

# Spectrasol MEDD WALL

WALL-MOUNTED LINEAR LUMINAIRES WITH INDIRECT LIGHT DISTRIBUTION



## 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 will obtain biologically optimised full-spectrum lighting that supports overall health, physical and mental vitality, and cognitive functions (cognitive performance and endurance, concentration, attention, speed of thought, 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 MEDD wall is a pro-cognitive wall-mounted luminaire of unique design. It is created for the highest lighting comfort and provides sufficient high-quality light for work or study. Compared to the ADDAM and Sunline 45 models, it offers up to double the luminous output and is also available in biodynamic variants with direct warm relaxing light.

## TECHNICAL PARAMETERS

### Light parameters

Light distribution	indirect (direct) <sup>4</sup>
Optical system	clear PMMA cover (opal) <sup>4</sup>
UGR	N/A (indirect lighting)
Real CCT <sup>1</sup>	4800K (2300K) <sup>4</sup>
Specific CCT <sup>2</sup>	5000K (2400K) <sup>4</sup>
CRI	>95 (>97) <sup>4</sup>
DERmel (day mode)	(D65)=0,87 ; (D50)=1
Flicker	flicker free
Calculated LED lifetime	L80B20 70.000h

### Electrical parameters

Power supply	220–240V 50–60Hz
Connection	screwless terminals

Control options	ON/OFF, DALI
-----------------	--------------

### Mechanical parameters

Body	custom extruded ALU profile
Extrusion Dimensions	83x90
Surface finish	custom RAL powder coating

Possibility of linear connection	yes <sup>3</sup>
----------------------------------	------------------

Maximum ambient temperature	25 °C
Luminaire protection rating	IP20
Packaging	Miralon + protective foil

<sup>1</sup>real CCT in a typically illuminated room

<sup>2</sup>measured CCT of the luminaire

(integrating sphere)

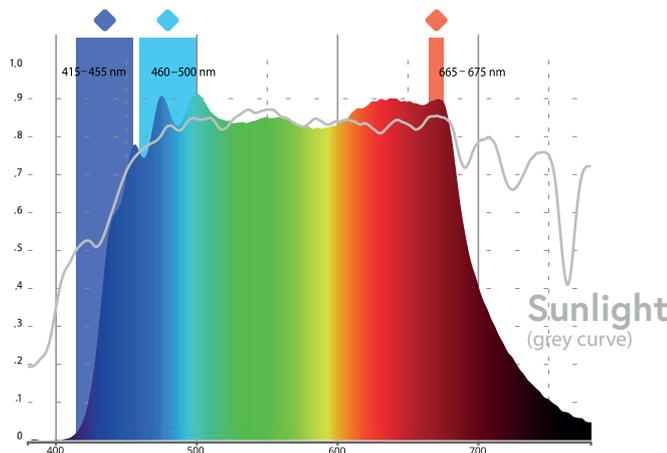
<sup>3</sup>to be resolved individually within the project

<sup>4</sup>second values apply to the evening mode of the BD

variant

tolerance of photometric quantities ±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)

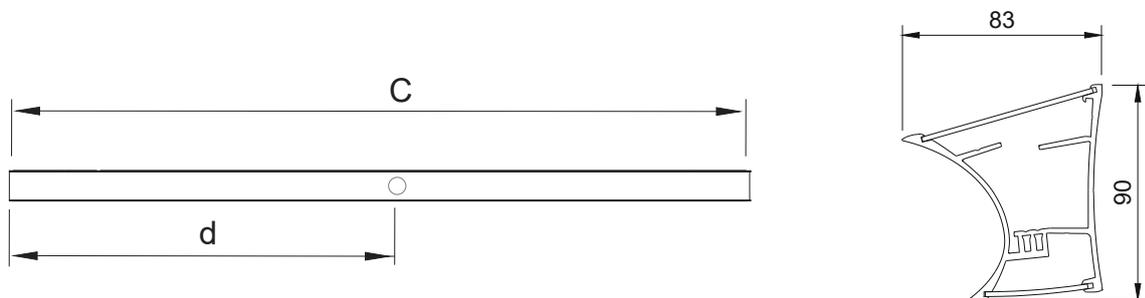


LUMINAIRE VARIANTS OF SPECTRASOL MEDD WALL

Order code	Variants	LED Module TYPE	Luminous flux [lm]	EDImel (D65; D50) [lm]	Power consumption [W]	Number of DALI control addresses	Length [mm]	Standard cable entry position [mm]	Luminaire weight [kg]
							C	d	
S04-02-003	Spectrasol MEDD WALL1200	pro-cognitive LED Spectrasol 5000 K CRI 95	11600	10090; 11600	126	2	1200	60	
S04-02-004	Spectrasol MEDD WALL 1200 DALI								
S04-02-005	Spectrasol MEDD WALL 1200 BD	pro-cognitive LED Spectrasol 5000 K CRI 95	11600	10090; 11600	126	3			
		evening LED 2400 K CRI 97	2050	-	38				
S04-02-008	Spectrasol MEDD WALL1800	pro-cognitive LED Spectrasol 5000 K CRI 95	17400	15120; 17400	194	3	1800	80	
S04-02-009	Spectrasol MEDD WALL1800 DALI								
S04-02-010	Spectrasol MEDD WALL 1800 BD	pro-cognitive LED Spectrasol 5000 K CRI 95	17400	15120; 17400	194	4			
		evening LED 2400 K CRI 97	2450	-	42				
S04-02-013	Spectrasol MEDD WALL 2400	pro-cognitive LED Spectrasol 5000 K CRI 95	23200	20180; 23200	252	4	2400	80	
S04-02-014	Spectrasol MEDD WALL 2400 DALI								
S04-02-015	Spectrasol MEDD WALL 2400 BD	pro-cognitive LED Spectrasol 5000 K CRI 95	23200	20180; 23200	252	5			
		evening LED 2400 K CRI 97	3400	-	55				
S04-02-018	Spectrasol MEDD WALL 3000	pro-cognitive LED Spectrasol 5000 K CRI 95	29000	25220; 29000	324	5	3000	80	
S04-02-019	Spectrasol MEDD WALL 3000 DALI								
S04-02-020	Spectrasol MEDD WALL 3000 BD	pro-cognitive LED Spectrasol 5000 K CRI 95	29000	25220; 29000	324	6			
		evening LED 2400 K CRI 97	4300	-	69				

Tolerance of photometric quantities and luminaire power ±10%

LUMINAIRE DIMENSIONS



LUMINAIRE VISUALIZATION

