

Sensing is life

ami OSRAM

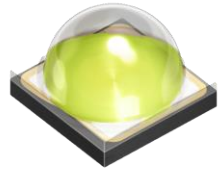
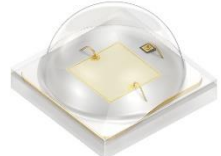
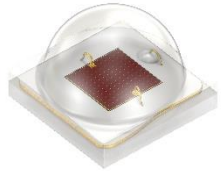
# OSLON<sup>®</sup> Square GH CSSRM5.24

Product Presentation

Product Lifecycle Management  
October 2021

# OSLON<sup>®</sup> Square

Product Offering






## 1 – 5W High-Power LEDs

Available in Hyper Red, Deep Blue and Horti White

- Ceramic package for superior robustness
- Industry leading performance
- Compact 3.0 x 3.0 mm<sup>2</sup> ceramic package
- 120° beam angle
- Excellent lumen maintenance and lifetime (Q90 >60k hrs)
- Best in class Hot/Cold factor
- ESD: 8 kV acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 3B)

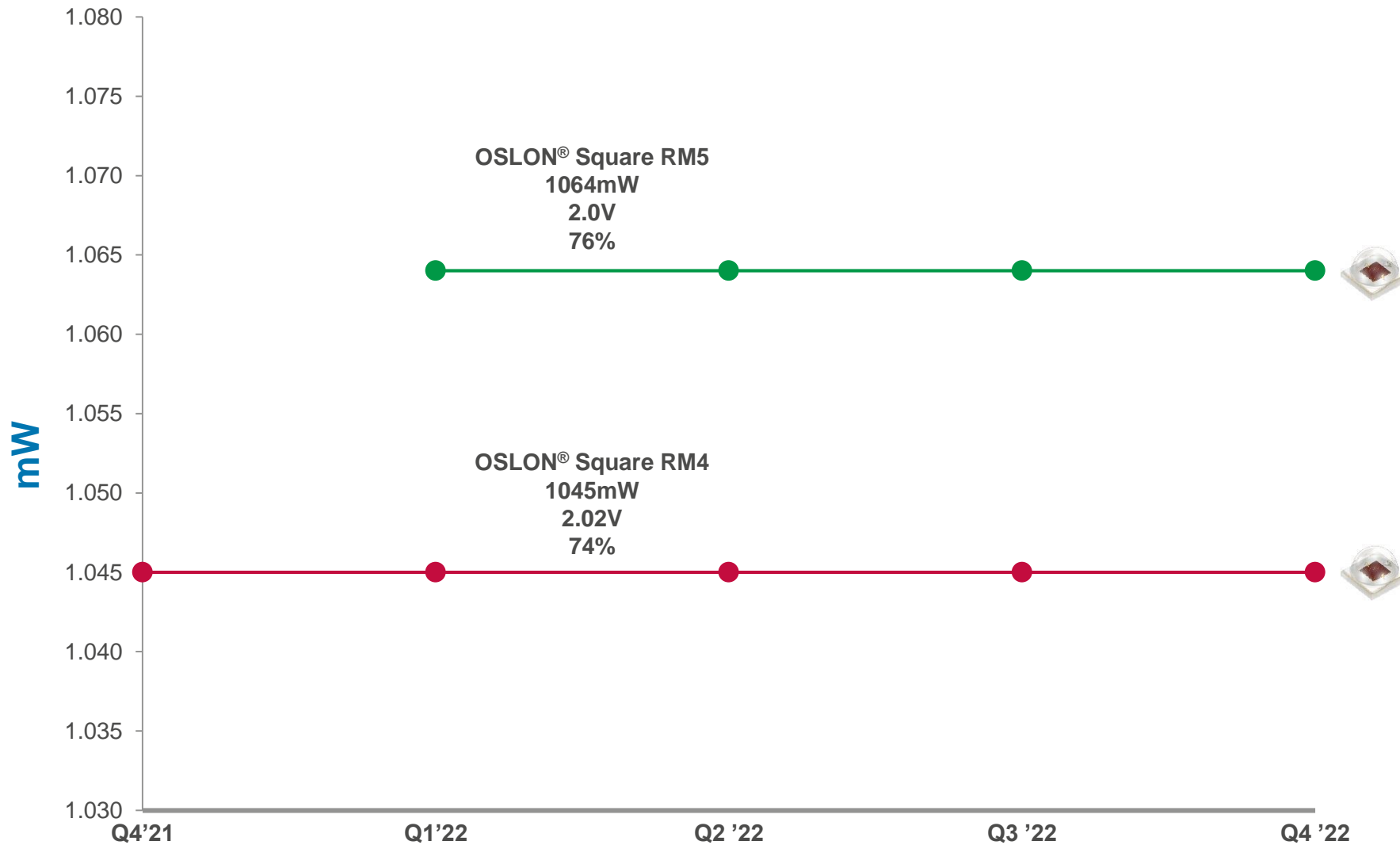
## Applications: Greenhouses



Type	L dom		Color	Binning (mA)	Typ. Vf (V)	Typ. Power (W)	Typ. Output	Typ. Eff
GD CSSRM2.14	450nm		Deep Blue	700	2.90	2.0	1511mW	74%
GH CSSRM4.24	660nm		Hyper Red	700	2.02	1.5	1045mW	74%
<b>GH CSSRM5.24</b>	<b>660nm</b>		<b>Hyper Red</b>	<b>700</b>	<b>2.00</b>	<b>1.5</b>	<b>1064mW</b>	<b>76%</b>
GW CSSRM3.HW	-		Horti White	700	2.90	2.0	1140mW	56%

# OSLON<sup>®</sup> Square

Performance roadmap: Red reigns supreme



Continuous  
**V<sub>f</sub> improvements**  
to deliver premium  
wall plug efficacy

Footprint	Binning condition	Max. current	Viewing angle
3.0x3.0 mm <sup>2</sup>	700 mA @ 25 °C Peak Wavelength		
GH CSSRM5.24	660nm	1500mA	120°
GH CSSRM4.24			

\*Future projection (subject to change)

# OSLON<sup>®</sup> Square

Lifetime Q90>60k hrs

Devices	Current	Temp (Ts)	Q90 lifetime
<ul style="list-style-type: none"><li>• OSLON<sup>®</sup> Square GH CSSRM5.24 with <math>\lambda_{\text{Peak}} = 660 \text{ nm}</math></li><li>• OSLON<sup>®</sup> Square GH CSSRM4.24 with <math>\lambda_{\text{Peak}} = 660 \text{ nm}</math></li></ul>	1000mA	55°C	Q90(10k) > 60kh
		85°C	Q90(10k) > 60kh
		105°C	Q90(10k) > 60kh
	1400mA	55°C	Q90(17k) > 102kh
		85°C	Q90(17k) > 102kh
		105°C	Q90(17k) > 102kh

Sensing is life

ami OSRAM

Sensing is life

ami OSRAM