

## Outdoor Festival Improves Safety, Security, Illumination, Energy Efficiency, and Sustainability Using eLumigen A19 Rough Service 120-277V LED Lamps



- Non-profit Italian-American charitable organization
- Outdoor Cultural Festival, in Lawrence, MA, since 1923.
- History of breaking 25W incandescent lamps
- Inefficient, unsafe, uneven illumination, high maintenance, energy wasting

### The eLumigen Award-Winning A19 Rough Service A19 120-277V LED Lamps

- Eliminated all lamp breakage
- Reduced light string lamp replacements
- Improved safety by eliminating broken glass
- Reduced energy costs by 50%
- More even illumination with higher brightness
- Reduced carbon footprint



Before
25W Incandescent lamps
524 lamps with frequent breakage
Energy wasting
Hazardous broken glass
1,000 hour rated lamp life
Annual relamping for end of life or breakage

After
12.5W LED lamps
524 lamps replaced with zero breakage
50% energy reduction
Improved safety and even illumination
25,000 hour rated lamp life
Eliminated annual relamping
Wet-location listed, Shatter-resistant to 20G force
Reduced impact of rising electric rates

### After the 2022 festival, the superiority of the eLumigen A19 Rough Service 120-277V LED Lamps was obvious:

- **More light** going from 25W incandescent to 100W-equivalent LED using only 12.5W. Using only half the wattage created 8 times the light output!
- **Reduction in labor** through eliminating annual lamp replacements and maintenance.
- **Improved safety** by eliminating broken lamp glass.
- **More even illumination** by increasing lamp life 25 fold, from 1,000 hours to 25,000 hours, dead lamps with dark spots were eliminated. 8 times the light output.
- **Reduced energy costs** by \$100 per lamp over the life of the lamps. All 524 lamps will save \$52,400 over the lamps' lives. Local electricity rates recently jumped from \$0.13/kwh to \$0.32/kwh.
- **Energy savings** of 50% per lamp, and a wattage reduction of 6,550 watts across all 524 lamps.

**"The investment in the eLumigen A19 lamps saved us from having to keep buying replacements and helped our safety."**

—Chuck Fucca, Committee Head



# Three Saints Inc. Festival Outdoor Lighting Case Study

## eLumigen Rough Service 120-277V 100W A19 Lamps

Ideal for rough service applications benefiting from universal voltage lamps, the 120-277V 100W A19 Lamps are engineered for high efficiency, vibration-resistance, shatter-resistance, elevated heat environments, and wet location.

These 100W-equivalent LED lamps help reduce energy costs, labor costs, and the headaches of frequent lamp changes in tough applications. eLumigen employs a unique 21-point validation process that goes above and beyond industry standards.

These lamps have been tested to survive levels of vibration exceeding 20G forces. Our unique temperature foldback design improves both safety and thermal management of our lamps. Lamp diffusers are constructed of an advanced polycarbonate material that will not shatter. Our 5-year warranty is unmatched in the industry, for rough service lighting.



### APPLICATIONS

- Construction Sites
- Caged Work Lights
- Industrial Signs
- Auto/Workshops
- Food Service
- Amusement Parks
- Tunnels and Bridges
- Boiler Rooms
- Livestock (Poultry & Cattle)
- Fully Enclosed Fixtures
- Recreational/Gym
- Marinas

### PHYSICAL

- Shape & Size:**  
A19
- Base Type:**  
E26
- Operating Temperature:**  
-40°F to 120°F  
-40°C to 48°C
- Rated Life (L70):**  
25,000 Hours

### ELECTRICAL

- Power Factor:**  
≥0.90
- Input Voltage:**  
120-277V
- Non-Dimmable**

### CERTIFICATION

- Environment:**
  - Suitable for Wet, Damp, & Dry locations
  - Enclosed fixtures rated
- Warranty:**
  - 5 Year Limited

Model Number	Lumen	Watts	CCT (K)	Efficiency (lm/W)	Beam Angle	Dimmable	Input Voltage	CRI	Equivalent Watts	Case Pack Quantity
RA19L1600C40-2C	1600	12.5	4000K	128	OMNI	No	120-277VAC	82	100W	12
RA19L1600C50-2C	1600	12.5	5000K	128	OMNI	No	120-277VAC	82	100W	12

