pcs (for CBP-A/C)
1-P-LZ-009	Suspension kit, 3 pcs (for CBP-C)

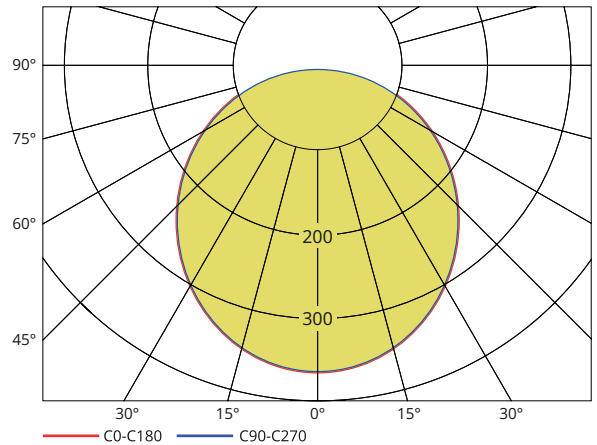
Wiring and control of DALI/PUSH luminaires.



LUMINAIRE DIMENSIONS



LIGHT DISTRIBUTION DIAGRAM



LUMINAIRE VISUALISATION

