

Light is reliable DURIS[®] P

The best choice for professional outdoor lighting applications



Light is OSRAM

Top quality, leading-edge technology and high reliability

OSRAM Opto Semiconductors' new high and ultra high power LEDs provide versatile opportunities for high-quality and cost-efficient outdoor lighting.

Advantages

Until now, costly ceramic-based LEDs are used for professional exterior lighting applications. With the DURIS® P series OSRAM Opto Semiconductors is now offering epoxy-based packages that generally provide superior lumen/\$. In addition, the new DURIS® P highpower and ultra-high-power LEDs grant uncompromising reliability and performance. To achieve this, we have transferred our special automotive experience in combining competitive lead frame technology and high-power chips in the field of high volume products for General Lighting.

Features:

- Cheaper alternative to ceramic packages, higher lumen/\$
- Best in class 2nd board reliability compared to ceramic packages
- Key parameters binned at 85 °C
- Superior robustness and long lifetime
- Color distribution limited to 5 steps maximum (McAdam)

Powerful LEDs for street lighting applications



DURIS® P 8

- Higher lumen/\$
- Cheaper alternative to well known ceramic packages
- Long lifetime
- Small size (3.7 × 3.7 mm)

DURIS® P 9

- Maximum light output at minimized package size
- Enables very compact luminaire designs
- Small size (3.7 × 3.7 mm)

DURIS® P 10

- Enables significant reduction in system costs
- Reconciliation of thermal behavior and best in class 2nd board reliability
- A broad choice of lens for secondary optics is readily available on the market
- 7.0 × 7.0 mm package

Applications

- Professional outdoor lighting (street- and tunnel lighting)

DURIS® P 9

- Industrial luminaires (high bay, low bay)



High quality outdoor lighting for residential applications



Professional outdoor lighting in public spaces

DURIS® P

DURIS® P 8

Туре	Color	Available CCT range (K)	CRI min.	CRI typ.	Typ. Luminous flux (Im)	Typ. Forward Voltage V _f (V)	Typ. Binning temperature (°C)	Binning CCT (K)	Viewing angle at 50 % l _v	Footprint (mm)
DURIS [®] P 8										
GW PUSRA1.PM	white	3,000 - 6,500	70	72	290	2.8	85	5,000	120°	3.7×3.7
DURIS [®] P 9										
GW PUSTA1.PM	white	3,000 - 6,500	70	72	450	3.0	85	5,000	120°	3.7 × 3.7
DURIS [®] P 10										
GW P7STA1.PM	white	3,000 - 6,500	70	72	1,100	11.2	85	5,000	120°	7.0×7.0
GW P7STA2.PM	white	3,000 - 6,500	70	72	1,100	5.6	85	5,000	120°	7.0×7.0

DURIS® P 10

Upcoming product

For more technical values, please visit our product pages www.osram-os.com



DURIS[®] P Family on the Internet: www.osram-os.com/duris-p

For further **information on the available products** please visit our product catalog at http://catalog.osram-os.com

More information about LED in General Lighting:

LED Light Site Iedlight.osram-os.com



LED Light for you Network www.ledlightforyou.com

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