



Outdoor & Industry

High Efficiency

World Class Reliability

PHILIPS
LUMILEDS

Industry

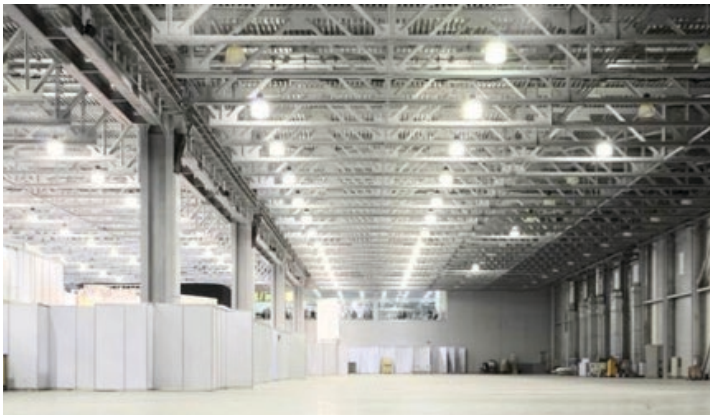
Application requirements

- Increased optical control optimizes luminaire spacing and puts light where it is needed
- Accurate color rendering for productivity and safety
- Instant on without compromising reliability
- Ideal for dimming and occupancy based controls
- Provides uniform lighting

Philips Lumileds LEDs accelerate ROI with lower maintenance costs while providing a safe and productive working environment

Philips Lumileds LEDs outperform conventional lighting

	System Efficacy	Reliability
HID	60 lm/W	15,000 hrs
Philips Lumileds LEDs	>100 lm/W	>60,000 hrs



Outdoor

Application requirements

- Breakthrough efficacy for fast payback
- Highest flux, enabling low cost systems
- Unrivaled reliability for low maintenance
- Broad product portfolio with CCTs from 2700-6500K and CRIs of 60, 70 and 80 minimum

Philips Lumileds LEDs enable faster payback and lower upfront costs

Philips Lumileds LEDs outperform conventional lighting





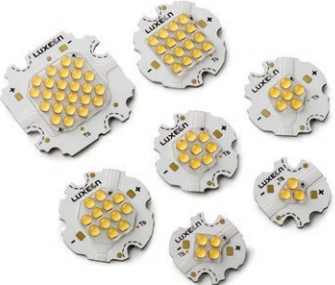
	System Efficacy	Reliability
High Pressure Sodium	60 lm/W	15,000 hrs
Philips Lumileds LEDs	>100 lm/W	>60,000 hrs



Outdoor & Industry LED Solutions

Leading Lifetime & Reliability

- Leading lumen maintenance
- 1,200,000,000 device hours of testing
- Comprehensive statistical process control
- Complete device traceability

Product Type	Product	Key Benefits	Flux (4000K Typical)	CRI (min)	Source Type	System Efficacy	Cost Efficient	CCT Accuracy
Low Emitter Count Solution for Innovative Designs	LUXEON M 	<ul style="list-style-type: none"> • Flexibility to optimize system for high efficacy or lower cost depending on application requirement • High efficacy of >130 lm/W @ 4000K for faster ROI • Assembly and manufacturing cost savings due to component count reduction • Available in wide range of CCTs from 3000 to 5700K 	905 lm @ 700 mA, 85°C	70 & 80	Array	+++	+++	5-Step
LUXEON High Power	LUXEON T 	<ul style="list-style-type: none"> • Best performance in a highly efficient package • Compatible with LUXEON Rebel ES optics • Enables more efficient warm white city center lighting to replace HPS • Available in wide range of CCTs from 2700 to 5700K, 70 and 80 CRI minimum 	240lm @ 700 mA, 85°C	70 & 80	Emitter	+++	+++	5-Step
	LUXEON R 	<ul style="list-style-type: none"> • 70 CRI minimum in the standard LUXEON Rebel package • Available in wide range of CCTs from 3000 to 6500K CCTs, 70 CRI minimum 	220 lm @ 700 mA, 85°C	70	Emitter	+++	++	5-Step
	LUXEON Rebel ES 	<ul style="list-style-type: none"> • Cost effective building block at 60 CRI minimum • Broad emitter portfolio of CCT and CRI combinations that enable a variety of outdoor applications 	235 lm @ 700 mA, 25°C	60	Emitter	++	+++	ANSI
Best Single Source Solution	LUXEON K 	<ul style="list-style-type: none"> • High lumen density arrays ensuring bright concentrated light • Recommended for applications where high CRI is important such as warehouses, 80 CRI minimum • Fully characterized light source resulting in ease of design and assembly, no PCB required • Freedom From Binning – single V_f, Flux and CCT bin 	886 lm (8-up) 1772 lm (16-up) @ 700 mA, 85°C	80	Array	+++	+++	3-Step

Philips Lumileds enables fast time to market with broad ecosystem support.

 A collection of thermal management components including a black heat sink with multiple fins, a white heat sink with vertical fins, and a black cylindrical component with a ribbed side.	 A collection of white plastic clamps and brackets, including a circular ring with four mounting points and several smaller L-shaped and U-shaped pieces.
Thermal Management	Clamps
 A collection of electronic drivers, including a black rectangular component, a white rectangular component with a blue button, and a black cylindrical component.	 A collection of optical components, including a clear lens and a silver-colored metal housing with a lens opening.
Drivers	Optics

Please check out our growing ecosystem support at the following websites:

www.LUXEONecosystem.com

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www.philipslumileds.com