

High Luminance Selection Guide

OS AM MK
Light is OSRAM

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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)
- 1/2mm² 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/mm²

Recommended Products

Benefits

Customer Benefit USPs

OSLON ® Boost HM

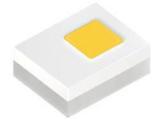


- Best in class luminance performance through small emission area + high current capability
- Thermal isolated pad for better thermal performance
- Improved mechanical stability for good handling

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_{max} | 1650 mA |
| Low thermal resistance $R_{th, JS \ real \ typ}$ | 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 |