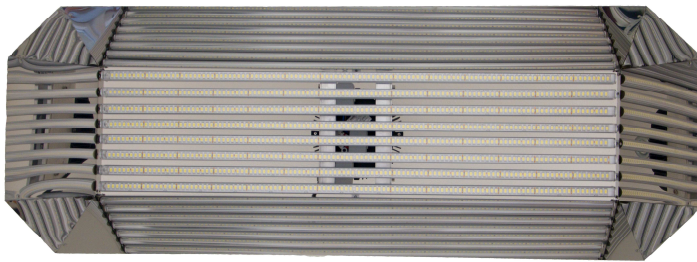


# SAMSON POWER

## DATASHEET / TECHNICAL SPECIFICATION

The most effective industrial surface mounted and suspended luminaire LED



It is suitable for use for example in shopping centres, sports facilities, gyms, warehouses with rack system, in production and assembly halls, etc. Its installation is easy, by hanging the luminaire with the central suspension lug.

### Basic description of luminaires of SAMSON POWER product line

- Czech product
- luminous flux of up to **88 374 lm**, due to which this is **the most powerful LED luminaire**
- **efficiency up to 144 lm / W** of the luminaire also at high power inputs, due to which this is **the most efficient industrial luminaire**
- the possibility of controlling DALI, 1 ~ 10 VDC, PWM signal, WILE wireless control, resistor
- option of completing by emergency channel
- thanks to the suitably chosen airflow the luminaire has the self-cleaning effect. Efficient cooling system maintains a low operating temperature of LED and also of ballasts
- easy option to exchange the dysfunctional sources for new ones!
- optics made of quality plastic with efficiency up to 97%
- produced of aluminium alloy and stainless steel
- LED lifetime of 70,000 hours (L70)
- color rendering index min.  $R_a > 80$  (typ. 85)
- temperature of chromaticity: 4000 K, 5700 K
- span of operating ambient temperature:  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
- ingress protection IP54 - IP67
- impact test IK08
- suspension: power inputs up to 83W surface mounted, 165 W and 246 W with central lug, Higher power inputs by four lugs.

## TECHNICAL SPECIFICATION

*Electrical parameters*

light source	LED
supply voltage	AC 230 V / 50 Hz
power input of the luminaire	18 - 618 W
connection	by terminal board or wires 3 x 1,5mm <sup>2</sup>
ballasts	electronic
alternative execution	external ballast
Dimming	system DALI, wireless system WILE
channel of emergency lighting	with external power supply only

*Luminous parameters*

optical system	30°, 60°, 110°
light distribution	direct
luminaire efficiency	131 lm / W (lower power inputs) - 144 lm / W (higher power inputs)
total luminous flux	2 203 up to 88 374 lm
color rendering index	> 80
temperature of chromaticity	4000 K, 5700 K, 6500 K
optics	PMMA with efficiency up to 97% (clear 110 °)
ingress protection of optical part	IP54
illuminating area dimensions	depending on the design 20x550mm – 680 x 1500mm
LED lifetime	70 000 (L70)

*Design of the luminaire*

material of luminaire	aluminium alloy, stainless steel
standard shade	grey anodized, stainless
cooling	air cooling, passive with streamline effect
LED temperature mode	low-temperature
mounting method	up to 83 W with surface mounted, higher power inputs with central suspension (4 hinges)

## LEGEND

<b>SAMSON</b>	<b>246</b>	<b>60</b>	<b>DALI</b>	<b>4k0</b>	<b>E</b>	<b>H</b>
<b>LUMINAIRE NAME</b>	<b>LUMINAIRE WATTAGE</b>	<b>RADIATION ANGLE</b>	<b>DIMMING SYSTEM</b>	<b>T<sub>c</sub></b>	<b>EMERGENCY MODULE</b>	<b>TEMPERATURE RESISTANCE</b>
		30 = 30° 60 = 60° 110 = 110°	system DALI wireless WILE	4k0 = 4000 K 5k7 = 5700 K	E = emergency module nothing = without module	H = up to 70°C nothing = up to 50°C

The mentioned luminous flux applies to the standard version and it may differ depending on other requirements such as IP coverage, the opal cover etc.

A part of the fixture is shadowing element against glare. The version with radiation angle of 30 ° is designed primarily for rack systems. For this reason this shadowing element is not available in it standardly.

The electronic ballasts are thermally separated from the LED coolers. The luminaire can withstand higher ambient temperatures. The luminaires of SAMSON POWER product line can be supplied also with external ballasts. This solution is suitable e.g. where there are more luminaires connected to the one electronic ballast, or is appropriate for the electronic ballast that has to be outside luminaire.

## PERFORMANCE VARIANTS

LUMINAIRE TYPE	LUMINAIRE DIMENSIONS [mm] (w x l x h)	TOTAL WATTAGE	TOTAL LUMINOUS FLUX [lm]	LUMINOUS EFFICACY FROM THE LUMINAIRE [LM/W]
SAMSON 16.110.4k0	110x450x110	18	2 203	122,4
SAMSON 43.110.4k0	110x1020x170	43	5 633	131
SAMSON 83.110.4k0	110x1020x170	83	11 212	135
SAMSON 165.110.4k0	300x1050x300	165	23 760	144
SAMSON 246.110.4k0	340x1050x300	245	35 280	144
SAMSON 246.60.4k0	340x1050x300	246	34 917	142
SAMSON 246.30.4k0	300x1025x150	246	32 688	133
SAMSON 331.60.4k0	400x1050x300	331	47 652	144
SAMSON 331.30.4k0	300x1520x300	331	43 030	130
SAMSON 618.60.4k0	700x1050x300	618	88 374	143
SAMSON 618.30.4k0	500x1520x300	618	82 194	133

We also produce the luminaires of **SAMSON ELEGANCE** product line that are designed for residential and commercial spaces, communication zones, offices, shops, medical facilities, waiting rooms etc. These luminaires are characterized by subtle lines and elegant appearance. Their power input is 32 W.



In case you need some other version of the luminaire, some modifications or completely different luminaire, let us know. We create for you a luminaire according to your requirements. We also produce manually the design luminaires. Each luminaire is original.

**Light is our fun!**

Constantly we are developing our luminaires and therefore the change of parameters is reserved. For more detailed information, please contact us.