

HIGH EFFICIENT
LED COMMERCIAL LIGHTS

Terralite LCL[®] 90



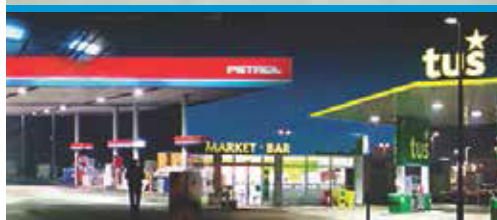
Functional design and fast mounting

Cutting edge light performance

- Robust housing for excellent durability
- Uniquely optimized heat dissipation extends life time
- Suitable for gas stations, warehouses, production areas, shopping centers, sport facilities



GRAH[®]
LED LIGHTING



Terralite LCL[®] 90

Terralite LCL[®] 90
excellent performance
with best quality - price ratio

Patented Terralite LCL90 are one of the only LED commercial 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 commercial 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 commercial lighting.

Terralite LCL[®] 90 - main characteristics:

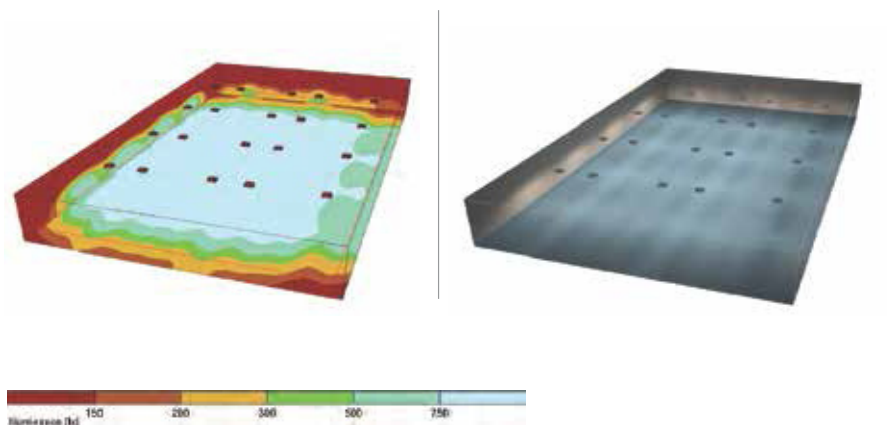
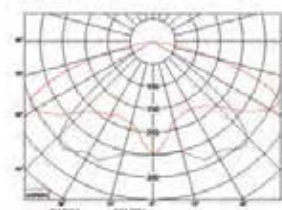
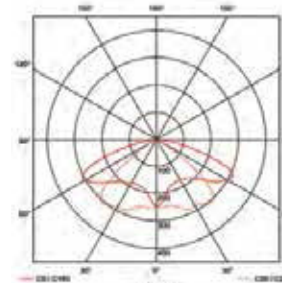
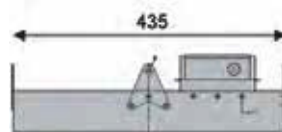
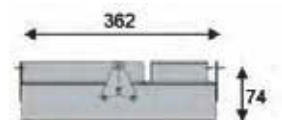
- **Luxeon Rebel** LED top quality, awarded LEDs
- **LED GENION** optimized LED modules exploiting every IP65 to the fullest extent
- **QUADNUM** with high efficient reflectors directs light exactly where needed for achieving cutting edge light quality
- **I-NFINITY** customized, intelligent driver for optimal ability to regulate light current with ultra energy efficient output
- **MATRIX 3D** unique light shape with symmetric distribution of lumens for best possible light uniformity / optimal coverage of surfaces
- **COOLVERT** uniquely optimized heat dissipation extends life time and preserves light performance
- **ROBUST housing** from custom aluminium with different shades possible
- **WEATHER RESISTANT** IP65 ingress protection rate
- **IP65** (IP65 on demand)
- additional scatergloss reflector for preventing glare
- complete electronic control of activity and LED light source
- ability to regulate light current with an ordinary regulation of the light current
- rudder signal from 1-10V (without multi-level regulation)
- requires certificates: CE, RoHS, ENEC, VDE, IEC, IBA Approval
- produced under strictest standards: Automotive ISO/TS 16949, ISO 9001, ISO 14001
- 100% made in European Union
- environmentally friendly ECO technology
- prepared for a seamless upgrade of the system for different multifunctions

MOUNTING

- fast and universal mounting with 4 fixing points under construction, horizontal swing position or directly screwed to construction
- alternative mounting concepts possible on request
- recommended mounting height is 3 - 8 m

APPLICATION

- outdoor under roof: gas stations, shopping centers, sport facilities
- interior areas: production or working areas, warehouses, stores, schools, etc.



TERRALITE LCL 90 TECHNICAL DATA

Light source	90 LED high power by Lumileds
Voltage	110 – 250 V (50-60 Hz)
Luminaire flux	From 9.400 up to 12.000 lm
Color temperature	4.200 K (other color temperatures on request)
Power consumption	From 110 up to 130 W (depending on lumen package)
Luminous efficiency	100 lm/W
Lifetime	Min. 60.000 hours / up to 100.000 hours
Protection rating	IP54 (IP66 on demand)
Temperature range	-30° to +60°C
Working temperature	+55°C
Safety class	Class I
Material	Housing: custom aluminium Housing sealing: silicon, heat resistant Cover: PMMA glass
Housing color	RAL 9003
Weight	12,0 kg
Dimensions (LxHxW)	435 mm x 362 mm x 74 mm



For more information visit
www.grahlighting.com



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Code / Order No.	Version	Luminaire flux	Power consumption	Driving current	Optic pattern
1803111	Basic (no dimming)	9.400 lm	110 W	400 mA	SA
1803113	Power red.50%				
1803115	Dim. range 1-100%				
1803311	Basic (no dimming)	9.400 lm	110 W	400 mA	SB
1803313	Power red.50%				
1803315	Dim. range 1-100%				
1803011	Basic (no dimming)	12.000 lm	130 W	500 mA	SA
1803013	Power red.50%				
1803015	Dim. range 1-100%				
1803211	Basic (no dimming)	12.000 lm	130 W	500 mA	SB
1803213	Power red.50%				
1803215	Dim. range 1-100%				

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.

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