

Sensing is life

amul OSRAM

OSRAM LEDriving® working lights PROFESSIONAL SERIES PX

Product Presentation

PK | AM EM MC PSM | OSRAM GmbH
12/2022

Agenda

1. Product Introduction
2. Product Details
3. Application Examples
4. PX Matrix System
5. Supporting Material
6. Product Quality
7. Product Portfolio
8. Follow us on Social Media
9. Thank you

Product Introduction



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX

OSRAM LEDriving® working lights Professional light for professional work



Light is professional

With the OSRAM LEDriving® Professional Series PX working lights portfolio, it is now possible to find exactly the right lighting for a wide range of special professional tasks and applications. The 16 working lights in total score points with maximum optical efficiency, effectiveness and homogeneous light distribution. The modular series focuses on the most important aspects of worklight use: Illumination, performance, quality, shape, durability, functionality, and thus can also result in increased safety at work for you and others. The optimal factors can be selected and prioritized for each corresponding application; thus, with these high-performance lights, a complete vehicle-specific lighting set-up can be put together, that this is perfectly applicable to the respective individual requirements and needs.

Light is individual

The working lights are suitable for 12V and 24V vehicles and a total of four beam patterns - Flood, Spot, Wide and Ultra-Wide - and four power levels - 1500lm, 2500lm, 3500lm and 4500lm - are available for each light. In addition, they can be mounted in three different ways: Direct mounting, flexible standard mounting and heavy-duty mounting. Additionally, OSRAM has developed specially designed mounting kits and a cable with DT-connector. Simply assemble, adapt, combine and, if required, easily interchange. For different requirement profiles and multi-variant use. At work, whether on- or off-road, this completely new concept of the so-called matrix portfolio impresses with its powerful performance and an exceptionally long service life.

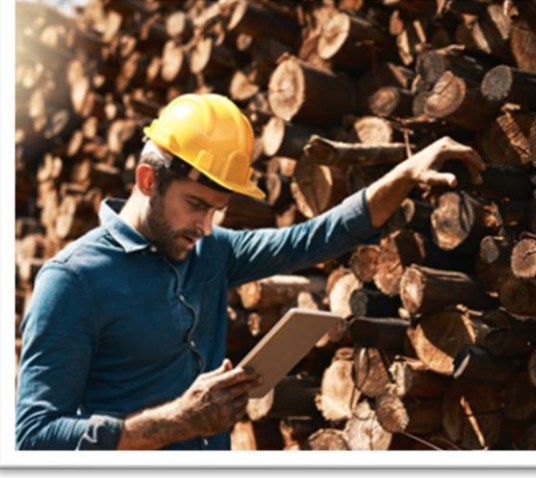
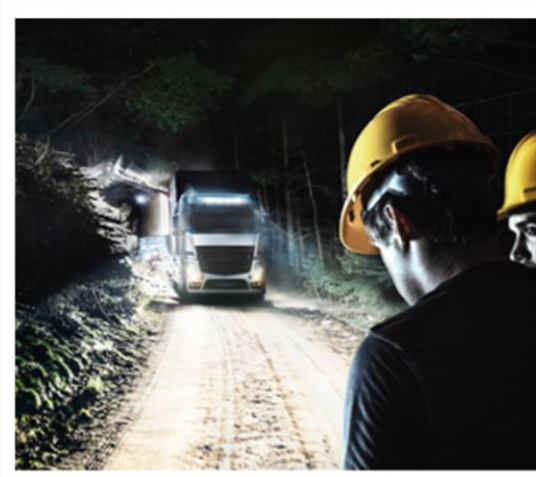
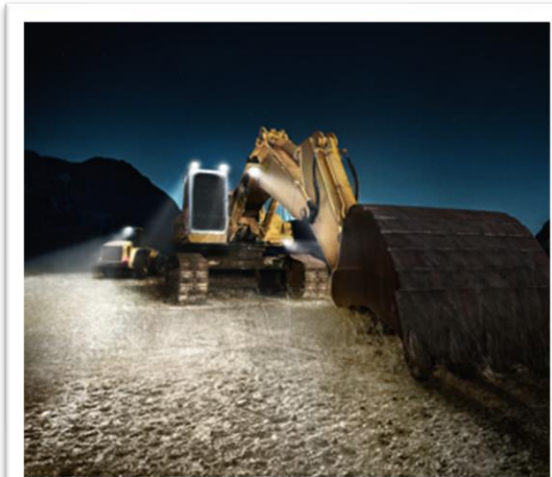
Light is exceptional

Versatile in use, it defies numerous environmental influences, and, thanks to high-quality materials, it is robust and resistant and specially developed for tough everyday working conditions. All PX-Series working lights have been tested in an environmental simulation laboratory certified according to DIN EN ISO/IEC 17025 for extreme external influences such as water, dust, shocks, hot and cold temperatures, permanent vibrations and shocks and validated according to the highest IP & IK protection classes IP6K8 & IP6K9K. The Professional Series is designed to meet the highest OE standards and requirements of the automotive industry. Furthermore, the complete PX-Series is "Made in Europe", and OSRAM provides a 5-year guarantee on these products¹⁾²⁾

- 1) Additional working lights without ECE approval for use as work lights are approved for use on any vehicle according to German Road Traffic Licensing Regulations (StVZO) §52 (7). However, they must not be used switched on while driving. In addition, individual special regulations, and laws of countries outside Germany must be observed.
- 2) For precise conditions refer to: www.osram.com/am-guarantee

Product Introduction

OSRAM LEDriving® working lights PROFESSIONAL SERIES PX | Areas of Application



CONSTRUCTION

AGRICULTURE

FORESTRY

MATERIAL HANDLING

Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX ULTRA WIDE BEAM



Features

- **ULTRA WIDE BEAM** = Beam pattern for particularly large-area and especially wide light distribution
- Four power levels can be selected for each beam pattern: **1500lm, 2500lm, 3500lm & 4500lm**
- In combination coverage of near, medium and far field illumination
- Brilliantly white light with 6000K
- Highest protection classes: IP6K8 & IP6K9K
- Overheat & polarity protection
- CISPR25 Class 3/5, Certification: ECE R10
- Aluminum die-cast housing with special black coating (cataphoretic painting)
- Three mounting possibilities: standard/flexible, heavy duty and direct mounting
- For 12V & 24V vehicles
- Efficient reflector lens design with powerful OSRAM LEDs
- Compact and robust - shatterproof polycarbonate lens
- 5-year OSRAM guarantee¹⁾, Made in Europe

Benefits

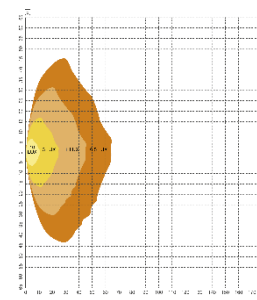
- Low portfolio complexity (one design approach) and high application diversity through matrix approach
- Perfectly tailored to the respective individual requirements and needs for multi-variant use
- Superior illumination, performance, quality, shape, durability, functionality
- Maximum of optical efficiency, effectiveness and homogeneous light distribution
- Class 3/5 is the most stringent requirement of automotive EMI testing
- Robust and resistant and specially developed for tough everyday working conditions
- Powerful performance and exceptionally long service life
- Increased safety through improved illumination at work for you and others
- Designed to meet the highest OE standards and requirements of the automotive industry



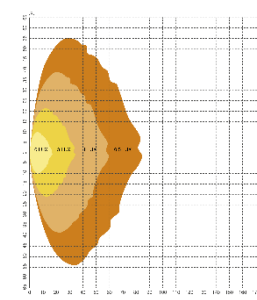
Areas of Application

- Truck
- Transporter
- Agricultural vehicles
- Commercial vehicles
- Construction vehicles
- Off-road vehicles
- Etc.

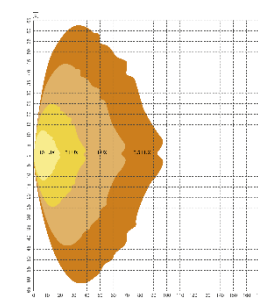
Performance Levels



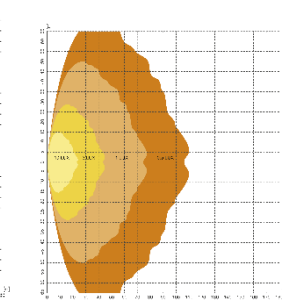
1500 Lumen



2500 Lumen



3500 Lumen



4500 Lumen

1) For precise conditions please refer to: www.osram.com/am-guarantee

Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX WIDE BEAM



Features

- **WIDE BEAM** = Beam pattern for a large-area and wide light distribution
- Four power levels can be selected for each beam pattern: **1500lm, 2500lm, 3500lm & 4500lm**
- In combination coverage of near, medium and far field illumination
- Brilliantly white light with 6000K
- Highest protection classes: IP6K8 & IP6K9K
- Overheat & polarity protection
- CISPR25 Class 3/5, Certification: ECE R10
- Aluminum die-cast housing with special black coating (cataphoretic painting)
- Three mounting possibilities: standard/flexible, heavy duty and direct mounting
- For 12V & 24V vehicles
- Efficient reflector lens design with powerful OSRAM LEDs
- Compact and robust - shatterproof polycarbonate lens
- 5-year OSRAM guarantee¹⁾ Made in Europe

Benefits

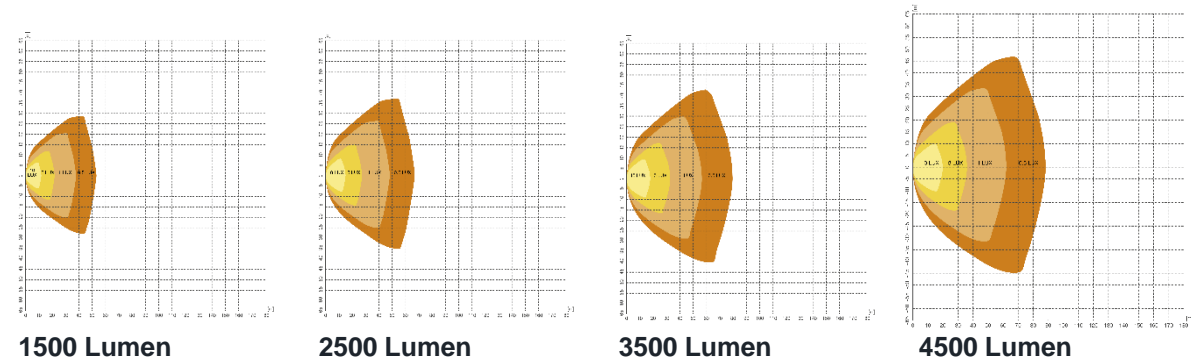
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- Superior illumination, performance, quality, shape, durability, functionality
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- Class 3/5 is the most stringent requirement of automotive EMI testing
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- Powerful performance and exceptionally long service life
- Increased safety through improved illumination at work for you and others
- Designed to meet the highest OE standards and requirements of the automotive industry



Areas of Application

- Truck
- Transporter
- Agricultural vehicles
- Commercial vehicles
- Construction vehicles
- Off-road vehicles
- Etc.

Performance Levels



1) For precise conditions please refer to: www.osram.com/am-guarantee

Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX FLOOD BEAM



Features

- **FLOOD BEAM** = Beam pattern for a wide and broad distribution of high beam light
- Four power levels can be selected for each beam pattern: **1500lm, 2500lm, 3500lm & 4500lm**
- In combination coverage of near, medium and far field illumination
- Brilliantly white light with 6000K
- Highest protection classes: IP6K8 & IP6K9K
- Overheat & polarity protection
- CISPR25 Class 3/5, Certification: ECE R10
- Aluminum die-cast housing with special black coating (cataphoretic painting)
- Three mounting possibilities: standard/flexible, heavy duty and direct mounting
- For 12V & 24V vehicles
- Efficient reflector lens design with powerful OSRAM LEDs
- Compact and robust - shatterproof polycarbonate lens
- 5-year OSRAM guarantee¹⁾ Made in Europe

Benefits

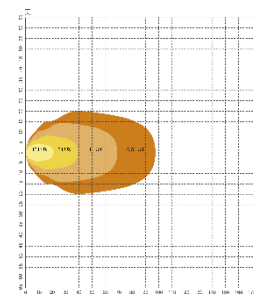
- Low portfolio complexity (one design approach) and high application diversity through matrix approach
- Perfectly tailored to the respective individual requirements and needs for multi-variant use
- Superior illumination, performance, quality, shape, durability, functionality
- Maximum of optical efficiency, effectiveness and homogeneous light distribution
- Class 3/5 is the most stringent requirement of automotive EMI testing
- Robust and resistant and specially developed for tough everyday working conditions
- Powerful performance and exceptionally long service life
- Increased safety through improved illumination at work for you and others
- Designed to meet the highest OE standards and requirements of the automotive industry



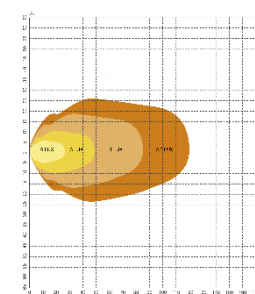
Areas of Application

- Truck
- Transporter
- Agricultural vehicles
- Commercial vehicles
- Construction vehicles
- Off-road vehicles
- Etc.

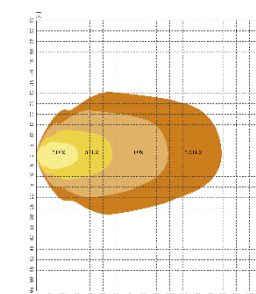
Performance Levels



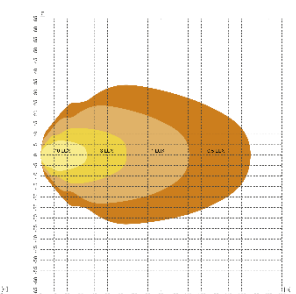
1500 Lumen



2500 Lumen



3500 Lumen



4500 Lumen

1) For precise conditions please refer to: www.osram.com/am-guarantee

Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX SPOT BEAM



Features

- **SPOT BEAM** = Beam pattern for particularly focused high beam distribution
- Four power levels can be selected for each beam pattern: **1500lm, 2500lm, 3500lm & 4500lm**
- In combination coverage of near, medium and far field illumination
- Brilliantly white light with 6000K
- Highest protection classes: IP6K8 & IP6K9K
- Overheat & polarity protection
- CISPR25 Class 3/5, Certification: ECE R10
- Aluminum die-cast housing with special black coating (cataphoretic painting)
- Three mounting possibilities: standard/flexible, heavy duty and direct mounting
- For 12V & 24V vehicles
- Efficient reflector lens design with powerful OSRAM LEDs
- Compact and robust - shatterproof polycarbonate lens
- 5-year OSRAM guarantee¹⁾ Made in Europe

Benefits

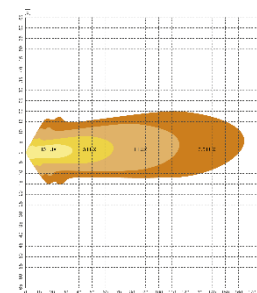
- Low portfolio complexity (one design approach) and high application diversity through matrix approach
- Perfectly tailored to the respective individual requirements and needs for multi-variant use
- Superior illumination, performance, quality, shape, durability, functionality
- Maximum of optical efficiency, effectiveness and homogeneous light distribution
- Class 3/5 is the most stringent requirement of automotive EMI testing
- Robust and resistant and specially developed for tough everyday working conditions
- Powerful performance and exceptionally long service life
- Increased safety through improved illumination at work for you and others
- Designed to meet the highest OE standards and requirements of the automotive industry



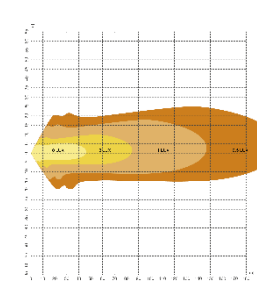
Areas of Application

- Truck
- Transporter
- Agricultural vehicles
- Commercial vehicles
- Construction vehicles
- Off-road vehicles
- Etc.

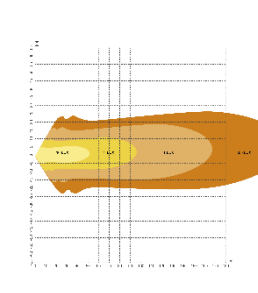
Performance Levels



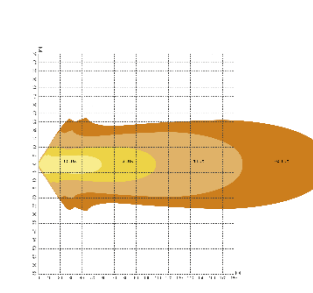
1500 Lumen



2500 Lumen



3500 Lumen



4500 Lumen

1) For precise conditions please refer to: www.osram.com/am-guarantee

Produkt Overview

OSRAM LEDriving® working lights PROFESSIONAL SERIES PX

- Cube PX1500 Ultra Wide
- Cube PX2500 Ultra Wide
- Cube PX3500 Ultra Wide
- Cube PX4500 Ultra Wide



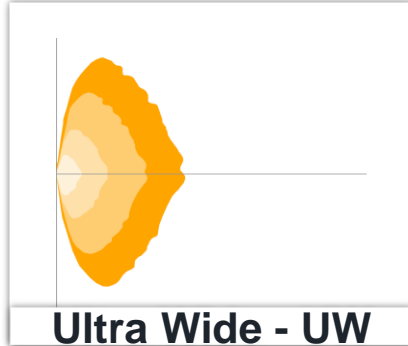
- Cube PX1500 Wide
- Cube PX2500 Wide
- Cube PX3500 Wide
- Cube PX4500 Wide



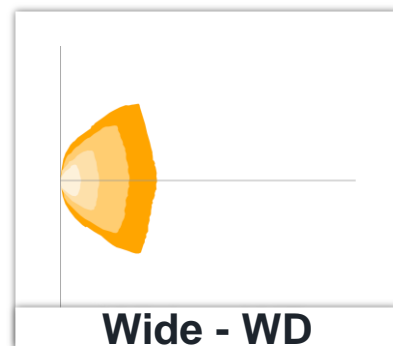
- Cube PX1500 Flood
- Cube PX2500 Flood
- Cube PX3500 Flood
- Cube PX4500 Flood



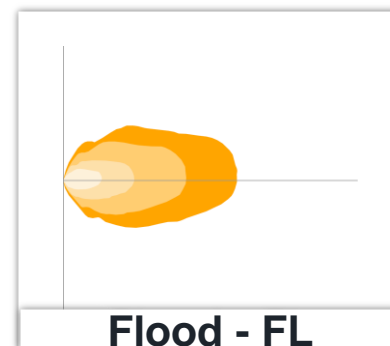
- Cube PX1500 Spot
- Cube PX2500 Spot
- Cube PX3500 Spot
- Cube PX4500 Spot



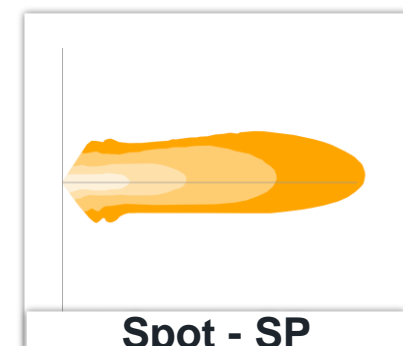
Ultra Wide - UW



Wide - WD



Flood - FL

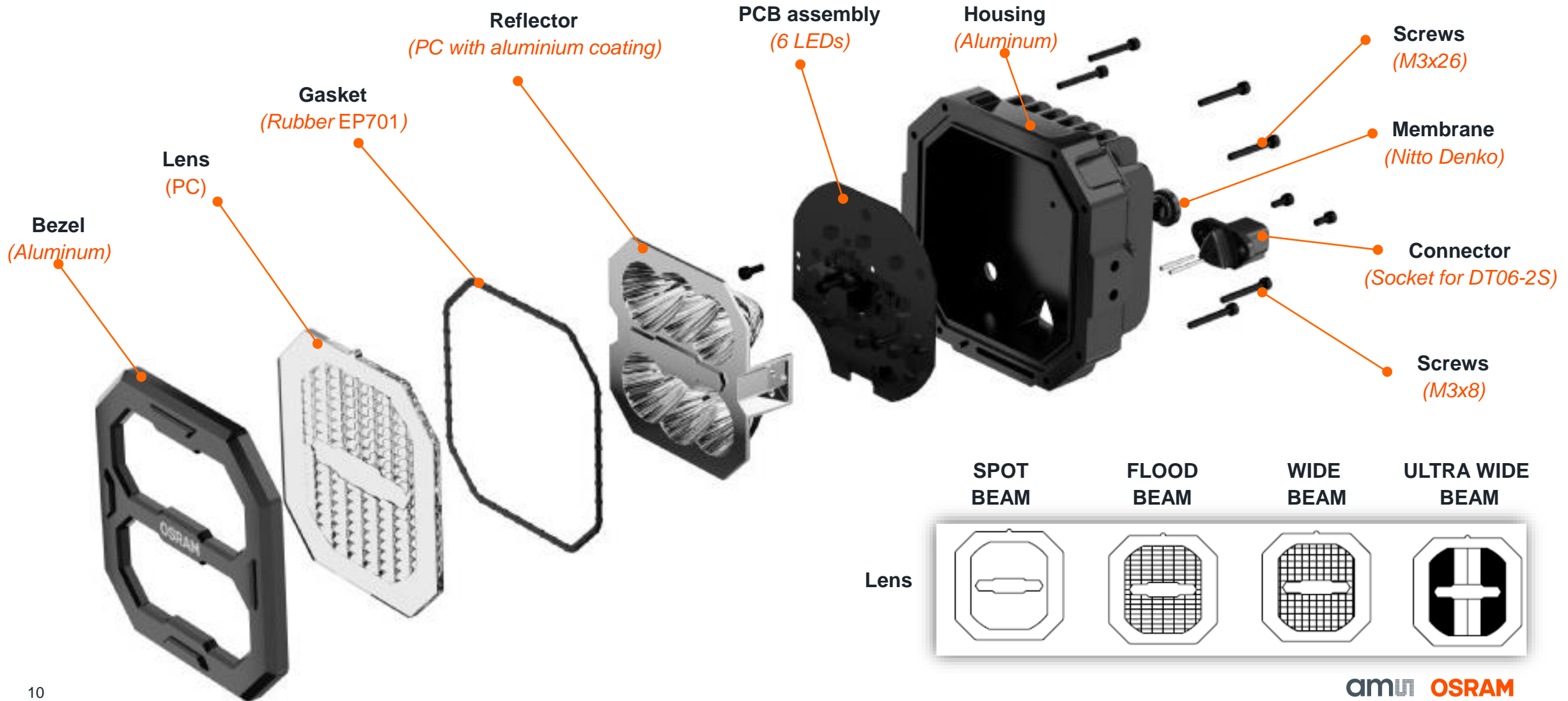


Spot - SP

Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX | Technical specifications



Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX | Technical Specifications



DT-Connector
Easy to connect

Robust, compact and durable housing
Polycarbonate lens & aluminum housing

Water, dust, shock, temperature, vibration resistant
IP6K9K & IP6K8

Long lifetime
Min. 5000h

Flexible mounting system
Heavy duty, standard & direct mounting

Low power consumption
High energy efficiency

High Light output
1500lm – 4500lm

Low maintenance
Integrated driver and thermal management

Homogenous light distribution
High optic efficiency & state-of-the art lens design

Super seal integrated connector
DT04-2P (Deutsch Stecker DT)

High vibration resistance
Up to 12g rms

Multi-volt 12 & 24V
Wide range of vehicles



Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX



Dimensions		Performance Levels
		1500 Lumen
		2500 Lumen
		3500 Lumen & 4500 Lumen

- 1500
2500
3500
4500
LUMEN
- FLOOD
BEAM
- SPOT
BEAM
- ULTRA
WIDE BEAM
- WIDE
BEAM
- 6000
KELVIN
- MATRIX
PORTFOLIO
- IP6K8 &
IP6K9K
- E
ECE R10
CISPR25
CLASS 5

Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX/AX Accessories

Mounting Kit PX



- Compatible with all OSRAM LEDriving® working lights Professional Series
- Specially designed for easy, uncomplicated, and flexible assembly
- Mounting on the vehicle with only one central screw possible
- Vibration resistance: Min. 8g rms, robust and resistant
- Adjustable to the desired tilt angle by up to +/- 15 degrees
- 360° Flexible Mounting
- All components are made of stainless steel
- 5-year OSRAM guarantee¹⁾



Heavy Duty Mounting Kit PX



- Compatible with all OSRAM LEDriving® working lights Professional Series
- Especially developed for heavy duty vehicles
- Mounting on the vehicle with two screws possible
- Vibration resistance: Min. 15g rms,
- Particularly robust and resistant
- Adjustable to the desired tilt angle by up to +/- 30 degrees
- All components are made of stainless steel
- 5-year OSRAM guarantee¹⁾



Connection Cable 300 DT AX









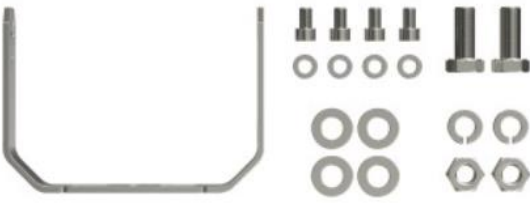

- Compatible with all OSRAM LEDriving® working lights Professional Series and W&D Lights FX-and SX
- For 12V and 24V Vehicles
- DT Connector: DT06-2S
- Conductor material pure copper
- Length: 3m
- Easy installation
- To install appropriate lighting even on large vehicles
- 5-year OSRAM guarantee¹⁾



Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX/AX Accessories

Direct Mounting	Mounting Kit PX Standard/Flexible Mounting	Heavy Duty Mounting Kit PX Heavy Duty Mounting	Connection Cable 300 DT AX
<ul style="list-style-type: none"> - Direct mounting - Usage of existing screw hole's on side and bottom 	<ul style="list-style-type: none"> - Separately available - Mounting with one central screw 	<ul style="list-style-type: none"> - Separately available - Mounting with two screws 	<ul style="list-style-type: none"> - Separately available - DT-Connector
			
			

Product Details



OSRAM LEDriving® working lights PROFESSIONAL SERIES PX/AX Accessories

Mounting Kit PX



Heavy Duty Mounting Kit PX



Connection Cable 300 DT AX

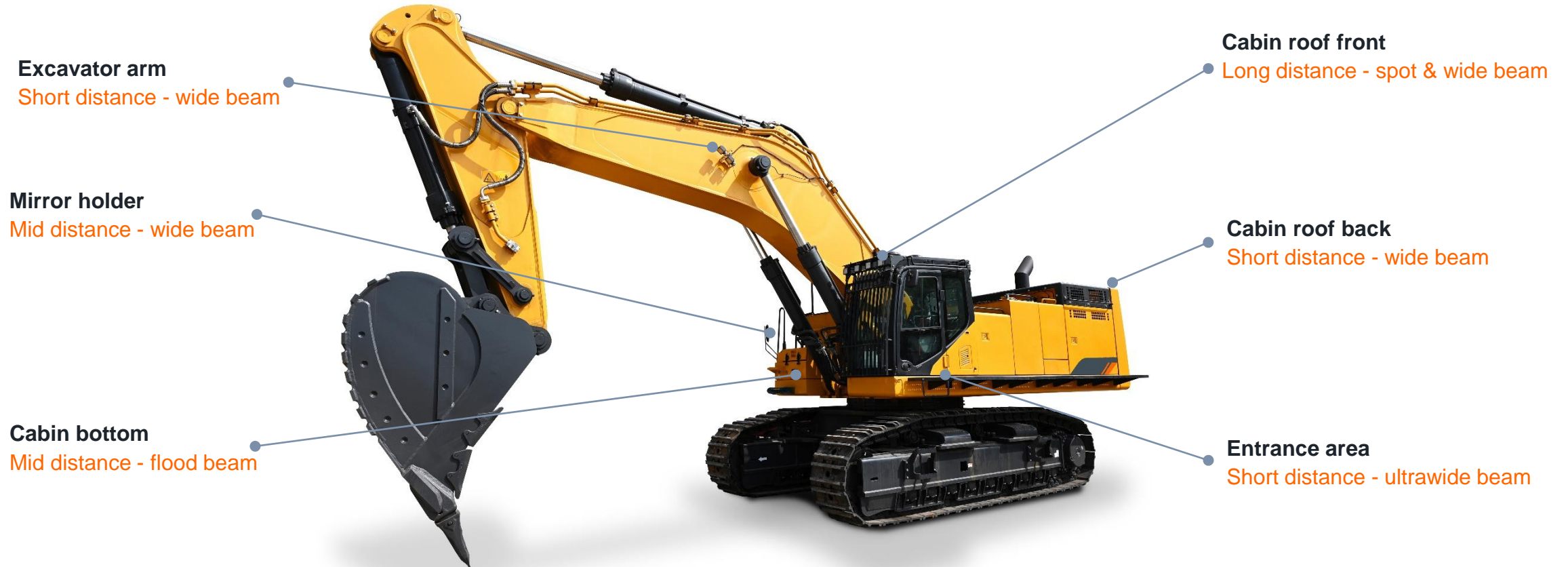


Dimensions	Accessories
	Mounting Kit PX
	Heavy Duty Mounting Kit PX
	Connection Cable 300 DT AX

Application Examples



Excavator – Positions for Working Lights and required light distribution



Mix and match
Vary and combine



Ø up to 14 positions for working lights on an excavator

Light with multiple beam patterns and different performance levels needed!

Application Examples



Tractor – Positions for Working Lights and required light distribution

Cabin roof back

Mid distance - flood beam

Cabin roof front

Long distance - spot & wide beam

Fender back

Short distance - wide beam

Mirror holder

Mid distance - wide beam

Entrance area

Short distance - ultra wide beam

Headlights

Low- / High-Beam



Mix and match
Vary and combine



∅ up to 10 positions for working lights on a tractor



Light with multiple beam patterns and different performance levels needed!

Application Examples



Combine Harvester – Positions for Working Lights and required light distribution



Mix and match
Vary and combine



∅ up to 16 positions for working lights on a combine harvester

Light with multiple beam patterns and different performance levels needed!

Areas of Application

OSRAM LEDriving® working lights PROFESSIONAL SERIES PX

APPLICATION

Cars | SUV | 4x4



ATV | Quad



Truck



Commercial vehicles



Military



Forestry & Agriculture



Construction vehicles



Emergency vehicles



AREAS

Rain & Fog



Snow & Sun



Mountain & Desert



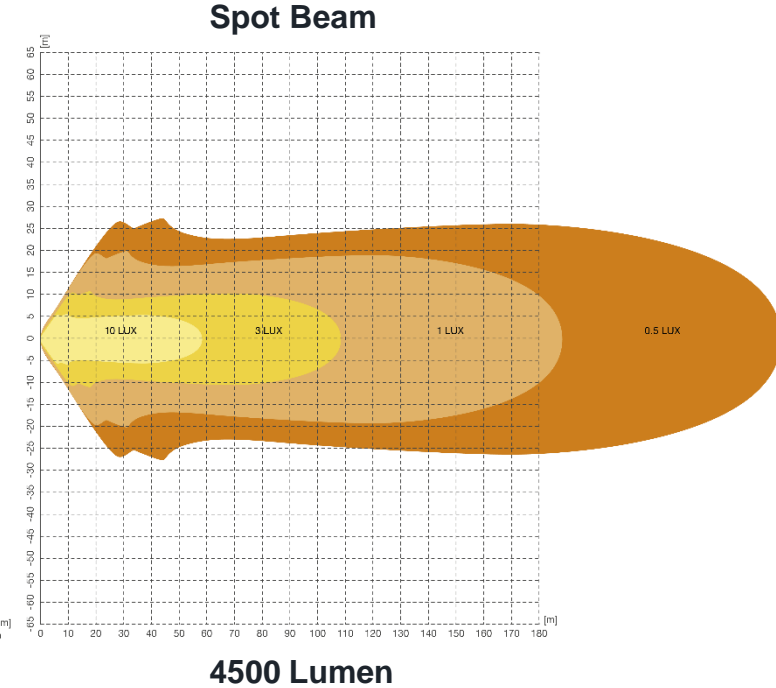
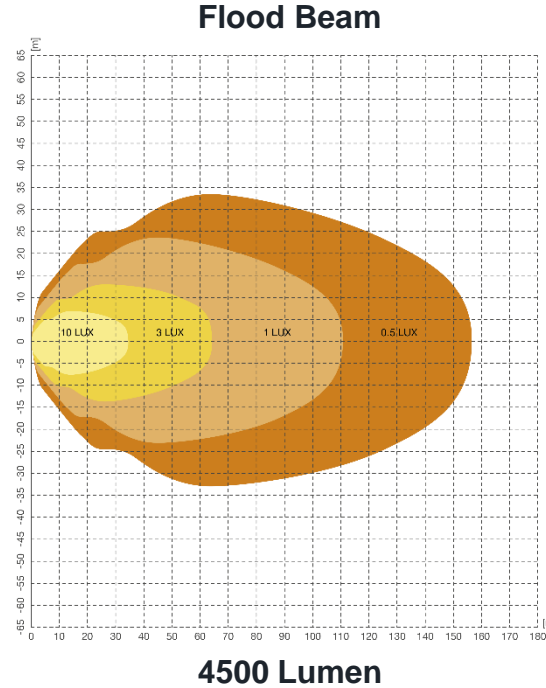
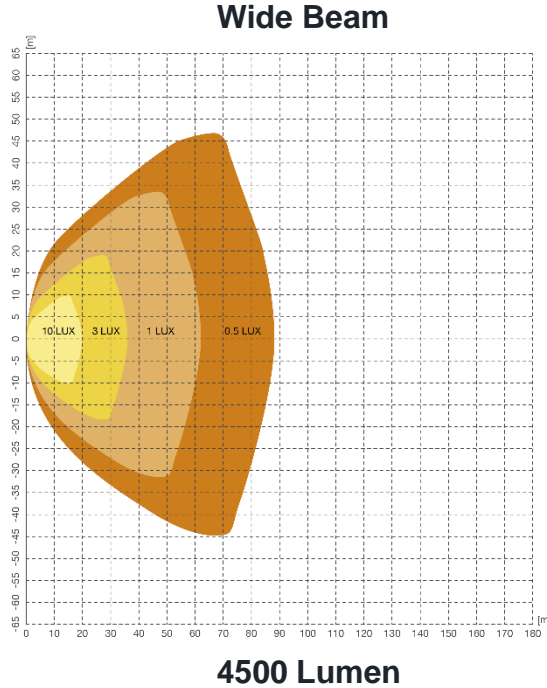
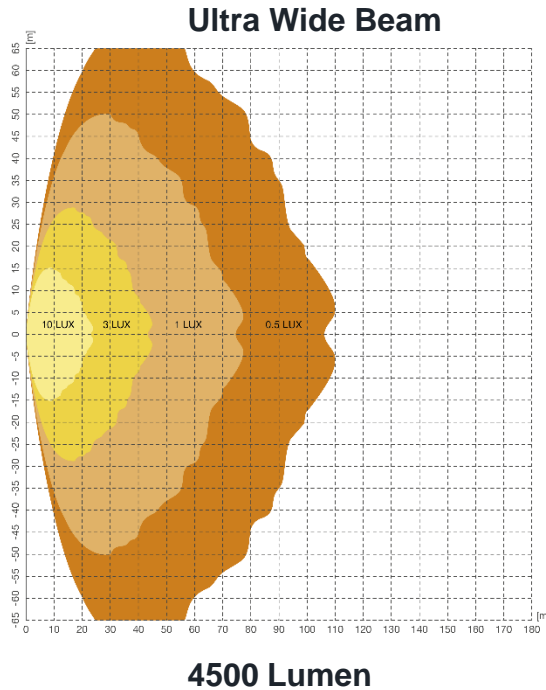
Off-road & On-road



PX Matrix-Approach



4 Beam Pattern & 4 Performance Levels for illumination of the desired and optimal area

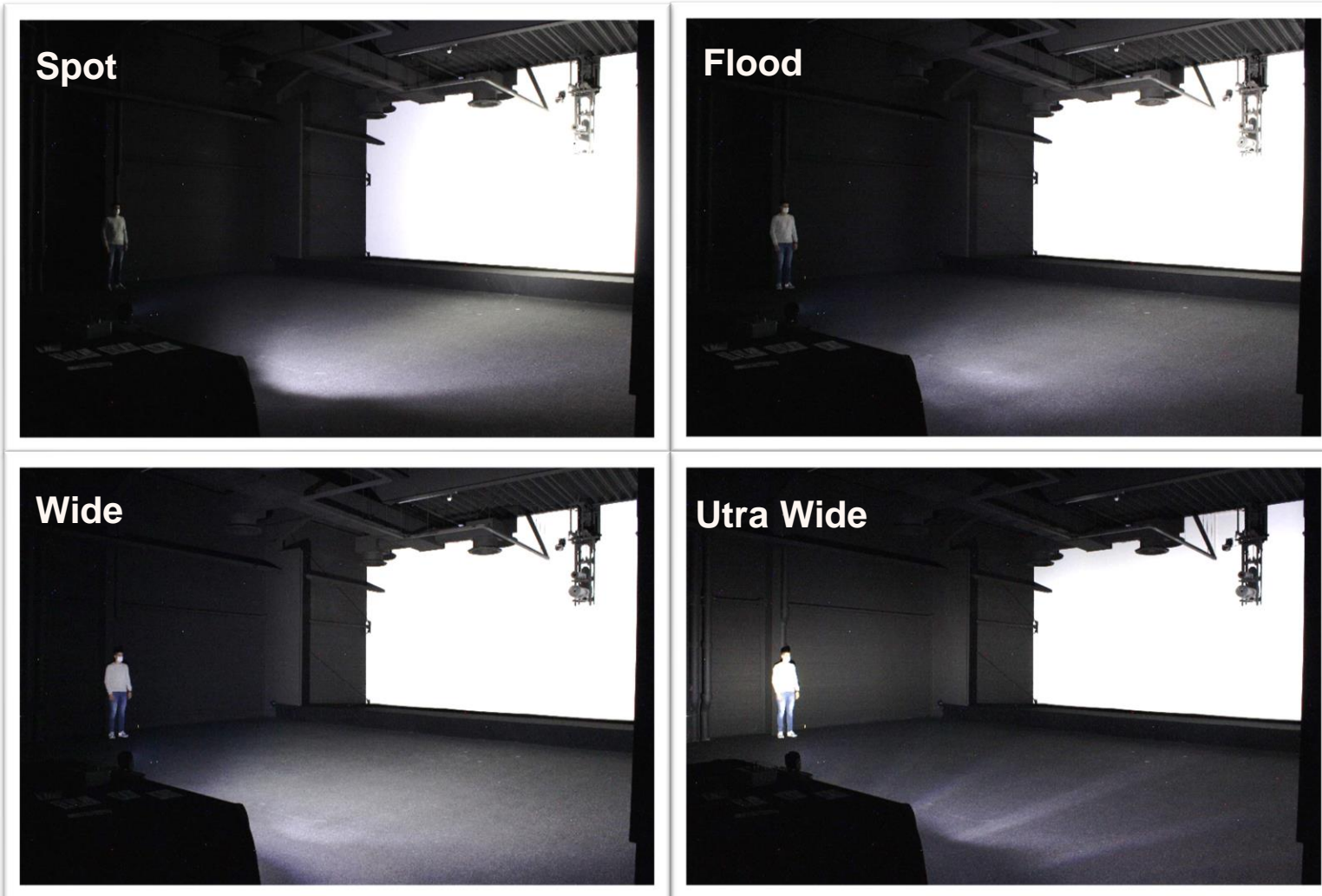


- ➔ The graphics above show the beam characteristics of the 4500-lumen variant
- ➔ The Matrix portfolio can cover all possible **lighting scenarios** around the vehicle
- ➔ In combination OSRAM LEDriving® working lights PROFESSIONAL SERIES can cover **near-, mid- and far-field illumination**. Thus, the headlights can be individually combined to suit the respective area of application and needs.
- ➔ A length of up to **185m @1Lux** is covered (Spot Beam)
A width of up to **100m @1Lux** is covered (Ultra Wide Beam)

PX Matrix-System



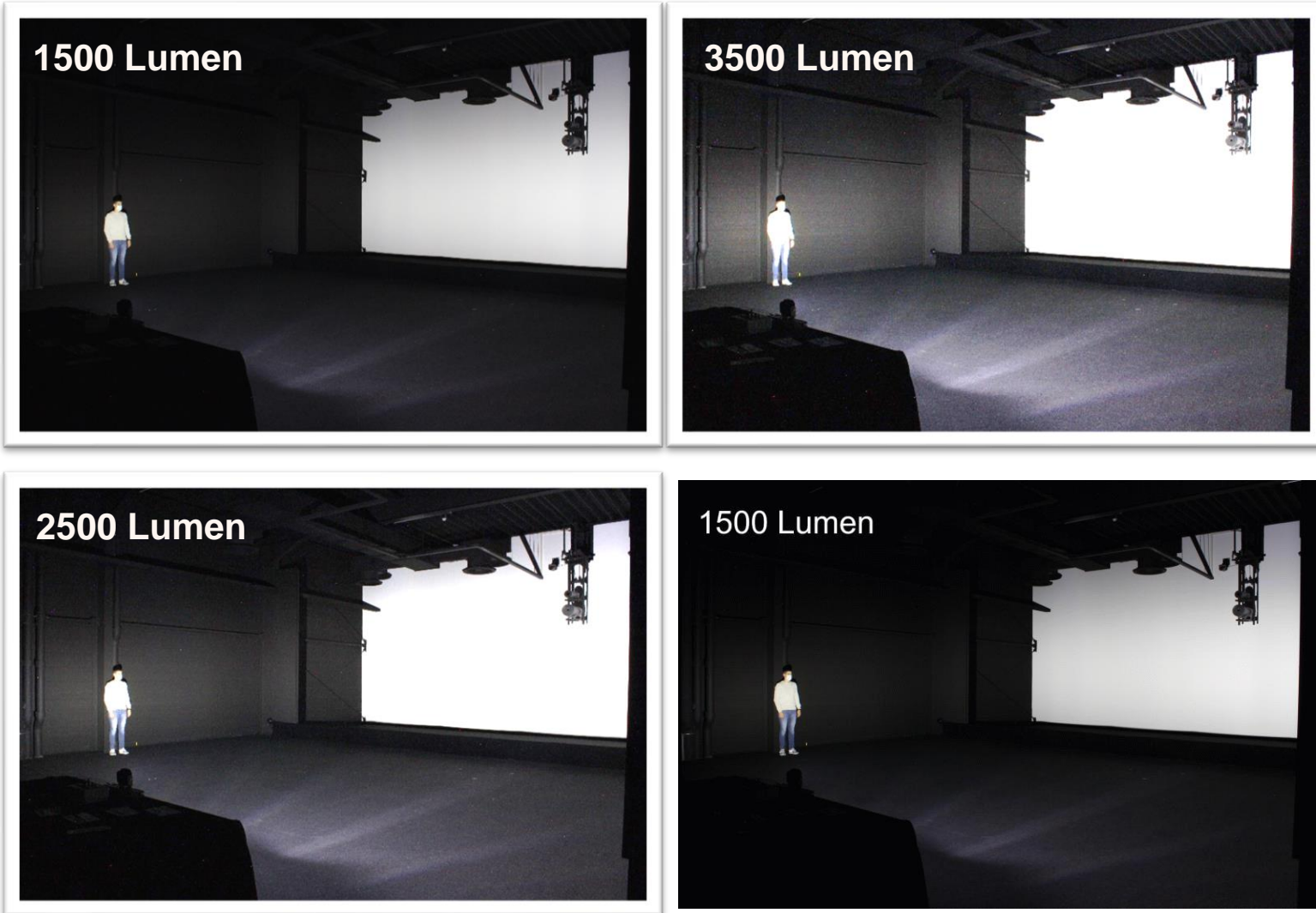
4 Beam pattern - For illumination of the desired and optimal area



PX Matrix-System



4 Beam pattern - For illumination of the desired and optimal area



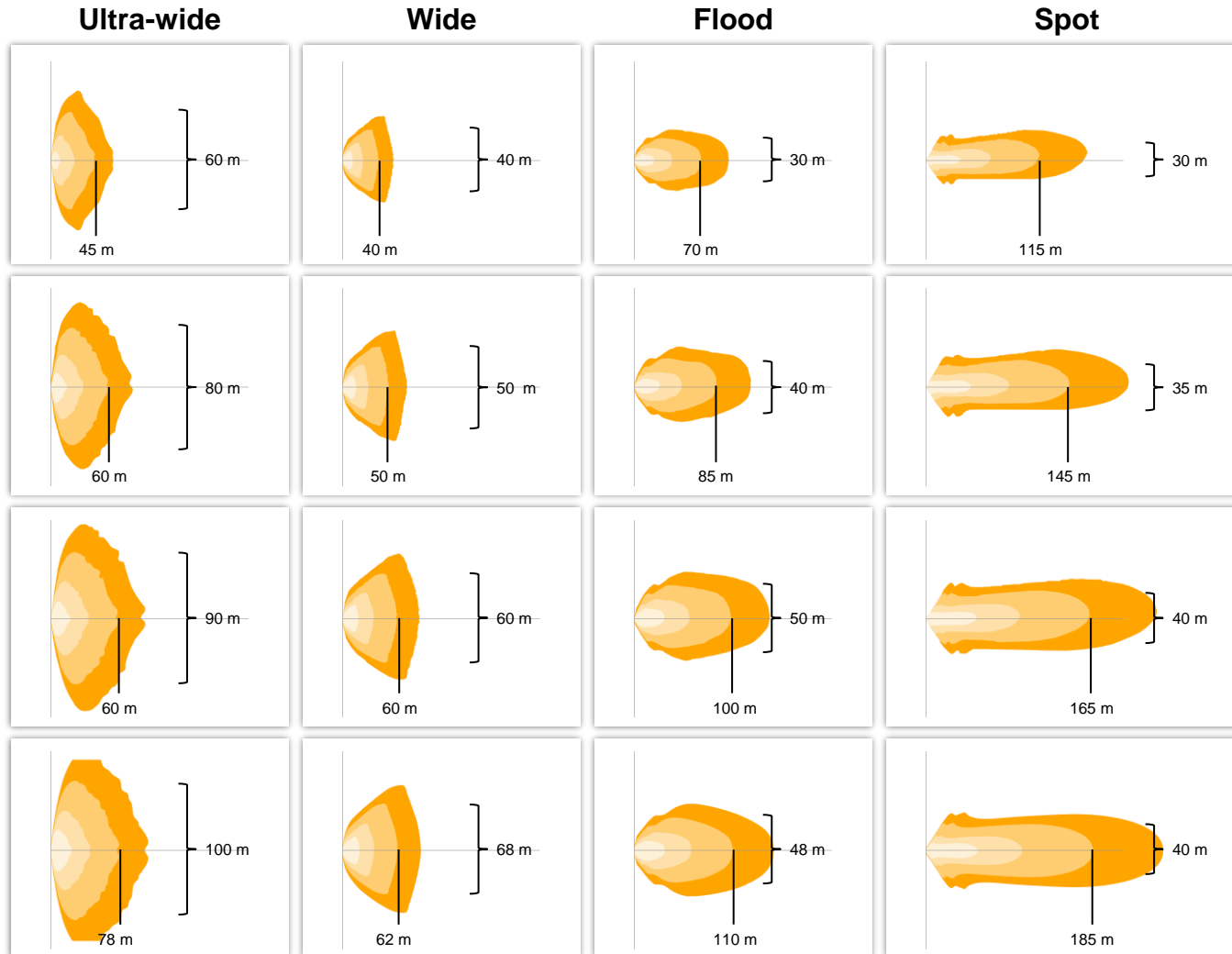
PX Matrix-System

Overview



Beam pattern

Performance



OSRAM products are **innovative** and **technologically high-quality** products that are carefully tested and subject to the **strict monitoring** undertaken by the **OSRAM quality assurance system**



With the **Matrix approach** a vehicle-specific lighting set-up can be put together individually. **Mix & match. Vary and combine**



Applicable to the respective **individual** requirements and needs



- @10 lx
- @3 lx
- @1 lx
- @0,5 lx

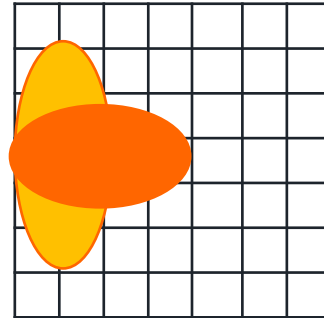
PX Matrix-Approach

Combination possibilities

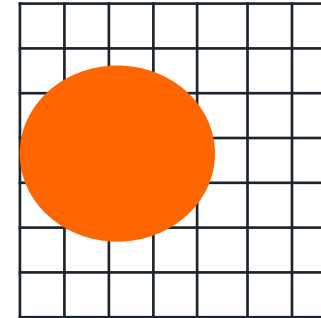


Example 1:

2x different beam pattern (Spot and wide)



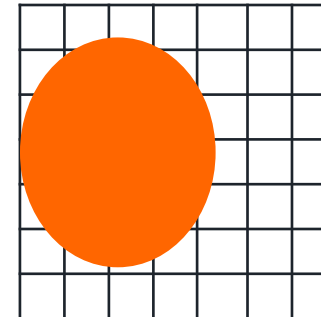
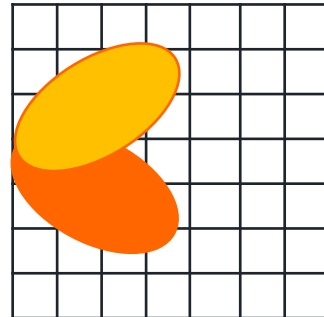
MATRIX Solution



1x Flood Beam

Example 2:

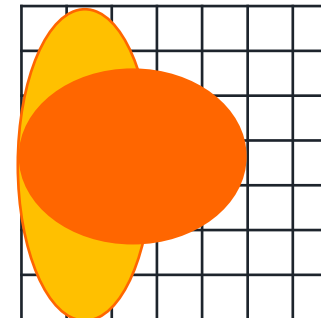
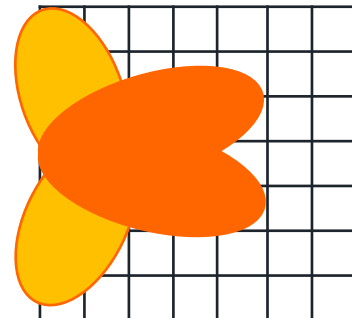
2x same beam pattern in different direction



1x Wide Beam

Example 3:

4x different beam pattern in different directions



1x Ultra Wide Beam +
1x Flood Beam



Matrix approach facilitates the combination of light beams



Reduction of the amount of lights possible



all beam pattern can be covered



cost savings

Supporting Material

OSRAM LEDriving® working lights: Catalogue & Light News



www.osram.com/ledriving-spotlights

OSRAM LEDriving®
driving & working lights
The night doesn't stand a chance

OSRAM

Information about new OSRAM products

LIGHTNEWS

OSRAM LEDriving® working lights PROFESSIONAL SERIES PX

With the OSRAM LEDriving® Professional Series (PX) working lights portfolio, it is now possible to find exactly the right lighting for a wide range of special professional tasks and applications. The 16 working lights in total score points with maximum optical efficiency, effectiveness and homogeneous light distribution. The modular series focuses on the most important aspects of work light use: Beamwidth, performance, quality, shape, durability, functionality, and thus can also result in increased safety at work for you and others. The optional factors can be selected and prioritized for each corresponding application; thus, with these high-performance lights, a complete vehicle-specific lighting set-up can be put together, that this is perfectly applicable to the respective individual requirements and needs.

The working lights are suitable for 12V and 24V vehicles and a total of four beam patterns – Flood, Spot, Wide and Ultra-Wide – and four power levels – 1500lm, 2500lm, 3000lm and 4000lm – are available for each light. In addition, they can be mounted in three different ways: Direct mounting, flexible standard mounting and heavy-duty mounting. Additionally, OSRAM has developed specially designed mounting kits and also a cable with OT-connector. Simply assemble, adapt, combine and, if required, easily interchange. For different equipment profiles and multi-variant use. At work, whether on- or off-road, this completely new concept of the so-called matrix portfolio impresses with its powerful performance and an exceptionally long service life.

Versatile in use, it defies numerous environmental influences and, thanks to high-quality materials, it is robust and resistant and specially developed for tough everyday working conditions. All PX-Series working lights have been tested in an environmental simulation laboratory certified according to DIN EN ISO/IEC 17025 for extreme external influences such as water, dust, shocks, hot and cold temperatures, permanent vibrations and shocks and validated according to the highest IP & IK protection classes IP68 & IP69K. The Professional Series is designed to meet the highest OE standards and requirements of the automotive industry.

Furthermore, the complete PX-Series is "Made in Europe" and OSRAM provides a 5-year guarantee on these products!

OSRAM

1. Additional working lights without 12V approval for use as work lights are approved for use in any vehicle according to German Trade Goods Licensing Regulations (ProdG) (B1) (7). However, they may not be used without suitable fitting, if and only, jobs that special regulations and laws of countries outside Germany must be observed.
2. For further conditions refer to: www.osram.com/en/guarantee

Product Quality

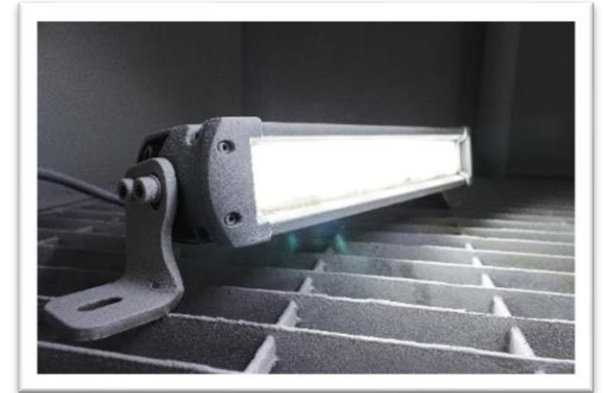
OSRAM LEDriving® working lights



Water resistance



Cold resistance



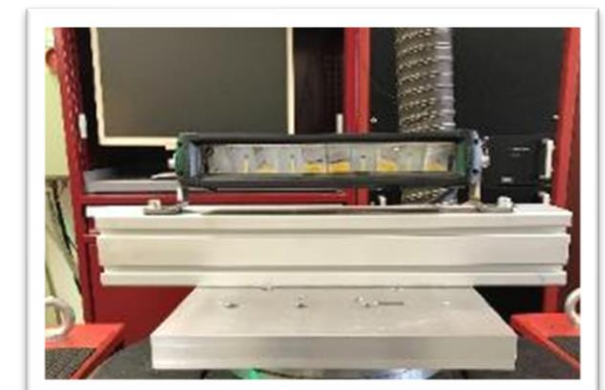
Dust resistance



Heat resistance



Corrosion resistance



Vibration and shock resistance

Video quality test LEDriving® driving and working lights

[osram-dam-14882376](https://www.youtube.com/watch?v=osram-dam-14882376)

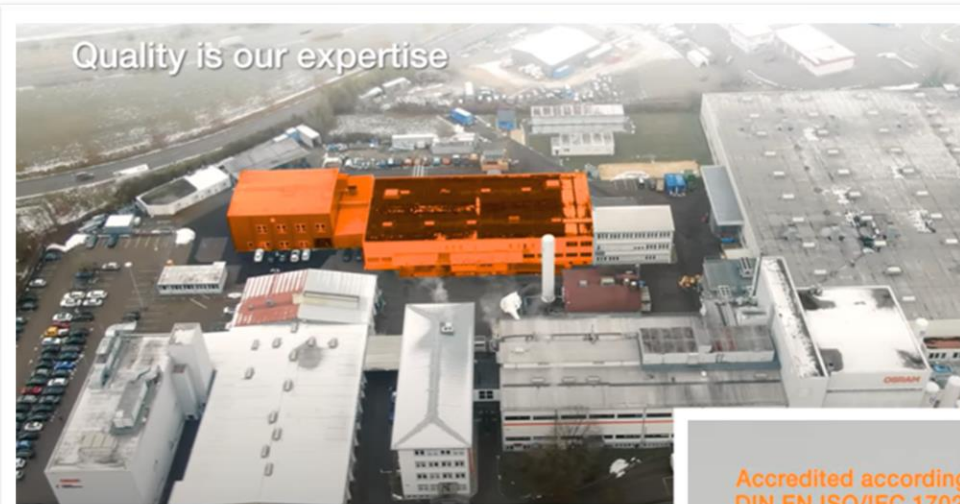
[YouTube Link](https://www.youtube.com/watch?v=osram-dam-14882376)

Product Quality

Quality is our expertise!

Systematic quality assurance measures underpin the high-quality workmanship and functionality of our products. Innovative technology and outstanding quality pay off for our customers.

With the accreditation of our laboratory, we can comply with global standards for measurement processes and to guarantee such standards. High-precision test results can only be achieved with the continuous monitoring of processes.



Video Quality Laboratory
[Link](#)

Central Laboratory
[Website Link](#)

Expertise and competence in the field of environmental simulation according to DIN EN ISO/IEC 17025

Accredited according to
DIN EN ISO/IEC 17025



Product Portfolio

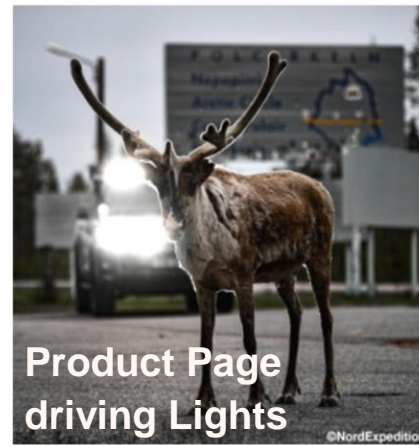
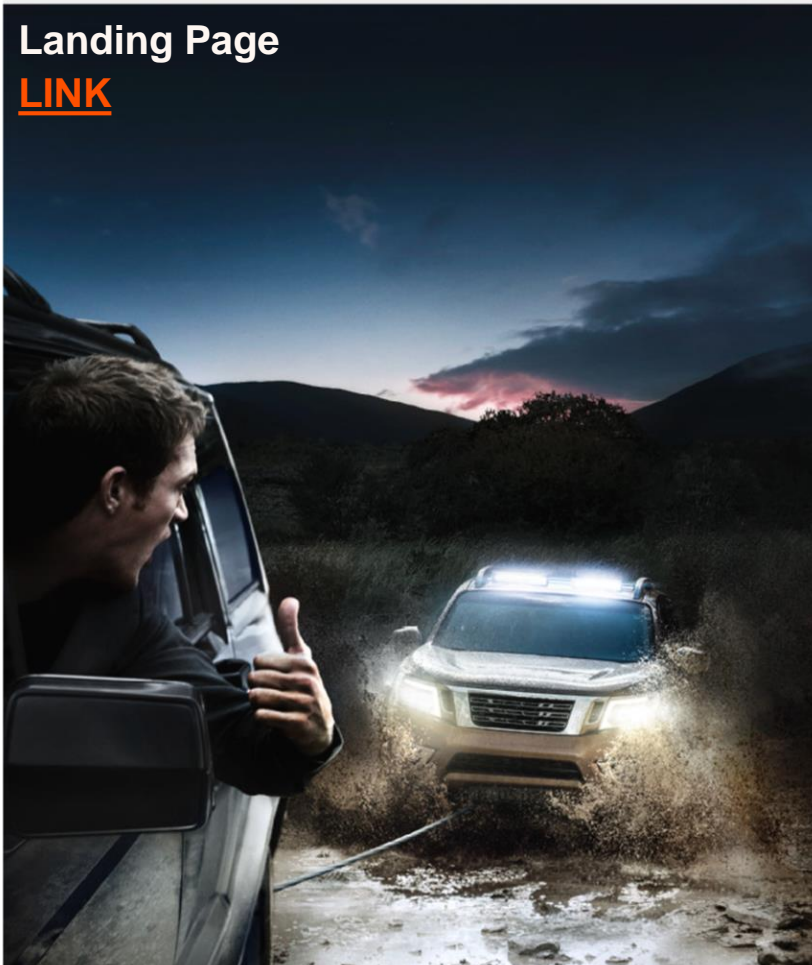


Bringing light to life – OSRAM LEDriving® driving and working lights

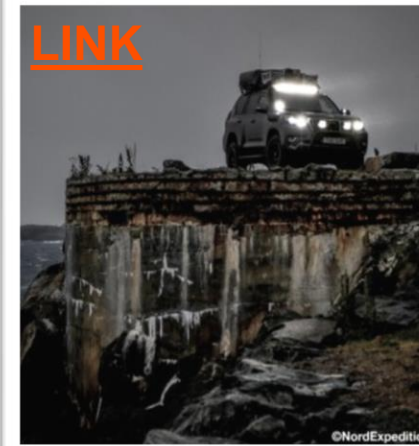
For more information regarding the complete OSRAM LEDriving® driving & working lights portfolio please refer to our website

Landing Page

[LINK](#)



Product Page
driving Lights



[LINK](#)

Product Page working Lights

[LINK](#)



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Sensing is life

ami OSRAM

Thank you

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