

XPG3 LED Parking Garage Fixture



Crossover[®]
GENERATION 3

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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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.

LSI Industries[™]
American Innovation Through Technology
A SmartVision[®] for the Future

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)		
			Type 5	Type S	Watts
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



American Made

All products designed and manufactured in the U. S.

Housing

Die-formed aluminum withstands extreme temperature changes
Vandal resistance via tempered glass lens and usage of EPDM and silicone rubber seals

Polycarbonate Shield

Accessory provides additional protection in vandal prone areas

Gasketing

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

Finish/Colors

LSI's DuraGrip® 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

Long-life

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

Protection

IP67 on optical unit provides total dust ingress protection, temporary liquid submersion protection

Surge Protector

Meets IEEE C62.41.2, Scenario 1, location category C
Prevents damage to fixture due to unexpected "surge" or "swell" in AC Line Voltage

Pressure Stabilizing Vent/Breather

Equalizes pressure in fixture optical unit preventing pressure buildup due to ambient temperature changes, protecting gaskets and seals over the life of the fixture

Warranty

Limited 5-year warranty

Battery Backup

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

Recommended Applications

