

## Lamp Data

### Important considerations when choosing the proper lamp

Emergency Lighting is required to provide illumination for a minimum of 90 minutes or an hour and a half during an emergency situation. Emergency Lighting lamps powered from a DC battery source must be powered by a battery that has the capacity to power all the lamps using that battery source for a minimum of 90 minutes. It is important to choose the correct lumen output lamp to meet the required illumination at the floor level on a path of egress. It is equally important to match the lamp and the battery voltages. If you do not have a battery that is the same voltage as the lamp and with enough wattage capacity to illuminate all the lamps, then the lamps will not provide adequate lumen output for 90 minutes to meet the required illumination at floor level along the path of egress.

First, match voltage. The voltage of the lamp **MUST** exactly match the voltage of the battery powering that lamp. If the voltage of the battery is lower than the voltage of the lamp, the lamp may not illuminate. If the voltage of the battery is higher than the voltage of the lamp, the lamp may “pop”.

Second, consider total wattage. The wattage of each individual lamp drawing from a battery during emergency operation, including the lamps mounted on the unit as well as all remote lamps wired to that unit, added together, **CAN NOT EXCEED** the total wattage capacity of that battery within 90 minutes of operation. A unit's battery wattage capacities are shown in the Unit Rating Chart of each particular unit.

Available lamp types are shown on the Lamp Selection Chart on the catalog page for each head style or fixture type. Lamp Selection Chart information refers to a single lamp. If you are using a double or triple lamp type head or fixture, the wattage draw of that head or fixture will be the total number of lamps used. For example, if you are using a double lamp fixture with a 12W lamp, that fixture will have a 24W draw (two lamps of 12W each, 12W + 12W = 24W total).

Lamp Type	Part number	Lamp suffix	Voltage	Watts	Average lumen	Total candle power (CP)	Lamp #	Bulb type
MR16 LED Lamps 	580.0097-L	LD1	6	4	199	600	24	MR16
	580.0093-L	LD7	12	4	222	440	30	MR16
	580.0104-L	LD9	12	5	340	900	24	MR16
	580.0106-L	LD10	12	6	540	1800	25	MR16
	580.0098-L	LD13	24	4	223	900	24	MR16
	580.0100-L	LD14	24	6	590	1939	24	MR16
	580.0095-L	LD25	120	4	200	900	24	MR16