



Light is versatile

DURIS[®] S 5

Consumer mid power LED portfolio

Light is OSRAM

OSRAM
Opto Semiconductors



DURIS® S 5 has it all: various white and color versions

The proven, innovative DURIS® S 5 family consists of various white and colored mid power LEDs with compact dimensions and excellent efficiency, offering manufacturers and designers great versatility and flexibility.

DURIS® S 5 white: bright benefits

DURIS® S 5 white provides flexibility in forward voltage and luminous flux with high lifetime even at high temperature. Optimized phosphor, lead frame and chip design lift the LEDs to a new level of performance.



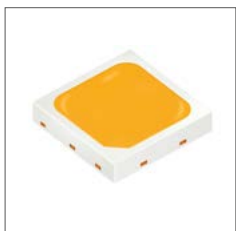
Tunable white lighting

Features

- Various luminous flux packages from one package family
- Small footprint (3 mm × 3 mm) for clustering
- Higher lifetime than PPA packages
- Compact light source in white SMT package, colored diffused silicone resin
- Viewing angle at 50 % I_v: 120°
- Optimized driver efficiency and costs due to higher voltage option
- Full range of color temperatures: 2,700 K–6,500 K (white)
- Test results according to IESNA LM-80
- Excellent color reproduction with CRI min. 70, 80 and 90
- LM-80 report available

Applications

- Retrofit (omnidirectional, directional, linear)
- Home (pendant lighting, strip lighting, spotlight)
- Shop (spotlight, downlight, linear lighting, freezer/display, shelf lighting)
- Office (downlight, linear/area lighting)
- Architainment and hospitality (accent/mood lighting, cove lighting, strip lighting)
- Industrial (portable lighting, emergency lighting, high/low bay, linear lighting)
- Outdoor stability



DURIS® S 5 white

Type	Typ. R _{th JS el} (K/W)	Available CCT range (K)	CRI min.	Typ. Luminous flux (lm)	Typ. Efficacy (lm/W)	Max. Current (mA)	Typ. Binning current (mA)	Typ. Binning voltage (V)
GW PSLR31.CM ¹⁾	11	2,700–4,000	90	102	107	200	150	6.3
GW PSLR31.EM ¹⁾	11	2,700–6,500	80	129	137	200	150	6.3
GW PSLR32.CM ¹⁾	11	2,700–6,500	90	40	117	400	120	2.85
GW PSLR32.EM ¹⁾	11	2,700–6,500	80	54	157	400	120	2.85
GW PSLM31.CM ¹⁾	20	2,700–4,000	90	25	133	200	65	2.9
GW PSLM31.EM ¹⁾	20	2,700–6,500	80	32	170	200	65	2.9
GW JSLPS1.EM ¹⁾	15	2,700–6,500	80	124	133	200	150	6.2

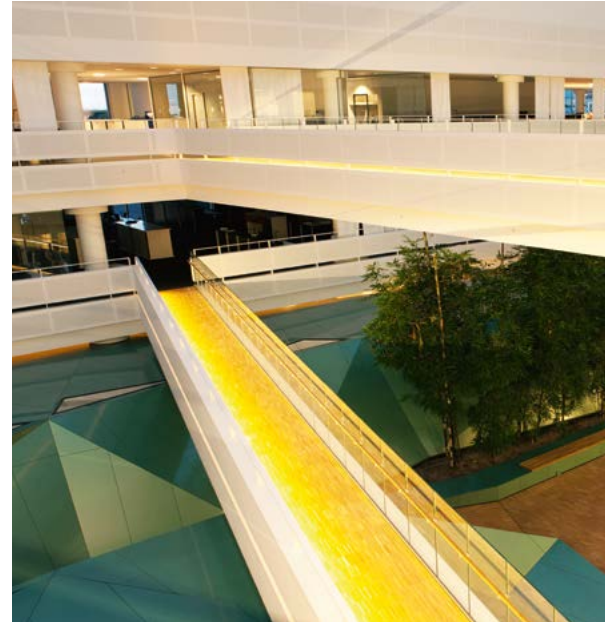
1) Binning Conditions: 3,000 K, 25°C



Consumer Horticulture Lighting



Residential Indoor Lighting



Residential Outdoor Lighting

DURIS® S 5 color:

DURIS® S 5 is also available in several color versions, offering exciting and efficient opportunities for innovative applications and designs. Thanks to OSRAM innovation color chip UX:3 & TF, all colors achieve state of the art efficacy and brightness. All these colors enable less LED usage and smaller PCB design, and thus cost savings in assembly.

Features

- Wide spectrum color solution
- Complete portfolio with industrial standard footprint (3030) of 3 mm × 3 mm
- Epoxy based package
- Best in class flux with hot/cold factor (85 °C to 25 °C)

Applications

- Smart lighting
- Residential Indoor Lighting
- Residential Outdoor Lighting
- Color changing mood lighting designs
- High color quality tunable white retrofits
- High color quality tunable white LEDfits (RGB solution to achieve tunable white)
- Consumer horticulture lighting

DURIS® S 5 color

Type	Color	Wave-length (nm)	Typ. V _f (V)	Typ. Luminous flux (lm)	Typ. Efficacy (lm/W)	Radiant power (mW)	Radiant Efficacy (%)	Max. Current (mA)
GR PSLR31.13	Red	620	6.25	24	26	—	—	200
GR PSLM31.23	Red	623	2.11	17	81	—	—	200
GA PSLR31.13	Amber	610	6.25	45	48	—	—	200
GA PSLM31.23	Amber	617	2.11	21.5	102	—	—	200
GW PSLM32.UJ	PC Lime	—	2.95	58	197	—	—	200
GY PSLM31.13	PC Yellow	—	2.96	32.6	110	—	—	200
GT PSLR31.13	True Green	540	6.25	164	175	—	—	200
GT PSLM31.13	True Green	528	2.90	35.6	123	—	—	200
GB PSLM31.13	Blue	470	2.85	9	32	—	—	200
GD PSLR31.13	Deep Blue	450	6.25	—	—	480	51	200
GD PSLM31.13	Deep Blue	455	2.85	—	—	163	57	200
GP PSLR31.13	PC Purple	—	6.37	—	—	332.7	35	200
GP PSLM31.14	PC Purple	—	2.86	—	—	124.3	43	200
GW PSLM31.FM ²⁾	Full spectrum	—	2.77	25.56	140	—	—	200
GW PSLR31.FM ²⁾	Full spectrum	—	6.35	110.7	115	—	—	200

2) Binning Conditions: 4,000 K, 25 °C





DURIS® S 5 on the Internet:
www.osram.com/duris-s5

For further information on the available products please visit our product catalog at www.osram.com/general-lighting

LED Light for you Network
www.ledlightforyou.com



Asia

OSRAM Opto Semiconductors
(China) Co., Ltd.
29/F, Harbour Ring Plaza
No. 18 Xi Zang Middle Road,
Shanghai, 200001 P.R.C.
China
E-mail: prasia@osram-os.com

Europe

OSRAM Opto Semiconductors GmbH
Leibnizstraße 4
93055 Regensburg, Germany
Phone: +49 941 850 1700
Fax: +49 941 850 3302
E-mail: support@osram-os.com

USA

OSRAM Opto Semiconductors Inc.
1150 Kifer Road, Suite 100
Sunnyvale, CA 94086, USA
Main Phone number: (408) 962-3700
Main Fax: (408) 738-9120
Inbound Toll Free: (866) 993-5211
E-mail: info@osram-os.com