

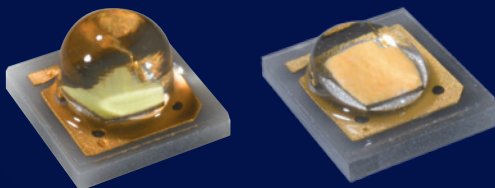


LED

OSRON® SSL 80 and 150

The first power LED duo with optimized beam angles

The OSRON® SSL 80 and 150 offer a new and innovative way of maximizing the efficiency of your lighting products. As the first on the market of their kind, these remarkably compact LEDs offer beam angles optimized for use with lenses and reflectors. This revolutionary feature, combined with a broad range of color temperatures and color rendering indexes, opens up new possibilities for cost-effective, sustainable lighting solutions – whatever the application.



OSRAM
Opto Semiconductors

OSLON® SSL 80 and 150 – Putting light where it's needed most



Indoor lighting

Architectural lighting

Advantages

Compact

With a footprint of only 3 x 3 mm OSLON® SSL is the smallest high-power lensed LED on the market today, thus enabling the most compact LED arrays and maximizing flux over area.

Powerful

OSLON® SSL can be driven up to 1000 mA while OSRAM's latest power chip technology remains efficient even at the highest drive currents. A low thermal resistance of 7K/W ensures cool running and a highly efficient product.

Long lasting

With reasonable thermal management, lifetimes of more than 50,000 hours are easily obtainable, even at high drive currents.

Features

- The first power LED with sophisticated beam angles (80°/150°)
- Ultra-compact footprint for high-density arrays saving space and simplifying color mixing (only 3 x 3 mm)
- Neutral to warm white, capable of high power up to 0.8 A, cool white and all colors up to 1 A

- Compact and symmetrical, allowing dense clustering for high-flux packages
- Thermal resistance of $R_{th,j-s}$ (typ.) 7 K/W
- Lifetime of more than 50,000 hours, depending on application conditions
- Different versions (LCW.CC, LCW.EC, LCW.PC, LUW) for various application requirements
- Broad color portfolio: red, green, blue, and other colors

OSLON® SSL 80 at a glance

- The OSLON® SSL 80 offers a prefocused radiation pattern (80°) to efficiently couple in secondary optics, or for direct lighting without secondary optics.
- The package is perfect for spot lights.

OSLON® SSL 150 at a glance

- The OSLON® SSL 150 provides a wide radiation pattern (150°). It allows perfect interaction with reflectors of various designs. This makes solutions possible that are more efficient than competing products.
- Its optical distribution makes it easier to mix the color of LED clusters. The flat form of the lens avoids internal shading effects in tight clusters.

Applications

Interior lighting

(Home, office, shop & hospitality)

- Retrofits & fixtures (e.g., fluorescent replacement)
- Spotlights
- Task lights
- Shelf lighting
- Downlights
- ...

Outdoor lighting

- Street
- Tunnels
- Parking lots
- Pedestrian areas
- ...

Architecture and entertainment

- Color changing fixtures (colored, white, decorative, etc.)
- Entertainment
- Stage and studio lighting
- ...

OSLON® SSL White Versions

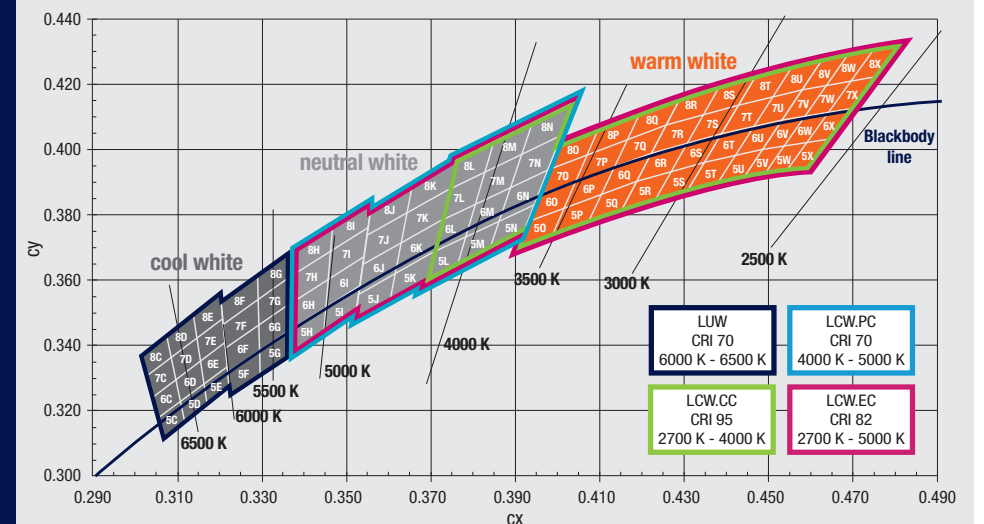
	LCW.CC Color Champ	LCW.EC Eco Champ	LCW.PC Power Champ	LUW
Product Benefit	Maximized light quality	Ideal balance of CRI and luminous flux	Maximized luminous flux	Maximized luminous flux
CCT range	2700 K - 4000 K warm/neutral white	2700 K - 5000 K warm/neutral white	4000 K - 5000 K neutral white	6000 K - 6500 K cool white
Typ. CRI	95	82	70	70
Applications	 Premium interior lighting, e.g., shop	 Various indoor lighting, e.g., office	 Outdoor lighting, industrial lighting	 Outdoor lighting, architectural lighting

Color rendering can be traded in favor of luminous flux and vice versa. OSRAM Opto Semiconductors have employed this technique to bring you a choice of CRI and flux combinations for OSLON® SSL, giving you the option to choose the LED best suited to your application.

OSLON® SSL Type	Type 80	Type 150	Color	Typ. CRI	CCT/Wavelength	Typ. Brightness
LCW CQ7P.CC	LCW CQDP.CC		warm/neutral white	95	2700 K - 4000 K	76 lm @ 3000 K (350 mA) 81 lm @ 4000 K (350 mA)
LCW CQ7P.EC	LCW CQDP.EC		warm/neutral white	82	2700 K - 5000 K	91 lm @ 3000 K (350 mA) 96 lm @ 4000 K (350 mA)
LCW CQ7P.PC	LCW CQDP.PC		neutral white	70	4000 K - 5000 K	110 lm @ 4000 K (350 mA) 117 lm @ 5000 K (350 mA)
LUW CQ7P	LUW CQDP		cool white	70	6000 K - 6500 K	119 lm @ 6000 K (350 mA)
LD CQ7P	LD CQDP		deep blue		449 nm - 461 nm	515 mW (350 mA)
LB CP7P	LB CPDP		blue		446 nm - 476 nm	28 lm (350 mA)
LT CP7P	LT CPDP		true green		513 nm - 537 nm	92 lm (350 mA)
LY CP7P	LY CPDP		yellow		583 nm - 595 nm	55 lm (400 mA)
LA CP7P	LA CPDP		amber		612 nm - 624 nm	74 lm (400 mA)
LR CP7P	LR CPDP		red		620 nm - 632 nm	60 lm (400 mA)
LH CP7P	LH CPDP		hyper red		644 nm - 666 nm	332 mW (400 mA)

OSLON® SSL white binning

OSLON® SSL LED are available in different color temperatures from warm white 2700 K up to cool white 6500 K. OSRAM Opto Semiconductors' fine bin system is based on a three-step MacAdams ellipse to ensure color consistency in any lighting application.



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www.osram-os.com/oslon-ssl

For further information on the available products please visit our product catalog at <http://catalog.osram-os.com>

More information about LED in General Lighting:

LED Light Site

ledlight.osram-os.com

LED Light for you Network

www.ledlightforyou.com



www.osram.com/led