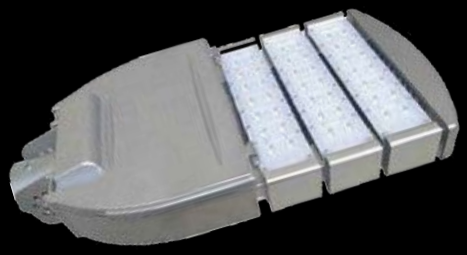
LED Street Lights

GL-ST300-Wxxx



Indicative Picture of the GL-ST300-W090 model

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LED Street Lights

5Years Guarantee	50,000 Hours	RoHS Compliance	CE	15 YEARS LIFETIME	LOW HEAT	Recyclable	30W-240W	IP66

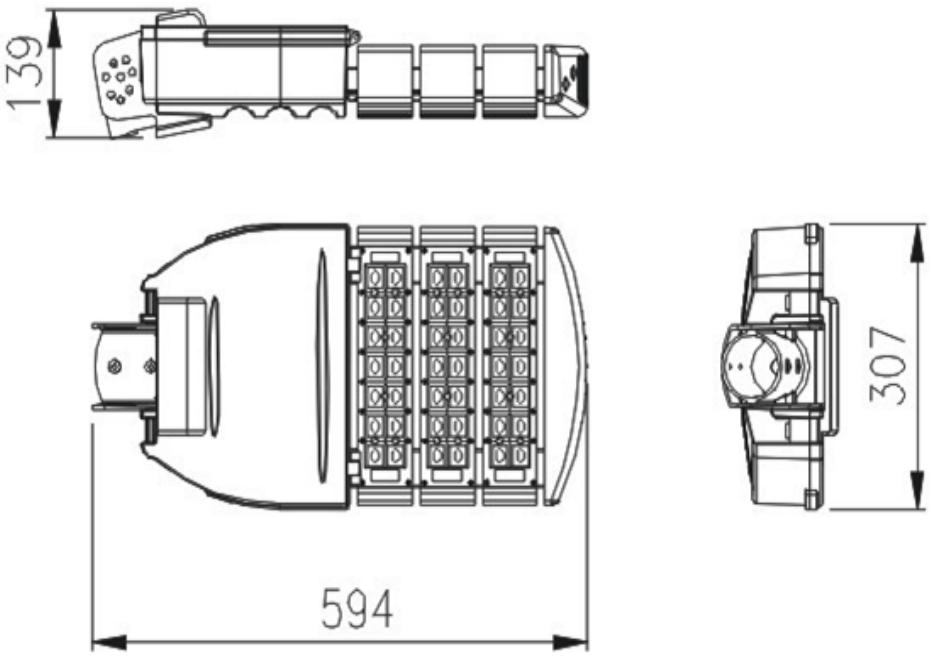
Applications

Lighting of streets, avenues, parking lots, playgrounds, sport areas, playgrounds, etc. It can replace conventional Metal Halide (MH) and High Pressure Sodium (HPS) luminaires, saving energy and exploiting the unique advantages of the LED Technology.

LED Technology Advantages

- Environmental friendly
- Low heat
- Noise free
- Soft light beams and strobe flash free
- High efficiency
- Long life-span
- No mercury or lead
- No UV or hazardous radiation

Indicative Dimensions (in mm) of the GL-ST300-W090



GL-ST300-Wxxx Key Features

- Philips LED Chips with long life-span (>50,000 hrs), IEC62471 approval and wide range of CCT & CRI.
- Meanwell Dimmable LED Driver with long life-span and high efficiency.
- CE (LVD, EMC), RoHS and IP66 rating.
- Integrated Wireless Controller (upon request) for remote control, (dimming control, failure monitoring, etc.)
- 5 years guarantee

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Technical Specifications		
Manufacturer	GlobiLED	
Type of LED Chip	Philips Luxeon Rebel ES series	
Current per LED Chip	700 mA	
LED Chip Mean Forward Voltage	2.9V	
LED Chip Mean Luminus Flux @ 5650K	>235 lm (max 250.2 lm)	
Available Range of Mean Power	30-240 W	
Nominal Mean Luminous Efficiency @ 5650K	>115.76 lm/W (max 125.85 lm/W)	
Available Typical CCT and CRI	CCT	CRI
	5650K (Cool White)	>70
	4100K (Neutral White)	>65
	2725K	>90
	3045K	>95
	3465K	>85
	3985K	>85
	5028K	>85
Available Beam Angles	85° x 135°	
	140° x 140°	
	110° x 110°	
	60° x 60°	
LED Driver	Meanwell Dimmable LED Driver (PWM/DALI)	
LED Driver AC Input Voltage	90-305 VAC	
LED Driver Power Factor (PF)	>0.95	
Indicative LED Driver Efficiency	>93%	
LED Driver MTBF	>192.200 hours	
Cut-off power Micro Switch (upon request)	YES	
Wireless Controller (upon request)*	YES (Mfr: GlobiLED)	
Stand Alone Controller (upon request)*	YES (Mfr: GlobiLED)	
Mounting angle	-15° to +15° (adjustable)	
LED Street Light body material	Aluminum	
Painting method	Powder coating	
Color	Defined by the customer	

* The Controller includes also a function for the thermal protection of the LED Street Light. This function reduces the luminosity level of the LEDs in case the ambient temperature exceeds certain safety thresholds. These thresholds and the related safety luminosity levels are user-defined.

Life Span & Working - Storage Conditions	
Life-span	>50.000 hours
Working Temperature	-40 °C to 60 °C
Storage Temperature	-40 °C to 60 °C

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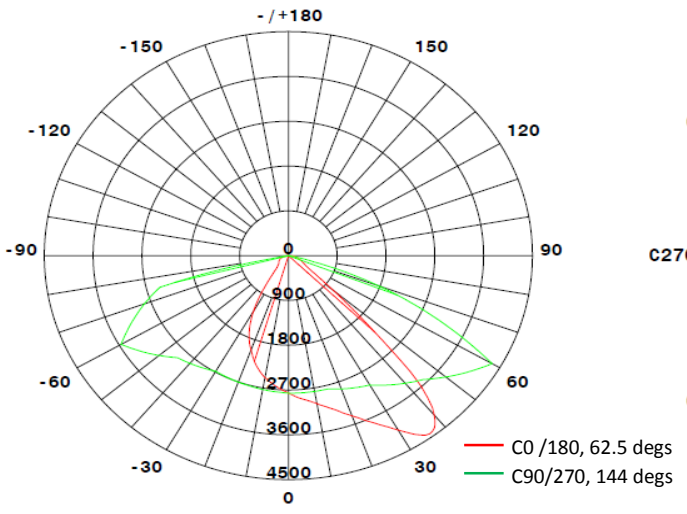
Directives & Certificates	Test Standards	
IP66	EN60529:1991+A2:2013	
RoHS Directive 20011/65/EC	IEC62321:2008	
Low Voltage Directive (LVD) 2006/95/EC	EN60598-2-3:2003+A1:2011, EN60598-1:2008+A11:2009, EN62031:2008+A1:2013, EN62493:2010	
EMC Directive 2004/108/EC	EN55015:2013, EN61000-3-3:2013, EN61000-3-2:2006+A1:2009+A2:2009	
	EN61547:2009	EN61000-4-2:2009
		EN61000-4-3:2006+A1:2008+A2:2010
		EN61000-4-4:2004+A1:2010
		EN61000-4-5:2006
		EN61000-4-6:2009
		EN61000-4-8:2010
		EN61000-4-11:2011
Photo biological safety certificate	EN62471 (for the LED Chips)	
ISO	ISO 9001:2008	

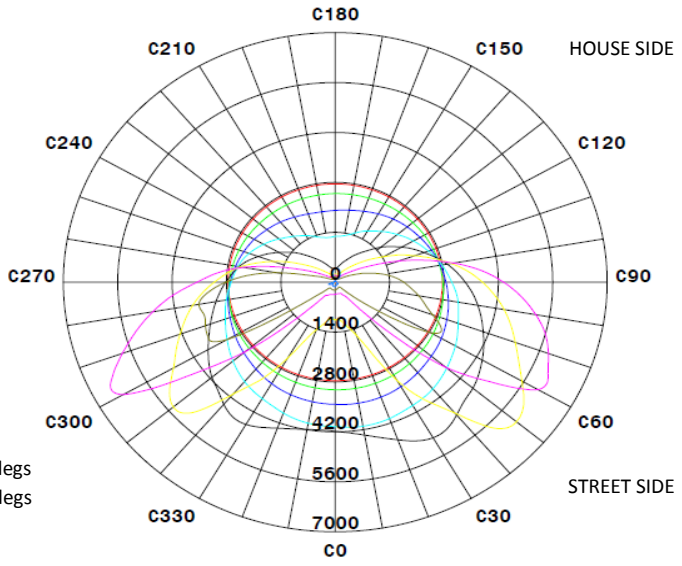
Goniophotometer (GO-2000) Intensity Diagrams - Indicative for GL-ST300-W090

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



Average Beam Angle (50%) = 103.3 degs

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



Max @ γ = 62.2 degs

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Construction Information

- Construction that allows the air-flow through the heat sinks of the LED modules, optimizing in this manner the heat management.
- Smooth and glossy surface that prevents debris build-up and minimizes the wind load.
- Modular construction that simplifies the assembly and maintenance procedures.
- Intra-module LED Chip connection that ensures full functionality of the remaining LED chips in case of failure of any LED Chip.
- Tool-free access to the LED driver compartment for easy maintenance.
- IP66 rating

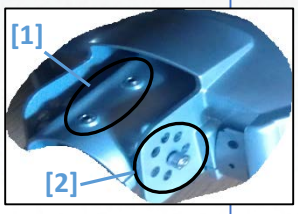
LED Optics Information

The optic lenses of GL-ST300-Wxxx series:

- Provide light uniformity
- Optimize the light distribution
- Eliminate the waste of light and increase the light efficiency of the luminaire

Installation & Safety Instructions

- Before installation, cut off the AC power from the mounting pole.
- Make sure that the mounting pole can burden the weight of the LED Street Light.
- During installation, be careful not to harm the LED Chips and the lenses of the LED Street Light through impact (e.g. with the mounting pole).
- During installation, first tighten properly the two pole-mounting screws of the LED Street Light [1]. Then adjust its elevation according to the lighting requirements and tighten properly the two relative screws [2].
- Make sure that the LED Street Light is not covered with anything that may prevent the air-flow through its heatsinks (e.g. tree leaves) and/or the lighting performance.
- During connection to the AC power, do not forget to connect also the Ground line.
- In case the LED Street Light includes a Wireless Controller:
  a. the 2.4GHz antenna shall be mounted on the lamp shell at the end the of the LED Street Light installation procedure,
  b. the initial programming and adjustments of the controller will be performed.



Maintenance Instructions

- Before de-installation for maintenance reasons, cut off the AC power from the mounting pole.
- During de-installation for maintenance reasons, be careful not to harm the LED Chips and the lenses of the LED Street Light through impact (e.g. with the mounting pole). In the same manner, be careful not to harm the 2.4GHz antenna, which is mounted on the shell of the LED Street Light, in case the latter includes a Wireless Controller.
- After de-installation, store the LED Street Light according to the temperature and humidity storage conditions.
- In case the LED Street Light includes a Wireless Controller, wireless fault diagnosis can be performed (LED Driver and/or Wireless Controller failure).

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