

OSRAM

Opto Semiconductors
Design Award

GL-SERIES



Made in EGYPT

WWW.AIOEGYPT.COM



GL SERIES

GL Series is our latest innovation in street lighting. Top class efficacy and quality are already known as standard for AIO. One of our key improvements is modular construction of the Hammer-GL, which allows easy maintenance. An installer can replace power supply and LED board without any tools. Field-replaceable light engines allow to take advantage of future improvements in LED efficiency.

Why **GL SERIES** for energy saving

GL Series will help you to save operational and maintenance costs. With up to 150 lm/W, and 6,800 – 30,000 delivered lumens, it is can reduce the number of luminaires needed per high mast setup when compared with traditional HID Luminaires.

Major Benefits

- Quick access latch
- Screw-less maintenance
- Die cast aluminium body
- Multiple optics
- Rotor adjustable
- Constant light output
- Multi control inputs
- Overheat products
- Efficiency ≥ 135 lm/w

The life span of GL series, more than a 10-year limited warranty, means that your people aren't involved with endless and labor-intensive re-lamping cycles.

Hammer-GL series luminaire are designed to allow, tool less upgrades of key components (light engine and power supply).

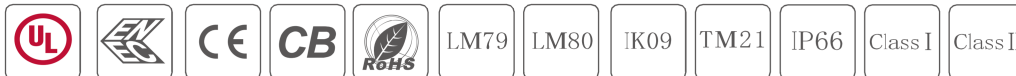
Housing is made of high pressure Die-casting aluminium. This unit has a lifetime L80B10 more than 100,000 hours. Thanks to your in-house R & D, we can adjust the product according to the local market requirment in short time.

Reduce 
65% CO₂

 **Tool Free**
Maintenance

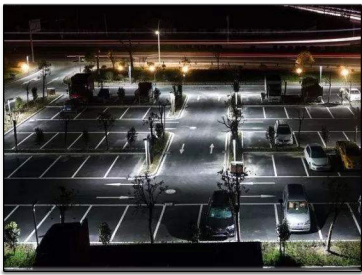
NTC design 
Overheat protector

 **Long time**
Quality warranty

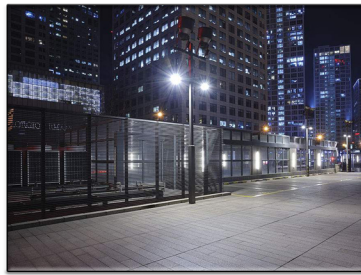


Optics solution for Application

Adding poles to the center lanes of roads can be costly and difficult to maintain. AIO GL series has designed the adjustable adaptor to be used specifically in off roadway applications. Combined with specialized optics to be used in a tilt application, the adjustable adaptor can tackle even the most difficult installation. Reduce your number of luminaires and provide quality of light



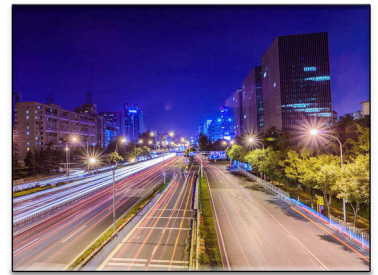
Parking



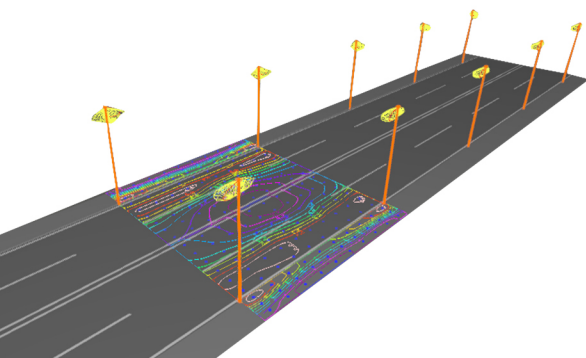
Residential



HighWay



Street & Urban



GLA-Series



Luminaire Type	GLA			
Models	GL-45	GL-55	GL-65	GL-75
Life Time	100,000 hrs.			
Operating Temperature	- 40° to +50°			
Light source replaceable	YES			
LED Chip	OSRAM /OSLON SQUARE (GW CSSRM3.PM)			
Protection class IEC	IP 66 , IK 09			
Surge protection	6 KV (optional 10 - 15 KV)			
Overheating Protection	PCB thermal protection / Driver thermal protection			
ENEC mark	YES			
UL mark	YES			
Warranty period	10 years			
Light Technical data				
CRI	≥ 70 (typ. 72)			
System Lumen efficacy	> 135lm/W @ 4000 °K			
System total Lumen (lm)	> 6,200	>7,500	> 8,800	> 10,200
Luminous flux tolerance	± 5 %			
CCT	2200 K – 6500 K			
Mac-Adam	(3 - 5)			
Optical System				
Lenses	Ledil			
Lens material	PC / PMMA			
Cover	4 mm Tempered Glass			
Electrical Data				
Input voltage	220 – 240 V ac			
Frequency	50 – 60HZ			
Power Factor	> 0.97			
THD	< 10 %			
Electrical power	45 W	55 W	65 W	75 W
Power consumption tolerance	± 10 %			
Dimmable	YES			
Over time performance				
LED Driver failure rate @100,000 hrs.	< 10 %			
Lumen Maintenance @100,000 hrs.	> L 90			
Housing				
Housing	High Pressure Die Cast Aluminum			
Boom Angle	± 15 °			
Dimension	(535 * 260 * 99) mm			
Weight	± 5 Kg			



Luminaire Type	GLB			
Models	GL-85	GL-95	GL-110	GL-120
Life Time	100,000 hrs.			
Operating Temperature	- 40° to +50°			
Light source replaceable	YES			
LED Chip	OSRAM /OSLON SQUARE (GW CSSRM3.PM)			
Protection class IEC	IP 66 , IK 09			
Surge protection	6 KV (optional 10 - 15 KV)			
Overheating Protection	PCB thermal protection / Driver thermal protection			
ENEC mark	YES			
UL mark	YES			
Warranty period	10 years			
Light Technical data				
CRI	≥ 70 (typ. 72)			
System Lumen efficacy	> 135lm/W @ 4000 °K			
System total Lumen (lm)	> 11,500	>12,900	> 14,850	> 16,200
Luminous flux tolerance	± 5 %			
CCT	2200 K – 6500 K			
Mac-Adam	(3 - 5)			
Optical System				
Lenses	Ledil			
Lens material	PC / PMMA			
Cover	4 mm Tempered Glass			
Electrical Data				
Input voltage	220 – 240 V ac			
Frequency	50 – 60HZ			
Power Factor	> 0.97			
THD	< 10 %			
Electrical power	85 W	95 W	110 W	120 W
Power consumption tolerance	± 10 %			
Dimmable	YES			
Over time performance				
LED Driver failure rate @100,000 hrs.	< 10 %			
Lumen Maintenance @100,000 hrs.	> L 90			
Housing				
Housing	High Pressure Die Cast Aluminum			
Boom Angle	± 15 °			
Dimension	(668 * 330 * 110) mm			
Weight	± 8 Kg			



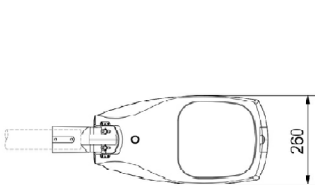
Luminaire Type	GLC		
Models	GL-130	GL-140	GL-150
Life Time	100,000 hrs.		
Operating Temperature	- 40° to +50°		
Light source replaceable	YES		
LED Chip	OSRAM /OSLON SQUARE (GW CSSRM3.PM)		
Protection class IEC	IP 66 , IK 09		
Surge protection	6 KV (optional 10 - 15 KV)		
Overheating Protection	PCB thermal protection / Driver thermal protection		
ENEC mark	YES		
UL mark	YES		
Warranty period	10 years		
Light Technical data			
CRI	≥ 70 (typ. 72)		
System Lumen efficacy	> 135lm/W @ 4000 °K		
System total Lumen (lm)	> 17,600	>18,900	> 20,250
Luminous flux tolerance	± 5 %		
CCT	2200 K – 6500 K		
Mac-Adam	(3 - 5)		
Optical System			
Lenses	Ledil		
Lens material	PC / PMMA		
Cover	4 mm Tempered Glass		
Electrical Data			
Input voltage	220 – 240 V ac		
Frequency	50 – 60HZ		
Power Factor	> 0.97		
THD	< 10 %		
Electrical power	130 W	140 W	150 W
Power consumption tolerance	± 10 %		
Dimmable	YES		
Over time performance			
LED Driver failure rate @100,000 hrs.	< 10 %		
Lumen Maintenance @100,000 hrs.	> L 90		
Housing			
Housing	High Pressure Die Cast Aluminum		
Boom Angle	± 15 °		
Dimension	(765 * 381 * 118) mm		
Weight	± 12 Kg		



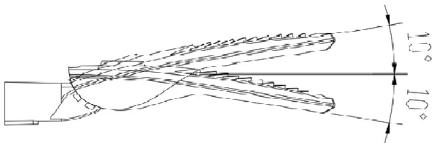
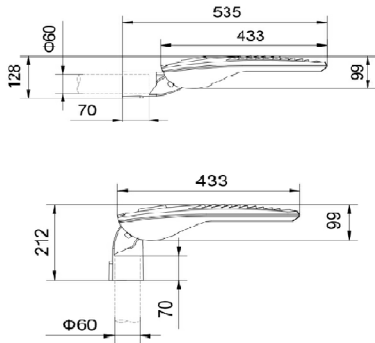
Luminaire Type	GLD		
Models	GL-180	GL-190	GL-200
Life Time	100,000 hrs.		
Operating Temperature	- 40° to +50°		
Light source replaceable	YES		
LED Chip	OSRAM /OSLON SQUARE (GW CSSRM3.PM)		
Protection class IEC	IP 66 , IK 09		
Surge protection	6 KV (optional 10 - 15 KV)		
Overheating Protection	PCB thermal protection / Driver thermal protection		
ENEC mark	YES		
UL mark	YES		
Warranty period	10 years		
Light Technical data			
CRI	≥ 70 (typ. 72)		
System Lumen efficacy	> 135lm/W @ 4000 °K		
System total Lumen (lm)	> 24,300	>25,700	> 27,100
Luminous flux tolerance	± 5 %		
CCT	2200 K – 6500 K		
Mac-Adam	(3 - 5)		
Optical System			
Lenses	Ledil		
Lens material	PC / PMMA		
Cover	4 mm Tempered Glass		
Electrical Data			
Input voltage	220 – 240 V ac		
Frequency	50 – 60HZ		
Power Factor	> 0.97		
THD	< 10 %		
Electrical power	180 W	190 W	200 W
Power consumption tolerance	± 10 %		
Dimmable	YES		
Over time performance			
LED Driver failure rate @100,000 hrs.	< 10 %		
Lumen Maintenance @100,000 hrs.	> L 90		
Housing			
Housing	High Pressure Die Cast Aluminum		
Boom Angle	± 15 °		
Dimension	(950 * 455 * 125) mm		
Weight	± 15 Kg		

Technical information

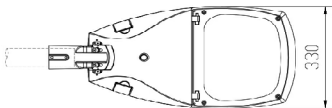
Dimension



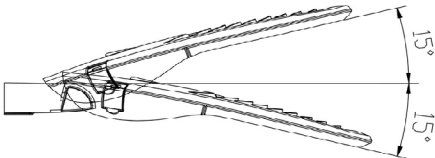
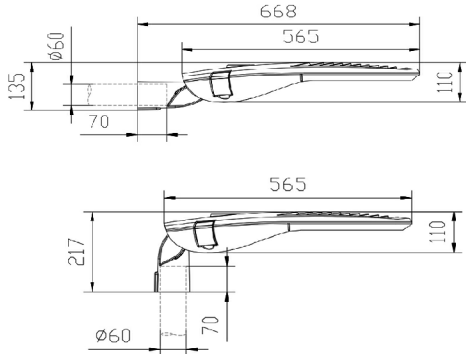
GLA View



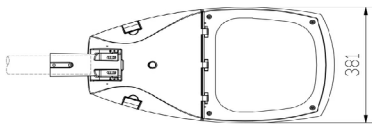
Adjustable adapter angle



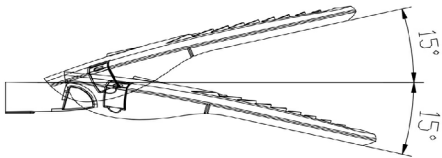
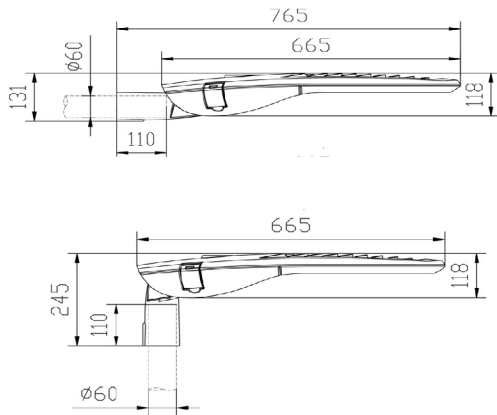
GLB View



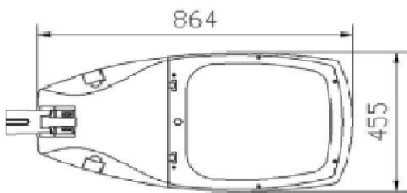
Adjustable adapter angle



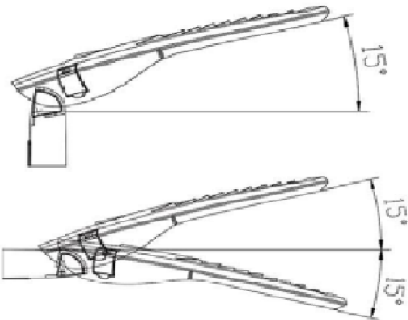
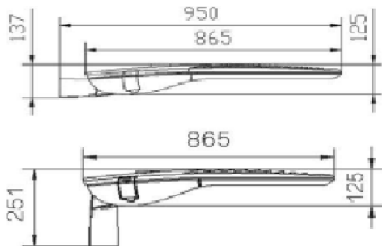
GLC View



Adjustable adapter angle



GLD View



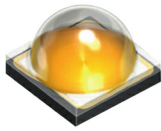
Adjustable adapter angle

Technical information

Driver & LEDs



LEDiL Lens



OSLON Square



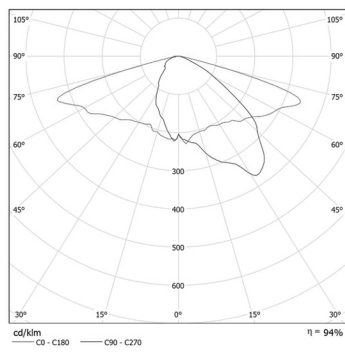
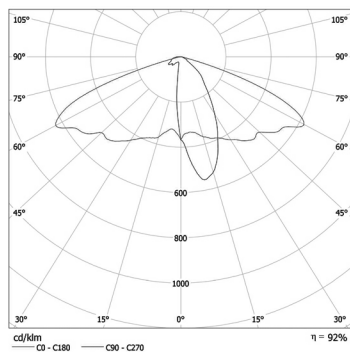
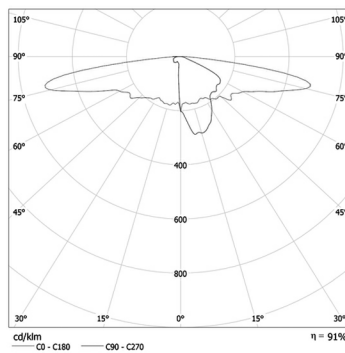
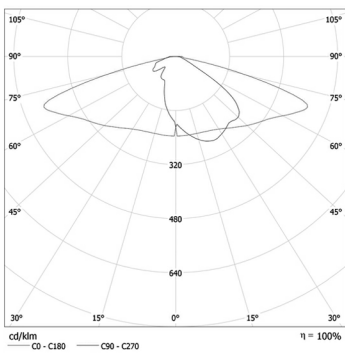
Osram Driver

Certificates

LM80 Test Report at 55.0 °C, 85.0 °C and 105 °C for 10,000.0 hrs and tested at 125 °C for 1000.0 hrs.
 LM82@ 50 °C Test Report. LM 79 Test Report. TM21 Report. Photo-biological test report as per IEC/BS EN 62471.
 Thermal Management test report, ISTMT Under UL 1598@ 50°C. Salt spray (Fog) test report as per ASTM 8-117.
 Impact Test (IK-09) according to IEC 62262:2002 and IEC 60068-2-75:1997.
 Ingress Protection test (IP-66) according to IEC 60598-1:2014 clause: 9.2.2; 9.2.7.

Optics Solution

GL-Series offers different optical solutions, providing the flexibility you need for all of your various application lighting needs. all optical solutions have a U0 rating which means no uplight - all of the lighting is directed downward on the roadway where it is needed.



WHAT'S FUTURE ?

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