



**Saving more than \$54,000 per year in energy costs over traditional lighting fixtures.**

### Garage Lighting Design Alternatives

#### Efficient and Economical LED Lighting

Berkshire Medical Center located in Pittsfield, MA. Is a community health center with 302 beds. In their new garage construction project they extensively researched LED lighting products, seeking an efficient and economical solution, while at the same time trying to achieve the greenest solution possible. They examined three design alternatives; two types of LED lighting systems, and compared these systems to traditional Metal Halide fixtures.

The parking garage is a four floor structure, with a roof parking deck. It is operations 24 hours per day and 365 days per year. At a relatively expensive 16 cents per kilowatt hour cost, IntenCity LED Lighting fixtures provided a superior lighting system solution, at the lowest operating cost. The estimated savings are over \$54,000 per year verses the metal halide fixtures, and a savings of over \$27,000 per year for an alternative LED garage lighting system.

IntenCity Lighting Solution				
Area	Fixtures Used	Watts	Quantity	Total Watts
Drive Isles	SL-50 LED Garage Light	80 watts	96	7,680
Stairwell & Exits	WP-14 LED Wall Packs	30 watts	58	1,740
Roof	SL-50 LED Parking Lot Lights	80 watts	9	720
Perimeter	WP-45 LED Wall Packs	80 watts	12	960
<b>Electric Cost Per Year:</b>		<b>\$15,558</b>	<b>Total Watts:</b>	<b>11,100</b>

Alternative LED Fixtures				
Area	Fixtures Used	Watts	Quantity	Total Watts
Drive Isles	LED Garage Fixture	120 watts	210	25,200
Stairwell & Exits	LED Exit Packs	50 watts	62	1,740
Roof	LED Parking Lot Lights	100 watts	13	1,300
Perimeter	LED Wall Packs	80 watts	12	960
<b>Electric Cost Per Year:</b>		<b>\$42,833</b>	<b>Total Watts:</b>	<b>30,560</b>

Traditional Metal Halide Fixture Option				
Area	Fixtures Used	Watts	Quantity	Total Watts
Drive Isles	MH Garage Lights*	160 watts	225	36,000
Stairwell & Exits	MH Wall Packs*	100 watts	62	6,200
Roof	MH Parking Lot Lights*	440 watts	13	5,720
Perimeter	MH Wall Packs*	175 watts	12	2,100
<b>Electric Cost Per Year:</b>		<b>\$70,108</b>	<b>Total Watts:</b>	<b>50,020</b>

\* Including ballast watts

# IntenCity Lighting Project Brief

## Berkshire Medical Center , New Garage Construction



GL-50 LED Garage Fixture



WP-14 & WP-45 LED Wall Pack Fixture



SL-50 LED Parking Lot/ Roof Fixture

### Berkshire Medical Center Gains:

- Savings of over \$54,000 per year over traditional Metal Halide fixtures by installing the IntenCity LED garage lighting system.
- Economical use of light and watts by deploying highly engineered optics in IntenCity LED Garage Light, Wall Packs, and Parking Lot Lights fixtures.
- Lower fixture counts – Uses one fixture down the center aisle instead of placing two over the parking locations.
- Highly uniform lighting with low contrast ratios improving visibility, and enhancing security.
- An installation following best practices exceeding Illuminating Engineering Society (IES) recommendations with low wattage, high efficiency LED Fixtures

### 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.



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