



# High Luminance Selection Guide

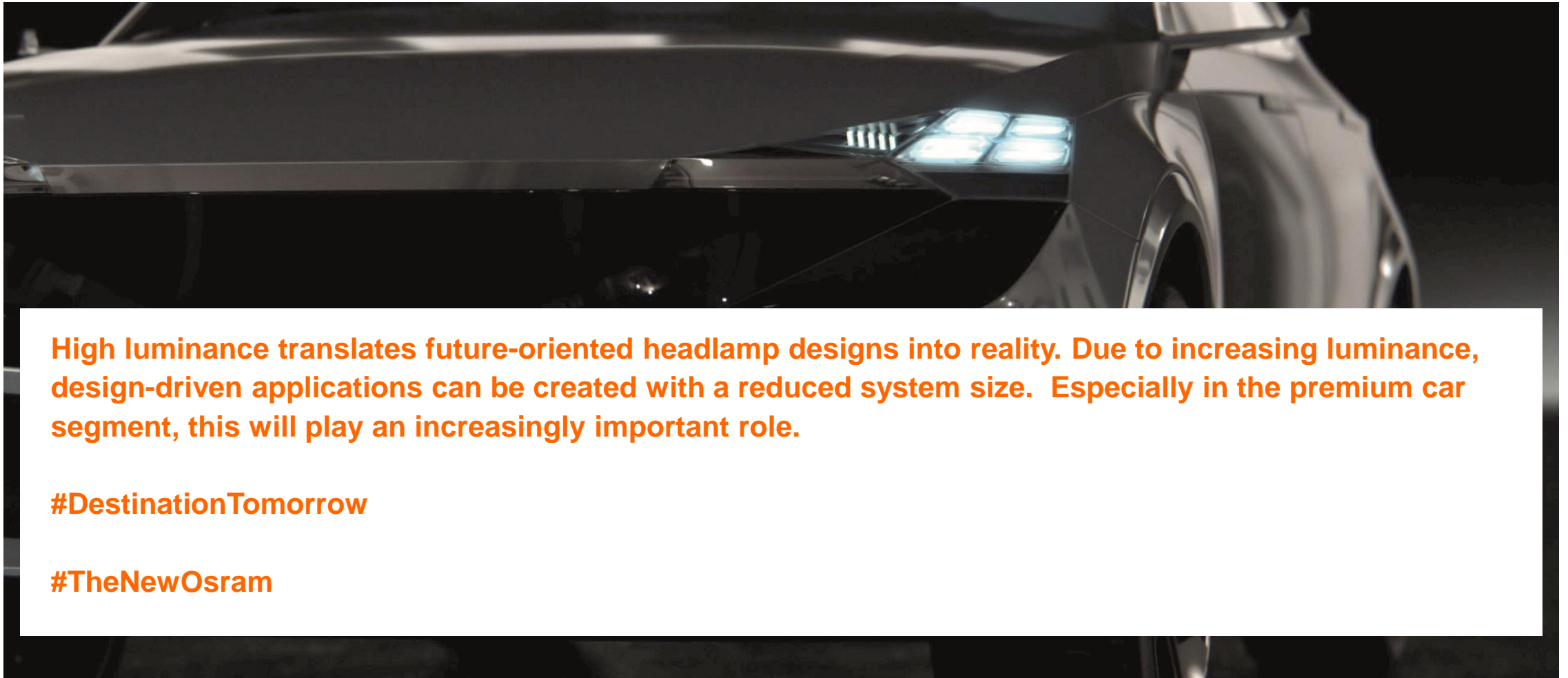
OS AM MK  
Light is OSRAM

Version: 30.09.2019

**OSRAM**  
Opto Semiconductors

# High Luminance

---



High luminance translates future-oriented headlamp designs into reality. Due to increasing luminance, design-driven applications can be created with a reduced system size. Especially in the premium car segment, this will play an increasingly important role.

**#DestinationTomorrow**

**#TheNewOsram**

# High Luminance Products and Overview

---

## OSLON® Boost HM



KW CELMM1.TG

- SMT ceramic based package (same as Compact PL)
- 1/2mm<sup>2</sup> high current chip
- Latest notchless chip technology for easier optical design
- 3 pad design with electrically isolated thermal pad
- High-luminance capability -> typ 240 cd/mm<sup>2</sup>

# Recommended Products

## Benefits

### Customer Benefit USPs

#### OSLON® Boost HM



- Best in class luminance performance through small emission area + high current capability
- Thermal isolated pad for better thermal performance
- Improved mechanical stability for good handling

### Decision criteria

- High luminance performance enables slim headlamp design

# High Luminance Products at a Glance

	
Product name	KW CELMM1.TG
Product Brand	OSLON Boost HM
Luminous flux	355 - 485lm @ 1500 mA
I <sub>max</sub>	1650 mA
Low thermal resistance R <sub>th</sub> <small>JS real typ</small>	6.7 K/W
Binning	ebvF46 - fcbB46
Small Package	1.9mm x 1.5mm x 0.73mm
Light Emitting area	0.73 mm x 0.73 mm
Number of pads / distance of pads	3 / 0.25 mm