

# LED PERMiA™ Street Light

## Ordering Example

<b>Housing Number and Type of LEDs</b> PA1-20H PA1-40H PA2-40H PA2-60H PA2-80H PA2-100H PA2-120H PA3-80H PA3-100H PA3-120H PA3-140H PA3-160H PA3-180H PA3-200H PA3-220H PA3-240H	<b>Voltage</b> MV - 120 -277V EV - 220 -240V	<b>Nominal Color Temperature<sup>1</sup></b> CW – 5700K NW – 4300K WW – 3000K	<b>Light Distribution</b> C1 N1 N2 M1 M2 W1	<b>Finish<sup>2</sup></b> GY – Gray DB – Dark Bronze WH – White BK – Black IG – Iron Grey	<b>Driving Current<sup>3</sup></b> 350 - 350mA 530 - 530mA 700 - 700mA
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Notes:  
 1. NW standard. Consult factory for other color temperatures.  
 2. Gray standard. Consult factory for other finishes.  
 3. Specified factory set drive current.



## Luminaire Specifications

**Housing:** Die cast aluminum housing with universal four-bolt spigot mounts to 48~60mm(O.D.) mast arm. All hardware is stainless steel. Internal cooling channels maintain LED junction temperature assuring long LED life and efficiency. Electrical components are accessed without tools and mounted on removable power door features quick electrical disconnects to terminal block and LED board. Also easy for future upgrade.

**Light Emitting Diodes:** Hi-flux/Hi-power white LEDs produce a minimum of 95% of initial intensity at 100,000 hours of life. LEDs are tested in accordance with IES LM-80 testing procedures. They have a mean correlated color temperature of 4300K (standard). LEDs are 100% mercury and lead free.

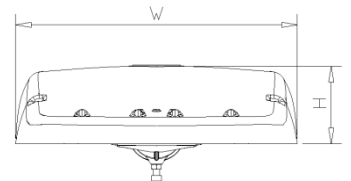
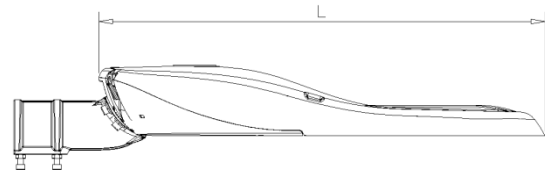
**Optical Systems:** Micro-lens systems produce appropriate light distributions suitable for most of road conditions.

**Electrical:** Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD).

**Finish:** Cast housing components receive a fade and abrasion resistant, epoxy polyester powder coat, light gray finish standard.

**IP Ratings/Warranties/Patents:** Luminaires are whole fixture maintain an IP66 rating. Ten-year limited warranty is standard on all components. Patents pending.

**Photometry:** All luminaires are photometrically tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.



### Dimensions

Unit:mm[inch]

	PA1	PA2	PA3
L	550[21.7]	675[26.6]	915[36.0]
W	300[11.8]	380[15.0]	380[15.0]
H	105[4.1]	105[4.1]	105[4.1]

Series	Weight (kg)
PA1	7
PA2	10
PA3	15

## Luminaire Data

Series	Model	Nominal CCT(K)	Typical Lumens <sup>1</sup>	Nominal Voltage(V)	Power Consumption(W)
PA1	PA1-20H-MV-NW-N2-GY-350	4300	2300	120~277V 50/60Hz	24
PA1	PA1-20H-MV-NW-N2-GY-530	4300	3300	120~277V 50/60Hz	35
PA1	PA1-20H-MV-NW-N2-GY-700	4300	4100	120~277V 50/60Hz	46
PA1	PA1-40H-MV-NW-N2-GY-350	4300	4700	120~277V 50/60Hz	44
PA1	PA1-40H-EV-NW-N2-GY-530	4300	6600	120~277V 50/60Hz	66
PA2	PA2-40H-EV-NW-N2-GY-700	4300	8300	120~277V 50/60Hz	89
PA2	PA2-60H-EV-NW-N2-GY-350	4300	7000	120~277V 50/60Hz	65
PA2	PA2-60H-EV-NW-N2-GY-530	4300	10100	120~277V 50/60Hz	101
PA2	PA2-60H-EV-NW-N2-GY-700	4300	12500	120~277V 50/60Hz	136
PA2	PA2-80H-EV-NW-N2-GY-350	4300	9400	120~277V 50/60Hz	87
PA2	PA2-80H-EV-NW-N2-GY-530	4300	13400	120~277V 50/60Hz	132
PA2	PA2-100H-EV-NW-N2-GY-350	4300	11800	120~277V 50/60Hz	107
PA2	PA2-120H-EV-NW-N2-GY-350	4300	14100	120~277V 50/60Hz	128
PA3	PA3-80H-EV-NW-N2-GY-700	4300	16800	220~240V 50/60Hz	179
PA3	PA3-100H-EV-NW-N2-GY-530	4300	16700	220~240V 50/60Hz	164
PA3	PA3-100H-EV-NW-N2-GY-700	4300	21000	220~240V 50/60Hz	223
PA3	PA3-120H-EV-NW-N2-GY-530	4300	20200	220~240V 50/60Hz	199
PA3	PA3-120H-EV-NW-N2-GY-700	4300	25100	220~240V 50/60Hz	266
PA3	PA3-140H-EV-NW-N2-GY-350	4300	16600	220~240V 50/60Hz	146
PA3	PA3-140H-EV-NW-N2-GY-530	4300	23500	220~240V 50/60Hz	230
PA3	PA3-160H-EV-NW-N2-GY-350	4300	19000	220~240V 50/60Hz	172
PA3	PA3-160H-EV-NW-N2-GY-530	4300	26900	220~240V 50/60Hz	260
PA3	PA3-180H-EV-NW-N2-GY-350	4300	21400	220~240V 50/60Hz	196
PA3	PA3-200H-EV-NW-N2-GY-350	4300	23700	220~240V 50/60Hz	214
PA3	PA3-220H-EV-NW-N2-GY-350	4300	26000	220~240V 50/60Hz	238
PA3	PA3-240H-EV-NW-N2-GY-350	4300	28400	220~240V 50/60Hz	255

### Notes:

1. Typical luminous flux. Actual lumens may vary with distribution type. For actual IES files or LM-79 reports, consult your local Leotek representative.