



# LUMEN INSIGHTS®

2012 1 / 2

2 Zhaga

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4 OLED



## LightSmart

UL LightSmart

UL LightSmart

LightSmart

2012 International CES

CES

(Mobile App Showdown)

LightSmart

iPad

Android

2012

iTunes

[www.apple.com/itunes/affiliates/download/?id=491362350](http://www.apple.com/itunes/affiliates/download/?id=491362350)



Alberto



2012

2012

LightSmart

2012

(Lighting Performance Test Lab) Zhaga (Zhaga Testing and Certification Program)

(European Lighting Performance Test Lab)

UL

2012

Signature of Alberto Uggetti

Alberto Uggetti



# Zhaga

## Bahram Barzideh /

UL Zhaga Zhaga

Zhaga LED  
(interchangeability) LED  
LED ( LED )

Zhaga LED

Zhaga LED

Zhaga LED  
( ) LED ( 2 )  
( 3 )

( 6 )  
LED ( 1 )

UL Zhaga Zhaga  
Zhaga

UL energy star  
UL ( IEC )

Zhaga todd.a.straka@ul.com

www.zhagastandard.org

www.ul.com/zhaga



# 2012

## Shari Hunter / UL

(Lighting for Tomorrow ) 2012 5 18 6

2012 1 19 9

(Dallas Lighting Market) ALA Terry McGowan 2012

(ALA) LED

(CEE) Underwriters Laboratories [www.lightingfortomorrow.com](http://www.lightingfortomorrow.com)

(UL) 21

15

ENERGY [www.ledsmagazine.com/webcasts](http://www.ledsmagazine.com/webcasts)

STAR® SSL

2002 12

(CFL)

(SSL) 2009 LED

2010 LED

CFL LED

ALA 2012

5 18 (intent to submit)





# OLED

*Michael Shulman /*

LED (OLED)      LED      Directory)      UL      (OOQS      OOQS2)

UL 8750 (LED      )      UL      OLED      UL 8752

8752      OLED      ul.com

UL      OLED      OLED      UL 8752

OLED      ULC Standards

UL 2011 12 16

UL 8752      LED

(The Outline of Investigation for Organic Light Emitting Diode (OLED))

OLED

UL      OLED

(OOQS)      (OOQS2)

(National Electrical Code, NEC)

OLED      ul.com

OLED      (Online Certifications



2012

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www.ul.com



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