



## R350 Roadway Lighting



### Product Features

The R350 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.

## Product Features

The R350 Series a luminaire family in three sizes, an attractive design and modular technology.

### Durable Housing

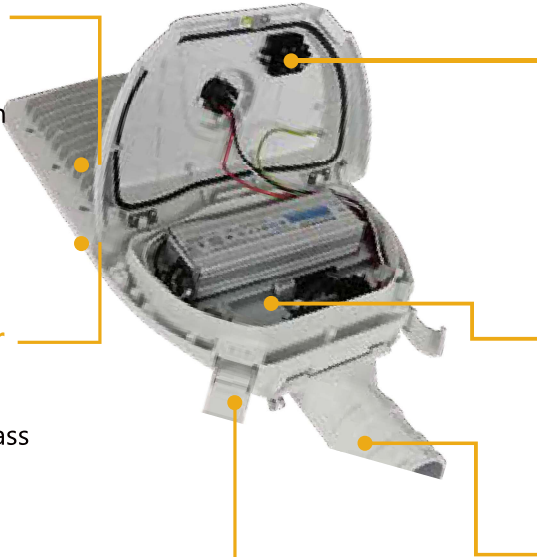
- Die-cast aluminum housing (IP66) with high impact resistance (IK08) for increase protection.

### Tempered Glass Cover

- IP68 light engine with secondary tempered glass lens for easy cleaning

### Toolless Top Opening

- Top cover can be opened without tools with quick access and ease of maintenance.



### Power Cutoff Switch (Optional)

- Power cutoff switch for ease of maintenance

### Toolless Access

- Tool free replacement of LED Driver gear tray.

### Mast Flanges

- Mast Flanges 48mm, 60mm, 76mm for post-top and side-entry mounting (-15°~15° tilting angle)



# Specification

## LED & Optical

- **Output Range:** 11,600-34,800lm
- **Photometric Options:** Type II & Type III
- **System Efficacy:** Up to 145LPW
- **CCT:** 3000K-5700K@70CRI

## Electrical

- **Input voltage:** 120-277V
- **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
- **Surge protection:**  
(Driver/Internal):
  - 10kV/5kA(Secondary/External):
  - 10kV/20kA

## Mounting

- The light distribution can be adapted to suit various street widths by adjusting the angle of inclination

## Construction & Finish

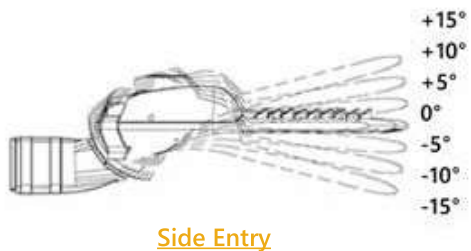
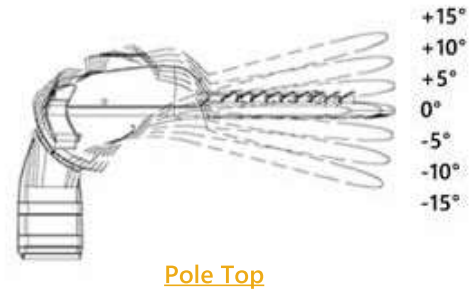
- **Housing:** Die-cast aluminum with corrosion resistant powder painted.
- **Lens:** Type II & Type III lens with secondary tempered glass.

## 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
- **Light Engine:** IES LM-79-08, IES TM21-11, IEC 62031
- **Vibration:** 3G per ANSI C136.31-2010 / IEC 60068-2-6



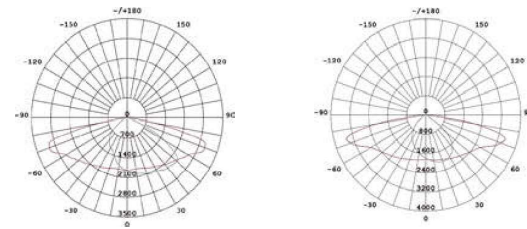
## Order Logic

<u>ERM3</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
E = Evolve	U= GE Branded 120-277V (Dimmable)	T3	CC=5700K	80W	H= 140LPW	7=ANSI 7 pins NEMA socket	G=Gray	R1= (single phase series connection, 10KV)	L- Alternative LED
R = Roadway	N= GE Branded 120-277V (Non Dimmable)	T4	N=4000K	100W		3=ANSI 3Pins NEMA socket	W=White	R3= (single phase series connection, 20KA)	L5- Alternative LED (LXN 5050)
M = Module	V= Inventonics Branded 120-240	T5	WW=3500K	120W		0=no NEMA socket			PS-Pole Sleeve
3 = 350			W=3000K	150W					PE-Photocell
				180W					
				200W					
				240W					

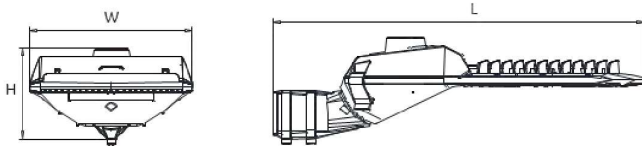
## Dimension

Models	Dimension(mm) (Side Entry)	Dimension(mm) (Post Top)	Weight(kg)
30-60W	570 x 240 x 180	475 x 240 x 280	5.8
80-120W	615 x 330 x 185	515 x 330 x 285	7.8
150-180W	680 x 330 x 185	580 x 330 x 285	9
200-240W	745 x 330 x 185	645 x 330 x 285	10

## Photometric



[R350 Type III Distribution \(T5\)](#) [R350 Type II Distribution \(T3\)](#)



## Specification

SKU#	Description	Power (W)	CCT	Typical Lumen Output	Beam Angle	Nema Based	SPD
25391	ERM3VT3WW80WH7GR3L5	80	3500	11,600	T3	Shorting Cap	20KA
25763	ERM3VT3WW100WH7GR3L5	100	3500	14,000	T3	Shorting Cap	20KA
25883	ERM3VT3WW120WH7GR3L5	120	3500	15,960	T3	Shorting Cap	20KA
27620	ERM3VT3WW150WH7GR3L5	150	3500	22,950	T3	Shorting Cap	20KA
29502	ERM3VT3WW180WH7GR3L5	180	3500	26,460	T3	Shorting Cap	20KA
29519	ERM3VT3WW200WH7GR3L5	200	3500	30,600	T3	Shorting Cap	20KA
29521	ERM3VT3WW240WH7GR3L5	240	3500	35,280	T3	Shorting Cap	20KA
29557	ERM3VT5WW80WH7GR3L5	80	3500	11,600	T5	Shorting Cap	20KA
29563	ERM3VT5WW100WH7GR3L5	100	3500	14,000	T5	Shorting Cap	20KA
29564	ERM3VT5WW120WH7GR3L5	120	3500	15,960	T5	Shorting Cap	20KA
29567	ERM3VT5WW150WH7GR3L5	150	3500	22,950	T5	Shorting Cap	20KA
29569	ERM3VT5WW180WH7GR3L5	180	3500	26,460	T5	Shorting Cap	20KA
29571	ERM3VT5WW200WH7GR3L5	200	3500	30,600	T5	Shorting Cap	20KA
29611	ERM3VT5WW240WH7GR3L5	240	3500	35,280	T5	Shorting Cap	20KA
32485	ERM3VT3N80WH0GR1L5	80	4000	11,600	T3	N/A	10KV
35353	ERM3VT3N100WH0GR1L5	100	4000	14,000	T3	N/A	10KV
35426	ERM3VT3N120WH0GR1L5	120	4000	15,960	T3	N/A	10KV
35431	ERM3VT3N150WH0GR1L5	150	4000	22,950	T3	N/A	10KV
35442	ERM3VT3N180WH0GR1L5	180	4000	26,460	T3	N/A	10KV
35445	ERM3VT3N200WH0GR1L5	200	4000	30,600	T3	N/A	10KV
35505	ERM3VT3N240WH0GR1L5	240	4000	35,280	T3	N/A	10KV
35606	ERM3VT5N80WH0GR1L5	80	4000	11,600	T5	N/A	10KV
35608	ERM3VT5N100WH0GR1L5	100	4000	14,000	T5	N/A	10KV
35609	ERM3VT5N120WH0GR1L5	120	4000	15,960	T5	N/A	10KV
36433	ERM3VT5N150WH0GR1L5	150	4000	22,950	T5	N/A	10KV
36443	ERM3VT5N180WH0GR1L5	180	4000	26,460	T5	N/A	10KV
37005	ERM3VT5N200WH0GR1L5	200	4000	30,600	T5	N/A	10KV
37488	ERM3VT5N240WH0GR1L5	240	4000	35,280	T5	N/A	10KV
37627	ERM3VT3CC80WH0GR1L5	80	5700	11,600	T3	N/A	10KV
37734	ERM3VT3CC100WH0GR1L5	100	5700	14,000	T3	N/A	10KV
39157	ERM3VT3CC120WH0GR1L5	120	5700	15,960	T3	N/A	10KV
39190	ERM3VT3CC150WH0GR1L5	150	5700	22,950	T3	N/A	10KV
39450	ERM3VT3CC180WH0GR1L5	180	5700	26,460	T3	N/A	10KV
39537	ERM3VT3CC200WH0GR1L5	200	5700	30,600	T3	N/A	10KV
39539	ERM3VT3CC240WH0GR1L5	240	5700	35,280	T3	N/A	10KV
39546	ERM3VT5CC80WH0GR1L5	80	5700	11,600	T5	N/A	10KV
39550	ERM3VT5CC100WH0GR1L5	100	5700	14,000	T5	N/A	10KV
39992	ERM3VT5CC120WH0GR1L5	120	5700	15,960	T5	N/A	10KV
39994	ERM3VT5CC150WH0GR1L5	150	5700	22,950	T5	N/A	10KV
39998	ERM3VT5CC180WH0GR1L5	180	5700	26,460	T5	N/A	10KV
40109	ERM3VT5CC200WH0GR1L5	200	5700	30,600	T5	N/A	10KV
40125	ERM3VT5CC240WH7GR1L5	240	5700	35,280	T5	N/A	10KV