

Samsung LED lighting: PAR

Adjustable, high-performing, low-energy LED lamps



Highlights

- Reduce energy costs with lamps that consume 80 percent less energy than halogen lamps
- Decrease maintenance expenditures with lighting that lasts up to 40 times longer than halogen alternatives
- Improve ambient lighting quality with a versatile choice of 25° or 40° beam angles
- Protect employees with lead- and mercury-free products

Replace traditional halogen lamps with better-performing LED lighting

Purchasing and maintaining lighting for a business can present challenges. Lighting can constitute a large part of energy costs, which continue to rise worldwide. For businesses with many lighting units, the task of frequently purchasing and changing bulbs and tubes can be expensive and inconvenient. Conventional high-temperature lamps provide less natural light. These lamps can damage retail merchandise and alter coloring. If conventional lamps are touched or broken, they can even harm employees or customers.

Samsung PAR LED lamps are designed to provide a robust, energy-efficient and cost-effective replacement for halogen lamps in a variety of applications. A rated lifetime of up to 40,000 hours can lead to energy savings of up to 80 percent over traditional halogen lamps. PAR helps reduce expenses with lower replacement, maintenance and energy costs. PAR is designed to be safer and easier to use, with no glass or filaments. Samsung's proprietary heat-protection technology reduces the surface temperature, making the lamps safe to touch.

Compliant with American National Standards Institute (ANSI) restrictions, PAR offers a convenient way to upgrade conventional lighting systems to LED technology.

Decrease utility expenses with energy-efficient lighting

PAR consumes less electricity by providing the same level of brightness at a lower wattage than conventional lighting. For example, PAR lamps operating at 5 - 20 W can provide the same amount of light as halogen lamps operating at 20 - 200 W. This reduction in energy usage helps lower utility costs and contributes to a faster return on investment (ROI). According to the manufacturer's estimates, Samsung PAR lamps consume up to 80 percent less energy than traditional halogen lamps.

Reduce maintenance costs with long-lasting lighting and simpler installation

PAR lamps last up to 40 times longer than traditional halogen lamps, with no performance reduction, and are designed for easy installation. These factors can contribute to reductions in labor and lamp replacement costs. Each lamp yields up to 40,000 hours of lighting, providing long-term ROI for businesses.

Compatible with standard fixtures, PAR lamps are suitable for standard E26 and E27 bases and form factors, so businesses can avoid investing in new fixtures.

Create attractive displays to capture customer attention.

PAR can be used in a variety of settings, including restaurants, retail establishments, hotel rooms, research labs, building lobbies, offices and waiting areas.

Enhance the lighting of offices and retail displays with versatile, adjustable PAR

In retail environments, PAR can help create stunning displays that capture customer attention. The pure, natural quality of PAR lighting showcases products in an attractive way to optimize sales opportunities. Samsung's advanced heat-protection technology reduces heat damage that can lead to product discoloration. This factor is particularly important when a product's color affects its appeal to customers.

With the choice of 25° or 40° beam angles, PAR provides a versatile lighting system for a variety of applications:

- The accent-type 25° option helps professionals spotlight merchandise and other displays in retail applications, museums and galleries.
- The general 40° option is the preferred solution in most situations where clear lighting is essential to safety and functionality.

PAR lamps are adjustable, enabling businesses to control the intensity of light output. PAR is compatible with a wide range of dimmers, including normal-phase, wall box and plug-in unit phase-cut. Featuring a smooth dimming curve and deeper dimming level, PAR lighting can be finely tuned to create the ideal ambient atmosphere.

Provide a safer working environment with durable, hazard-free lamps

Because it produces no flickering or glare, PAR helps reduce eyestrain and provides clean, natural light. Because it does not emit UV or IR radiation, PAR lamps contribute to a safer, more comfortable working environment.

Unlike compact fluorescent lamps (CFLs), PAR lamps are lead- and mercury-free, and comply with the Reduction of Hazardous Substances (RoHS) directive.

PAR features a robust design that helps reduce the risk of breakage and potential hazards. It contains no glass or filaments, providing increased durability and longevity. The lower thermal emission provided by Samsung heat-protection technology reduces the surface temperature so that lamps can be safely placed near heat-sensitive objects.



Figure 1. PAR offers a range of flexible LED lighting options.

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Specifications*

	SI-P8W072AB1US	SI-P8W072AD1US	SI-P8V072AB1US	SI-P8V072AD1US	SI-P8W152BB1US	SI-P8W152BD1US	SI-P8V152BB1US	SI-P8V152BD1US	SI-P8T152BB1US
Product	PAR20	PAR20	PAR20	PAR20	PAR30	PAR30	PAR30	PAR30	PAR30
Watt	50	50	50	50	75	75	75	75	75
Power consumption (W)	7.0	7.0	7.0	7.0	15	15	15	15	15
Luminous flux (lm)	360	360	400	400	890	890	960	960	1,050
Efficacy (lm/W)	51	51	57	57	59	59	64	64	70
CBCP (cd)	1,380	730	1,550	900	3,230	1,870	3,490	2,020	3,570
CCT (K)	2,700	2,700	3,000	3,000	2,700	2,700	3,000	3,000	4,000
Beam angle (°)	25	40	25	40	25	40	25	40	25
Rated current (mA)	80	80	80	80	130	130	130	130	130
Frequency (Hz)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)
PF	0.7+	0.7+	0.7+	0.7+	0.7+	0.7+	0.7+	0.7+	0.7+
Lifetime (hrs)	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Size	63 mm x 84.9 mm (2.48 in. x 3.34 in.)	63 mm x 84.9 mm (2.48 in. x 3.34 in.)	63 mm x 84.9 mm (2.48 in. x 3.34 in.)	63 mm x 84.9 mm (2.48 in. x 3.34 in.)	95 mm x 87.3 mm (3.74 in. x 3.44 in.)	95 mm x 87.3 mm (3.74 in. x 3.44 in.)	95 mm x 87.3 mm (3.74 in. x 3.44 in.)	95 mm x 87.3 mm (3.74 in. x 3.44 in.)	95 mm x 87.3 mm (3.74 in. x 3.44 in.)
Weight (kg)	145 g (0.32 lb)	145 g (0.32 lb)	145 g (0.32 lb)	145 g (0.32 lb)	288 g (0.63 lb)	288 g (0.63 lb)	288 g (0.63 lb)	288 g (0.63 lb)	288 g (0.63 lb)

	SI-P8T152BD1US	SI-P8W183DB1US	SI-P8W183DD1US	SI-P8V183DB1US	SI-P8W152BB1US	SI-P8W091061US	SI-P8V151DB1US	SI-P8V151DD1US
Product	PAR30	PAR38	PAR38	PAR38	PAR38	PAR38	PAR38	PAR38
Watt	75	100	100	100	100	65	75	75
Power consumption (W)	15	18	18	18	18	9.8	14	14
Luminous flux (lm)	1,050	1,030	1,030	1,130	1,130	680	900	900
Efficacy (lm/W)	70	57	57	63	63	69	64	64
CBCP (cd)	2,070q	4,240	2,280	4,530	2,440	-	3,700	1,800
CCT (K)	4,000	2,700	2,700	3,000	3,000	2,700	3,000	3,000
Beam angle (°)	40	25	40	25	40	60	25	40
Rated current (mA)	130	155	155	155	155	84	125	125
Frequency (Hz)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	50 - 60 (60)	60	50/60	50/60
PF	0.7+	0.7+	0.7+	0.7+	0.7+	0.9	0.9	0.9
Lifetime (hrs)	40,000	40,000	40,000	40,000	40,000	25,000	25,000	25,000
Size	95 mm x 87.3 mm (3.74 in. x 3.44 in.)	120 mm x 128.3 mm (4.72 in. x 5.05 in.)	120 mm x 128.3 mm (4.72 in. x 5.05 in.)	120 mm x 128.3 mm (4.72 in. x 5.05 in.)	120 mm x 128.3 mm (4.72 in. x 5.05 in.)	95 mm x 131 mm (3.74 in. x 5.16 in.)	120 mm x 128.9 mm (4.72 in. x 5.07 in.)	120 mm x 128.9 mm (4.72 in. x 5.07 in.)
Weight (kg)	288 g (0.63 lb)	600 g (1.32 lb)	600 g (1.32 lb)	600 g (1.32 lb)	600 g (1.32 lb)	210 g (0.46 lb)	455 g (1 lb)	455 g (1 lb)

*All models are available in the US and have a base of E26, a CRI of 80 RA, a rated voltage of 120 V, dimming, and an ambient temperature of -20°C - 40°C (-4°F - 104°F).

Legal and additional information

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For more information

For more information about Samsung PAR LED lighting, visit www.samsungled.com.



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