

Aerolite LSL[®] 90



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- A 10x10 grid of dots. The top-right 4x4 area is a solid blue square. The bottom-right 4x4 area is a light blue square. The remaining 6x6 area is white. All dots are gray.



GRAH®
LED LIGHTING

Aerolite LSL[®] 90



Aerolite LSL[®] 90 excellent performance with best quality - price ratio

Patented Aerolite LSL[®] 90 are one of the only LED street lights in the world produced under highest automotive production standard ISO/TS 16949.

Top quality materials, guaranteed lifetime, unique design, high energy efficiency and excellent lighting performance bring you numerous advantages for affordable price.



GRAH revolutionary 360° APPROACH[™] to LED street lighting

By combining know-how and expertise from LED technology with our own integrated 360° APPROACH[™], every single component of the luminaire is studied and constantly optimized from a totally new perspective to achieve unique innovative solutions which are successfully solving all the challenges and are setting new standards in LED street lighting.

Aerolite LSL[®] 90 - main characteristics:

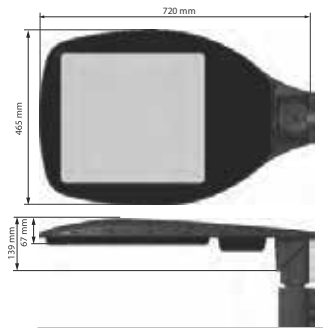
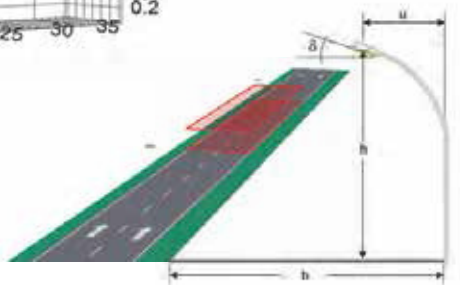
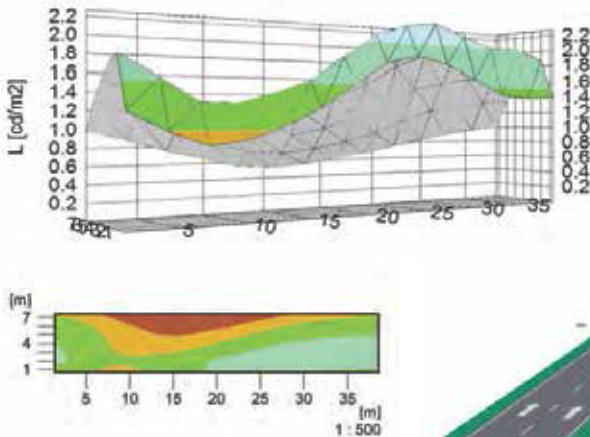
- **Luxeon Rebel LED** top quality, awarded LEDs
- **LED GENION** optimized LED modules exploiting every LED surface to the fullest extent
- **QUADRUM optical FULL CUTOFF** optics (IES and IDA standards) with high efficient reflectors directs light beams exactly where self-cleaning feature reduces maintenance costs achieving cutting edge light performance
- **I-NFINITY driver** customized, intelligent driver for optimal operation with ultra energy efficient output
- **MATRIX 3D light** unique light shape with asymmetric distribution of luminosity for best possible light uniformity / optimal coverage of surfaces
- **COOLVERT** uniquely optimized heat dissipation extends life 50,000h and preserves light performance
- **AEROCOMPACT housing** most aerodynamic, ultra slim luminaire with robust housing from aluminum alloy enabling increased performance and extended lifetime
- **ULTRA COAT** life time multi layer protection of LED surface for excellent durability
- **ALL WEATHER RESISTANT** ingress protection rate IP68 with **AND IMPACT RESISTANT** impact rate IK08
- **complete electronic control** of all parts of the light sources
- **ability to regulate light current** 100% without multilevels regulation
- **produced under strictest standards:** Automotive ISO/TS 16949
- **100% made in European Union**
- **environmentally friendly ECO technology**
- **prepared for a seamless upgrade of the system for different multifunction options**

MOUNTING

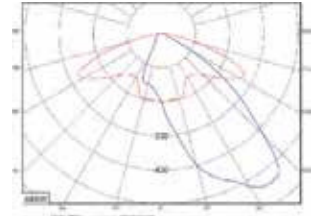
- fast and universal mounting to a lamp post with a diameter of 60 or 76 mm
- alternative mounting concepts possible on request
- possibility of setting the angle of mounting in the range of -15° to +15°
- the light can be adjusted in the horizontal position – swing
- recommended mounting height is 7 - 12 m

APPLICATION

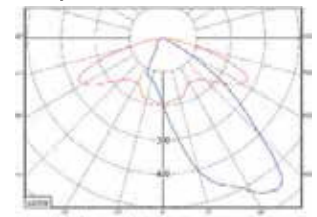
- urban roads, connected roads, high speed traffic roads, junctions
- wherever the required level of illumination is 1 cd/m² (ME3 street category)
- suitable for parking lots and more demanding industrial buildings



Asymmetric, LS, 10700lm



Asymmetric, LS, 12700lm



AEROLITE LSL®90 TECHNICAL DATA

| | |
|---------------------|--|
| Light source | 90 LED high power by Lumileds |
| Voltage | 110 – 250 V (50 - 60 Hz) |
| Luminaire flux | From 10.700 up to 12.700 lm |
| Color temperature | 4.200 K (other color temperatures on request) |
| Power consumption | From 110 up to 134 W (depending on lumen package) |
| Luminous efficiency | 100 lm/W |
| Lifetime | Min. 60.000 hours / up to 100.000 hours |
| Protection rating | IP66 |
| Temperature range | -30° to +60°C |
| Working temperature | +55°C |
| Safety class | Class I or II |
| Material | Housing: alluminium alloy Housing sealing: silicon, heat resistant Cover: PMMA |
| Housing color | RAL 9006 |
| Weight | 8,5 kg |
| Dimensions (LxHxW) | 720 mm x 465 mm x 139 mm |

For more information visit
www.grahlighting.com

GRAH
 LED LIGHTING



HIGH EFFICIENT
LED STREET LIGHTS

Aerolite LSL[®] 90

| Code / Order No. | Version | Luminaire flux | Power consumption | Driving current | LED type |
|------------------|--------------------|----------------|-------------------|-----------------|----------|
| 1830811 | Basic (no dimming) | 10.700 lm | 110 W | 400 mA | LS |
| 1830813 | Power red.50% | | | | |
| 1830815 | Dim. range 1-100% | | | | |
| 1800811 | Basic (no dimming) | 12.700 lm | 134 W | 500 mA | LS |
| 1800813 | Power red.50% | | | | |
| 1800815 | Dim. range 1-100% | | | | |

| Code / Order No. | Bracket |
|------------------|----------------------------|
| 2601012 | Fix angle 0° Ø 60 |
| 2601001 | Variable angle +/-15° Ø 60 |
| 2601011 | Variable angle +/-15° Ø 76 |

Your benefit is our leading priority

We are committed to constant and never ending improvement of people, sources, processes to achieve best possible products' quality, efficiency, performance and bring high added value to satisfy our clients.



Preserving environment for future generations

Our production is without harmful substances and pollution free. We continually seek new ways to improve our activities in order to preserve our environment for future generation.



Trusted partner for leading car manufacturers

Grah Lighting was established as a fully specialized division for the LED street and industrial light program of the company SGA (Scheffenacker Grah Automotive – SG Automotive d.o.o.), which is a trusted partner and supplier for leading car manufacturers such as, Mercedes Benz, BMW, Audi, Porsche, Ferrari, Maybach, Rolls Royce, VW, Ford, GM, Nissan, Volvo, Toyota, Cadillac, Chrysler,...



Pioneers of utilizing LED technology with 15 years of experience

Grah Lighting, as the integral part of Grah Group, has more than 15 years of experience in LED technology.

Grah Group is formed by integrated and subsidiary companies of Grah Automotive worldwide, employs more than 1000 people and was one of the first on the market utilizing LED technology in lighting and automotive signalization.



Manufacture:

GRAH[®]
LED LIGHTING

GRAH LIGHTING
SG Automotive d.o.o.

Mestni trg 5b
SI-3210 SI. Konjice
Slovenia, EUROPEAN UNION

T +386 82 801 424
F +386 82 801 402
info@grahlighting.com
www.grahlighting.com

Distribution:



NICHELIGHTING

1300 780 565 | info@nichelighting.com.au