



Retail & Hospitality

Quality of Light

Lighting that Sells

PHILIPS
LUMILEDS

Downlights

Application requirements

- Uniform and less than 3-step MacAdam Ellipse LED to LED consistency
- High efficiency for professional downlight market
- Enabling low system costs for consumer downlight solutions
- Broad portfolio with CCTs from 2700K to 5000K with 80 CRI minimum

Philips Lumileds enables the highest efficacy LED downlight solution with the fastest return on investment

Philips Lumileds LEDs outperform conventional lighting

	System Efficacy	Reliability
CFL	60-80 lm/W	15,000 hrs
Philips Lumileds LEDs	80-100 lm/W	50,000 hrs



Downlights

Product Type	Product	Key Benefits	Source Type	System Efficacy	Cost Efficient	CCT Accuracy
Best Single Source Solution 	LUXEON K	Simple system integration w/ guaranteed performance <ul style="list-style-type: none"> • Lumen range from 400 to over 5000 lumens • Freedom From Binning in flux, V_f and color 	Array	+++	+++	3-Step
	LUXEON High-Power 	LUXEON T	Best efficiency	Emitter	+++	+++
	LUXEON A	Best Quality of Light	Emitter	++	++	3-Step
	LUXEON Rebel PLUS	Best performance in a 1 Watt LUXEON Rebel package	Emitter	++	+++	3-Step/5-Step
LUXEON Mid-Power 	LUXEON Mid-Power 3535/5630	<ul style="list-style-type: none"> • Excellent reliability • ANSI binning 	Emitter	++	+++	ANSI

Spotlights



Application requirements

- Narrow crisp and uniform beams
- High punch for best merchandise presentation
- High color rendering
- Color consistency between LEDs and fixtures (less than 3-step MacAdam Ellipse)

Philips Lumileds enables the highest center beam candle power with the best quality of light



Philips Lumileds LEDs outperform conventional lighting

	System Efficacy	Reliability
Halogen/CDM	60-80 lm/W	1,000-12,000 hrs
Philips Lumileds LEDs	80 lm/W	50,000 hrs



Spotlights



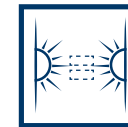
Product	Performance	Key Benefits	Light Emitting Surface	CCT Accuracy
LUXEON S1000 	<ul style="list-style-type: none"> • 20 W CDM/50W Halogen replacement • 1500 lm @ 700 mA 85°C @ 3000K 80 CRI 	<ul style="list-style-type: none"> • 80 and 90 CRI versions available • High red rendering R9>50 • Max drive current increase to 900mA • Available in wide range of CCTs, from 2700 to 4000K 	<ul style="list-style-type: none"> • ~7.2mm diameter 	3-Step
LUXEON M 	<ul style="list-style-type: none"> • 35 W Halogen replacement • 750 lm @ 700 mA 85°C @ 3000K 80 CRI 	<ul style="list-style-type: none"> • 80 and 90 CRI versions available • High red rendering R9>70 	<ul style="list-style-type: none"> • ~6mm diameter 	3-Step

LUXEON Quality of Light



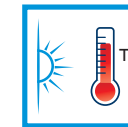
Color Spectrum and Rendering

CRI>80



Color Consistency between Sources

<3 SDCM



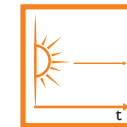
Color in Application

Tested at 85°C T_j



Color Consistency over Beam

<10 points on U'V' scale



Color Consistency over Lifetime

<5 SDCM

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

	
Thermal Management	Clamps
	
Drivers	Optics

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

www.LUXEONecosystem.com

PHILIPS
LUMILEDS

www.philipslumileds.com