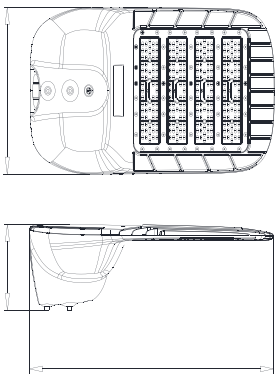
GRM

EVOLVE Roadway

Typical Specifications

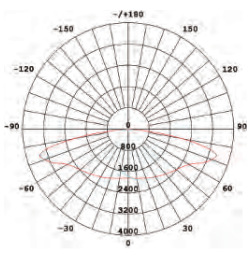
System Power	60W	100W	120W	180W	240W
Lumens	8400 lm Max.	14000 lm Max.	16800 lm Max.	25200 lm Max.	33600 lm Max.
System Efficacy	140 LPW Max.				
CCT	3000/3500/4000/5700K				
CRI	Ra≥70				
SDCM	≤5				
Beam Angle	Type II/Type III				
Input Voltage	120-277V				
Power Factor	≥0.9				
THD	≤20%				
Surge Protection	L-N 6KV,L/N-G 10KV				
Secondary SPD	10KV/20KV Optional				
Dimming	0-10V				
Control	3-Pin/7-Pin NEMA Socket Optional				
Protection	IP66/IK08				
Safety Class	Class I				
Housing Material	Die-casting Aluminum				
Working Temperature	-40~+50°C				
Rated Lifetime	50,000 hrs				
Mounting	Side-entry/Post-top (with adaptor)				
Pole Diameter	57-63mm				

Dimension

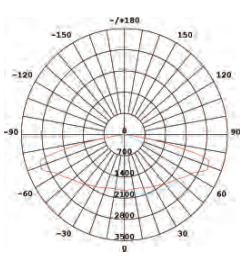


Power	Dimension	N.W.
60W	L395 x W180 x H235 mm	3.1 Kg
100W	L465 x W220 x H240 mm	4.0 Kg
120W	L495 x W340 x H260 mm	5.3 Kg
180W	L570 x W340 x H260 mm	6.0 Kg
240W	L655 x W340 x H260 mm	6.9 Kg

Photometric



Type II



Type III

Current

Order Logic

GRM	1	U	T3	C	30W	H	0	G	R1	L5
PROD. ID	Module Code	Voltage	Beam Angle	CCT	Power	Efficacy	NEMA Socket	Color	SPD	Options
GRM: GRM Roadway	1: Module A 2: Module B 3: Module C 4: Module D 5: Module E	U: 120-277V Dimmable N: 120-277V Non Dimmable V: 100-240V Dimmable	T3: Type II T5: Type III	W: 3000K WW: 3500K N: 4000K CR: 5700K	60W 100W 120W 180W 240W	G: 120-130LPW H: 140LPW	0: No NEMA Socket 3: 3-Pin NEMA Socket+ Shorting cap 7: 7-Pin NEMA Socket+Shorting cap	G: Gray B: Black	Default: No Secondary SPD R1: 10KV Secondary SPD R3: 20KV Secondary SPD	L-Alternative LED L5-Alternative LED PS-Pole Sleeve PE-Photocell

Order Description

Description	Power	Lumens	Efficacy	CCT	Beam Angle	Secondary SPD	NEMA Socket	QTY/CTN
GRM1VT3N040WG0GR1	40W	5000 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM1VT3N060WG0GR1	60W	7500 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM1VT3N080WG0GR1	80W	10000 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM2VT3N100WG0GR1	100W	12500 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM3VT3N120WG0GR1	120W	15000 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM4VT3N180WG0GR1	180W	22500 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM4VT3N200WG0GR1	200W	25000 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM5VT3N240WG0GR1	240W	30000 lm	125 LPW	4000K	Type II	10KV	N	1 pc
GRM1VT3CR040WG0GR1	40W	5000 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM1VT3CR060WG0GR1	60W	7500 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM1VT3CR080WG0GR1	80W	10000 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM2VT3CR100WG0GR1	100W	12500 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM3VT3CR120WG0GR1	120W	15000 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM4VT3CR180WG0GR1	180W	22500 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM4VT3CR200WG0GR1	200W	25000 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM5VT3CR240WG0GR1	240W	30000 lm	125 LPW	5700K	Type II	10KV	N	1 pc
GRM1VT3N040WH7GR1	40W	5000 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM1VT3N060WH7GR1	60W	7500 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM1VT3N080WH7GR1	80W	10000 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM2VT3N100WH7GR1	100W	12500 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM3VT3N120WH7GR1	120W	15000 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM4VT3N180WH7GR1	180W	22500 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM4VT3N200WH7GR1	200W	25000 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM5VT3N240WH7GR1	240W	30000 lm	140 LPW	4000K	Type II	10KV	7-Pin	1 pc
GRM1VT3CR040WH7GR1	40W	5000 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc
GRM1VT3CR060WH7GR1	60W	7500 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc
GRM1VT3CR080WH7GR1	80W	10000 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc
GRM2VT3CR100WH7GR1	100W	12500 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc
GRM3VT3CR120WH7GR1	120W	15000 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc
GRM4VT3CR180WH7GR1	180W	22500 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc
GRM4VT3CR200WH7GR1	200W	25000 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc
GRM5VT3CR240WH7GR1	240W	30000 lm	140 LPW	5700K	Type II	10KV	7-Pin	1 pc

The above is only including a part of product info. Please consult us if any further product info is needed.

Light, **Wherever You Are**

EVOLVE has you covered.

Solar lighting can be a lifesaver in remote areas that lack the needed infrastructure. Our world-class solutions provide up to 200 lm/W, to light up places the power grid cannot reach. Furthermore, Current has a professional team that is able to provide you with **Global Solar Energy Calculations (GSEC)** to help assess your design needs and ROI.

HIGH EFFICIENCY

Our solar technology is among the most stable, advanced and mature in the global market today, with an efficacy of up to 200 lm/W. This provides brighter illumination with lower power consumption, optimizing solar energy utilization and minimizing waste.

ePowerMax

ePowerEco

ePG-S

ePG-B

ePG-R

Current

DURABLE SOLAR PANELS

Our solutions come equipped with tough, high-efficiency Monocrystalline silicon solar panels. They have a **photoelectric conversion efficiency of 23%**, surpassing traditional solar panels by more than 30%. This exceptional energy capture ensures continuous lighting, even when the sky is cloudy. Built to last with resistance to weathering and corrosion, our solar panels have a **20 year lifespan**.

LONG LASTING BATTERIES

Our solar lights are powered by robust, high-capacity batteries, ensuring bright and uninterrupted illumination. We're committed to using **LiFePO4** batteries that meet global safety and performance standards, guaranteeing **unmatched reliability and longevity**. For example, in terms of charge cycles, **LiFePO4 batteries outperform** Ternary batteries **by more than 2x**.

INTELLIGENT LIGHTING

Integrated sensors and controllers enable light output optimization while balancing the need to harvest energy for nights and periods of low sunlight. **Lights can be dimmed, timed or activated by motion as needed or via customized programming using our MPPT Solar Controller**. There is also a hybrid power option that automatically to draw from the power grid whenever it is needed.

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

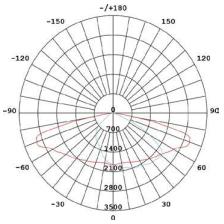
Order Logic

GRM3	U	T3	C	120W	H	7	G	R1	-
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					

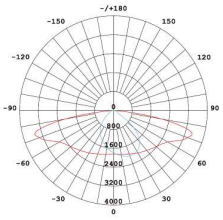
Dimension

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

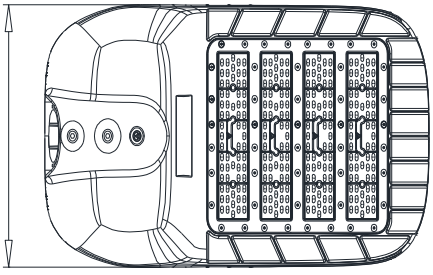
Photometric

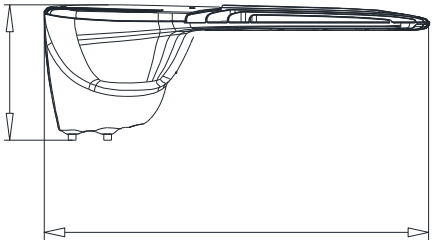


GRMType III Distribution (T5)



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