



GRS

Roadway Lighting

Product Features

The GRS Series LED Roadway Luminaire is optimized for customers requiring a LED solution for local, collector and major express roadways. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life. This reliable unit has a 50,000 hour design life, significantly reducing maintenance needs and expense over the life of the fixture. This efficient solution lowers energy consumption compared to traditional HID fixture for additional operating cost savings.

Specification

LED & Optical

- **Output Range:** 840-33600lm
- **Photometric Options:** Type II
- **System Efficacy:** 140-160LPW
- **CCT:** 3000K-5700K@70CRI

Electrical

- **Input voltage:** 120-277V_{AC}
- **Input Frequency:** 50/60Hz
- **Power Factor:** > 90%
- **THD:** < 20%.

Ratings

- **IP Rated:** IP66
- **EMI:** Class "A" Sound rating.
- **Surge protection:**
(Driver/Internal):
 - 6kV/3kA(Secondary/External):
 - 20kV/20kA
- **LM-79** testing in accordance with IESNA standard

Housing

- The modern design incorporates Casting-integral heatsink for maximum heat transfer.
- Die Cast Enclosure.

Construction & Finishing

- Die Cast housing with corrosion resistant polyester powder paint, Standard colors: Gray
- RAL & custom colors available.

Applications

- Local Roadway
- Collector Roadway
- Major Express Way

Suggested HID Replacement Lumen Level

- 4000 - 5000 lumens to replace 100W HPS Street Lantern
- 7000 - 8800 lumens to replace 150W HPS Street Lantern
- 11500 - 14000 lumens to replace 250W HPS Street Lantern
- 21000 - 42000 lumens to replace 400W HPS Street Lantern

Note: Actual replacement lumens may vary based upon mounting height, pol spacing, design criteria, etc.

Warranty

- **System Warranty:** 5 Year

Controls

- **Dimming:** Standard 0-10V
- **Sensors:** 7 wire Photo Electric Sensor (PE) available

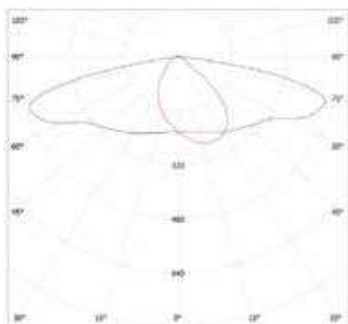


Order Logic

<u>GRS2</u>	<u>U</u>	<u>H1</u>	<u>C</u>	<u>120W</u>	<u>H</u>	<u>Z</u>	<u>G</u>	<u>R</u>
PROD.ID	Driver	Optic	CCT	WATTAGE	LPW	PE Socket	COLOR	SPD
GR=GE Roadway	U=120-227W (GE Brand Dimmable)	H7	CR=5700K	60	H=140LPW	7 = Ansi 7 pins c/w shorting cap	G=RAL9007	R=Secondary SPD device (Parallel connection)
S= Standard Hsg		H2	C=5000K	80	I=160LPW	3 = Ansi 3 pins w/o shorting cap	W=RAL8019	
#= Number of Module	V=120-227W (Inventonics Dimmable)		N=4000K	120		7s = Ansi 7 pins w/o shorting cap		R1=Secondary SPD device (Series connection)
			WB=3500K	150		N = without PE socket		
			W=3000K	180				

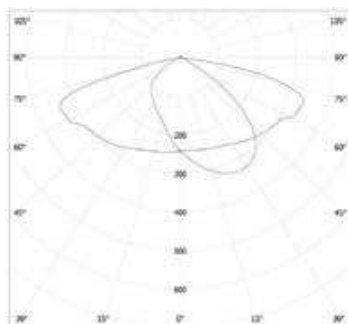
WATTAGE	# of MODULE	TYPICAL INITIAL LUMEN	LUMEN PER WATT
60	1	8400	140 LPW
80	2	11200	
120	2	16800	
150	3	21000	
180	3	25200	
240	4	33600	

Photometric



H2

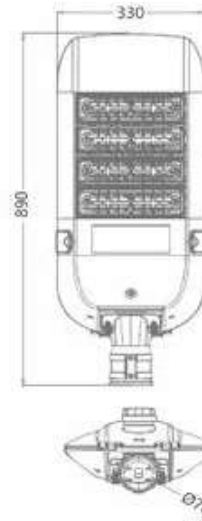
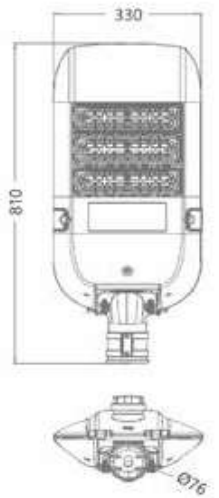
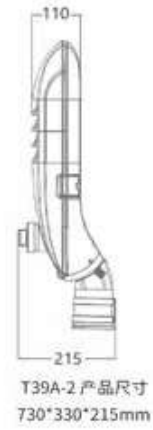
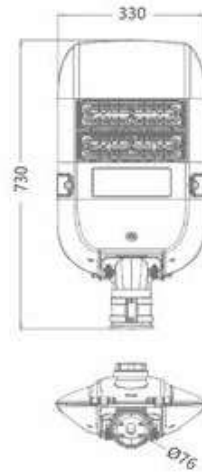
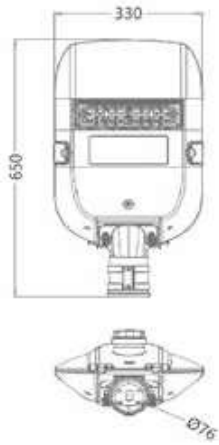
- Type II Distribution



H7

- Type II (Cut Off) Distribution

Product Dimension



Models	Dimension(mm)	Weight(kg)
1 / 2 module	650×330×215	7.2
3 Module	730×330×215	8.4
4 Module	810×330×215	9.6
5 Module	890×330×215	10.8