

# OSRAM OSLON® Square GW CSSRM4.HW - Product overview

The new generation of OSLON® Square Horti White, now comes with Photon Flux hot binning

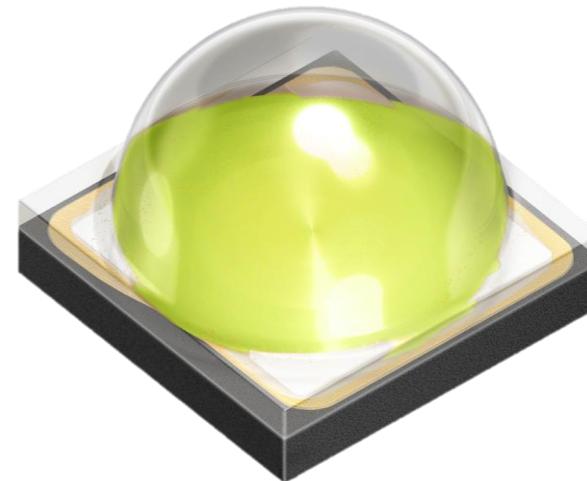
03/2024

# OSLON® Square GW CSSRM4.HW – One Pager

The new generation of OSLON® Square Horti White

## Applications

- Agriculture & Horticulture
- Entertainment
- Outdoor & Industrial Lighting



## General description

- Second generation of OSLON® Square Horti White with upgraded performance
- Most compact high-power LED with proven robustness, excellent reliability, long lifetime and low thermal resistance

## Key Features

- Package: SMD ceramic package with silicone lens
- Typ. Radiation: 120° (Lambertian emitter)
- ESD: 8 kV acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 3B)
- Binned in Photon Flux at 85°C
- Higher brightness
- Available in four different color bins and 2 different selections

## Associated Benefits

- Closer match to horticulture's typical operating temperatures
- 2% brighter than GW CSSRM3.HW
- Ideal for highly efficient greenhouses and vertical farms to reach superior fixture level efficacy

# OSLON® Square GW CSSRM4.HW

**The new generation of OSLON® Square Horti White, now comes with Photon Flux hot binning**

## Key Sales Message

The GW CSSRM4.HW is an upgrade from GW CSSRM3.HW.

It is now binned in Photon Flux at 85°C to have closer match to typical operating temperatures, making it easier for system designer to perform complex calculation.

## Unique Selling Proposition

The new OSLON® Square Horti White sets the standard in the market with industry leading performance of 2% higher brightness compared to first generation GW CSSRM3.HW.

It is the first device from ams OSRAM to feature Photon Flux binning at 85°C.

# OSLON® Square GW CSSRM4.HW

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## Discovery Questions

**Q1: What are the key features of the new OSLON® Square GW CSSRM4.HW?**

**A1:** This second generation is the first aO package binned in Photon Flux at 85°C.

With Photon Flux binning at 85°C, it is easier to calculate the system level performance.

**Q2: What is the performance improvement between the GW CSSRM3.HW and the GW CSSRM4.HW?**

**A2:** Using the new phosphor, the GW CSSRM4.HW is brighter than GW CSSRM3.HW and we are looking at a performance improvement of about 2%

**Q3: Will there be any major optical differences between GW CSSRM3.HW and GW CSSRM4.HW?**

**A3:** There is a small change to the CxCy binning to accommodate the new phosphor conversion at 85°C.  
No detrimental effect is expected, and the viewing angle remains at 120°.

**Q4: Which benefits can the end user/grower/customer expect?**

**A4:** With GW CSSRM4.HW the user can expect a higher brightness and an easier system calculation with Photon Flux binning at 85°C.

# OSLON® Square GW CSSRM4.HW

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## Web resources & Availability

Product Info Page		<a href="https://ams-osram.com/products/leds/white-leds/osram-oslon-square-gw-cssrm4-hw">https://ams-osram.com/products/leds/white-leds/osram-oslon-square-gw-cssrm4-hw</a>
Availability	Product Release	Disti NPI notification date: 19.03.2024 Planned official release date: 02.04.2024

# OSLON® Square GW CSSRM4.HW

## Who to sell to...

	Agriculture & Horticulture	Entertainment	Outdoor & Industrial Lighting
Example End Equipment	<ul style="list-style-type: none"><li>• Greenhouse's top lighting</li><li>• Indoor farm lighting</li></ul>	<ul style="list-style-type: none"><li>• Special effect lighting</li></ul>	<ul style="list-style-type: none"><li>• Area lighting</li></ul>
Key Market Differentiators	<ul style="list-style-type: none"><li>• High brightness</li><li>• Photon flux binning at 85°C</li></ul>	<ul style="list-style-type: none"><li>• High brightness</li><li>• Customized spectrum with low red ratio</li></ul>	<ul style="list-style-type: none"><li>• High brightness</li><li>• Customized spectrum with low red ratio</li></ul>

# Customer Invitation

## Promotional Invite for official release

Dear \_\_\_\_\_

OSLON® Square GW CSSRM4.HW was recently introduced by ams OSRAM. GW CSSRM.HW is the newest Horti White device and part of the broader ams OSRAM's horticultural LED portfolio.

**This innovative device is designed for the following applications (among others):**

- Agriculture & Horticulture
- Entertainment

**Key features and benefits include the following:**

- Photon Flux binning at 85°C which facilitates easier calculation on system level performance.
- Higher brightness to enable superior fixture level efficacy

You can learn more at the website here: <https://ams-osram.com/products/leds/white-leds/osram-oslon-square-gw-cssrm4-hw>

Thank you for your interest. Let me know if you would like to learn more about GW CSSRM4.HW.

Sincerely,

<Your name here>