

Spectrasol Sunline 80 Direct

DIRECT-LIGHTING LUMINAIRES



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 Sunline Direct luminaires are designed for direct daylight illumination. They are suitable, for example, for spaces where dark or textured ceilings make it impossible to use luminaires with indirect or large-area light distribution. Depending on the choice of accessories, these models can be suspended or surface-mounted.

TECHNICAL PARAMETERS

Light parameters

Light distribution	direct
Optical system	microprism
UGR	<19 (depending on the lighting design)
CCT real ¹	4800K
CCT specific ²	5000K
CRI	>95
DER mel	(D65)=0,87 ; (D50)=1
Flicker	flicker free
Calculated lifetime LED	L80B20 70.000h

Electrical parameters

Power supply	220-240V 50-60Hz
Connection	transparent supply wire terminated with ferrules
Control options	ON/OFF, DALI, SWITCH DIM

Mechanical parameters

Luminaire body	aluminum extrusion
Extrusion dimensions	80x93 mm
Surface finish	powder coat white RAL 9016
Maximum ambient temperature	25°C
Luminaire protection rating	IP20
Packaging	cardboard box

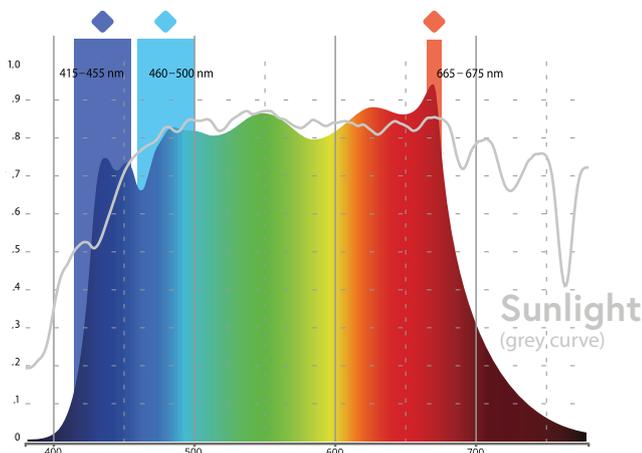
tolerance of photometric values +/- 10%

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¹real CCT in typically illuminated room

²specific CCT if luminaire (integrating sphere)

VISUALIZATION OF THE SPECTRASOL SPECTRAL COMPOSITION WITHIN A TYPICAL ILLUMINATED SPACE AND A 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

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)



SUNLINE 80 DIRECT VARIANTS

Order code	Variant	LED module type	Luminaire Luminous flux	EDImel (D65; D50)	Power consumption	Length [mm]
			[lm]	[lm]	[W]	C
1-S03-07-001	Spectrasol SL80 DIR 1131 WH	Procognitive, fotobiomodulation LED Spectrasol 4800 K CRI 95	2720	2366; 2720	33	1131
1-S03-07-002	Spectrasol SL80 DIR 1131 SR					
1-S03-07-003	Spectrasol SL80 DIR 1131 BK					
1-S03-07-004	Spectrasol SL80 DIR 1131 DALI WH					
1-S03-07-005	Spectrasol SL80 DIR 1131 DALI SR					
1-S03-07-006	Spectrasol SL80 DIR 1131 DALI BK					
1-S03-07-007	Spectrasol SL80 DIR 1412 WH	Procognitive, fotobiomodulation LED Spectrasol 4800 K CRI 95	3410	2967; 3410	40	1412
1-S03-07-008	Spectrasol SL80 DIR 1412 SR					
1-S03-07-009	Spectrasol SL80 DIR 1412 BK					
1-S03-07-010	Spectrasol SL80 DIR 1412 DALI WH					
1-S03-07-011	Spectrasol SL80 DIR 1412 DALI SR					
1-S03-07-012	Spectrasol SL80 DIR 1412 DALI BK					
1-S03-07-013	Spectrasol SL80 DIR 1692 WH	Procognitive, fotobiomodulation LED Spectrasol 4800 K CRI 95	4090	3558; 4090	49	1692
1-S03-07-014	Spectrasol SL80 DIR 1692 SR					
1-S03-07-015	Spectrasol SL80 DIR 1692 BK					
1-S03-07-016	Spectrasol SL80 DIR 1692 DALI WH					
1-S03-07-017	Spectrasol SL80 DIR 1692 DALI SR					
1-S03-07-018	Spectrasol SL80 DIR 1692 DALI BK					
1-S03-07-019	Spectrasol SL80 DIR 1973 WH	Procognitive, fotobiomodulation LED Spectrasol 4800 K CRI 95	4770	4150; 4770	57	1973
1-S03-07-020	Spectrasol SL80 DIR 1973 SR					
1-S03-07-021	Spectrasol SL80 DIR 1973 BK					
1-S03-07-022	Spectrasol SL80 DIR 1973 DALI WH					
1-S03-07-023	Spectrasol SL80 DIR 1973 DALI SR					
1-S03-07-024	Spectrasol SL80 DIR 1973 DALI BK					
1-S03-07-025	Spectrasol SL80 DIR 2253 WH	Procognitive, fotobiomodulation LED Spectrasol 4800 K CRI 95	5450	4742; 5450	65	2253
1-S03-07-026	Spectrasol SL80 DIR 2253 SR					
1-S03-07-027	Spectrasol SL80 DIR 2253 BK					
1-S03-07-028	Spectrasol SL80 DIR 2253 DALI WH					
1-S03-07-029	Spectrasol SL80 DIR 2253 DALI SR					
1-S03-07-030	Spectrasol SL80 DIR 2253 DALIBK					

DIR - direct light distribution

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

VIZUALIZACE SVÍTIDLA

