



GRM

Roadway Lighting

Product Features

The GRM 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.

LED & Optical

- **Output Range:** 7,500-33,600lm
- **Photometric Options:** Type II & Type III
- **System Efficacy:** Up to 140LPW
- **CCT:** 3000K-5700K@70CRI

Electrical

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

Ratings

- **IP Rated:** IP68 (LED Module) / IP66 Fixture
- **IK Rated:** IK08
- **Operation Temperature:** -40~50°C
- **Life Spend:** L70>50,000hrs@50°C
- **Surge protection:**
(Driver/Internal):
 - 10kV/5kA(Secondary/External):
 - 10kV/20kA

Construction & Finish

- **Housing:** Die-cast aluminum with corrosion resistant powder painted.
- **Lens:** Type II & Type III lens with secondary tempered glass.

Control

- **Dimming:** Standard 0-10V
- **Sensors:** Photo electric sensors (Optional)
- **Shorting Cap:** 7 pins (Optional)

Compliance Standards

- **Fixture:** IEC 60598-1, IEC 60598-2-3, IEC 62722-1, IEC 62471
- **Electromagnetic Compatibility:** EN 55015, EN 61000-3-2, EN 61547
- **Light Engine:** IES LM-79-08, IES TM21-11, IEC 62031



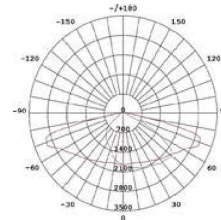
Order Logic

<u>GRM3</u>	<u>U</u>	<u>T3</u>	<u>C</u>	<u>120W</u>	<u>H</u>	<u>Z</u>	<u>G</u>	<u>R1</u>	-
PROD.ID	Driver	Optic	CCT	WATTAGE	LPW	PE SOCKET	COLOR	SPD	OPTION
GR=GE Roadway	U= GE Branded 120-277V (Dimmable)	T3	CR=5700K	60W	G= 120-130LPW	7 = ANSI 7 pins NEMA socket	G=Gray	R1= (single phase series connection, 10KV)	L-Alternative LED
M=Module	N= GE Branded 120-277V (Non Dimmable)	T5	N=4000K	100W	H=140LPW	3 = ANSI 3Pins NEMA socket	W=White	R3= (single phase series connection, 20KA)	L5-Alternative LED (LXN 5050)
#=Number of Module	V= Inventonics Branded 120-240V		WB=3500K	120W		0 = no NEMA socket			PS-Pole Sleeve
			W=3000K	180W					PE-Photocell
				240W					

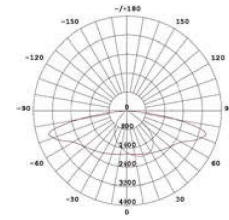
Dimension

Models	Dimension(mm)	Weight(kg)
GRM1-60W	395 x 180 x 155	2.7
GRM2-100W	465 x 220 x 155	3.9
GRM3-120W	495 x 340 x 175	5.1
GRM4-180W	570 x 340 x 175	5.8
GRM5-240W	655 x 340 x 175	6.7

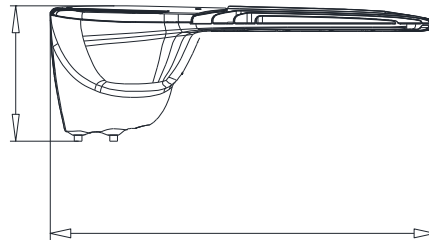
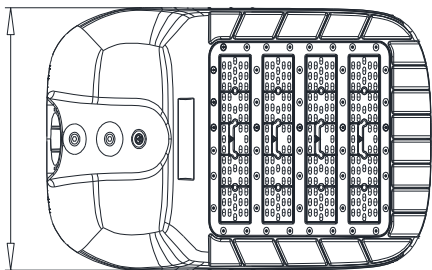
Photometric



GRMType III Distribution (T5)



GRMType II Distribution (T3)



Specification

SKU#	Description	Power (W)	CCT(K)	Typical Lumen Output	Beam Angle	Nema Based	SPD
34719	GRM1VT3N80WG0GR1L	60	4000	7,500	T3	N/A	10KV
34720	GRM2VT3N100WG0GR1L	100	4000	12,500	T3	N/A	10KV
34728	GRM3VT3N120WG0GR1L	120	4000	15,000	T3	N/A	10KV
35470	GRM4VT3N180WG0GR1L	180	4000	22,500	T3	N/A	10KV
35483	GRM5VT3N240WG0GR1L	240	4000	30,000	T3	N/A	10KV
35607	GRM1VT5N80WG0GR1L	60	4000	7,500	T5	N/A	10KV
35800	GRM2VT5N100WG0GR1L	100	4000	12,500	T5	N/A	10KV
36481	GRM3VT5N120WG0GR1L	120	4000	15,000	T5	N/A	10KV
36525	GRM4VT5N180WG0GR1L	180	4000	22,500	T5	N/A	10KV
36636	GRM5VT5N240WG0GR1L	240	4000	30,000	T5	N/A	10KV
36899	GRM1VT3CR60WG0GR1L	60	5700	7,500	T3	N/A	10KV
36902	GRM2VT3CR100WG0GR1L	100	5700	12,500	T3	N/A	10KV
36952	GRM3VT3CR120WG0GR1L	120	5700	15,000	T3	N/A	10KV
36963	GRM4VT3CR180WG0GR1L	180	5700	22,500	T3	N/A	10KV
37051	GRM5VT3CR240WG0GR1L	240	5700	30,000	T3	N/A	10KV
37083	GRM1VT5CR60WG0GR1L	60	5700	7,500	T5	N/A	10KV
37128	GRM2VT5CR100WG0GR1L	100	5700	12,500	T5	N/A	10KV
37129	GRM3VT5CR120WG0GR1L	120	5700	15,000	T5	N/A	10KV
37131	GRM4VT5CR180WG0GR1L	180	5700	22,500	T5	N/A	10KV
37342	GRM5VT5CR240WG0GR1L	240	5700	30,000	T5	N/A	10KV