



LED Lighting Brief

Albany Medical Center, New Garage Construction



Achieving \$1M in electric and maintenance savings over 10 years from LED Garage Fixtures

Garage Lighting Design Alternatives

Rapid Payback from LED Garage Lighting

Albany Medical Center is a large regional hospital located in Albany, New York. It serves a 25 county region, has 651 beds, over 32,000 admissions, and 70,000 emergency room visits per year, and 527,000 outpatient visits each year. The medical center has been constantly expanding over the past decade with increasing pressures on the facilities. In 2010, a new parking garage was opened to service staff, visitors, and an increasing number of outpatients.

An analysis was conducted to compare lighting options for the new parking garage. Two options were considered; LED luminaries from IntenCity and traditional metal halide light fixtures. The IntenCity LED luminaries presented a compelling economic case with a payback in less than nine months. The LED lighting system for the garage was calculated to have a total cost of ownership that is over \$480,000 less than traditional metal halide lights and a \$1 million savings over 10 years in operational and electric costs.

IntenCity Lighting Solution

Area	Fixtures Used	Watts	Quantity	Total Watts
Drive Isles	SL-50 LED Garage Light	80 watts	325	26,000
Stairwell & Exits	WP-14 LED Wall Packs	30 watts	59	1,770
Roof	SL-50 2x LED Parking Lot Lights	100 watts	16	1,600
Perimeter	WP-45 LED Wall Packs	80 watts	17	1,360
		Electric Cost Per Year:	\$22,958	Total Watts: 30,730

Traditional Metal Halide Fixture Option

Area	Fixtures Used	Watts	Quantity	Total Watts
Drive Isles	MH Garage Lights*	165 watts	660	108,900
Stairwell & Exits	MH Wall Packs*	110 watts	59	6,490
Roof	MH Parking Lot Lights*	275 watts	16	4,400
Perimeter	MH Wall Packs*	440 watts	17	7,480
		Electric Cost Per Year:	\$98,392	Total Watts: 127,270

* Including ballast watts

IntenCity Lighting Project Brief

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GL-50 LED Garage Fixture



WP-14 & WP-45 LED Wall Pack Fixture



SL-50 LED Parking Lot/ Roof Fixture

Albany Medical Center Gains:

- The patented IntenCity LED garage light's highly directional optical design requires only 325 fixtures to light the garage, instead of 660 metal halide light fixtures for the main drive isles.
- The LED garage lighting system from IntenCity uses 30,730 watts, compared to the metal halide lighting system's 96,540 installed watts. The LED garage installation solution was designed to exceed Illuminating Engineering Society's (IES) recommendations, with low contrast ratios, thus improving visibility and enhancing security.
- Energy savings from the LED Garage Lighting System are projected at over \$75,000 per year.
- The LED garage lighting system will prevent over one-half ton of carbon dioxide emissions from being released into the atmosphere.
- Over a 10 year period, the LED garage lighting system is expected to cost \$1,014,341 less in electric and maintenance costs.

Engineering and Efficiency: Putting Light Where it is Needed

IntenCity designs its LED garage lighting to efficiently use light where it is needed, while using the least amount of energy possible. We closely follow IES best practices to put just the right amount of light to use in our garage and parking facilities. Our fixtures are designed to meet contrast ratios of 10:1, while using the lowest possible power densities possible. We achieve this efficiency by engineering the optical systems to spread the light as far as possible into the space that needs to be illuminated. We don't waste light.

Unlike traditional lighting systems such as, High Pressure Sodium, Metal Halide, or Fluorescent fixtures, we create lighting systems with improved optics, that don't spill light and watts into areas where it is not needed. By spreading light to where it is not needed, traditional fixtures suffer from poor uniformity, over-lighting of spaces, and most importantly inefficient designs.

Innovation and Best Practices in Outdoor LED Lighting

IntenCity Lighting innovates by breaking the traditional poor practices of the past. We accomplish this by designing our lighting solutions for effectiveness, economics and efficiency along with a long service life to our fixtures. We listen to our customers and build their feedback into our engineered products. We deliver competitively priced, high quality LED fixtures that saves our customers many \$10,000s per year in energy costs while lowering other maintenance costs.

To start obtaining these energy savings and improve the quality of the lighting in your parking garage facility or parking lots, contact us at (518) 291-9446 for a design consultation.



Contact Information:

Phone: 1.518.291.9446
Fax: 1.518.793.0897
eMail: info@IntenCityLighting.com
Web: www.IntenCityLighting.com

**Efficient, economical, highly
engineered light fixtures saving
our customer's energy**