

# XPG3 LED Parking Garage Fixture



## Marketing Positioning Statement

The XPG3 LED Parking Garage Fixture is the state-of-the-art LED solution designed to provide “just enough” light for your enclosed or non-enclosed parking structures for both retrofit or new construction. Utilizing LSI’s proprietary SmartTec control technology, this fixture provides several energy saving features as well as product life improvement through automatic thermal control.

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## Leading Selling Features

- ☐ SmartTec™ Control Technology – “Industry First”
  - ☐ Low Total Cost of Ownership – Quick Payback
  - ☐ Outstanding Uniformity & Visual Comfort
  - ☐ Leading Selection of Light Output Options
  - ☐ Unparalleled Speed & Ease of Installation
  - ☐ Exceptional Reliability in a Parking Garage Fixture
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# SmartTec Control Technology - "Industry First"



## Thermal Management

LSI proprietary SmartTec heat dissipation system  
 Fixture temperature lowered automatically when needed in imperceptible 5% increments until safe operating temperature is reached  
 Sensors in both the optical unit and driver initiate temperature correction  
 Finless heat sink design to more effectively dissipate heat over time  
 Increases lifespan of fixture due to control of potential overheating

## Integral Motion Sensor (IMS)

Dims at 30% of maximum drive current

## Dimming (DIM)

0-10V Dimming enabled with controls by others

## Bi-Level Switching (BLS)

Low light level reduced to 30% of maximum drive current via controls by others

## Low Total Cost of Ownership – Quick Payback



## Annual Energy & Maintenance Savings

\$17,070 savings for (100) XPG3 50 LED fixtures (350mA) replacing (100) 150W MH  
 \$16,105 savings for (100) XPG3 50 LED fixtures (550mA) replacing (100) 175W MH  
 \$15,405 savings for (100) XPG3 68 LED fixtures (450mA) replacing (100) 175W MH

## Payback Analysis

ROI of 2.26 years for 50 LED (350mA)  
 ROI of 2.39 years for 50 LED (550mA)  
 ROI of 3.15 years for 68 LED (450mA)  
 Based upon 24 hour daily operation @ \$.10kWh

## Outstanding Uniformity & Visual Comfort

## Clear Flat Tempered Glass Lens

Superior performance & value through sealed lens, precision reflectors and industry's best LEDs  
 5 times more impact resistant than standard glass

## Lumen Output

Wide range of lumen outputs available through varying LED quantities, reflector types and drive currents

Range of 4245 to 10712 lumens available

Provides a wide choice for customer's specific requirements

LIGHT OUTPUT - XPG3					
		# of LEDs	Lumens (Nominal)		Watts
			Type 5	Type S	
Cool White	350 mA	50	4718	6187	56
		68	5814	7512	75
	450 mA	50	5743	7606	73
		68	7082	9580	98
	550 mA	50	6656	8952	90
		68	8397	10712	125
Neutral White	350 mA	50	4245	5998	56
		68	5695	7051	75
	450 mA	50	5137	7313	73
		68	6919	8584	98
	550 mA	50	5950	8456	90
		68	7875	9880	125

## Diffused Lens Option

Reduces visibility of diodes

## Low Glare Light Output

Dual purpose reflector blades redirect light out of viewing angles  
 Eliminates glare in driver's/pedestrian's eyes  
 Improves safety due to reduction of that glare

## Leading Selection of Light Output Options

### Multitude of Distribution Patterns

Standard Type 5 or Symmetrical patterns for typical layouts  
By increasing drive current from 350mA to 450mA or 550mA, light distribution patterns are enhanced  
Meets IES RP-20 with required mounting heights/fixture spacing  
Application department staff available to determine best distribution pattern  
LM79 and LM80 reports available

### 50 or 68 LED array choices

Provides a choice of using less energy or more light output  
Can mix and match arrays throughout parking facility

### Color Rendering Index

CRI of 70 facilitates recognition of automobile colors  
Meets industry standards

### Color Temperatures

Available in cool white 5300K or neutral white 4100K  
Cool white for a cooler, crisper color temperature  
Neutral white for a warmer color temperature

### Temperature Range

-40°C to +50°C (-40°F to 122°F)  
Life expectancy remains constant throughout the rated range

### Three Drive Currents

350mA, 450mA and 550mA available  
Higher drive currents can be utilized to drive for greater lumen output

### Input Voltage

120V thru 277V are standard in U. S. markets - 347V and 480V also available  
Compatible voltage solutions for domestic and international requirements

## Unparalleled Speed & Ease of Installation

### Mounting

Opening of unit is not required for installation  
Two standard mounting solutions – direct or pendant  
Designed for mounting to industry standard 4" octagonal boxes  
Slotted keyhole mounting plate allows adjustability in fixture alignment



### Quick-mount feature

Hands-free installation  
Typical 66% installation labor savings – only 1 installer required



### Maintenance-Free

Once installed, the XPG3 is virtually maintenance free

### Low-profile design

Sleeker look than traditional parking garage fixture styling  
Direct mounting utilizes just 8" of depth

# Exceptional Reliability in a Parking Garage Fixture

<b>Housing</b>	Die-formed aluminum withstands extreme temperature changes Vandal resistance via tempered glass lens and usage of EPDM and silicone rubber seals
<b>Polycarbonate Shield</b>	Accessory provides additional protection in vandal prone areas
<b>Gasketing</b>	Luminaire assembly permanently sealed with robotically applied polyurethane Eight (8) fasteners with integral EPDM sealing washers Overall uniform compression of polyurethane, sealing housing and lens frame subassemblies All other external seals for additional fasteners, options, etc. are EPDM rubber or silicone Provides robustness to pressure and temperature changes, environmental, aging and UV resistance Redundant seals used for additional protection of luminaire
<b>Finish/Colors</b>	LSI's DuraGrip <sup>®</sup> polyester powder coat - resists corrosion and is scratch and ding resistant Withstands extreme weather conditions without cracking/peeling Excellent durability and resistance to ultraviolet rays
<b>Long-life</b>	Up to 100,000 hours of expected life equates to 11.4 years when burning 24/7 3X expected life of linear fluorescent and 5X that of HID Virtually maintenance free, once installed
<b>Protection</b>	IP67 on optical unit provides total dust ingress protection, temporary liquid submersion protection
<b>Surge Protector</b>	Meets IEEE C62.41.2, Scenario 1, location category C Prevents damage to fixture due to unexpected "surge" or "swell" in AC Line Voltage
<b>Pressure Stabilizing Vent/Breather</b>	Equalizes pressure in fixture optical unit preventing pressure buildup due to ambient temperature changes, protecting gaskets and seals over the life of the fixture
<b>Warranty</b>	Limited 5-year warranty
<b>Battery Backup</b>	Runs 10 LEDs for 90 minutes should a power failure occur 15-20% of original light output maintained Exceeds NFPA code regarding necessary light in the event of fire/smoke in most mounting areas
<b>DLC</b>	Selected versions of this product are on the DLC Qualified Products List (QPL) Consult the LSI website or the DLC QPL website at <a href="http://www.designlights.org">www.designlights.org</a> for specific products listed.

## Recommended Applications

