

FEBRUARY 2011

LEDs MAGAZINE®

TECHNOLOGY AND APPLICATIONS OF LIGHT EMITTING DIODES

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Products

Ten categories of LEDs, components & fixtures P.3

Companies

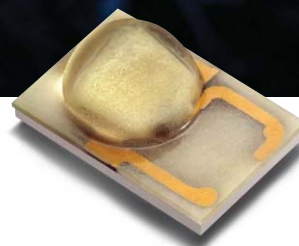
A-Z listing of key suppliers in LED market P.87

LED Suppliers Directory 2011

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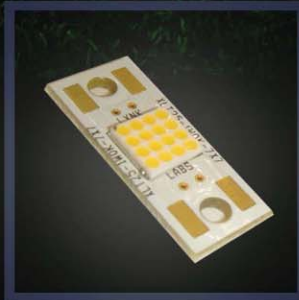
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0.5W LED Wedge
GWF05CXK-12



1W TESLA
T6565



1W-12W SnapBrite
S300 Series



0.5W LED Festoon
GF05CXK-12

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ISSUE 39

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the source of light

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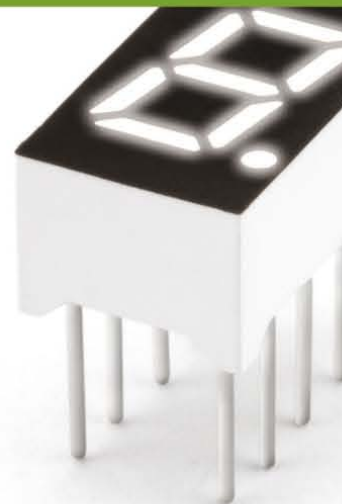
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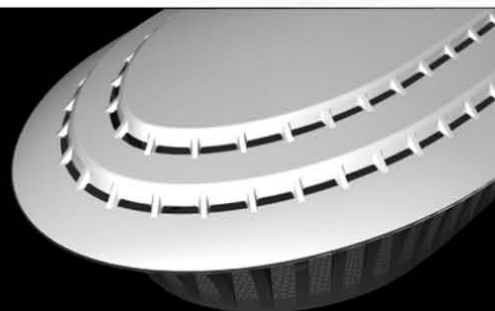
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UV AND IR LEDs

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Advantage:

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- Adjusting luminance for each color (Micro adjust to 256 colors)

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Light Strip for each one. Strong Expansibility.

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section 1 | LED PACKAGES & CHIPS



Marktech Optoelectronics

Mimaki ECO Lighting Solutions
 Neon-EC Ltd
 Neo-Neon LED Lighting International Ltd
Nichia America Corp
 ■ See ad on page 67
 Optocore Ltd
 Optogan GmbH
 Optogan Group
 OSA Opto Light GmbH
OSRAM Opto Semiconductors GmbH
 ■ See ad on front cover
 PerkinElmer Inc



ROHM Semiconductor USA LLC

Sander Electronics
 Secol
 Selectronic



Sharp Microelectronics Europe
 ■ See ad on page 52

Shenzhen Jiuzhou Optoelectronics
 Shenzhen Refond Optoelectronics Co Ltd



Toshiba Electronics Europe
 ■ See ad on inside back cover

UPEC Electronics Corp
 VaOpto
 Yireh Infotech Pvt Ltd

LED CHIPS

AlGaInP RED, ORANGE, YELLOW

Allied Electronics
 CS Bright Corp
 Dora Texas Corp
EBV Elektronik
 ■ See ad on page 31
Epistar Corp
 ■ See ad on page 19
 FUTURELED GmbH

Haiku Tech Inc
 OSA Opto Light GmbH




OSRAM Opto Semiconductors GmbH
 ■ See ad on front cover



Philips Lumileds Lighting
 ■ See ad on inside front cover

Sperger Handels GmbH
 Three Five Compounds Inc

INFRARED
 Allied Electronics



American Bright Optoelectronics Corp
 ■ See ad on page 14

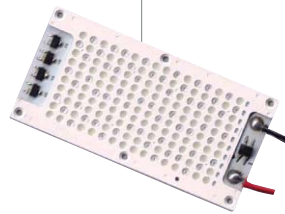
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PAR16 8.5W
6x1W 400~600lm



MR16 6.5W
6x1W 400~600lm



A60 8.5W
E14/E17/E26/
E27/B22/GU24



A35 4.2W
E14 / E17



A50 5.6W
E14/E17/E26
E27/B22



A55 7.1W
E14/E17/E26
E27/B22/GU24



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Technical: service@bltc.com.tw
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section 1 | LED PACKAGES & CHIPS

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 ■ See ad on page 31
 epiLED
Epistar Corp
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 FUTURELED GmbH



Hamamatsu Corp



JENOPTIK Polymer Systems GmbH

Optocore Ltd
 OSA Opto Light GmbH
OSRAM Opto Semiconductors GmbH
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Plasma-Therm

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EBV Elektronik
 ■ See ad on page 31
 epiLED
Epistar Corp
 ■ See ad on page 19
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 Haiku Tech Inc
 LG Innotek
 Neon-EC Ltd
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OSRAM Opto Semiconductors GmbH
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Philips Lumileds Lighting
 ■ See ad on inside front cover



Plasma-Therm



SemiLEDs



Sharp Microelectronics Europe
 ■ See ad on page 52

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Stainless Steel Wall Lamp



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SECTION 2

LEDs MAGAZINE

LED ARRAYS, LIGHT ENGINES & MODULES

ARRAYS, LIGHT ENGINES & MODULES

CHIP-ON-BOARD (COB) ARRAYS




Aeon Lighting Technology
■ See ad on page 51

Allied Electronics



Alpha-One Electronics Ltd



American Bright Optoelectronics Corp
■ See ad on page 14

AppLED BV
D-LED Illumination Technologies
Excelitas Technologies Corp
■ See ad on page 73
FUTURELED GmbH
Innovations in Optics Inc
JGA Associates/Bulbwizards
LEDtronics Inc



Lextar Electronics Corp
■ See ad on page 23

LG Innotek
Light Ocean Technology Corp
LuxInTec SL
Lynk Labs Inc
■ See ad on page 2
Mimaki ECO Lighting Solutions
Neo-Neon LED Lighting International Ltd



Norlux

Optocore Ltd



Opto Diode Corp
■ See ad on page 9

Optotek Ltd
PerkinElmer Inc



ProLight Opto Technology Corp

Selectronic
Senslite Corp



Sharp Microelectronics Europe
■ See ad on page 52

SinkPAD Corp
Spark LED Lighting (HK) Co Ltd



Taiwan Oasis Technology Co Ltd
■ See ad on page 7

UPEC Electronics Corp
VaOpto
Wellypower Optronics Co

CONTRACT MANUFACTURING FOR LED ASSEMBLIES

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Aeon Lighting Technology
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Allied Electronics
American Bright Optoelectronics Corp
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Brilliant Electronic Systems Ltd
Brite-LED Optoelectronics Inc
Challenge Electronics Ltd
CooLED Ltd
CS Bright Corp
CYRON Lighting
D-LED Illumination Technologies
Dongguan Jingliang Lighting Factory



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■ See ad on page 12

Eneltec Group
Everlight Electronics Co Ltd
■ See ad on page 21
Excelitas Technologies Corp
■ See ad on page 73
Excellence Opto Inc
FUTURELED GmbH
Guang Li-Light Power Technology



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Quasar Light Co Ltd
Raled LLC
Rayconn Electronics Co Ltd
■ See ad on page 75
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SchahlLED Lighting
Selectronic
Shenzhen Jiuzhou Optoelectronics
Signcomplex Ltd
■ See ad on page 76
Spark LED Lighting (HK) Co Ltd
Taiwan Oasis Technology Co Ltd
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UNI-EE Electric Appliance Co Ltd
UPEC Electronics Corp
VaOpto
Vigilant Technology Co Ltd
Wilson Process Systems

CUSTOM MODULES & PROTOTYPING

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Aeon Lighting Technology
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Alliance Optotek Corp

Allied Electronics



Alpha-One Electronics Ltd

Aluwave AB
American Bright Optoelectronics Corp
■ See ad on page 14



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Boca Flasher
Brite-LED Optoelectronics Inc
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element 14
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Hokuriku Malaysia Sdn Bnd
Illumination Optics Inc
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TerraLUX Inc
UL
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MODULES FOR DECORATIVE LIGHTING

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ATG Electronics Corp
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section 2 | LED ARRAYS, LIGHT ENGINES & MODULES

Everlight Electronics Co Ltd

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GlacialLight

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ION Light Engines
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MODULES FOR GENERAL LIGHTING

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Aeon Lighting Technology
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ATG Electronics Corp



BAG Electronics GmbH

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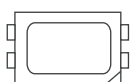
D-LED Illumination Technologies

Lextar

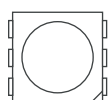
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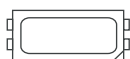
SMD LED



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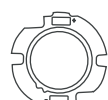


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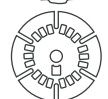


0.6T Sideview
(Backlight)

Light Engine



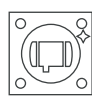
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Dimmable LED Extendable Light Bar

Seamless



Mini dimmer



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LED 6" panel type Recessed Down Light



MR16 (8W)

460 lm, 8Watt, Dimmable



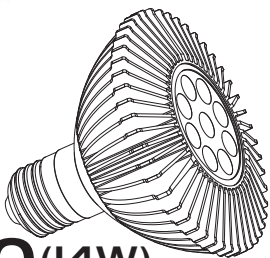
AR111 (14W)

935 lm, 14Watt

CREE XP inside

PAR30 (14W)

820 lm, 14Watt



CREE MCE inside

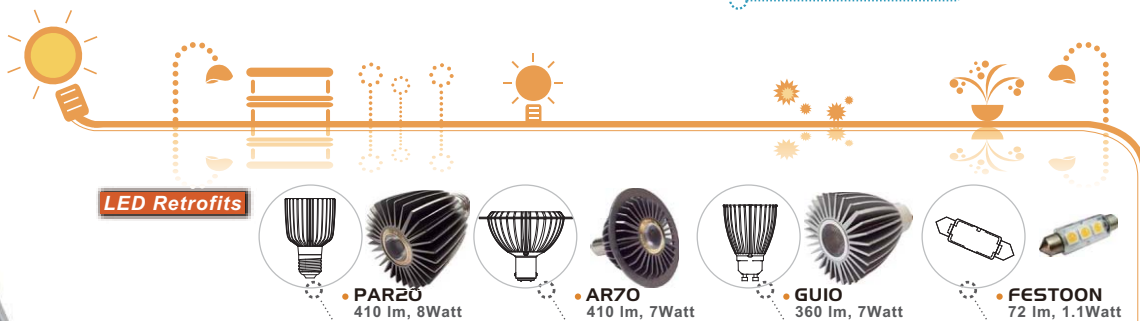
CREE XP inside



CREE XRE inside

Beacon

High Power LED Flooding/Spot Lamp
1500 lm · 30Watt



2011 Show Calendar

Mar. 8~11 Tokyo Lighting Fair (JAPAN)
May 10~12 National Hardware Show (US)
Oct. 25~28 HK Lighting Fair (HongKong)

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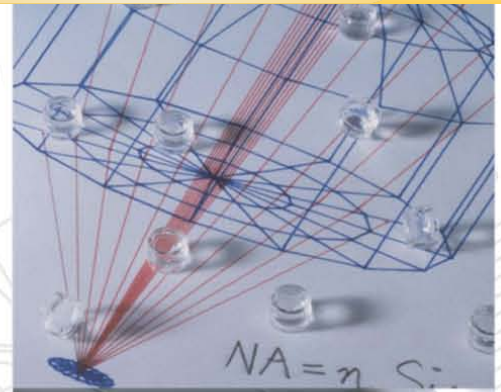
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LEDs MAGAZINE

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LORD Corp

Lumichip Ltd

Megasil Chemical Co Ltd
Nordson ASYMTEK
NuSil Technology
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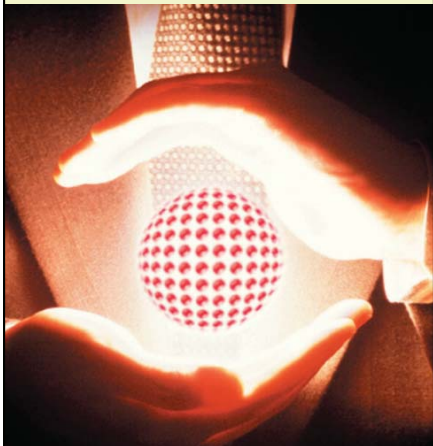
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ProLight Opto Technology Corp

Shin-Etsu



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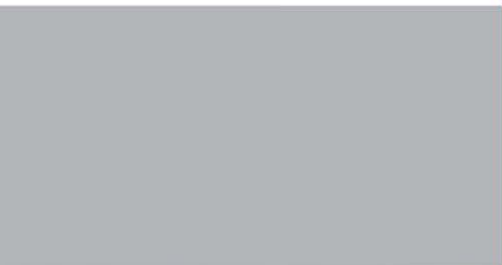
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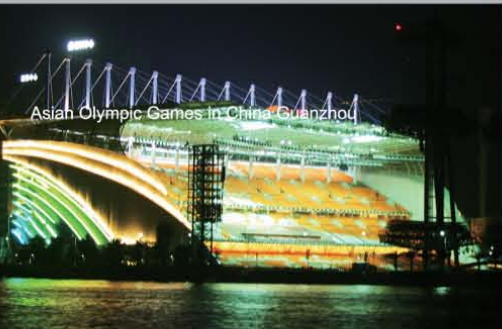


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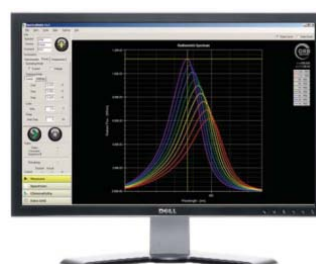
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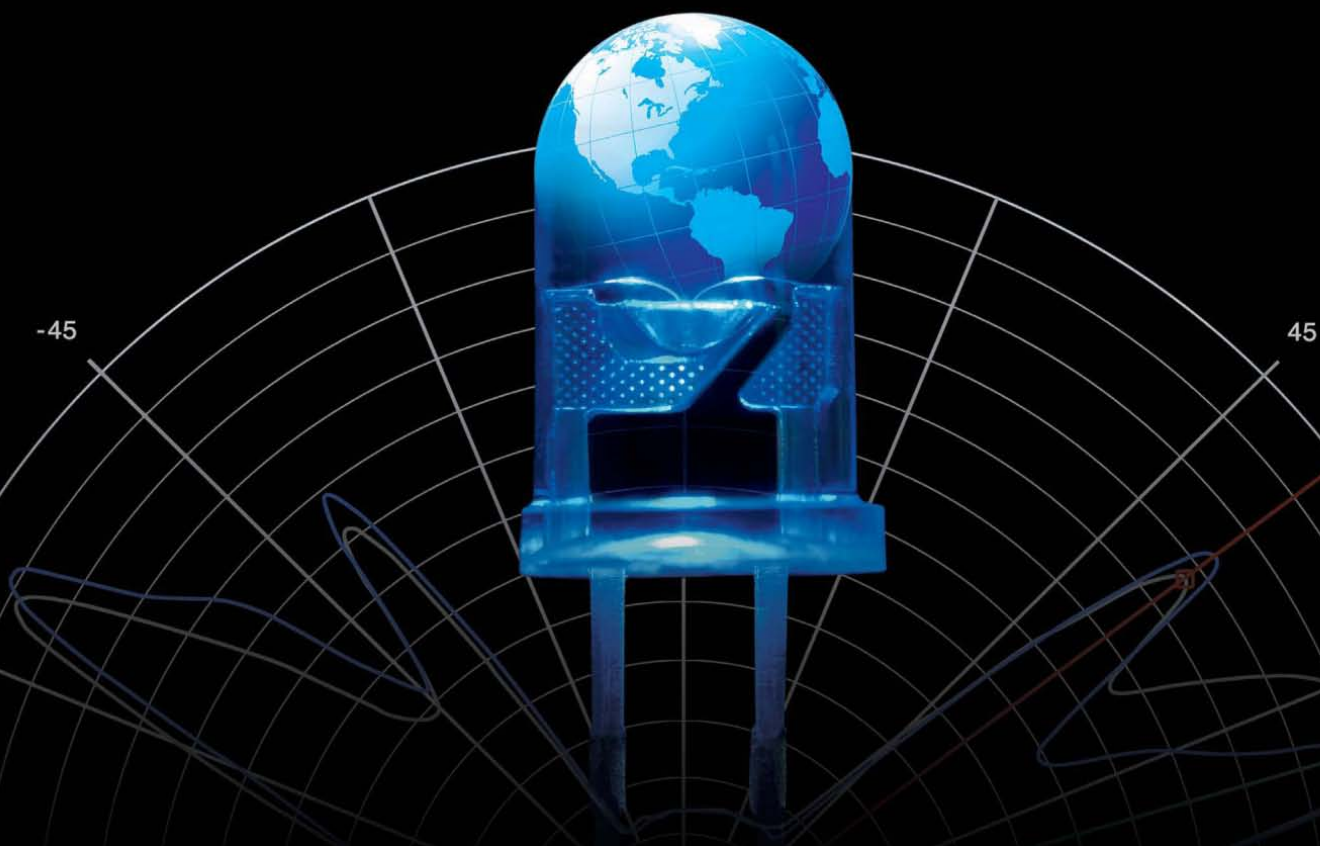


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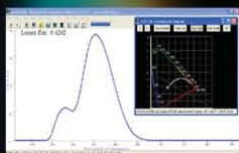
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BG-LED.com
CAO Group Inc



Color Stars Inc
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CUI Inc
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PLN series 20W - 96W

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- Applications: LED indoor Lighting, Office lighting, LED electronic display



PLC series 30W - 96W

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- Applications: LED indoor lighting, Office lighting, LED electronic display



ELN series 30W - 60W

- IP64 / Class II input / Dimming Function / Class 2
- Applications: Tunnel Lighting, LED decorative lighting, LED electronic display



LP series 18W - 100W

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PLP series 20W - 60W

- PFC / PCB type / 277VAC
- Applications: Built-in LED lighting system



ULP-150 150W

- PFC / U bracket / 277VAC
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PCD series 16W / 25W

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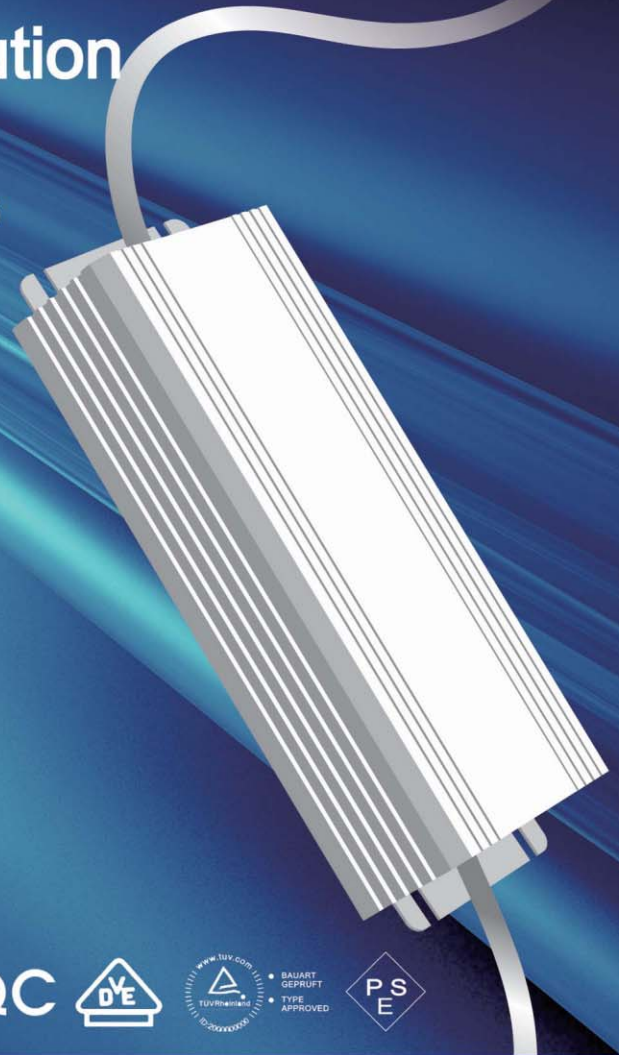
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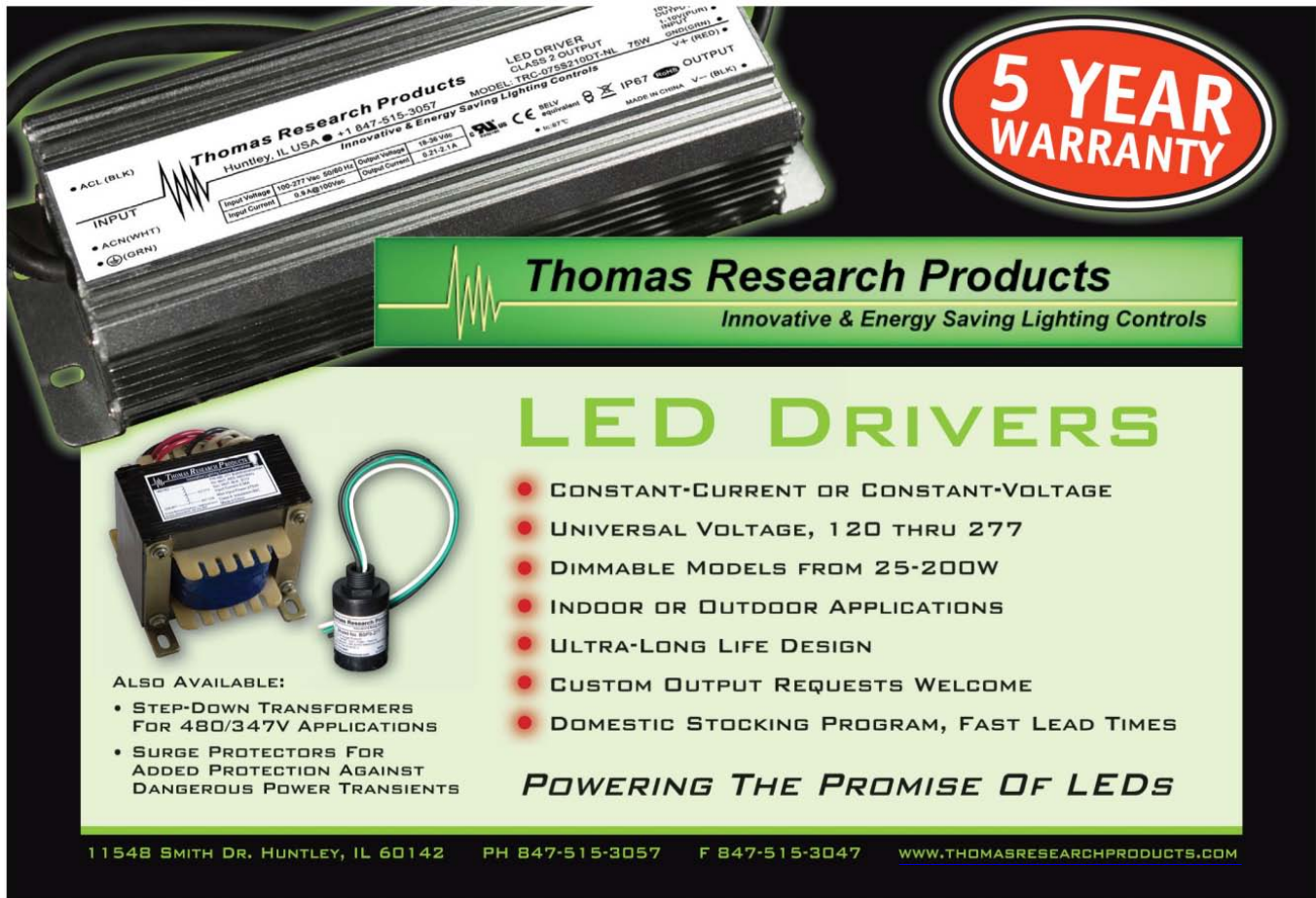
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AIXTRON AG
PLANSEE SE



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Nitride Crystals Inc



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LEDs MAGAZINE

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FUTURE ELECTRONICS

Future Lighting Solutions

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LEDs MAGAZINE

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Aeon Lighting Technology

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Selectronic
Shanghai Yaming-Lighting Co Ltd
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ATG Electronics Corp
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Bingk LED Technology India
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Cerno
CoolLED Ltd
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Del International
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Diogen Lighting
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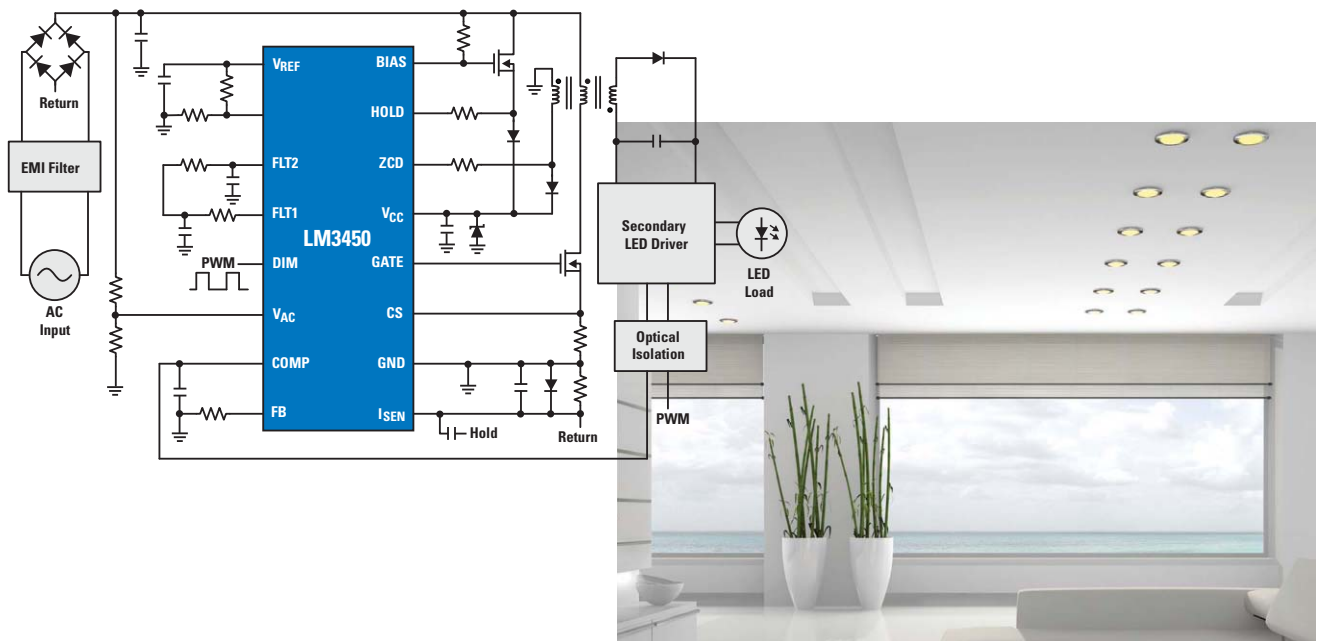
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High Performance Delivers Flicker-Free Illumination.

LM3450 LED driver integrates power factor correction and phase dimming decoding for flicker-free, uniform dimming.

National's LM3450 phase dimmable LED driver integrates active power factor correction and a phase dimming decoder, making it ideal for 10W-100W phase dimmable LED fixtures. It accepts universal input voltages, features unique dynamic hold circuitry for excellent dimming performance, and an analog adjust pin for differentiated features such as thermal foldback, interface to sensors, or dimmer range adjust.



High Performance

The LM3450 LED driver integrates a phase dimming decoder and unique dynamic hold circuitry to enable higher performance dimming without flicker and higher efficiency during dimming. It enables smooth, consistent LED dimming over a wide dim range without flicker even at low dim levels.

Flexible Designs

The analog adjust feature allows for the implementation of features such as thermal foldback, interface to sensors, or dimmer range adjust. The LM3450 is compatible with both forward phase (TRIAC) and reverse phase dimmers and can be used in either a single or two stage configuration.


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section 8 | LED LIGHTING



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Matrix Lighting Ltd
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Medical Lighting Systems
 Motif Architectural Lighting
 Neon-EC Ltd
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Allied Electronics

American Bright Optoelectronics Corp

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Astra Industries SAL

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Edlux Luminaire

E-Lite OptoTech Co Ltd

Elkays Electronics



Energyled Corp



FrontAnD Technology
■ See ad on page 25

Future Lighting Solutions

■ See ad on page 50

Genesis LED Solutions

GlacialLight

■ See ad on page 57

GloPlus

Green Lighting LED

Hai Chang Industrial Co Ltd

HBA Tech Ltd

Heatron Inc

Hong Kong Optoelectronics International Ltd

Hotbeam

House Lighting Co Ltd

Illumination Optics Inc

i-vision Lighting Solutions Ltd

Jason Fidelity Consulting Ltd



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Pollux Series Panel Light



Capella Series Recessed Downlight



Vega Series AR111



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E-mail: sales@glacialtech.com Website: www.GlacialTech.com



section 8 | **LED LIGHTING**

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Lambert Lighting Technology Co Ltd
LEDcentre.uk.com
LED Emerald
Ledion Lighting Inc
LEDKE Technology Co Ltd
LED Light Works
LED One (Hangzhou) Co Ltd
LEDvista Ltd
LEDworx GmbH
Lighting and Production Resources
Ligitek Electronics Co Ltd
■ See ad on page 59
Liteon France
Lumenarex Inc
Lumenpulse
LumiCe Co Ltd
Luums International BV
LuxInTec SL
Lynk Labs Inc
■ See ad on page 2
Macroblock Inc
■ See ad on page 48



Matrix Lighting Ltd
■ See ad on page 4

Neon-EC Ltd
Neo-Neon LED Lighting International Ltd




OPTILED Lighting
■ See ad on page 71

Optocore Ltd
Optogan GmbH
Opulent Technologies Inc



PowerLED Lighting Corp

Rayconn Electronics Co Ltd
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RenovaSolar Lda
Rui Meng Electronics Co Ltd
S3J Electronics LLC
Sagitario Lighting SLU
Senso Lighting Inc
Shanghai Yaming-Lighting Co Ltd




Shanxi Guangyu LED Lighting Co Ltd
■ See ad on page 30

Shenzhen Bright Lighting Technology
Shenzhen Chenze SSL Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen MR Photoelectricity Co Ltd
Sielement Technologies Ltd

Signcomplex Ltd
■ See ad on page 76
Silvermere Lighting
Smart Technologies Electronics Ltd
Solas Lights for Life Ltd
Solmadis Inc
Spark LED Lighting (HK) Co Ltd
SSLI Ltd
Stellaray Technology Ltd
Sunonwealth Electric Machine Industry Co Ltd
■ See ad on page 1
Top Energy Saving System Corp (TESS)
UL
■ See ad on page 47
UNI-EE Electric Appliance Co Ltd
UPEC Electronics Corp
VaOpto
Vebatim GmbH
Xiamen Lumiatech Lighting Co Ltd
Zetamar Elektronik Tic Ltd Sti
Zhejiang Jinzhong Machinery & Electronic Technology Co Ltd

INDOOR: UNDER-CABINET LIGHTING

Aeon Lighting Technology
■ See ad on page 51



Alliance Optotek Corp

Allied Electronics
American Bright Optoelectronics Corp
■ See ad on page 14
AppLED BV
Architectural FX Ltd
Armcast Lighting
ATG Electronics Corp




Beautiful Light Technology Corp
■ See ad on page 15

Bingk LED Technology India
Color Stars Inc
■ See ad on page 63
CoolLED Ltd
CYRON Lighting
Danson Electronics Ltd
Del International
Delta Light
Denggang Lighting Technology Co Ltd
DigiLighting Inc
D-LED Illumination Technologies



Ecomaa Lighting Inc

Eden Park Illumination
Edge Lighting
Edlux Luminaire



Energyled Corp

EnvironmentalLights.com
Eternaleds Inc
Everbright Lights Inc
Eyeleds International
Fawoo Technology Co Ltd
Firefly Technology Corp
Fobsun Electronics Ltd
Focus Co



FrontAnD Technology
■ See ad on page 25

GlacialLight
■ See ad on page 57
Green 4 All Energy Solutions
Green Lighting LED
Hai Chang Industrial Co Ltd
Heatron Inc
Hong Kong Optoelectronics International Ltd
Hotbeam
Illumination Optics Inc
Innovative LED Lighting Corp
International Light
i-vision Lighting Solutions Ltd
JD Greentech-Global Inc
JGA Associates/Bulbwizards



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LEDcentre.uk.com
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LED Retro8
LEDvista Ltd
Leotek Electronics USA Corp
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Lighthouse WorldWide LLC
Lighting and Production Resources
Light Solution
Liteon France
Lotus LED Lights
Lumenpulse
Luums International BV
LuxInTec SL
Lynk Labs Inc
■ See ad on page 2
Motif Architectural Lighting
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Signcomplex Ltd
■ See ad on page 76

Spark LED Lighting (HK) Co Ltd
Stanley Electric Co Ltd

Sunonwealth Electric Machine Industry Co Ltd
■ See ad on page 1

Switch Lighting

UL
■ See ad on page 47

UNI-EE Electric Appliance Co Ltd
UPEC Electronics Corp
usLEDsupply
Wessel LED Lighting Systems

**LED REPLACEMENT LAMPS
(FLUORESCENT)**

AAA OEM & ODM Ltd
Acoya Illumination



Aeon Lighting Technology
■ See ad on page 51

Aladdin Lighting Technologies Inc
ALLEDs Lighting Corp
Allied Electronics
Andy Optoelectronic Co Ltd
AppLED BV
Arani
Armadillo LED
ATG Electronics Corp
Bingk LED Technology India
BMD Lighting Co Ltd
Clean Light Green Light


Color Stars Inc
■ See ad on page 63

CRS Electronics Inc
CYRON Lighting
Dai Shin Technologies Inc
Danson Electronics Ltd
Del International
Denggang Lighting Technology Co Ltd
DigiLighting Inc
DigoLight Co Ltd
DongFang LED Co Ltd
Dongguan Jingliang Lighting Factory
DuraComm Lighting
Dynamic LED Ltd
Earthmate



Ecomaa Lighting Inc

Edlux Luminaire
Emergence Technology Consultants LLC
Eneltec Group



Energyled Corp

EnergyMatrix
Environmental LED
EnvironmentalLights.com

Estar LED Co Ltd
Everbright Lights Inc
Everlight Electronics Co Ltd
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Fawoo Technology Co Ltd
Fiberdyne Energy/Edison LED
Firefly Technology Corp
Fobsun Electronics Ltd
Genesis LED Solutions
GloPlus
Green Lighting LED
Green Performance Lighting
Green Supply
Hai Chang Industrial Co Ltd
HBA Tech Ltd
Heatron Inc
Hokuriku Malaysia Sdn Bnd
Hong Kong Optoelectronics International Ltd
House Lighting Co Ltd
Innovative LED Lighting Corp
i-vision Lighting Solutions Ltd
JD Greentech-Global Inc
Jireh Optoelectronics

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Lanzarote LED

LED Argentina SA
LED Eco Lights
LED Grow Master Global LLC
LED International Lighting Inc
Ledion Lighting Inc
LEDKE Technology Co Ltd
LED Lighting Inc
LED Light Works
LED Retro8
Leds America Inc
LED Source
LEDvista Ltd
LED Waves

Lextar Electronics Corp
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Light Emitting Designs LLC
Lighting and Production Resources

Ligitek Electronics Co Ltd
■ See ad on page 59

Liteon France
Litetronics International Inc
Lotus LED Lights
Lumenarex Inc
Luminarch
Luums International BV
Luxon Sp zoo

Lynk Labs Inc
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Macroblock Inc
■ See ad on page 48

Marc LED Ltd



Matrix Lighting Ltd
■ See ad on page 4

Millennium Visual Systems
MIRROR Lighting Inc
Nav-comm
Neo-Neon LED Lighting International Ltd
N E Technology Ltd
Next Generation Lights Inc



OPTILED Lighting
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Optocore Ltd
Opulent Technologies Inc
ProTerraLED Inc
Quasar Light Co Ltd
Rayconn Electronics Co Ltd
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RedBird LED
RenovaSolar Lda
Runion Energy Solutions LLC
S3J Electronics LLC
Sagitario Lighting SLU
Scape Light Co Ltd
Seesmart LED
Senslite Corp
Shanghai Neolux LED Lightings Co Ltd
Shenzhen Bright Lighting Technology
Shenzhen Chenze SSL Co Ltd
Shenzhen Fujisunwah Electronic Technology Co Ltd
Shenzhen Hongxing Lighting Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen MR Photoelectricity Co Ltd
Shenzhen Spark Optoelectronics
Sielement Technologies Ltd
Signcomplex Ltd
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Smart Technologies Electronics Ltd
Spark LED Lighting (HK) Co Ltd
Stellaray Technology Ltd
Stouch Lighting



Taiwan Oasis Technology Co Ltd
■ See ad on page 7

Thinkwise Lighting
Toshiba Corp New Lighting Systems Div
Tri-State LED
Twin Hill Co Ltd
UL
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UNI-EE Electric Appliance Co Ltd



Unilumin Group Co Ltd

UPEC Electronics Corp
VaOpto
Vexica Technology Ltd
Visual Interactive Ltd
Wellypower Optronics Co
Wuxi Kinlight Optoelec Technology
Xiamen Lumiatech Lighting Co Ltd
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ZMDI - Zentrum Mikroelektronik Dresden
■ See ad on page 32

**LED REPLACEMENT LAMPS
(INCANDESCENT)**



Aeon Lighting Technology
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ALLEDs Lighting Corp
Allied Electronics
American Bright Optoelectronics Corp
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AppLED BV
Arani
ATG Electronics Corp



Beautiful Light Technology Corp
■ See ad on page 15

Bingk LED Technology India
BL2BL
BMT Group
Canada LEDS
Clean Light Green Light




Color Stars Inc
■ See ad on page 63

CoolLED Ltd
CraLux Lighting
CRS Electronics Inc
CYRON Lighting
Dai Shin Technologies Inc
Danson Electronics Ltd
Del International
Denggang Lighting Technology Co Ltd
Diamond LED Lighting
DigiLighting Inc
DigoLight Co Ltd
Diogen Lighting
DongFang LED Co Ltd
Dongguan Jingliang Lighting Factory
DuraComm Lighting
Dynamic LED Ltd
Earthmate



Ecomaa Lighting Inc

Edison Opto Corp
■ See ad on page 12
Edlux Luminaire
EE Green Lighting
Eneltec Group



Energyled Corp

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Everbright Lights Inc
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ITC Inc
i-vision Lighting Solutions Ltd
Jason Fidelity Consulting Ltd
JD Greentech-Global Inc
Lambert Lighting Technology Co Ltd
Lanzarote LED
LED Argentina SA
LED Eco Lights
LedEngin Inc
LED Grow Master Global LLC
LED International Lighting Inc
Ledion Lighting Inc
LED Light Works
LEDnovation
LED One (Hangzhou) Co Ltd
Leds America Inc
The LED Shop
LED Source
LEDtronics Inc
LEDvista Ltd
LEDworx GmbH
Lextar Electronics Corp
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Light Emitting Designs LLC
Lighting and Production Resources
Lighting Science Group Corp
Ligitek Electronics Co Ltd
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Liteon France
Litetronics International Inc
Lotus LED Lights
Lumenarex Inc
Lumicrest Lighting Solutions Inc
Luminarch
Luums International BV
LuxInTec SL
Lynk Labs Inc
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Matrix Lighting Ltd
■ See ad on page 4

McWong International Inc
Millennium Visual Systems
MIROR Lighting Inc
Neo-Neon LED Lighting International Ltd
N E Technology Ltd
Next Generation Lights Inc
Optocore Ltd
Opulent Technologies Inc
Phoster Industries
PowerLED Lighting Corp
Quasar Light Co Ltd
Rayconn Electronics Co Ltd
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RenovaSolar Lda

Rui Meng Electronics Co Ltd
Sagitario Lighting SLU
Scape Light Co Ltd
SchahLED Lighting
Seesmart LED
Selectronic
Shenzhen Bang-Bell Electronics
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Shenzhen Fujisunwah Electronic Technology Co Ltd
Shenzhen Hongxing Lighting Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen Lamp Technology Co Ltd
Shenzhen MR Photoelectricity Co Ltd
Sielement Technologies Ltd
Signcomplex Ltd
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Smartgreen Technology Co Ltd
Solas Lights for Life Ltd
Solmadis Inc
Spark LED Lighting (HK) Co Ltd
SSLI Ltd
Stellaray Technology Ltd
Sunsify International
Taiwan Oasis Technology Co Ltd
■ See ad on page 7



TEAM Instruments Co Ltd
■ See ad on page 17

Thinkwise Lighting
Top Energy Saving System Corp (TESS)
Toshiba Corp New Lighting Systems Div
Tri-State LED
Twin Hill Co Ltd
UL
■ See ad on page 47
UNI-EE Electric Appliance Co Ltd



Unilumin Group Co Ltd


UPEC Electronics Corp
US Eco-Light
Verbatim GmbH
Vexica Technology Ltd
Xiamen Lumiatech Lighting Co Ltd
Zhejiang Jinzhong Machinery & Electronic Technology Co Ltd
Zhuhai Mingyuan Lighting Co Ltd
ZMDI - Zentrum Mikroelektronik Dresden
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LIGHTING PROJECT DESIGN & CONSULTING

AAA OEM & ODM Ltd
Adept Optical
Aeon Lighting Technology
■ See ad on page 51



Alliance Optotek Corp



American Bright Optoelectronics Corp
■ See ad on page 14

Astra Industries SAL
ATG Electronics Corp



Beautiful Light Technology Corp
■ See ad on page 15

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BE Lite Technologies
Bingki LED Technology India
BMT Group
Cerno
Clean Light Green Light
Continental Inc
Cooliance Inc
Del International
Delneo sprl
Diana Electronic-Systeme GmbH
DigiLighting Inc
Dongguan Jingliang Lighting Factory
Downey+Rippe
Dynamic LED Ltd
EBV Elektronik
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Eneltec Group
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Fiberdyne Energy/Edison LED
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GlacialLight
■ See ad on page 57

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Heatron Inc
HET LED HUIS
Hong Kong Optoelectronics International Ltd
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section 8 | **LED LIGHTING**

Lighting and Production Resources
Light Ocean Technology Corp
Light Solution



Ligitek Electronics Co Ltd
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Lumex
Luums International BV
LuxInTec SL
Millennium Visual Systems
MIRROR Lighting Inc
Neo-Neon LED Lighting International Ltd
Next Generation Lights Inc
Notis Design



OPTILED Lighting
■ See ad on page 71

Optocore Ltd
Opulent Technologies Inc
Quasar Light Co Ltd
Rayconn Electronics Co Ltd
■ See ad on page 75

RenovaSolar Lda
Sagitario Lighting SLU
Shenzhen Bang-Bell Electronics
■ See ad on page 64
Shenzhen MR Photoelectricity Co Ltd
Solas Lights for Life Ltd
Spark LED Lighting (HK) Co Ltd
Sunna Energy
Sunsify International
Switch Lighting




TEAM Instruments Co Ltd
■ See ad on page 17

Tri-State LED
Twin Hill Co Ltd
UNI-EE Electric Appliance Co Ltd
UPEC Electronics Corp
usLEDsupply
Watt Works Inc
Wessel LED Lighting Systems

OUTDOOR: LANDSCAPE LUMINAIRES

Abacus Lighting Ltd
Advanced Thermal Devices Inc
Aeon Lighting Technology
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Alliance Optotek Corp

Allied Electronics
American Bright Optoelectronics Corp
■ See ad on page 14
Andy Optoelectronic Co Ltd
AppLED BV
Aquadelight
Architectural FX Ltd
Armcast Lighting
ATG Electronics Corp
Beacon Products



Beautiful Light Technology Corp
■ See ad on page 15

BE Lite Technologies
BG-LED.com
Bingk LED Technology India
ChiHua Lighting Technology Co Ltd
Chloride Systems



Color Stars Inc
■ See ad on page 63

Del International
Denggang Lighting Technology Co Ltd
DigiLighting Inc
D-LED Illumination Technologies
Dongguan Jingliang Lighting Factory
e-conolight
Edge Lighting
Edlux Luminaire
Environmental LED
Eyeleds International
Fawoo Technology Co Ltd
Fernplas
Fiberdyne Energy/Edison LED
Fobsun Electronics Ltd
Future Light
GlacialLight
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Green Lighting LED
Heatron Inc
Hong Kong Optoelectronics International Ltd
i-vision Lighting Solutions Ltd
JD Greentech-Global Inc
LED Emerald
LED Specialists Inc
LEDvista Ltd
LightGuard
Lighting and Production Resources
Ligitek Electronics Co Ltd
■ See ad on page 59
LonTin Industry Co Ltd
■ See ad on page 13
Lumi Lime Ltd
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Neon-EC Ltd
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Optoma Technology Inc
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Philips Hadco
Philips Lumec
Quasar Light Co Ltd
RedBird LED
RenovaSolar Lda
S3J Electronics LLC
Sagitario Lighting SLU
Shanxi Guangyu LED Lighting Co Ltd
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Shenzhen MR Photoelectricity Co Ltd
Signcomplex Ltd
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Silvermere Lighting
Spark LED Lighting (HK) Co Ltd
Sunna Energy



Sunonwealth Electric Machine Industry Co Ltd
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Switch Lighting
Tri-State LED

UL

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UNI-EE Electric Appliance Co Ltd
UPEC Electronics Corp
Visionaire Lighting
Xing Henglong Lighting Technology Co Ltd

OUTDOOR: STREETLIGHTS, GENERAL AREA LIGHTING

Abacus Lighting Ltd
Advanced LEDs Ltd
Advanced Thermal Devices Inc



Aeon Lighting Technology Inc.

Aeon Lighting Technology
■ See ad on page 51



Alliance Optotek Corp

Allied Electronics
American Bright Optoelectronics Corp
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Andy Optoelectronic Co Ltd
AppLED BV
Arani
Armcast Lighting
Armadillo LED
ATG Electronics Corp
Bare Development Inc
Beacon Concepts
Beacon Products

Beautiful Light Technology Corp
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BMD Lighting Co Ltd
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ChiHua Lighting Technology Co Ltd
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Color Stars Inc
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Dai Shin Technologies Inc
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Del International
Denggang Lighting Technology Co Ltd
Dialight Corp
D-LED Illumination Technologies
DMX LED Lights
DongFang LED Co Ltd
Dongguan Jingliang Lighting Factory
Downey+Rippe
DuraComm Lighting
Eclipse Lighting Inc
Edison Opto Corp
■ See ad on page 12
EE Green Lighting
E-Lite OptoTech Co Ltd
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EnergyMatrix
enLux Lighting

Everlight Electronics Co Ltd
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Evluma

Excellence Opto Inc

Eyeleds International
Fawoo Technology Co Ltd
Fiberdyne Energy/Edison LED

Fine Technix Co Ltd

Fobsun Electronics Ltd
Focus Co

FrontAnD Technology
■ See ad on page 25

Future Light
Future Lighting Solutions
■ See ad on page 50
GlacialLight
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GloPlus
Green 4 All Energy Solutions
Green Lighting LED
Green Performance Lighting
Guang Li-Light Power Technology
HBA Tech Ltd
Heatron Inc
High Power Lighting Corp
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
INNOTRONIKS
Innovative LED Lighting Corp
i-Tunnel (Indal Group)
i-vision Lighting Solutions Ltd
Jason Fidelity Consulting Ltd
JD Greentech-Global Inc

Khatod Optoelectronic

LED Argentina SA
LED International Lighting Inc
LED Light Works
LED Optical Solutions
LED Roadway Lighting Ltd
Leds America Inc
LEDtronics Inc
LEDVista Ltd
LED Waves
LEDworx GmbH
Leotek Electronics USA Corp

Lextar Electronics Corp
■ See ad on page 23

Light Emitting Designs LLC
Light Engines LLC
Lighthouse WorldWide LLC
Lighting and Production Resources
Lighting Science Group Corp
Light Ocean Technology Corp
Ligitek Electronics Co Ltd
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LonTin Industry Co Ltd
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Luminarch
Luums International BV
LuxInTec SL
Lynk Labs Inc
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Macroblock Inc
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section 8 | LED LIGHTING

Marc LED Ltd
Marian Inc
MIROR Lighting Inc
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
Odakled
Onstate Technologies
Optocore Ltd
Optogan GmbH
Optoma Technology Inc
Opulent Technologies Inc
Philips Hadco
Philips Hanover Lantern
Philips Lighting UK
Philips Lumec




Philips Roadway Lighting



Protect-R-Shield

ProTerraLED Inc
Quasar Light Co Ltd
RenovaSolar Lda
Runion Energy Solutions LLC
S3J Electronics LLC
SATHEA
Selectronic
Shanghai Neolux LED Lightings Co Ltd
Shanghai Yaming-Lighting Co Ltd



Shanxi Guangyu LED Lighting Co Ltd
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Shenzhen Bang-Bell Electronics
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Shenzhen Dicolor Optoelectronics Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen MR Photoelectricity Co Ltd
Shenzhen Spark Optoelectronics
Signcomplex Ltd
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Silvermere Lighting
Smartgreen Technology Co Ltd
Smart Technologies Electronics Ltd
SolarOne Sololutions Inc
Spark LED Lighting (HK) Co Ltd
Spring City Electrical Manufacturing
Stouch Lighting
Sunna Energy
Sunonwealth Electric Machine Industry Co Ltd
■ See ad on page 1
Taiwan Oasis Technology Co Ltd
■ See ad on page 7
Top Energy Saving System Corp (TESS)
Tri-State LED
UL
■ See ad on page 47
UNI-EE Electric Appliance Co Ltd



Unilumin Group Co Ltd

UPEC Electronics Corp
Urban Solar Corp
US Eco-Light
VaOpto
Visionaire Lighting
Watt Works Inc
Wuxi Kinlight Optoelec Technology
Xiamen Xing Henglong Lighting Technology Co Ltd
Xing Henglong Lighting Technology Co Ltd
Zetamar Elektronik Tic Ltd Sti
Zhejiang Jinzhong Machinery & Electronic Technology Co Ltd
Zhuhai Mingyuan Lighting Co Ltd
ZMDI - Zentrum Mikroelektronik Dresden
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PORTABLE LIGHTING (FLASHLIGHTS, LANTERNS ETC)

Allied Electronics
American Bright Optoelectronics Corp
■ See ad on page 14
Canada LEDS
DigiLighting Inc
Dongguan Jingliang Lighting Factory
Edison Opto Corp
■ See ad on page 12
Everlight Electronics Co Ltd
■ See ad on page 21
Fobsun Electronics Ltd
GlacialLight
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Green Lighting LED
Heatron Inc
High Power Lighting Corp
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
IVUS Energy Innovations
Jason Fidelity Consulting Ltd
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Selectronic
Shanxi Guangyu LED Lighting Co Ltd
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Shenzhen Jiuzhou Optoelectronics
Smart Technologies Electronics Ltd
Spark LED Lighting (HK) Co Ltd
Stanley Electric Co Ltd
Sunonwealth Electric Machine Industry Co Ltd
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TerraLUX Inc
WiseLED

REFRIGERATED CABINET LIGHTING


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AppLED BV

ATG Electronics Corp
Atlanta Light Bulbs



Your Connection to Light
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DigiLighting Inc
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Eco Marketing



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■ See ad on page 21




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■ See ad on page 25

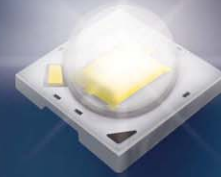
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Green Lighting LED
Heatron Inc
HET LED HUIS
Hong Kong Optoelectronics International Ltd
i-vision Lighting Solutions Ltd
JD Greentech-Global Inc
LED Lighting Inc
LED Retro8
Light Emitting Designs LLC
Liteon France
Lumicrest Lighting Solutions Inc
Luums International BV
Lynk Labs Inc
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Neo-Neon LED Lighting International Ltd
Optocore Ltd
Opulent Technologies Inc
Oree Advanced Illumination Ltd
ProTerraLED Inc
Quasar Light Co Ltd
Rayconn Electronics Co Ltd
■ See ad on page 75
Selectronic
Shenzhen Bright Lighting Technology
Signcomplex Ltd
■ See ad on page 76
Spark LED Lighting (HK) Co Ltd
Tri-State LED
UL
■ See ad on page 47
ZMDI - Zentrum Mikroelektronik Dresden
■ See ad on page 32

RETAIL DISPLAY LIGHTING

Aeon Lighting Technology
■ See ad on page 51
Aladdin Lighting Technologies Inc
ALLEDs Lighting Corp



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section 8 | LED LIGHTING



Alliance Optotek Corp

American Bright Optoelectronics Corp

■ See ad on page 14

AppLED BV
Armcast Lighting
ATG Electronics Corp



Beautiful Light Technology Corp

■ See ad on page 15

Beijing Huasun Optoelectronic
Bingk LED Technology India
Brilliant Electronic Systems Ltd
Canada LEDs

Color Stars Inc

■ See ad on page 63

Cooliance Inc
CraLux Lighting
Del International
DigiLighting Inc
DigoLight Co Ltd
DongFang LED Co Ltd
Eco Marketing
EcoTek Lighting



Edison Opto Corp

■ See ad on page 12

Edlux Luminaire
E-Lite OptoTech Co Ltd



Energyled Corp

EnvironmentalLights.com

Eternaleds Inc

Everlight Electronics Co Ltd

■ See ad on page 21

Fiberdyne Energy/Edison LED

Future Lighting Solutions

■ See ad on page 50

Green Supply
Heatron Inc
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
Illumination Unlimited USA Inc
Innovations in Optics Inc
ITC Inc
i-vision Lighting Solutions Ltd
Jason Fidelity Consulting Ltd
JD Greentech-Global Inc
LED Concepts
LED Lighting Inc
LEDnovation
LEDtronics Inc

LED Waves
Lighting and Production Resources
Liteon France

Lynk Labs Inc

■ See ad on page 2

Macroblock Inc

■ See ad on page 48



Matrix Lighting Ltd

■ See ad on page 4

Motif Architectural Lighting
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
Optical Illumination Corp



www.optiled.com

OPTILED Lighting

■ See ad on page 71

Optocore Ltd
Opulent Technologies Inc
Oree Advanced Illumination Ltd
Outwater Plastics Industries Inc
Phoster Industries



PowerLED Lighting Corp

Rayconn Electronics Co Ltd

■ See ad on page 75

Rosco Laboratories Inc
Sagitario Lighting SLU
SchahLED Lighting
Selectronic
Shanghai Yaming-Lighting Co Ltd
Shenzhen Jiuzhou Optoelectronics
Silvermere Lighting
Spark LED Lighting (HK) Co Ltd
SSLI Ltd
Tecartex Digital Solutions SL
Tri-State LED

UL

■ See ad on page 47

UPEC Electronics Corp
Vexica Technology Ltd
Wessel LED Lighting Systems

SOLAR-POWERED & OFF-GRID LIGHTING

Advanced LEDs Ltd
Advanced Thermal Devices Inc



Aeon Lighting Technology

■ See ad on page 51

American Bright Optoelectronics Corp

■ See ad on page 14

Arani
Bare Development Inc
BG-LED.com

ColorStars

Color Stars Inc

■ See ad on page 63

DST
E-Lite OptoTech Co Ltd
EnergyMatrix
EnvironmentalLights.com
Fiberdyne Energy/Edison LED
Focus Co



FrontAnD Technology

■ See ad on page 25

Heatron Inc
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
i-vision Lighting Solutions Ltd
JD Greentech-Global Inc
LED Argentina SA
LED Grow Master Global LLC
LEDtronics Inc
Lighthouse WorldWide LLC



Ligitek Electronics Co Ltd

■ See ad on page 59

Liteon France
Luums International BV



Lynk Labs Inc

■ See ad on page 2

Neo-Neon LED Lighting International Ltd
Optocore Ltd
Opulent Technologies Inc
Philips Lumec
Rayconn Electronics Co Ltd
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RenovaSolar Lda
S3J Electronics LLC
Selectronic
Shenzhen Jiuzhou Optoelectronics
Shenzhen Spark Optoelectronics
SolarOne Solutions Inc
Sunsify International
Switch Lighting
UNI-EE Electric Appliance Co Ltd
Urban Solar Corp
US Eco-Light
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section 8 | **LED LIGHTING**

ARCHITECTURAL ENTERTAINMENT & DECORATIVE LIGHTING


BORDER/CONTOUR LIGHTING

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Allied Electronics



American Bright Optoelectronics Corp
■ See ad on page 14

AppLED BV
Architectural FX Ltd
ATG Electronics Corp
Beta Opto Technology Co Ltd
Bingk LED Technology India
Boca Flasher
Del International
DigiLighting Inc
D-LED Illumination Technologies
Dynamic LED Ltd
EcoTek Lighting
Eden Park Illumination
E-Lite OptoTech Co Ltd
EnvironmentalLights.com
Eyeleds International
Fobsun Electronics Ltd
High Power Lighting Corp
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
Impact Lighting Inc
Ing Elmar Schruetek
JD Greentech-Global Inc
JGA Associates/Bulbwizards
LEDcentre.uk.com
LEDKE Technology Co Ltd
LED Lighting Inc
LED Linear GmbH
LEDtronics Inc
LEDvista Ltd
Lighting and Production Resources
Logolight
Luums International BV
LuxInTec SL



Lynk Labs Inc
■ See ad on page 2

Mimaki ECO Lighting Solutions
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd



OPTILED Lighting
■ See ad on page 71

Optocore Ltd
Opulent Technologies Inc
Outwater Plastics Industries Inc
Quasar Light Co Ltd
Rayconn Electronics Co Ltd
■ See ad on page 75
RenovaSolar Lda

Sagitario Lighting SLU
Selectronic
Shanghai Yaming-Lighting Co Ltd
Shenzhen Bang-Bell Electronics
■ See ad on page 64
Shenzhen Jiuzhou Optoelectronics
Signcomplex Ltd
■ See ad on page 76
Solid Apollo
Spark LED Lighting (HK) Co Ltd
Tokistar Lighting Inc
usLEDsupply



VaOpto
LED Manufacturer

Wessel LED Lighting Systems

DECORATIVE & HOLIDAY LIGHTING

Acoya Illumination
Aeon Lighting Technology
■ See ad on page 51
Allied Electronics
American Bright Optoelectronics Corp
■ See ad on page 14
AppLED BV
ATG Electronics Corp
Beadlight
Beijing Huasun Optoelectronic
Bingk LED Technology India
ChiHua Lighting Technology Co Ltd
CYRON Lighting
DG Lighting Technology Co Ltd
DigiLighting Inc
DMX LED Lights
Dongguan Jingliang Lighting Factory
Dynamic LED Ltd
EcoTek Lighting
Eden Park Illumination
E-Lite OptoTech Co Ltd
Eneltec Group
EnvironmentalLights.com
Everlight Electronics Co Ltd
■ See ad on page 21
Fobsun Electronics Ltd
High Power Lighting Corp
Hong Kong Optoelectronics International Ltd
Innovative Custom Lighting Inc
JD Greentech-Global Inc
Lanzarote LED
LEDtronics Inc
LEDvista Ltd
Lighting and Production Resources
Logolight
Lutron Electronics
Luums International BV
LuxInTec SL
Luxon Sp zoo
Macroblock Inc
■ See ad on page 48
Motif Architectural Lighting
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd



OPTILED Lighting
■ See ad on page 71

Optocore Ltd
Opulent Technologies Inc
Quasar Light Co Ltd
Rayconn Electronics Co Ltd
■ See ad on page 75
RenovaSolar Lda
Sagitario Lighting SLU
Selectronic
Shenzhen Bright Lighting Technology
Shenzhen Hongxing Lighting Co Ltd
Shenzhen Lamp Technology Co Ltd
Signcomplex Ltd
■ See ad on page 76
Spark LED Lighting (HK) Co Ltd
Tokistar Lighting Inc
Unilumin Group Co Ltd
UPEC Electronics Corp
VaOpto

FLOODLIGHTS, WALL-WASHERS, BATTENS

Abacus Lighting Ltd
AC Entertainment Technologies Ltd
Acoya Illumination
Advanced LEDs Ltd



Aeon Lighting Technology
■ See ad on page 51



Alliance Optotek Corp

Allied Electronics
American Bright Optoelectronics Corp
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Andy Optoelectronic Co Ltd
AppLED BV
Armadillo LED
ATG Electronics Corp
Bare Development Inc
Beacon Products
BG-LED.com
Bingk LED Technology India
CAO Group Inc





Color Stars Inc
■ See ad on page 63


CooLED Ltd
Del International
Denggang Lighting Technology Co Ltd
Designplan Lighting Inc
DG Lighting Technology Co Ltd
Diamond LED Lighting
DigiLighting Inc
D-LED Illumination Technologies
Dynamic LED Ltd
Eclipse Lighting Inc


New Lighting New Standard

OPTILED SUPER STAR LED MR16 LAMP Outperforms conventional MR16 halogen lamp

- 

MORE ENERGY EFFICIENT
Energy savings up to 90%
- 

LONGER LIFETIME
Longer life span up to 35,000 hours and 17 times longer lasting
- 

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- 

MUCH SAFER
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Heat Dissipation Patent by ASTRI
Patent No. US 7,701,055

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section 8 | LED LIGHTING



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EE Green Lighting
E-Lite OptoTech Co Ltd
EnvironmentalLights.com
Everbright Lights Inc
Everlight Electronics Co Ltd
■ See ad on page 21
Eyeleds International



Fine Technix Co Ltd

Fobsun Electronics Ltd



FrontAnD Technology
■ See ad on page 25

GP Lighting Technology
Green Lighting LED
HBA Tech Ltd
High Power Lighting Corp
Hokuriku Malaysia Sdn Bnd
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
Impact Lighting Inc
Innovations in Optics Inc
i-Tunnel (Indal Group)
JD Greentech-Global Inc



Khatod Optoelectronic

LED Linear GmbH
LedScene SA
LEDtronics Inc
LEDvista Ltd
Lighting and Production Resources
Light Ocean Technology Corp
Ligitek Electronics Co Ltd
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Lumenarex Inc
Lumenpulse
Lumi Lime Ltd
Luums International BV
LuxInTec SL
Lynk Labs Inc
■ See ad on page 2
Macroblock Inc
■ See ad on page 48
Nanker LED Lighting Ltd
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
Notis Design
Odakled



OPTILED Lighting
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Optocore Ltd
Opulent Technologies Inc
OSRAM Sylvania
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Philips Hadco
Philips Lighting UK
Prime Light Pte Ltd



Protect-R-Shield

Quasar Light Co Ltd
Rayconn Electronics Co Ltd
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RenovaSolar Lda
Sagitario Lighting SLU
Seesmart LED
Selectronic
Senso Lighting Inc
Shanghai Yaming-Lighting Co Ltd
Shenzhen Bright Lighting Technology
Shenzhen Hongxing Lighting Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen Lamp Technology Co Ltd
Shree Ram Electronics
Signcomplex Ltd
■ See ad on page 76
Silvermere Lighting
Smartgreen Technology Co Ltd
Smart Technologies Electronics Ltd
SolarOne Sololutions Inc
Solid Apollo
Solid State Luminaires
Spark LED Lighting (HK) Co Ltd
UL
■ See ad on page 47
UNI-EE Electric Appliance Co Ltd
Unilumin Group Co Ltd
UPEC Electronics Corp
VaOpto

IN-GROUND LUMINAIRES

Aeon Lighting Technology
■ See ad on page 51
AppLED BV
ATG Electronics Corp
Beacon Products
Bingk LED Technology India
Continental Inc
CoolLED Ltd
Del International
Denggang Lighting Technology Co Ltd
DG Lighting Technology Co Ltd
Dynamic LED Ltd
Eden Park Illumination
E-Lite OptoTech Co Ltd
Eneltec Group
EnvironmentalLights.com
Everlight Electronics Co Ltd
■ See ad on page 21
Eyeleds International
Fobsun Electronics Ltd

GlacialLight

■ See ad on page 57
Hong Kong Optoelectronics International Ltd
JD Greentech-Global Inc



Khatod Optoelectronic

LEDAquariums
LEDvista Ltd
Lighting and Production Resources
Luums International BV
LuxInTec SL
Macroblock Inc
■ See ad on page 48
Neo-Neon LED Lighting International Ltd
OPTILED Lighting
■ See ad on page 71
Optocore Ltd
Opulent Technologies Inc
Philips Hadco
Prime Light Pte Ltd
Rayconn Electronics Co Ltd
■ See ad on page 75
RenovaSolar Lda
Sagitario Lighting SLU
Senslite Corp
Shanghai Yaming-Lighting Co Ltd
Shree Ram Electronics
Signcomplex Ltd
■ See ad on page 76
Solid Apollo
Spark LED Lighting (HK) Co Ltd
Tecartex Digital Solutions SL
VaOpto
Wessel LED Lighting Systems

MARKER LIGHTS, UPLIGHTS

AC Entertainment Technologies Ltd
Allied Electronics
American Bright Optoelectronics Corp
■ See ad on page 14
AppLED BV
ATG Electronics Corp
Bingk LED Technology India
Del International
Dongguan Jingliang Lighting Factory
Eden Park Illumination
EnvironmentalLights.com
Everlight Electronics Co Ltd
■ See ad on page 21
Eyeleds International



GlacialLight
■ See ad on page 57

High Power Lighting Corp
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
LEDtronics Inc
LEDvista Ltd
Lighting and Production Resources
Light Ocean Technology Corp
LuxInTec SL
Macroblock Inc
■ See ad on page 48



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section 8 | LED LIGHTING

Mimaki ECO Lighting Solutions
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
OPTILED Lighting
■ See ad on page 71
Optocore Ltd
Opulent Technologies Inc
Rayconn Electronics Co Ltd
■ See ad on page 75
RenovaSolar Lda
Sagitario Lighting SLU
Selectronic
Shenzhen Jiuzhou Optoelectronics
Shenzhen MR Photoelectricity Co Ltd
Signcomplex Ltd
■ See ad on page 76
UNI-EE Electric Appliance Co Ltd




VaOpto
LED Manufacturer

Wessel LED Lighting Systems

MOVING HEAD PROJECTORS

Impact Lighting Inc




Ledlink Optics Inc
■ See ad on page 29

Lighting and Production Resources
LuxInTec SL
Macroblock Inc
■ See ad on page 48
MTEC GmbH
Neo-Neon LED Lighting International Ltd
Optocore Ltd
RenovaSolar Lda
UNI-EE Electric Appliance Co Ltd
VaOpto

PANELS/TILES WITH LED BACKLIGHTING

Allied Electronics
American Bright Optoelectronics Corp
■ See ad on page 14
ATG Electronics Corp
Beadlight
Beijing Huasun Optoelectronic
Bingk LED Technology India
Brightcast Co Ltd
Carmanah Signs
Denggang Lighting Technology Co Ltd
DG Lighting Technology Co Ltd
DigiLighting Inc
Dongguan Jingliang Lighting Factory
Edgelit Acrylics LLC



Energyled
Energyled Corp

EnvironmentalLights.com
Everlight Electronics Co Ltd
■ See ad on page 21



Fine Technix Co Ltd

Fobsun Electronics Ltd
FUTURELED GmbH
GlacialLight
■ See ad on page 57
High Power Lighting Corp
Hong Kong Optoelectronics International Ltd
Illinois LED Products Inc
Illumination Optics Inc
JD Greentech-Global Inc
LEDAquariums
LED Concepts
LedScene SA
LEDtronics Inc
LEDvista Ltd
Lighting and Production Resources
Light Ocean Technology Corp
Logolight
LumiCe Co Ltd
LuxInTec SL
Lynk Labs Inc
■ See ad on page 2
Medical Lighting Systems
Mimaki ECO Lighting Solutions
Nanker LED Lighting Ltd
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
OPTILED Lighting
■ See ad on page 71
Opulent Technologies Inc
Oree Advanced Illumination Ltd
OSRAM Sylvania
■ See ad on page 11
Prime Light Pte Ltd
Quasar Light Co Ltd
Rosco Laboratories Inc
Sagitario Lighting SLU
SAKMA Electronica Industrial, SA
Selectronic
Shenzhen Lamp Technology Co Ltd
Shenzhen MR Photoelectricity Co Ltd
Spark LED Lighting (HK) Co Ltd
Stellaray Technology Ltd
UL
■ See ad on page 47
VaOpto
Wessel LED Lighting Systems
World of Lights LED Solutions Inc

TV, FILM & STAGE LIGHTING

AC Entertainment Technologies Ltd
Allied Electronics
AppLED BV
ATG Electronics Corp
Beijing Huasun Optoelectronic
Brightcast Co Ltd
Cepoint Networks LLC
D-LED Illumination Technologies
eldoLED America Inc



eldoLED
your product | our drive
eldoLED by

Elkays Electronics

Everlight Electronics Co Ltd

■ See ad on page 21
JD Greentech-Global Inc
LED Source
Lighting and Production Resources
LuxInTec SL
Lynk Labs Inc
■ See ad on page 2
Macroblock Inc
■ See ad on page 48
MTEC GmbH
Neo-Neon LED Lighting International Ltd
Odakled
OSRAM Sylvania
■ See ad on page 11
Prime Light Pte Ltd
Rosco Laboratories Inc
Shenzhen Dicolor Optoelectronics Co Ltd
Signcomplex Ltd
■ See ad on page 76
VaOpto

UNDERWATER LUMINAIRES**Aeon Lighting Technology**

■ See ad on page 51
All Brite International Co Ltd
AppLED BV
Aquadelight
ATG Electronics Corp
Bingk LED Technology India



Color Stars Inc
■ See ad on page 63

CooLED Ltd
Del International
Denggang Lighting Technology Co Ltd
DG Lighting Technology Co Ltd
E-Lite OptoTech Co Ltd
Eneltec Group
Eyeleds International
Fobsun Electronics Ltd
GP Lighting Technology
Green 4 All Energy Solutions
Hong Kong Optoelectronics International Ltd
Impact Lighting Inc
Ing Elmar Schrutek
JD Greentech-Global Inc
LEDAquariums
Lighting and Production Resources
Lumenpulse
LuxInTec SL
Macroblock Inc
■ See ad on page 48
Mango Electronics
Neo-Neon LED Lighting International Ltd
OPTILED Lighting
■ See ad on page 71
Optocore Ltd
Prime Light Pte Ltd
Rayconn Electronics Co Ltd
■ See ad on page 75
RenovaSolar Lda
Sagitario Lighting SLU
Shanghai Yaming-Lighting Co Ltd
Shree Ram Electronics
Signcomplex Ltd
■ See ad on page 76
Spark LED Lighting (HK) Co Ltd
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LED Lighting



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3W

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SECTION 9


LEDs MAGAZINE

LED DISPLAYS AND SIGNS

DISPLAYS & SIGNS

ALPHANUMERIC DISPLAYS, TICKERS, SCOREBOARDS

Allied Electronics



AMERICAN BRIGHT OPTOELECTRONICS CORP.

American Bright Optoelectronics Corp
 ■ See ad on page 14

ATG Electronics Corp
 CAO Group Inc
 Carmanah Signs
 DMX LED Lights
EBV Elektronik
 ■ See ad on page 31
 Ekta



EVERLIGHT
the source of light

Everlight Electronics Co Ltd
 ■ See ad on page 21

JiaYao Industries Co Ltd
 Kingbright Electronic Europe GmbH
 Konka LED
 LEDVista Ltd
 Messagemaker Displays Ltd
 Mimaki ECO Lighting Solutions
 Neon-EC Ltd
 Neo-Neon LED Lighting International Ltd
 Optocore Ltd
 OSA Opto Light GmbH



OSRAM
Opto Semiconductors

OSRAM Opto Semiconductors GmbH
 ■ See ad on front cover

Prime Light Pte Ltd



ROHM
SEMICONDUCTOR

ROHM Semiconductor USA LLC

Selectronic
 Shenzhen Absen Industry Co Ltd
 Shenzhen Dicolor Optoelectronics Co Ltd
 Shenzhen Jiuzhou Optoelectronics
 Shenzhen Lamp Technology Co Ltd
 Shenzhen LCF Tec Co Ltd
 Shenzhen MR Photoelectricity Co Ltd
 Spark LED Lighting (HK) Co Ltd



Oasisstek[®]

Taiwan Oasis Technology Co Ltd
 ■ See ad on page 7

Tally Display Corp
 UNI-EE Electric Appliance Co Ltd



VaOpto
LED Manufacturer

VaOpto

Vvview Optoelectronic Technology Co Ltd

BILLBOARDS



AOP
LIGHT UP NEW ERA

Alliance Optotek Corp

Allied Electronics
 Apron Teknoloji
 ATG Electronics Corp
 BG-LED.com
 Carmanah Signs
 CD2 BV
 CS Bright Corp
 DMX LED Lights
 EcoTek Lighting
 Ekta
 GP Lighting Technology
 Hong Kong Optoelectronics International Ltd
 JiaYao Industries Co Ltd
 Konka LED
 LEDVista Ltd
 Linear Technology
 Messagemaker Displays Ltd
 Neon-EC Ltd

Neo-Neon LED Lighting International Ltd
 Optocore Ltd
 Opulent Technologies Inc
 Sagitario Lighting SLU
 Shenzhen Absen Industry Co Ltd
 Shenzhen Jiuzhou Optoelectronics
 Shenzhen LCF Tec Co Ltd
 Shenzhen MR Photoelectricity Co Ltd

UL
 ■ See ad on page 47
 VaOpto
 Vvview Optoelectronic Technology Co Ltd

EXIT & EMERGENCY SIGNS

Allied Electronics
American Bright Optoelectronics Corp
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 Andy Optoelectronic Co Ltd
 ATG Electronics Corp
 Beacon Concepts
 Chloride Systems
 Denggang Lighting Technology Co Ltd
 DG Lighting Technology Co Ltd
 EnvironmentalLights.com
 GP Lighting Technology
 LEDtronics Inc
 LEDVista Ltd
 LightGuard

Ligitek Electronics Co Ltd
 ■ See ad on page 59
 MIRROR Lighting Inc
 Neon-EC Ltd
 Neo-Neon LED Lighting International Ltd
 Optocore Ltd
 Opulent Technologies Inc
 Selectronic
 Spark LED Lighting (HK) Co Ltd
UL
 ■ See ad on page 47
 UNI-EE Electric Appliance Co Ltd
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HIGH RESOLUTION INDOOR VIDEO SCREENS

Allied Electronics
 Alpha View
 Apron Teknoloji
 ATG Electronics Corp
 CD2 BV
 Creative Technology US
 CT Creative Technology
 Dongguan Jingliang Lighting Factory
 Edge Electronics Inc
 Ekta

section 9 | LED DISPLAYS AND SIGNS



FrontAnD Technology
■ See ad on page 25

Fulsun Led Display
JiaYao Industries Co Ltd
Konka LED
KustomXpress.com
Macroblock Inc
■ See ad on page 48
Messagemaker Displays Ltd
MultiMedia Farms
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
Optocore Ltd
Opulent Technologies Inc
Power Audiovisual Rental Co
Prime Light Pte Ltd
Sharp Microelectronics Europe
■ See ad on page 52
Shenzhen Absen Industry Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen MR Photoelectricity Co Ltd
Spark LED Lighting (HK) Co Ltd
Tally Display Corp
Unilumin Group Co Ltd
VaOpto
Vvview Optoelectronic Technology Co Ltd

LARGE OUTDOOR VIDEO DISPLAYS

Allied Electronics
Alpha View
Apron Teknoloji
ATG Electronics Corp
Brite-LED Optoelectronics Inc
CD2 BV
Creative Technology US
CT Creative Technology
Digital Projection Inc
DongFang LED Co Ltd
EcoTek Lighting
Edge Electronics Inc
Ekta
Fulsun Led Display



GlacialLight
■ See ad on page 57

JiaYao Industries Co Ltd
Konka LED
KustomXpress.com
Linear Technology
Macroblock Inc
■ See ad on page 48
Messagemaker Displays Ltd
MTEC GmbH
MultiMedia Farms
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
Optocore Ltd
Opulent Technologies Inc
Power Audiovisual Rental Co
Prime Light Pte Ltd



Protect-R-Shield

RGB Lights
Selectronic
Sharp Microelectronics Europe
■ See ad on page 52
Shenzhen Absen Industry Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen Lamp Technology Co Ltd
Shenzhen LCF Tec Co Ltd
Shenzhen MR Photoelectricity Co Ltd
Spark LED Lighting (HK) Co Ltd
Tally Display Corp
UL
■ See ad on page 47
UNI-EE Electric Appliance Co Ltd
Unilumin Group Co Ltd
VaOpto
Vvview Optoelectronic Technology Co Ltd

MOBILE LED SCREEN TRAILERS, FRAMEWORKS

Alpha View
ATG Electronics Corp
CD2 BV
EcoTek Lighting
Ekta
LEDvista Ltd
Messagemaker Displays Ltd
MultiMedia Farms
Neo-Neon LED Lighting International Ltd
Optocore Ltd
Opulent Technologies Inc
Sagitario Lighting SLU
Shenzhen Absen Industry Co Ltd
Shenzhen LCF Tec Co Ltd
Shenzhen MR Photoelectricity Co Ltd
UNI-EE Electric Appliance Co Ltd
VaOpto


MODULES FOR SIGNAGE BACKLIGHTING

Aladdin Lighting Technologies Inc
All Brite International Co Ltd
American Bright Optoelectronics Corp
■ See ad on page 14
ATG Electronics Corp
Beta Opto Technology Co Ltd
BG-LED.com
Boca Flasher
Brite-LED Optoelectronics Inc
CAO Group Inc
EBV Elektronik
■ See ad on page 31
EcoTek Lighting
Edgelit Acrylics LLC
Ekta
Everlight Electronics Co Ltd
■ See ad on page 21
Excellence Opto Inc
Fawoo Technology Co Ltd
Fobsun Electronics Ltd
Hana Vision
Heatron Inc
Hong Kong Optoelectronics International Ltd
International Light



JENOPTIK Polymer Systems GmbH

JGA Associates/Bulbwizards
Konka LED
LEDcentre.uk.com
LED Concepts
LEDtronics Inc
LEDvista Ltd
LED Waves
LG Innotek
Ligitek Electronics Co Ltd
■ See ad on page 59
Lumi Lime Ltd



Lynk Labs Inc
■ See ad on page 2

Macroblock Inc
■ See ad on page 48
Mimaki ECO Lighting Solutions
MTEC GmbH
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
N E Technology Ltd
Optocore Ltd
Opulent Technologies Inc
Sagitario Lighting SLU
Selectronic
Sharp Microelectronics Europe
■ See ad on page 52
Shenzhen MR Photoelectricity Co Ltd
Spark LED Lighting (HK) Co Ltd
Stanley Electric Co Ltd (UK)



Taiwan Oasis Technology Co Ltd
■ See ad on page 7

UBLeds Co Ltd
VaOpto
Wessel LED Lighting Systems

RENTAL COMPANIES

ATG Electronics Corp
CT Creative Technology
Ekta
LEDvista Ltd
MultiMedia Farms
Optocore Ltd
Opulent Technologies Inc
Power Audiovisual Rental Co
RGB Lights
Shenzhen LCF Tec Co Ltd
Shenzhen MR Photoelectricity Co Ltd
UNI-EE Electric Appliance Co Ltd
Unilumin Group Co Ltd

section 9 | LED DISPLAYS AND SIGNS

SEMI-TRANSPARENT DISPLAYS

AC Entertainment Technologies Ltd
CD2 BV
Creative Technology US
Ekta
Illumination Optics Inc
JiaYao Industries Co Ltd
LEDvista Ltd
Logolight



Lynk Labs Inc
■ See ad on page 2


Macroblock Inc
■ See ad on page 48
Neo-Neon LED Lighting International Ltd
Optocore Ltd
Opulent Technologies Inc
RGB Lights
Shenzhen MR Photoelectricity Co Ltd
Taiwan Oasis Technology Co Ltd
■ See ad on page 7
Wessel LED Lighting Systems

VARIABLE MESSAGE SIGNS

Allied Electronics
ATG Electronics Corp
CS Bright Corp
DST
Ekta
Fawoo Technology Co Ltd
Fobsun Electronics Ltd
Guang Li-Light Power Technology
Hana Vision
JD Greentech-Global Inc
JiaYao Industries Co Ltd
KustomXpress.com
LEDvista Ltd
Logolight
Macroblock Inc
■ See ad on page 48
Nav-comm
Neon-EC Ltd
Neo-Neon LED Lighting International Ltd
Optocore Ltd
Opulent Technologies Inc
Selectronic
Shenzhen Absen Industry Co Ltd
Shenzhen Jiuzhou Optoelectronics
Shenzhen Lamp Technology Co Ltd
Shenzhen MR Photoelectricity Co Ltd
Spark LED Lighting (HK) Co Ltd
Tally Display Corp
VaOpto
Vvview Optoelectronic Technology Co Ltd
Wessel LED Lighting Systems
World of Lights LED Solutions Inc

BACKLIGHTING & PROJECTION

BACKLIGHT UNITS (BLUS) AND COMPONENTS FOR LCDS



American Bright Optoelectronic Corp
■ See ad on page 14

Beijing Huasun Optoelectronic
Carclo Technical Plastics Ltd
■ See ad on page 26
ChiHua Lighting Technology Co Ltd
Edge Electronics Inc
Edgelit Acrylics LLC



Edison Opto Corp
■ See ad on page 12



Everlight Electronics Co Ltd
■ See ad on page 21

Excellence Opto Inc
Global Lighting Technologies
■ See ad on page 79




Hamamatsu Corp

High Power Lighting Corp



Hirose Electric Co Ltd

International Light
Lextar Electronics Corp
■ See ad on page 23
LG Innotek
Light Ocean Technology Corp
Luminit



Lynk Labs Inc
■ See ad on page 2

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Egress Lighting



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section 9 | LED DISPLAYS AND SIGNS

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Selectronic
 Sharp Microelectronics Europe
 ■ See ad on page 52
 Spark LED Lighting (HK) Co Ltd

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Toshiba Electronics Europe
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UNI-EE Electric Appliance Co Ltd

LIGHT SOURCES FOR PROJECTION SYSTEMS

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Bayer MaterialScience LLC
 Bright View Technologies

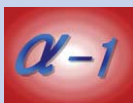
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Taiwan Oasis Technology Co Ltd
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TAOS Inc
 TPL Vision
 UNI-EE Electric Appliance Co Ltd
 UPEC Electronics Corp
 VaOpto
 Wellypower Optronics Co

DRIVERS FOR LCD BACKLIGHTING

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 Allied Electronics
 Arrow Electronics EMEA
 Diodes Inc
 Edge Electronics Inc
 Endicott Research Group (ERG) Inc
 Exclara
 FSP Group USA



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American Bright Optoelectronics Corp
 ■ See ad on page 14
 ATG Electronics Corp
 Digital Projection Inc
 Dongguan Jingliang Lighting Factory
EBV Elektronik
 ■ See ad on page 31
 Epi-Light Ltd
Everlight Electronics Co Ltd
 ■ See ad on page 21
 Excellence Opto Inc
 Greenlight Optics LLC
 Heatron Inc
 High Power Lighting Corp
 Linear Technology
 Optocore Ltd



Carclo Technical Plastics Ltd
 ■ See ad on page 26

Dymax Corp
 EMD Chemicals Inc
Global Lighting Technologies
 ■ See ad on page 79



JENOPTIK Polymer Systems GmbH



GlacialLight
 ■ See ad on page 57

Green Mark Inc
 Kolektor Magma doo
 Linear Technology
Macroblock Inc
 ■ See ad on page 48

OSRAM

Opto Semiconductors

OSRAM Opto Semiconductors GmbH
 ■ See ad on front cover



Labsphere Inc
 ■ See ad on page 61

LeddarTech
Lextar Electronics Corp
 ■ See ad on page 23
 LG Innotek



On Semiconductor

Raled LLC
 RECOM Power Inc
Sharp Microelectronics Europe
 ■ See ad on page 52



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Lightscape Materials Inc

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 Luminit
 LuxInTec SL
 OPTEK Technology
 Optocore Ltd
 PTH Group
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 Suncolor Corp
Taiwan Oasis Technology Co Ltd
 ■ See ad on page 7
 TAOS Inc
 UNI-EE Electric Appliance Co Ltd



Texas Instruments



ProLight Opto Technology Corp

Spark LED Lighting (HK) Co Ltd
Taiwan Oasis Technology Co Ltd
 ■ See ad on page 7
 UNI-EE Electric Appliance Co Ltd
 Upstream Engineering Inc



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SECTION 10

LEDs MAGAZINE

OTHER APPLICATIONS

MEDICAL & INDUSTRIAL LIGHTING

INSPECTION LIGHTING

Advanced illumination
Aladdin Lighting Technologies Inc



Alpha-One Electronics Ltd

American Bright Optoelectronics Corp

■ See ad on page 14

Cool-View

Delta Light

Excelitas Technologies Corp

■ See ad on page 73

Fiberguide Industries Inc



GlacialLight

■ See ad on page 57

Golden Polymer Extrusion Technology Co Ltd



Hamamatsu Corp

Heatron Inc

Illumination Optics Inc

LDDLIGHT.com - LDD Trading Associates LLC

LEDtronics Inc

LuxInTec SL

PerkinElmer Inc

Quasar Light Co Ltd

Spark LED Lighting (HK) Co Ltd

Spectrum Illumination

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MACHINE VISION LIGHTING

Advanced illumination



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Diana Electronic-Systeme GmbH

Elkays Electronics

Epi-Light Ltd

Excelitas Technologies Corp

■ See ad on page 73

Fiberguide Industries Inc

GlacialLight

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INOV Optical Development

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Marktech Optoelectronics

Operations Technology Inc

PerkinElmer Inc

Quasar Light Co Ltd

Rayconn Electronics Co Ltd

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Shanghai BMT Automation

Spark LED Lighting (HK) Co Ltd

Spectrum Illumination

TPL Vision

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MEDICAL & DENTAL LIGHTING



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www.CommercialEcoLights.com

Cool-View

DMX LED Lights

Emergence Technology Consultants LLC

EXALOS

Excelitas Technologies Corp

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Fiberguide Industries Inc

FUTURELED GmbH



Hamamatsu Corp

Heatron Inc

Illumination Optics Inc

INOV Optical Development

LED Concepts

LED Eco Lights

Lextar Electronics Corp

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Light Emission Technology Ltd

Lumicrest Lighting Solutions Inc

LuxInTec SL

Medical Lighting Systems



Norlux


section 10 | OTHER APPLICATIONS



OPTO DIODE CORP.

Opto Diode Corp
■ See ad on page 9

PerkinElmer Inc
Rayconn Electronics Co Ltd
■ See ad on page 75
Selectronic
Spark LED Lighting (HK) Co Ltd



Sunonwealth Electric Machine Industry Co Ltd
■ See ad on page 1

UNI-EE Electric Appliance Co Ltd
VaOpto
ZMDI - Zentrum Mikroelektronik Dresden
■ See ad on page 32

PHOTOTHERAPY LIGHTING



Alpha-One Electronics Ltd

Cool-View
Delta Light
Design LED Products
Excelitas Technologies Corp
■ See ad on page 73
Fiberguide Industries Inc
GlacialLight
■ See ad on page 57
Heatron Inc
Light Emission Technology Ltd
LuxInTec SL
Medical Lighting Systems



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OPTO DIODE CORP.

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Quasar Light Co Ltd
UNI-EE Electric Appliance Co Ltd
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Digital Light Lab
Dymax Corp
Epi-Light Ltd

Excelitas Technologies Corp
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Fiberguide Industries Inc
FUTURELED GmbH



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Hamamatsu Corp

Heatron Inc
Innovations in Optics Inc
LEDtronics Inc
Light Emission Technology Ltd
LumiCe Co Ltd
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Optotek Ltd
OSA Opto Light GmbH
PerkinElmer Inc

MOBILE APPLIANCES

DRIVERS FOR MOBILE APPLICATIONS

3DZ LTD
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Edge Electronics Inc
Exclara
Macroblock Inc
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MAGTECH
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Magtech Industries Corp



National Semiconductor


National Semiconductor
■ See ad on page 55



ON Semiconductor

On Semiconductor

Sharp Microelectronics Europe
■ See ad on page 52



Sunonwealth Electric Machine Industry Co Ltd
■ See ad on page 1

LEDs FOR CAMERA FLASH

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EBV Elektronik
■ See ad on page 31



Edison Opto Corp
■ See ad on page 12



EVERLIGHT
the source of light

Everlight Electronics Co Ltd
■ See ad on page 21

High Power Lighting Corp
LG Innotek
Lightspeed Technologies Inc
Neon-EC Ltd
Nichia America Corp
■ See ad on page 67
NXP Semiconductors



OSRAM
Opto Semiconductors

OSRAM Opto Semiconductors GmbH
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SEMICONDUCTOR

ROHM Semiconductor USA LLC

Sharp Microelectronics Europe
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Spark LED Lighting (HK) Co Ltd
Stanley Electric Co Ltd (UK)
Sunonwealth Electric Machine Industry Co Ltd
■ See ad on page 1
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LEDs FOR KEYPAD/LCD BACKLIGHTING

American Bright Optoelectronics Corp
■ See ad on page 14



CREE

Cree Inc
■ See ad on back cover

EBV Elektronik
■ See ad on page 31
Everlight Electronics Co Ltd
■ See ad on page 21
Global Lighting Technologies
■ See ad on page 79

section 10 | OTHER APPLICATIONS

High Power Lighting Corp
LEDtronics Inc
LG Innotek



Lightscape Materials Inc



Ligitek Electronics Co Ltd
■ See ad on page 59

Nichia America Corp
■ See ad on page 67
NXP Semiconductors
OSRAM Opto Semiconductors GmbH
■ See ad on front cover



ROHM Semiconductor USA LLC

Selectronic
Sharp Microelectronics Europe
■ See ad on page 52
Shenzhen Jiuzhou Optoelectronics
Spark LED Lighting (HK) Co Ltd
Stanley Electric Co Ltd (UK)



Toshiba Electronics Europe
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OLEDs & EL LIGHT SOURCES

EMD Chemicals Inc
Selectronic

SIGNAL LIGHTING

TRAFFIC & PEDESTRIAN SIGNALS

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American Bright Optoelectronics Corp
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ATG Electronics Corp
BE Lite Technologies
Boca Flasher
CooLED Ltd
Dialight Corp




Everlight Electronics Co Ltd
■ See ad on page 21

Excelitas Technologies Corp
■ See ad on page 73
Fulsun Led Display



GlacialLight
■ See ad on page 57

Golden Sources (HK) Ltd
Guang Li-Light Power Technology
Heatron Inc
Hokuriku Malaysia Sdn Bnd
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
LEDtronics Inc
LED Waves
Leotek Electronics USA Corp
Ligitek Electronics Co Ltd
■ See ad on page 59
Liteon France
LuxInTec SL
Macroblock Inc
■ See ad on page 48
Neo-Neon LED Lighting International Ltd
Optocore Ltd
Quasar Light Co Ltd
RenovaSolar Lda
Selectronic
Shenzhen Bang-Bell Electronics
■ See ad on page 64
Shenzhen Lamp Technology Co Ltd
Spark LED Lighting (HK) Co Ltd



Sunonwealth Electric Machine Industry Co Ltd
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UNI-EE Electric Appliance Co Ltd
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ROADWAY MARKING & SAFETY LIGHTING

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ATG Electronics Corp
Beacon Concepts
Excelitas Technologies Corp
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Fiberdyne Energy/Edison LED
Golden Sources (HK) Ltd
Heatron Inc
Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
LEDtronics Inc
Leotek Electronics USA Corp
Ligitek Electronics Co Ltd
■ See ad on page 59
Liteon France
LuxInTec SL
Neo-Neon LED Lighting International Ltd
Optocore Ltd
PerkinElmer Inc
Quasar Light Co Ltd
Rayconn Electronics Co Ltd
■ See ad on page 75
RenovaSolar Lda
Selectronic
Shenzhen Bang-Bell Electronics
■ See ad on page 64
Shenzhen Dicolor Optoelectronics Co Ltd

Shenzhen Lamp Technology Co Ltd
Smitties Lights and Sirens
Spark LED Lighting (HK) Co Ltd
Sunonwealth Electric Machine Industry Co Ltd
■ See ad on page 1
UNI-EE Electric Appliance Co Ltd
US Eco-Light
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RAILROAD, MARINE, AIRPORT SIGNALS

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ATG Electronics Corp
Eco Marketing
Excelitas Technologies Corp
■ See ad on page 73
Fulsun Led Display
GlacialLight
■ See ad on page 57
Golden Sources (HK) Ltd




Heatron Inc

Hong Kong Optoelectronics International Ltd
Illumination Optics Inc
LEDtronics Inc
Leotek Electronics USA Corp
Liteon France
LuxInTec SL
Neo-Neon LED Lighting International Ltd
Optocore Ltd
PerkinElmer Inc
Quasar Light Co Ltd
Selectronic
Spark LED Lighting (HK) Co Ltd
Sunonwealth Electric Machine Industry Co Ltd
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BEACONS, EMERGENCY DIRECTIONAL AIDS

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American Bright Optoelectronics Corp
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ATG Electronics Corp
BE Lite Technologies
Dialight Corp
DMX LED Lights
Eco Marketing




Excelitas Technologies Corp
■ See ad on page 73

Golden Sources (HK) Ltd
Heatron Inc
Hong Kong Optoelectronics International Ltd

section 10 | OTHER APPLICATIONS

Illumination Optics Inc
 Innovations in Optics Inc
 JW Speaker Corp
 LEDtronics Inc
 Liteon France
 LuxInTec SL
 Nav-comm
 Neo-Neon LED Lighting International Ltd
 Optocore Ltd
 PerkinElmer Inc
 RenovaSolar Lda
 Selectronic
 Smitties Lights and Sirens
 Spark LED Lighting (HK) Co Ltd



Sunonwealth Electric Machine Industry Co Ltd
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VEHICLE LIGHTING

DRIVERS FOR VEHICLE LIGHTING

Allegro MicroSystems Inc
 Diodes Inc
 Eco Marketing
 Exclara
 Hong Kong Optoelectronics International Ltd
 Infineon Technologies AG
 Kolektor Magma doo
 LuxInTec SL




Magtech Industries Corp



On Semiconductor

Optocore Ltd
 Quasar Light Co Ltd
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Sunonwealth Electric Machine Industry Co Ltd
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LEDs & MODULES FOR VEHICLE LIGHTING

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 ATG Electronics Corp
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 CoolLED Ltd



Cree Inc
 ■ See ad on back cover

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 D-LED Illumination Technologies
 Dominio LED
EBV Elektronik
 ■ See ad on page 31
 Enertrail Technology Co Ltd
Everlight Electronics Co Ltd
 ■ See ad on page 21
 Fiberydyne Energy/Edison LED
Future Lighting Solutions
 ■ See ad on page 50



GlacialLight
 ■ See ad on page 57

Golden Sources (HK) Ltd
 High Power Lighting Corp
 Hokuriku Malaysia Sdn Bnd
 Hong Kong Optoelectronics International Ltd
 LEDIKO
 LEDtronics Inc
 LG Innotek
 LuxInTec SL
 Nav-comm
 Neon-EC Ltd
 Neo-Neon LED Lighting International Ltd
Nichia America Corp
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 Optocore Ltd



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 Shenzhen Dicolor Optoelectronics Co Ltd
 Shenzhen Jiuzhou Optoelectronics
 Shenzhen MR Photoelectricity Co Ltd
Signcomplex Ltd
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 Spark LED Lighting (HK) Co Ltd
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 ATG Electronics Corp
 Beacon Concepts
 CoolLED Ltd
 DMK USA Inc
 Enertrail Technology Co Ltd
 Golden Sources (HK) Ltd
 High Power Lighting Corp
 Hong Kong Optoelectronics International Ltd
 Illumination Optics Inc
 JW Speaker Corp
 The LED Shop
 Linear Technology
 LuxInTec SL
 Nav-comm
 Neo-Neon LED Lighting International Ltd
 Optocore Ltd



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Quasar Light Co Ltd
Rayconn Electronics Co Ltd
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 Selectronic
Shenzhen Bang-Bell Electronics
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LEDs MAGAZINE

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www.abaculighting.com

Abrisa Industrial Glass

Santa Paula, CA, USA, www.abrisa.com

Abrisa Technologies

Santa Paula, CA, USA, www.abrisatechnologies.com

Accuratus Corp

Phillipsburg, NJ, USA, www.accuratus.com

AC Electronics

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AC Entertainment Technologies Ltd

High Wycombe, UK, www.ac-et.com

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Dongguan, China, www.acoya.com.tw

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Established in 2007, Aeon Lighting Technology Inc is an exceptionally successful company that manufactures innovative, eco-friendly, energy-saving, premium quality lamps using LED technology. With outstanding heat dissipation design, ALT is accomplishing noticeably, and rapidly growing sales in more than 100 countries across the world. ALT currently offers various LED lighting products, including indoor and outdoor products. All products have been verified by major international safety certification institutions, such as UL, CE, FCC, TUV, and ETL.

AIXTRON AG

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Aladdin Lighting Technologies Inc

Clarksville, TN, USA, www.aladdinlgt.com

All Brite International Co Ltd

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ALLEDs Lighting Corp

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Allegro MicroSystems Inc

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Alliance Optotek Corp

No 5, Lane 191, Chung-Ho St, Chupei City, Hsinchu 30267 Taiwan, TEL: 886 3 5551100, FAX: 886 3 5555050, mkt_lm@aoptk.com, www.aoptk.com

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Alpha-One Electronics Ltd

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Aluwave AB

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America II Electronics

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American Bright Optoelectronics Corp

13815-C Magnolia Ave, Chino, CA 91710 USA, TEL: 909 628 5050, FAX: 909 628 5006, aboc@americanbrightled.com, www.americanbrightled.com

■ See ad on page 14

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AMERICAN ILLUMINATION INC.

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TEL: 1 310 202 6500, FAX: 1 310 202 6555,
info@american-illumination.com,
www.american-illumination.com

American Illumination Inc specializes in creating Title 24 LED light engines for modern fixtures, retrofits, and anything in between. Our dedication to aesthetics and extensive knowledge of LED technology and electrical engineering allows us to provide unique LED solutions for OEM's and lighting designers without sacrificing quality or service.

American Opto Plus LED Corp
Pomona, CA, USA, www.aopled.com

Amphenol Industrial Operations
Sidney, NY, USA, www.amphenol-industrial.com

Amphenol® LTW®

Amphenol LTW Technology Co Ltd
10F No 657-12, Jungjeng Rd, Shinjuang City,
Taipei 242 Taiwan, TEL: 886 2 29085626,
FAX: 886 2 29029787, sales@ltw-tech.com,
www.amphenolltw.com

Amphenol LTW is a leading manufacturer in waterproof connectors with innovative design and cutting-edge manufacturing technology. Our connectors are designed for harsh environment and obtain the strictest requirements to meet with various international standards. Our LED product series is easy mating, quick assembly and comes with impulse resistant cable protection. Amphenol LTW has experienced engineers and innovative technology providing customized design and value-added solutions for our customers.

Andy Optoelectronic Co Ltd
Ningbo, China, www.ledlighting.cc

Anything Display Promotional Displays
Amherst, NH, USA, www.anythingdisplay.com

AppLED BV
Oss, The Netherlands, www.appled.nl

Apple Lighting Corp
Tainan, Taiwan, www.ilight.com.tw

Apron Teknoloji
Kayseri, Melikgazi, Turkey, www.ledeca.com

APS Novastar
Huntingdon Valley, PA, USA, www.apsgold.com

AP Technologies Ltd
Bath, UK, www.aptechnologies.co.uk

Aquadelight
Rumst, Antwerpen, Belgium, www.aquadelight.info

Arani
Montreal, QC, Canada, www.arani.ca

Architectural FX Ltd
Bracknell, Berkshire, UK, www.architecturalfx.co.uk

Arctik
Guangzhou, China, www.arctik-lighting.com

Aries Electronics Inc
Bristol, PA, USA, www.arieselec.com

Armocost Lighting
Baltimore, MD, USA, www.armocostlighting.com

Armadillo LED
Great Dunmow, Essex, UK, www.armadilloled.com



ARROW ELECTRONICS

Arrow Electronics Inc
7459 S Lima St, Englewood, CO 80112 USA,
TEL: 1 888 954 4481, lightingsolutions@arrow.com,
www.arrow.com

Arrow Electronics Lighting is dedicated to providing LED alternatives to incandescent, halogen and fluorescent lighting. Our team specializes in providing components to total solutions containing HB-LEDs. Our extensive line card, unsurpassed design and supply chain management services, and experienced technical team can help you with all your solid-state requirements.



ARROW ELECTRONICS

Arrow Electronics EMEA
Max-Planck-Straße 1-3, Dreieich 63303 Germany,
TEL: 49 6103 304 0, FAX: 49 6103 304 8455,
lighting@arroweurope.com, www.arroweurope.com

The Arrow EMEA Lighting Group boasts a team of experts with knowledge regarding all specific requirements. Arrow is able to supply all necessary components for a lighting solution from one single source and has an extensive portfolio of LEDs, LED drivers, optics and other supporting products from the leading manufacturers.

Arroyo Instruments
San Luis Obispo, CA, USA,
www.arroyoinstruments.com

Astra Industries SAL
Beirut, Lebanon, www.astralux.com

Astrodyne
Mansfield, MA, USA, www.astrodyne.com

ATC Semitec Ltd
Northwich, Cheshire, UK, www.atcsemitec.co.uk

ATG Electronics Corp
Shanghai, China, www.atgelectronics.com

Atlanta Light Bulbs
Tucker, GA, USA, www.atlantallightbulbs.com

Atropa Ltd
Zagreb, Croatia, www.atropa.hr

AT&S AG
Leoben, Austria, www.ats.net

AWAB Co (EGYLED)
Cairo, Egypt, www.egyled.com

Axic Inc
Santa Clara, CA, USA, www.axic.com

b,a,g,

BAG Electronics GmbH
Kleinbahnstrasse 27, Arnberg 59759
Germany, TEL: 49 2932 9000 9800,
FAX: 49 2932 9000 9796,
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Wherever high quality electronic control gears for lighting applications are required, customers worldwide trust in BAG. BAG electronics, an internationally active group with modern production facilities, sales and development sites in Europe and Asia, offers sophisticated and innovative solutions for operation of discharge lamps, LED applications and intelligent light systems.

Bare Development Inc
Countryside, IL, USA, www.baredevelopment.com

Barthelme LED Solutions
Nürnberg, Bavaria, Germany, www.barthelme.eu

Bayer MaterialScience LLC
Pittsburgh, PA, USA, www.bayermaterialscience.com

Beacon Concepts
Windham, NH, USA, www.beaconconcepts.net

Beacon Products
Bradenton, FL, USA, www.beaconproducts.com

Beadlight
Witney, Oxfordshire, UK, www.beadlight.com



Beautiful Light Technology Corp
16-2, Dingshanmen, Neighbor12, Jinlan Village,
Jhongpu Township, Chia-yi 60665 Taiwan,
TEL: 886 5 239 2881, sales@bltc.com.tw,
www.bltc.com.tw

■ See ad on page 15

Beautiful Light Technology Corp (BLTC) focuses on all-in-one lighting solutions of LED lamps. We are one of the leading companies in manufacturing high power LED bulbs for strong capability and unique development in the field of electrics, optics and thermal management. BLTC can provide the global market with a large portfolio of innovative products in power-design, optical, and heat-handling. Our inventive designs and development keeps us at the forefront of LED lighting technology.

Beijing Huasun Optoelectronic
Beijing, China, www.huasun-tech.com

BE Lite Technologies
Gauteng, South Africa, www.belite.co.za

BelleFlex Technologies LLC
Freeport, PA, USA, www.belleflex.com

BellNett Technologies
Wuxi New District, Jiangsu Province, China,
www.bellnett.com

Benled Lighting Group
Shenzhen, China, www.benled.com

Bentham Instruments Ltd
Reading, Berkshire, UK, www.bentham.co.uk



Bergquist Co
18930 W 78th St, Chanhassen, MN 55317-9343
USA, TEL: 1 952 835 2322, FAX: 1 952 835 0430,
www.bergquistcompany.com

Bergquist supplies the world with some of the best-known brands in the business: Sil-Pad thermally-conductive interface materials, Gap Pad electrically insulating and non-insulating gap fillers, Hi-Flow phase change grease replacement materials, Bond-PlyT thermally-conductive adhesive tapes, and Thermal Clad insulated metal substrates. For power LED applications, light output and long life are directly attributable to how well the LEDs are managed thermally. Thermal Clad is an excellent solution for designers.

Beta Opto Technology Co Ltd
Hsinchu, Taiwan, www.betaoptotech.com

BFI OPTILAS France SAS
Evry, France, www.bfioptilas.fr

BG-LED.com
Haskovo, Bulgaria, www.bgled.com

Bingk LED Technology India
Pune, Maharashtra, India, www.bingktech.com

BizriOptics
Damascus, Syria, www.albizri.com/optics



Your Connection to Light

BJB GmbH & Co KG
Werler Str 1, Arnsberg 59755 Germany,
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info@bjb.com, www.bjb.com

Founded 140 years ago, today BJB produces LED components, such as connectors, lampholders, terminal blocks, automatic wiring systems for the lighting industry and light fittings for domestic appliances. We distribute our products via our global network in more than 70 countries. Today, BJB is your first choice for LED interface.

BL2BL
Torrance, CA, USA, www.bl2bl.com

Black Dog LED
Boulder, CO, USA, www.blackdogled.com

Blue Ridge Numerics (CFdesign)
Charlottesville, VA, USA, www.cfdesign.com

BMD Lighting Co Ltd
Xiamen, Fujian, China, www.bmd-lighting.com

BMT Group
Riga, Latvia, www.bmt.lv

Boca Flasher
Boca Raton, FL, USA, www.bocafletcher.com

Brightcast Co Ltd
Beijing, China, www.brightcast-led.com

Bright Green Technology
Richmond, Surrey, UK,
www.brightgreentechnology.com

Bright View Technologies
Morrisville, NC, USA,
www.brightviewtechnologies.com

Brilliant Electronic Systems Ltd
Welwyn Garden City, Herts, UK, www.brilliant.co.uk

Brite-LED Optoelectronics Inc
Plant City, FL, USA, www.brite-led.com

BYP Enterprise Ltd
Xiamen, Fujian, China, www.byp-enterprise.com

Cambridge America LLC
Branford, CT, USA, www.cambridgepcb.com

Canada LEDs
Mississauga, ON, Canada, www.canadaleds.com

CAO Group Inc
West Jordan, UT, USA, www.caogroup.com



Carclo Technical Plastics Ltd
103 Buckingham Ave, Slough SL1 4PF, UK,
TEL: 44 01753 575011, FAX: 44 01753 811359,
sales@carclo-optics.com, www.carclo-optics.com
■ See ad on page 26

Designs, moulds and markets optical, plastic components for a variety of industries encompassing, LED optics, bespoke modular systems, automotive, medical, and telecommunications. CTP has always been at the leading edge of optical technology since its foundation in 1936. Such development has placed Carclo at the forefront of its class. Today, Carclo boasts unrivalled expertise in optical design and manufacture. It has its own optical design department with full CAD and test-lab facility.

Carmanah Signs
Calgary, AB, Canada, www.carmanahsigns.com

CD2 BV
Rotterdam, Zuid-holland, The Netherlands,
www.cd2bv.nl

Cepoint Networks LLC
Nashua, NH, USA, www.cepoint.com

Ceres Technology Advisors Inc
Needham, MA, USA, www.cerescom.net

CerFlex International
Helmond, The Netherlands, www.cerflex.com

Cerno
Laguna Beach, CA, USA, www.cernogroup.com

Challenge Electronics Ltd
Stevenage, Herts, UK,
www.challengeelectronics.co.uk

Chang Sha Yi Jia Electronics Co Ltd
Chang Sha, China, www.csyjdz.cn

ChiHua Lighting Technology Co Ltd
Dongguan, China, www.chihualight.com

Chloride Systems
Burgaw, NC, USA, www.chloridesys.com

Chooyu Chemical Co Ltd
Shanghai, China,
www.chooyuchem.com/index_en.html

Clandell Ltd
Bury St Edmunds, Suffolk, UK, www.clandell.com

Clean Light Green Light
Mount Clemens, MI, USA,
www.cleanlightgreenlight.com

CODE Lighting SA
Vevey, Switzerland, www.code-lighting.ch

Coloronix
Los Angeles, CA, USA, www.coloronix.com

ColorStars

Color Stars Inc
10F, No 566 Jung Jeng Rd, Sindian City, Taipei
County 231 Taiwan, TEL: 886 2 8667 6600,
FAX: 886 2 8667 1400, sales@colorstars.com,
www.colorstars.com

■ See ad on page 63

Founded in 2002, it is a vertically integrated company that incorporates downstream applications with upstream LED packaging. Its LED lighting application development activity ranges from lighting fixture design to optical lens and heat management, from multiple-chip RGB packaging and white and warm-white LED packaging to special packaging methods designed for general lighting applications. The company, a part of ColorStars Group, headquartered in Irvine, CA, conducts R&D and manufacturing in Taipei and Kaohsiung, Taiwan.

www.CommercialEcoLights.com
San Diego, CA, USA, www.commercialecolights.com

Continental Inc
Anderson, IN, USA, www.continentalinc.com

Control Development Inc
South Bend, IN, USA, www.controldevelopment.com

CoolLED Ltd
Zhuhai, Guangdong, China, www.cooled-lighting.com

Cooliance Inc
Warwick, RI, USA, www.cooliance.com

Cool Polymers Inc
North Kingstown, RI, USA, www.coolpolymers.com

Cool-View
Ft Myers, FL, USA, www.cool-view.com

Cooper Controls
Peachtree City, GA, USA, www.coopercontrol.com

CraLux Lighting
Salt Lake City, UT, USA, www.craluxlighting.com

Creative Technology US
Panorama City, CA, USA, www.ctus.com



Cree Inc
4600 Silicon Dr, Durham, NC 27703 USA,
TEL: 1 919 313 5300, FAX: 1 919 313 5451,
info@cree.com, www.creelighting.com
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Cree's XLamp XM-L LED is the industry's highest performance, white lighting-class LED. Capable of 1000 lm at 100 LPW, the compact XM-L's unique combination of high efficiency at very high drive currents shatters single-die performance standards. The XM-L LED is the ideal choice for high-lumen applications, such as high-bay or roadway lighting. Visit www.cree.com/shatters to request a Cree XLamp XM-L LED sample kit.

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CRS Electronics IncWelland, ON, Canada, www.crselectronics.com**CS Bright Corp**New Taipei County, Taiwan, www.csbright.com**CT Creative Technology**Nürtingen, Germany, www.ctgermany.com**cTech Ltd**Crandall, Hampshire, UK, www.ctech.co.uk**CUI Inc**Tualatin, OR, USA, www.cui.com**CYRON Lighting**Chatsworth, CA, USA, www.cyron.com**Dai Shin Technologies Inc**Waukesha, WI, USA, www.daishintech.com**Dalian Luminglight Co Ltd**Dalian, Liao Ning, China, www.cnluming.com**Danson Electronics Ltd**Jiangmen City, Guangdong, China,
www.dansonelectronics.com**DBM Reflex Lighting Solutions**Laval, QC, Canada, www.dbmlighting.com**Del International**Ankara, Turkey, www.del.com.tr**Delneo sprl**Melen, Belgium, www.delneo.com**Delta Light**

Minneapolis, MN, USA, 1 763 354 6581

Denggang Lighting Technology Co LtdFoshan, Guangdong, China, www.denggangled.com**Design LED Products**Livingston, West Lothian, UK,
www.designledproducts.com**Designplan Lighting Inc**Frenchtown, NJ, USA, www.designplan.com**DG Lighting Technology Co Ltd**Foshan City, Guangdong, China,
www.denggangled.com**Dialight Corp**Farmingdale, NJ, USA, www.dialight.com**Diamond LED Lighting**Sandbach, Cheshire, UK,
www.diamondledlighting.co.uk**Diana Electronic-Systeme GmbH**Schwaikheim, Germany, www.dianaelectronic.de**DigiLighting Inc**Guangzhou, China, www.digi-lighting.com**Digital Light Lab**Knoxville, TN, USA, www.digitallightlab.com**Digital Lumens**Boston, MA, USA, www.digitallumens.com**Digital Projection Inc**Kennesaw, GA, USA, www.digitalprojection.com**DigitalSignageSupplies.com**Bristol, RI, USA, www.digitalsignagesupplies.com**DigoLight Co Ltd**Chongqing, China, <http://digo.gmc.globalmarket.com>**Diodes Inc**Dallas, TX, USA, www.diodes.com**Diogen Lighting**Centennial, CO, USA, www.diogenlighting.com**Dipet-M Co Ltd**

Incheon-si, Korea, 82 70 4190 2157

Direct Trade SuppliesTorpoint, Cornwall, UK, www.directtradesupplies.co.uk**Discovery Technology International**Sarasota, FL, USA, www.discovtech.com**D-LED Illumination Technologies**Hod Hasharon, Israel, www.d-led.net**DMK USA Inc**Stevens Point, WI, USA, www.dmkinc.com**DMX LED Lights**Las Vegas, NV, Nuevo Leon, USA,
www.dmxledlights.com**Domino LED**San Isidro, Provincia de Buenos Aires, Argentina,
www.dominioled.com**DongFang LED Co Ltd**Shanghai, China, www.dongfangled.com**Dongguan Jingliang Lighting Factory**Dongguan, Guangdong, China, www.jinglianglight.com**Dora Texas Corp**Houston, TX, USA, www.doratexas.com**Downey+Rippe**Batesville, IN, USA, www.new-leds.com**DST**Holon, Israel, www.dst-cleantech.com**DuraComm Lighting**North Kansas City, MO, USA,
www.duracommlighting.com**Duromec Technologies Inc**Magog, QC, Canada, www.duroled.com**Dymax Corp**Torrington, CT, USA, www.dymax.com**Dynamic LED Ltd**Bridge of Allan, Stirling, UK, www.dynamicled.com**EarthlightLED.com**Rancho Santa Margarita, CA, USA,
www.earthlightled.com**Earthmate**Alsip, IL, USA, www.earthmatelighting.com**EBV Elektronik**Im Technologiepark 2-8, Poing, Germany 85586,
TEL: 49 0 8121 774 0, FAX: 49 0 8121 774 422,
generallighting@ebv.com, www.ebv.com

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EBV Elektronik, an Avnet (NYSE:AVT) company, was founded in 1969 and is the leading specialist in European semiconductor distribution. EBV maintains its successful strategy of personal commitment to customers and excellent services. 240 technical sales specialists provide a strong focus on a selected group of long-term manufacturing partners. 117 continuously trained application specialists offer extensive application know-how and design expertise. Warehouse operations, complete logistics solutions and value-added services such as programming, taping and reeling and laser marking are fulfilled by Avnet Logistics, EBV's logistical backbone and Europe's largest service centre. EBV operates from 58 offices in 28 countries throughout EMEA (Europe - Middle East - Africa).

Eclipse Lighting IncSchiller Park, IL, USA, www.eclipselightinginc.com**Ecomaa Lighting Inc**7F, NO.35, Sintai Rd, Jhubei City, Hsinchu County 302, Taiwan, TEL: 886 3 552 9383, FAX: 886 3 552 7148, sean@ecomaa.com, www.ecomaa.com

The patented cooling fan is inserted in Ecomaa LED lightings lamps. Also complies with product standards such as UL, TUV, FCC, RoHS, CE. Product series include LED bulb, LED PAR 20/30/38, LED MR16, LED AR111, T8 LED tube, LED ceiling light, and LED stripe light. High efficiency 80W LED bay light is the new product of Ecomaa and it is perfect for warehouse and high elevated space (E40/E39 base/weight 1.14kg).

Eco MarketingLarkollen, Norway, www.led-eu.com**e-conolight**Sturtevant, WI, USA, www.e-conolight.com**EcoTek Lighting**Lake Forest, CA, USA, www.ecoteklighting.com**Eden Park Illumination**Champaign, IL, USA, www.edenpark.com**Edge Electronics Inc**Bohemia, NY, USA, www.edgeelectronics.com**Edge Lighting**Chicago, IL, USA, www.edgelighting.com**Edgelit Acrylics LLC**Annapolis, MD, USA, www.edgelitacrylic.com**Edison Opto Corp**4F, No 800, Chung-Cheng Rd, Chung-Ho City, Taipei 235 Taiwan, TEL: 886 2 82276996, FAX: 886 2 82276993, service@edison-opto.com.tw, www.edison-opto.com.tw

■ See ad on page 12

Edison Opto Corp is a Taipei, Taiwan based global leading high power LED manufacturer. The company offers a comprehensive product line ranging from 1—100W, single-chip to multi-chip, and high flux to high CRI. The diversified product offering answers to even the most challenging fixture designs. Edison Opto is composed of innovative, enthusiastic people proficient in opto-electronics, committed to innovating new technologies, making profit for employees and shareholders, and benefiting the community.

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eldoLED

your product | our drive

eldoLED by

Luchthavenweg 18a, Eindhoven 5657 EB
The Netherlands, TEL: 31 40 2054050,
FAX: 31 40 2054058, info@eldoled.com,
www.eldoled.com

eldoLED develops, produces and markets high-performance drive, networking and control solutions for general white lighting and full color RGB-W/A LED lighting applications. The product portfolio includes LedSync/DMX/DALI/0-10V compatible LED drivers, network bridges and DMX dimmers. eldoLED also supports its customers with customized solutions and design-in developments.

Electro-Matic Visual Products

Farmington Hills, MI, USA,
www.emvisualsolutions.com

element 14

Singapore, <http://sg.element14.com>

E-Lite OptoTech Co Ltd

Shenzhen, China, www.elite-opto.com

Elkays Electronics

San Diego, CA, USA, www.elkays.com

EMD Chemicals Inc

Gibbstown, NJ, USA,
www.emdchemicals.com/lcd-emerging-technologies

Emergence Technology Consultants LLC

Mount Airy, MD, USA,
www.emergencetechnologyconsultants.com

Emerson Network Power

Mountain View, CA, USA, www.cooligy.com

Endicott Research Group (ERG) Inc

Endicott, NY, USA, www.ergpower.com

Eneltec Group

Shanghai, China, www.eneltec-led.com



Energyled Corp

6F, No 542-4, Zhongjheng Rd, Sindian City, Taipei
County 231 Taiwan, TEL: 886 2 7729 0589,
FAX: 886 2 7729 1871, exporte@energyled.com,
www.energyled.com

With experienced business management and advanced research and development backgrounds, Energyled is able to use LED lighting characteristics to create finished products that meet the demands of our valued customers. We own many international standard certifications and patents including a variety of light lamp patents, whole spectrum high color rendering patents and enhancing light efficiency patents. Energyled will continue to commit time into producing high-quality light sources that are energy-saving and environmentally friendly.

EnergyMatrix

Santa Clara, CA, USA, www.energymatrix.biz

Enerlighting USA

Clovis, CA, USA, www.enerlightingusa.com

Enertrail Technology Co Ltd

Sijhih City, Taipei County, Taiwan,
www.enertrail.com.tw

enLux Lighting

Tempe, AZ, USA, www.enluxled.com

Enn Cee Enterprises

Bangalore, Karnataka, India, www.enncesolar.com

Environmental LED

Vicksburg, MI, USA, www.environmentalled.com

EnvironmentalLights.com

San Diego, CA, USA, www.environmentallights.com

epiLED

Wroclaw, Poland, www.epiled.com

Epi-Light Ltd

Cork City, Ireland, www.epi-light.com

Epistar Corp

No 5, Li-hsin 5th Rd, Science-based Industrial Park,
Hsinchu 300 Taiwan, TEL: 886 3 5783078,
FAX: 886 3 5783080, sales@epistar.com.tw,
www.epistar.com.tw

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At Epistar, we strive to be much more than a premier LED chip provider. While we are helping leading global brands actualize LED's potential, our focus remains simple and partner-oriented. Epistar's own unique "Co-Activation Service Model" allows us to work alongside our partners, so that together, we are able to satisfy every partner's clients. And with 15 years of accumulated experience, Epistar is truly equipped to help you illuminate the world in a better light.

Epoxy Technology Inc

Billerica, MA, USA, www.epotek.com

EPtronics Inc

Los Angeles, CA, USA, www.eptronics.com

ERG Lighting

Endicott, NY, USA, www.erglighting.com

Estar LED Co Ltd

Gardena, CA, USA, www.wix.com/oemled/oemled

Eternaleds Inc

Alhambra, CA, USA, www.eternaleds.com

Eulitha AG

Villigen PSI, Switzerland, [eulitha.com](http://www.eulitha.com)

Evatec Ltd

Flums, Switzerland, www.evatecnet.com

Everbright Lights Inc

Richmond Hill, ON, Canada, www.everbrightlights.com

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www.everlight.com

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Speed, flexibility and global reach are the key factors for success. Our global Everlight network of research and development facilities, production sites and sales offices sets the pace in development, production and marketing of first-class lighting and advanced opto-electronic applications. As a reliable partner and certified supplier of some of the world's leading companies, our comprehensive LED product portfolio sets international standards

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Seattle, WA, USA, www.evluma.com

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Schlieren, Switzerland, www.exalos.com

Excelitas Technologies Corp

160 E Marquardt Dr, Wheeling, IL 60090 USA,
TEL: 1 847 537 4277, www.excelitas.com

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Excelitas is a leader in customized LED solutions for specialty applications. While all LED designs have energy-efficiency in common, every solid state lighting application is different and each OEM customer has unique requirements. Whether the goal is reducing power consumption, reducing heat output, meeting tight candela requirements, long life, high CRI, adhering to tough regulatory requirements—or all of these objectives—Excelitas delivers the appropriate customized LED solution for the medical and dental lighting, analytical instrumentation, safety lighting, defense and space lighting, entertainment, and a variety of industrial applications.

Excellence Opto Inc

1663 W 2nd St, Pomona, CA 91766 USA,
TEL: 1 909 784 3333, FAX: 1 909 784 3330,
sales@eoius.com, www.eoius.com

Excellence Opto Inc (EOI), established in 1995, is one of the leading companies in the LED industry with a wide range of competitive products and professional services to assist you to be competitive in the market. EOI provides LED components and LED modules for multiple LED applications especially for the customers in LED display, LED vehicle lighting, and LED interior and exterior lighting. EOI also provides LED traffic signals and LED luminaries worldwide.

Excelsys Technologies Ltd

27 Eastgate Business Park, Little Island,
Cork, Ireland, TEL: 353 2143 54716,
dermotfynn@excelsys.com, www.excelsys.com

Excelsys Technologies is a leading designer and manufacturer of high efficiency, high reliability constant current, dimming and constant voltage LED drivers for outdoor and indoor applications including street lighting, signage digital displays, high bay lighting, signage and refrigerator lighting. With efficiencies of over 90%, our extensive ranges of waterproof (IP67 rated) LED drivers provide 25-300W with input voltage ranges of 90-277VAC and 347/480VAC. All LED drivers are UL8750 approved and CE marked.

Exclara

Santa Clara, CA, USA, www.exclara.com

Eyeleds International

Goes, The Netherlands, www.eyeleds.com

Fa GK Technik

Augsburg, Germany, www.greenledlight.de

Fairfield Crystal Technology

New Milford, CT, USA, www.fairfieldcrystal.com

Farnell

Leeds, UK, www.farnell.com

company directory | FAWOO TECHNOLOGY CO LTD

Fawoo Technology Co LtdBucheon, Gyeonggi-do, Korea, www.fawoo.com**Fernplas**Alton, UK, www.fernplas.com**Fiberdyne Energy/Edison LED**Frankfort, NY, USA, www.edisonled.com**Fiberguide Industries Inc**Stirling, NJ, USA, www.fiberguide.com**FiberTech Optica**Kitchener, ON, Canada, www.fto.ca**Fine Technix Co Ltd**203-3, Anyang 7-dong, Manan-gu, Anyang-si, Gyeonggi-do Korea, TEL: 82 31 463 8852, FAX: 82 31 468 0101, tmoon@finetechnix.com, www.finetechnix.com

Finetechnix, the KOSDAQ listed eco-friendly company has a pioneering history in design, manufacturing and distributing innovative LED lighting products with solid backgrounds stemmed from many years of experiences of LCD components and LED backlight unit industry. We were number one in domestic sales in Korea in 2010 with a strong product line-up in high-bay factory lights, panel lights and street lights. Now we're willing to transcend the boundaries of Korea to become the largest LED lighting manufacturer in the world.

Firefly Technology CorpKennesaw, GA, USA, www.firefly-technology.com**First Level Inc**York, PA, USA, www.firstlevelinc.com**Fobsun Electronics Ltd**Shenzhen City, China, www.fobsun.com**Focus Co**Fryazino, Moscow Region, Russian Federation, www.ledsvet.ru**ForeverGreen Illumination (FGI)**Spokane, WA, USA, www.fgillumination.com**The Fox Group Inc**Warrenton, VA, USA, www.thefoxgroupinc.com**Foxsemicon Integrated Technology Inc**Chu-Nan, Miaoli County, Taiwan, www.foxsemicon.com**FrontAnD Technology**No 9, Neixi Rd, Luzhu Township, Taoyuan County 338, Taiwan, TEL: 886 3 3240501, FAX: 883 3 3249496, info@frontand.com.tw, www.frontand.com.tw

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FrontAnD has been engaged in LED and IC design for 11 years. We have standard and niche products for selection, and every design incorporates patented LED, circuit, optical and thermal solutions. All manufactured in Taiwan. All products are CE, FCC certified and UL compliant. In 2011, we developed more products, better performance, and better quality.

FSP Group USAChino Hills, CA, USA, www.fspgroupusa.com**Fulsun Led Display**Shenzhen, Guangdong, China, www.jxaled.com**FUTURELED GmbH**Berlin, Germany, www.futureled.de**Future Light**Thornton, South Africa, www.futurelight.co.za**Future Lighting Solutions**237 Hymus Blvd, Pointe-Claire, QC H9R 5C7, Canada, TEL: 1 888 589 3662, americas@futurelightingsolutions.com, www.futurelightingsolutions.com

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Future Lighting Solutions is a leading provider of LED lighting components and support services for solid-state lighting products and installations, including engineering expertise, concept development, full system solutions and online tools that accelerate quality application development. The company is a division of Future Electronics.

Gaggione SASMontréal la Cluse, France, www.gaggione.com**Gamma Scientific Inc**8581 Aero Dr, San Diego, CA 92123 USA, TEL: 1 858 279 8034, FAX: 1 858 576 9286, info@gamma-sci.com, www.gamma-sci.com

Provides optical metrology for LED and SSL. Produces laboratory-grade spectroradiometer-based LED measurement systems, turn-key LED test stations with programmable test-flows and advanced binning management, complete LM79 software solutions, uniform light sources, integrating spheres, and portable photometers for field and QC inspection. Provides independent LM79 testing.

Genesis LED SolutionsPlano, TX, USA, www.genesisledsolutions.com**Gigahertz-Optik Inc**Newburyport, MA, USA, www.gigahertz-optik.com**GlacialLight**9F, No 352, Sec 2, Jung Shan Rd, Jung He City, Taipei County 235 Taiwan, TEL: 886 2 2244 1227, FAX: 886 2 2244 1228, sales@glacialtech.com, www.glaciallight.com

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GlacialLight provides high-brightness, low power LED lighting solutions for indoor, outdoor and customized applications. Developing a comprehensive range of products from street lighting solutions to industrial lighting and architectural lighting. Products on offer and in development include product enhancements over competing products, such as MR16/A19/AR111/PAR38/BR20/BR30/BR40/T8 tubes and spotlights, panel light, as well as torches. Extensive product line includes replacements for standard light bulbs and tubes for homes and office.

Global Lighting Technologies525 Andrews Cir, Brecksville, OH 44141, TEL: 1 440 922 4584, FAX: 1 440 922 4585, info@glthome.com, www.glthome.com

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Global Lighting Technologies (GLT) Inc offers the world's most efficient edge lighting technology for backlights that are ultra-thin with outstanding performance and more efficient light extraction. Utilizing high-efficiency HBLEDs that focus the light into a high-performance light guide, GLT offers LCD backlights for applications including LCDs from handhelds to TVs, keyboards and keypads, egress lighting, touch-enabled display graphics, and automotive displays, as well as general illumination solutions. With 3 manufacturing facilities in Asia, GLT can deliver a better backlight at lower cost with faster turnaround.

Global Training Solutions IncMississauga, ON, Canada, www.globaltrainingsolutions.ca**GloPlus**Milpitas, CA, USA, www.gloplus.com/index.html**Golden Polymer Extrusion Technology Co Ltd**Panyu, Guangzhou, Guangdong, China, www.goldenpoly.com/en/index/index.jsp**Golden Sources (HK) Ltd**Hangzhou City, China, www.golden-sources.com**GooSum Greenergy Tech Co Ltd**Taipei, Taiwan, www.gosum.com**GP Lighting Technology**HuiZhou, China, www.gplighting.com.cn**Graham Associates Inc**Rockledge, FL, USA, www.grahamrep.com**Grand LED**Shenzhen, Guangdong, China, www.grand-led.com**Green Concepts LED LLC**Marion, MA, USA, www.cleanlightgreenlight.com**Green 4 All Energy Solutions**Genoa City, WI, USA, www.g4all.net**The Green Light Co UK**Forest Row, East Sussex, UK, www.thegreenlightcompany.nl**Green Lighting LED**Erie, PA, USA, www.greenlightingled.com

Greenlight Optics LLCCincinnati, OH, USA, www.greenlightoptics.com**Green Machine Light Engine**Santa Clara, CA, USA,
www.greenmachinelightengine.com**Green Mark Inc**Taipei County, Taiwan, www.green-mark.com**Green Performance Lighting**North Haven, CT, USA,
www.greenperformancelighting.com**Green Supply**Fremont, CA, USA, www.agreensupply.com**Gstar Technology Co Ltd**Shenzhen, China, www.gstar-tech.net**GT Solar**Merrimack, NH, USA, www.gtsolar.com**Guang Li-Light Power Technology**Hualien, Taiwan, www.guangli-lightpower.com**Haeusermann GmbH**Gars am Kamp, Austria, www.haeusermann.at**Hai Chang Industrial Co Ltd**Shenzhen, Guangdong, China,
www.haichanglight.com**Haiku Tech Inc**Miami, FL, USA, www.haikutech.com**Halco Lighting Technologies**Norcross, GA, USA, www.halcolighting.com**HEICO Lighting**St-Eustache, QC, Canada, www.heicolighting.com**Helio Optoelectronics Corp**Hsinchu County, Taiwan, www.heliopto.com**Helvar Oy Ab**Karkkila, Finland, www.helvar.com**HEP Tech Co Ltd**20 Jingke 7th Rd, Nantun Dist, Taichung
408 Taiwan, TEL: 886 4 35009325,
FAX: 886 4 35009327, sales@hep-tech.com.tw,
www.hepgroup.net

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HEP Group is fully dedicated to developing the most advanced green lighting products in pursuit of our corporate social responsibility—the ultimate energy efficiency, lighting quality and sustainable environment. HEP—High-reliability Electronic Performance is our commitment to customers with value-added quality and services. As a strategic partner, we not only promise to meet our customer's needs, but also look forward to becoming an engine of innovation.

Heraeus

Heraeus Inc24 Union Hill Rd, West Conshohocken, PA
19428-2736 USA, TEL: 1 610 825 6050,
FAX: 1 610 825 7061, yin.yin@heraeus.com,
www.thickfilm.net

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Heraeus Materials Technology LLC, Thick Film Division, a global player in the microelectronics industry is proud to introduce our line of thermal management materials for the LED and power electronic packaging applications. The Thick Film Division is a worldwide supplier of thick film pastes, LTCC materials and precious metal powders to the hybrid microelectronics industry. Our RoHS compliant thick film pastes are designed for meeting the expected high performance standards of thick film technology.

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NJ 08807 USA, TEL: 1 908 231 0960,
FAX: 1 908 231 0852, usa@hamamatsu.com,
<http://sales.hamamatsu.com>

Hamamatsu Corp is the North American subsidiary of Hamamatsu Photonics KK (Japan), a leading manufacturer of devices for the generation and measurement of infrared, visible, and UV light. We provide light sources including LED, laser diodes, lamps, flash lamps, UV spot light sources, and others. We also provide cameras, systems, and detectors including photodiodes, photomultiplier tubes, infrared detectors, and others.

Hana VisionGyeonggi-dong, Korea, www.iloveled.co.kr**HBA Tech Ltd**Richmond Hill, ON, Canada, www.hba-tech.com**Heatron Inc**3000 Wilson Ave, Leavenworth, KS 66048 USA,
TEL: 1 913 946 1377, FAX: 1 913 651 5352,
sales1@heatron.com, www.heatron.com

Heatron partners with OEM customers to provide LED solutions that achieve the optimum balance of performance and cost.

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141-8587 Japan, TEL: 81 3 3491 9741,
FAX: 81 3 3493 2933, hirs_ledcon@hirose.co.jp,
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Hirose Electric has developed a wide range of innovative products over 70 years as a worldwide specialized connector supplier. The LED lighting market is rapidly growing and various needs for internal and external connections are increasing. Hirose can offer customers a wide variety of connectors to meet customers' expectations.

HiscoHouston, TX, USA, www.hiscoinc.com**Hokuriku Malaysia Sdn Bnd**Shah Alam, Selangor, Malaysia, www.hdkhms.com.my**Holland Solutions Ltd**Wellington, New Zealand, www.hollandsolutions.co.nz**Home Energy Solutions of the Triad**Greensboro, NC, USA, www.commercialenergync.com**Hongkong Forous Group Co Ltd**Zhuhai, Xiangzhou, China, www.frpower.com**Hong Kong Optoelectronics International Ltd**Wanchai, Hong Kong, www.ledgreenworld.com**Hotbeam**Eltham, Vic, Australia, www.hotbeam.com**House Lighting Co Ltd**Shen Zhen, Guang Dong, China,
www.led-house-lighting.com**Illinois LED Products Inc**Highland Park, IL, USA, www.illinoisledproducts.com**Illumination Optics Inc**Wauwatosa, WI, USA, www.illuminationoptics.com**Illumination Unlimited USA Inc**New York, NY, USA, www.illuminationunlimited.com**Impact Lighting Inc**Orlando, FL, USA, www.impactlightinginc.com**Indal WRTL**Tipton, West Midlands, UK, www.wrtl.co.uk**Industrial Training Consultants Inc**Pelham, AL, USA, www.itctrng.com**Infineon Technologies AG**Neubiberg, Germany, www.infineon.com/lighting**Ing Elmar Schrutek**Wien, Austria, www.schrutek.com**Inno Optoelectronics Ltd**Hong Kong, www.inno-opto.com**Innotec**Zeeland, MI, USA, www.innotecgroup.com**INNOTRONIKS**Santa Clara, CA, USA, www.innotroniks.com**Innovations in Optics Inc**Woburn, MA, USA, www.innovationsinoptics.com**Innovative Custom Lighting Inc**Surrey, BC, Canada, www.innovativecl.com**Innovative LED Lighting Corp**St James, NY, USA, www.whitelightusa.com

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INOV Optical DevelopmentTucson, AZ, USA, www.inov.com**Insight Electronic Group**Lujhu Township, Taoyuan, Taiwan, www.insight.com.tw**Insight Products USA**Lawrenceville, GA, USA, www.insightproductsusa.com**Instrument Systems GmbH**Neumarkter Str 83, Munich, Germany 81673
Germany, TEL: 49 89 454943 0,

FAX: 49 89 454943 11,

info@instrumentsystems.com,www.instrumentsystems.com

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Instrument Systems develops, manufactures and markets turnkey solutions for light measurement. These include high-performance array and scanning spectrometers as well as imaging photometers and colorimeters. Key applications are LED and display measurement, spectroradiometry and photometry. Instrument Systems is one of the leading manufacturers for spectral light measurement systems. The innovative measuring systems from the Munich company deliver accurate and reliable results for all optical parameters of light sources in conformity with CIE recommendations.

InteLED CorpHuntington Beach, CA, USA, www.inteled.com

Intematix

Intematix Corp46410 Fremont Blvd, Fremont, CA 94538 USA,
TEL: 1 510 933 3300, FAX: 1 510 668 0793,mikeko@intematix.com, www.intematix.com

A materials development innovator, providing customizable, patented phosphors that serve as the foundation for high-quality, energy-efficient LED light. Intematix products enable attractive, vivid color quality, superior consistency, uniformity and stability. Headquartered in Fremont, California, Intematix maintains R&D, manufacturing, business and support operations in the United States, Asia and Europe.

International LightPeabody, MA, USA, www.intl-lighttech.com**Interplex Engineered Products**East Providence, RI, USA, www.interplex.com

Intertek

Intertek

3933 US Rt 11, Cortland, NY 13045 USA,

TEL: 1 800 967 5352, icenter@intertek.com,www.intertek.com

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Intertek is a global third-party, independent testing and certification organization for lighting products including LED/solid state lighting for many applications such as residential, commercial, automotive, traffic signal, marine, and airport lighting. Capabilities include photometry, color, environmental and mechanical testing, Energy Star testing and certification, product safety certifications, and more.

IntertronicsKidlington, Oxon, UK, www.intertronics.co.uk

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TEL: 86 571 86632260, FAX: 86 571 86601139,

sales@inventronics-co.com,www.inventronics-co.com

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Headquartered in Hangzhou, China, Inventronics is a Sino-US world class enterprise specialized in the design, manufacture, marketing and sales of high power LED drivers. Employing proprietary cutting-edge circuit design and packaging technologies, our high power LED drivers feature ultra high efficiency (up to 94%), high power factor (0.99), high reliability, and long life. They are ideal for outdoor and industrial lighting applications including LED streetlights and tunnel lights. Inventronics products are designed to power your world with magically optimized performance. Any inquiries on our products or custom design requirements are welcome.

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M Sandberg 2, Triptis, Germany D-07819,

TEL: 49 36482 45 0, FAX: 49-36482-45-206,

lighting-oes@jenoptik.com,www.jenoptik.com/oes_lighting

LEDs open up new dimensions for illumination. The unit of light source, optics, sensors and electronics creates lighting systems with variations of color, brightness and light distribution without any limits. We develop and produce precise injection molded components and optoelectronic modules for illumination applications and we provide project management for all necessary processes and technologies. The essential fields of application are interior and exterior lighting, traffic and transportation, ambient lighting and consumer products.

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486, Section 3, Ming Chih Rd, Taishan Hsiang,

Taipei Hsien Taiwan, TEL: 886 2 2907 1129,

FAX: 886 2 2902 3039, jintay@jintay.com.tw,www.jintay.com.tw

We have almost 30 years of production history, with expertise in the design, development and mass production of aluminum casting for LED heat sink and hardware parts. The quality of our products is superior with unique design to satisfy or exceed our customers' requirements for exportation to the USA, Japan, Europe and southeast Asia market. We are also expanding markets into the huge domestic Chinese market.

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www.juicetechnology.co.uk**JW Speaker Corp**Germantown, WI, USA, www.jwspeaker.com**Kaour Led Co Ltd**Guangzhou, China, www.casor.com.cn**Kaspers Lighting International BV**

Oosterhout, NB, The Netherlands,

www.kasperslighting.com**KEMA**Arnhem, The Netherlands, www.kema.com

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Kingbright Electronic Europe GmbHIssum, Germany, www.kingbright-europe.de

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KLA-Tencor Corp, a leading provider of process control and yield management solutions, partners with customers around the world to develop state-of-the-art inspection and metrology technologies. These technologies serve the semiconductor, data storage, compound semiconductor, photovoltaic, and other related nanoelectronics industries. With a portfolio of industry-standard products and a team of world-class engineers and scientists, the company has created superior solutions for its customers for over 30 years.

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Ljubljana, Slovenia, www.kolektor.com

Konica Minolta Sensing Singapore Pte Ltd

Singapore, www.konicaminolta.com/instruments

Konka LED

Mississauga, ON, Canada, www.konkaamerica.com

KustomXpress.com

Grand Junction, CO, USA, www.kustomxpress.com

**Labsphere Inc**

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Provides optical design solutions by offering software products and consulting. Software includes TracePro, 3D optomechanical solid modeling software for virtual prototyping for design and analysis of almost any optical or illumination system in various markets, e.g. illumination, optics, aerospace, and biomedical. Offers OSLO software for optical design and analysis of image-forming lens systems. TracePro and OSLO are marketed to optical, mechanical lighting engineers and designers, researchers and scientists as a complete solution for design and analysis.

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LDDLIGHT.com - LDD Trading Associates LLC

New Boston, NH, USA, www.lddligh.com

LEDaquariums

Phoenix, AZ, USA, www.ledaquariums.com

LED Argentina SA

Buenos Aires, Argentina, www.led-argentina.com

LEDcentre.uk.com

London, UK, www.ledcentre.uk.com

LED Concepts

Santa Ana, CA, USA, www.ledconcepts.com

LeddarTech

Quebec City, QC, Canada, www.ledartech.com

LED-Depot

Middlesbrough, UK, www.led-depot.co.uk

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LED Emerald

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LED Grow Master Global LLC

Bend, OR, USA, www.led-grow-master.com

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LED International Lighting Inc

Lenexa, KS, USA, www.ledili.com

Ledion Lighting Inc

Taipei, Taiwan, www.ledion-lighting.com

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Shenzhen, Guangdong, China, www.ledke.com

LED Lighting Inc

Northbrook, IL, USA, www.ledlightinginc.com

LED Light Works

Yaroomba, Queensland, Australia,
www.ledlightworks.com.au

LED Linear GmbH

Neukirchen-Vluy, Germany, www.led-linear.com

Ledlume Products

Johannesburg, South Africa, www.ledlume.co.za

LEDnovation

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LED One (Hangzhou) Co Ltd

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LED Optical Solutions

Washington, MI, USA, www.ledoscorp.com

LED Retro8

Parsippany, NJ, USA, www.ledretro8.com

LED Roadway Lighting Ltd

Halifax, NS, Canada, www.ledroadwaylighting.com

Leds America Inc

Jupiter, FL, USA, www.ledsamerica.com

LedScene SA

Buenos Aires, Argentina, www.ledscene.com.ar

The LED Shop

Herberton, Queensland, Australia,
www.ledshoponline.com

LED Source

Wellington, FL, USA, www.ledsource.com

LED Specialists Inc

Kings Park, NY, USA, www.ledspecialists.com

The LED Studio

Petersfield, Hampshire, UK, www.theledstudio.co.uk

LEDSupply

Randolph, VT, USA, www.ledsupply.com/index.php

LED To Lite

Nokomis, FL, USA, www.ledtolite.com

LEDtronics Inc

Torrance, CA, USA, www.ledtronics.com

LEDvista Ltd

Enniscorthy, County Wexford, Ireland, www.ledvista.ie

LED Waves

Brooklyn, NY, USA, www.ledwaves.com

LEDworx GmbH

Vienna, Austria, www.ledworx.com

Lektron Inc

Tulsa, OK, USA, www.lektroninc.com

Lenoo Electronics Co Ltd

Tu-Cheng City, Taipei, Taiwan, www.lenoo.com

Leotek Electronics USA Corp

Milpitas, CA, USA, www.leotek.com

**Ledlink Optics Inc**

15F, No 655, Bannan Rd, Chung-Ho City,
Taipei 235 Taiwan, TEL: 886 2 8227 6126,
FAX: 886 2 8227 6127, service@ledlink-optics.com,
www.ledlink-optics.com

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Ledlink Optics, established in April 2008, is an expert company in designing and manufacturing optics for the emerging solid-state lighting companies such as Cree, Citizen, Edison, Lumileds, Nichia, Osram, Samsung, Seoul and other LED manufacturers. Our mission is to help our customers to optimize optics performance in creating solid-state lighting products. Lenses are available in a wide variety of packages with numerous beam pattern options and sizes, such as residential, commercial, street or architectural lighting.

**Lextar Electronics Corp**

No 3, Gongye E 3rd Rd, Hsinchu Science Park,
Hsinchu 30075 Taiwan, TEL: 886 3 5658800,
FAX: 886 3 5638319, www.lextar.com

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Lextar Electronics Corp is the leading LED maker integrating upper stream epitaxial, middle stream chip, and downstream package, SMT and LED lighting applications. Founded on May 2008, Lextar is a subsidiary of AU Optronics, the leading TFT-LCD and solar PV manufacturer. Lextar specializes in manufacturing LED epi, chips and packaging, as well as energy-saving and smart lighting products. The range of applications includes LCD backlight, commercial lighting source, consumer lighting source and various lighting solutions.

company directory | LG INNOTEK

LG InnotekSeoul, Korea, www.lginnotek.com/main.jsp**Lightech Electronics**Tampa, FL, USA, www.lighttechinc.com**Light Emission Technology Ltd**New York, NY, USA, www.ledemission.com**Light Emitting Designs LLC**North Barrington, IL, USA, www.led-llc.com**Light Engines LLC**Sturbridge, MA, USA, www.lightengines.com**LightGuard**Burgaw, NC, USA, www.lightguard.com**Lighthouse WorldWide LLC**Milford, CT, USA, www.lighthouseww.com**Lighting and Production Resources**Winter Park, FL, USA,
www.lightingandproductionresources.com**Lighting Every Dimension Ltd**Fishkill, NY, USA, www.facebook.com/revau**Lighting Science Group Corp**Satellite Beach, FL, USA, www.lsgc.com**Lighting Sciences Inc**Scottsdale, AZ, USA, www.lightingsciences.com**Light Ocean Technology Corp**Hsinchu City, Taiwan, www.lightocean.com.tw**Light Prescriptions Innovators LLC**Altadena, CA, USA, www.lpi-llc.com**Lightscape Materials Inc**201 Washington Rd, Princeton, NJ 08540 USA,
TEL: 1 609 734 2227, FAX: 1 609 734 2249,
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LED lighting is an emerging technology that is expected to change the landscape of lighting in the 21st century. Lightscape Materials Inc is developing and supplying, a variety of high-quality novel phosphor solutions engineered specifically for the LED lighting industry. With a long history of phosphor innovation LMI (a Sarnoff Corp spin-off) is uniquely positioned to address the many performance challenges required to create phosphor products for LED applications.

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238 Taiwan, TEL: 886 2 7703 6000,
FAX: 886 2 7703 6286,
allen_chen@mail.ligitek.com, www.ligitek.com

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The Ligitek Group is positioning itself to be quoted on the Taiwan stock market and remain at the forefront of LED technology. We have significantly increased our investment capital to purchase the latest hi-tech equipment. Ligitek Electronics designs, develops and manufactures a broad range of optoelectronic components for use in a wide variety of applications. Our focus on this specialist field has resulted in technology advances providing a high level of support for our customers.

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Shanghai, China, TEL: 86-21-64189308,
FAX: 86-21-64187908, sales@lontinled.com,
www.lontinled.com

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Specializes in the import and export of energy-saving LED products as well as the design and application of complex LED illumination systems.

LORD CorpCary, NC, USA, www.lord.com**Lotus LED Lights**Surrey, BC, Canada, www.lotusledlights.com**Lumenarex Inc**Lafayette, CO, USA, www.lumenarex.com**Lumenpulse**Montreal, QC, Canada, www.lumenpulse.com**Lumentra Inc**Toronto, ON, Canada, www.lumentra.com**Lumex**Palatine, IL, USA, www.lumex.com**LumiCe Co Ltd**Seoul, Korea, www.lumice.com**Lumichip Ltd**1701 Tai Yau Bldg, 181 Johnston Rd,
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FAX: 85 2234 38448, sales@lumichip.com,
www.lumichip.com

Lumichip is a technology company supplying advanced LED packaging and manufacturing solutions and light engines into the lighting industry. The company's designs, development and manufacturing operations in Asia and Europe provide customization and service support to its worldwide client base. Unique proprietary positioning in materials and processing technologies guarantee success.

Lumicrest Lighting Solutions IncToronto, ON, Canada, www.lumicrest.com**Lumi Lime Ltd**Kowloon, Hong Kong, www.lumilime.com**Lumimax Optoelectronic Technology**Fremont, CA, USA, www.lumimaxusa.com**Luminarch**Lincolnwood, IL, USA, www.luminarch.com**Luminit**Torrance, CA, USA, www.luminitco.com**Lutron Electronics**Coopersburg, PA, USA, www.lutron.com**Luums International BV**Culemborg, The Netherlands, www.luums.com**LuxInTec SL**Aldeamayor de San Martin - Valladolid, Spain,
www.luxintec.com**Luxon Sp zoo**Wroclaw, Dolny Slask, Poland, www.luxon.pl**LUX-TSI Ltd**Pencoed, Bridgend, UK, www.lux-tsi.com**Lynk Labs Inc**2511 Tehnology Dr, Suite 108, Elgin, IL 60124
USA, TEL: 1 847 783 0123, FAX: 1 847 783 0130,
lynk@lynklabs.com, www.lynklabs.com
■ See ad on page 2

Lynk Labs is the LED industry's leading manufacturer of AC LED packages, light engines, drive and system technology. Lynk Labs patented AC LED light engine technology delivers a product that simplifies the design challenges and reduces the cost of integrating LEDs into AC power sources. Accelerate product design and time to market with Lynk Labs AC LED technology.

Macroblock Inc6F-4 No 18 Pu-Ting Rd, Hsinchu, Taiwan 300,
TEL: 886 3 579 0068, FAX: 886 3 579 0125,
marketing@mblock.com.tw, www.mblock.com.tw
■ See ad on page 48

Macroblock Inc provides reliable and intelligent LED drivers for a wide range of LED applications. Solutions for LED video displays and traffic signs feature advanced color enhancement, smart error detections, current adjustment, and power saving. Solutions for LED architectural lighting feature reliable transmission and color performances. Solutions for LED general lighting and automotive lighting feature high efficiency and safety.



Magtech Industries Corp
5625-A S Arville St, Las Vegas, NV 89118 USA,
TEL: 1 702 364 9998, FAX: 1 702 364 1562,
csupport@magtechind.com, www.magtechind.com

Magtech Industries Corp is a US based company dedicated exclusively to the design, manufacture, and distribution of high quality, switch-mode power supplies. We provide solutions from wall-mount, desktop adaptors, LED power supply/drivers, industry standard open frame and close frame power supplies and DIN rail mount industrial switchers.

Majantys

Le Bourget du Lac, France, www.majantys.com

Mango Electronics

Bexhill on Sea, East Sussex, UK,
www.sauna-steam.co.uk

MANOR doo

Cakovec, Croatia, www.manor.hr

Marc LED Ltd

Epsom, Surrey, UK, www.marclcd.com

Marian Inc

Indianapolis, IN, USA, www.marianinc.com



Marktech Optoelectronics
3 Northway Ln N, Latham, NY 12210 USA,
TEL: 1 518 956 2980, FAX: 1 518 785 4725,
info@marktechopto.com, www.marktechopto.com

Marktech is an industry leader in LED technology, products and solutions for more than 25 years. Expertise in supplying high reliability components for precision scanning and sensing applications, solid state illumination and instrumentation display. Advanced optoelectronic technologies for machine vision, infrared detection, optical encoders and VMS portable traffic displays. Marktech also partners with Cree and Toshiba offering a full spectrum of LED and LED driver products.

Matrix LED

Cromer, NSW, Australia, www.matrixled.com.au



Matrix Lighting Ltd
Rm 223-231, 2/F, East Wing, TST Centre,
66 Mody Rd, Kowloon, 852 Hong Kong,
TEL: 852 2723 2302, FAX: 852 2722 1040,
lighting@matrix.hk.com, www.viribright.com

See ad on page 4

Matrix Lighting Ltd, manufacturer of VIRIBRIGHT LED lighting products, concentrates its business on the development of LED lighting and manufacturing. Matrix Lighting has a development team focused on research and development of LED drivers, heat management, optics, mechanical and lighting product design. Our mission is to be innovative through new designs and to produce the highest quality products at incredible value. The company has manufacturing plants in China and Vietnam.

Maxim Integrated Products

Sunnyvale, CA, USA, www.maxim-ic.com

MAZeT GmbH

Jena, Germany, www.mazet.de



McWong International Inc
2544 Industrial Blvd, West Sacramento, CA 95961
USA, TEL: 1 916 371 8080, FAX: 1 916 371 6666,
support@mcwonginc.com, www.mcwonginc.com

McWong's portfolio of advanced LED power supply and drivers features high power density application with the benefit of substantial energy savings, accepts universal input-voltage range, utilizes two dimming interfaces to achieve smooth transition from 0 to 100%, has no inrush current and an environmentally friendly lighting solution.



Mean Well USA Inc

44030 Fremont Blvd, Fremont, CA 94538 USA,
TEL: 1 510 683 8886, FAX: 1 510 683 8899,
michael@meanwellusa.com,
www.meanwellusa.com

See ad on page 43

Standard power supply manufacturer since 1982, Mean Well is a global power supply company, we have more than 2500 models for commercial and industrial applications, great quality, competitive pricing, on time delivery and can be a long term power partner for your business.

Medical Lighting Systems

Santa Ana, CA, USA,
www.medicallightingsystems.com

Megasil Chemical Co Ltd

Taipei, Taiwan, www.megasil.com.tw

Meiji Techno America

Santa Clara, CA, USA, www.meijitechno.com

Melux Control Gears PLtd

Pune, Maharashtra, India, www.melconindia.com

MessageMaker Displays Ltd

Surrey, UK, www.messagemaker.co.uk

Millennium Visual Systems

Chestnut Ridge, NY, USA, www.millenniumvisuals.com

Milliken Distribution

Englewood, FL, USA, www.millikendistribution.com

Mimaki ECO Lighting Solutions

San Marcos, CA, USA, www.mimaki-ls.com

Minuteman Laboratories Inc

Chelmsford, MA, USA

MIRROR Lighting Inc

Lenexa, KS, USA, www.mirrorlighting.com

MKS Instruments Inc

Andover, MA, USA, www.mksinst.com

Molex Inc

Lisle, IL, USA, www.molex.com

Moons Industries (Europe) srl

Gross-Zimmern, Germany, www.moonsindustries.eu

MOSO USA Inc

Cerritos, CA, USA, www.mosousa.com

Motif Architectural Lighting

Santa Ana, CA, USA, www.motiflighting.com

MP Producciones SA de CV

Mexico City, Distrito Federal, Mexico,
www.mpproducciones.com.mx

MSP Corp

Shoreview, MN, USA, www.msppcorp.com

MTEC GmbH

Wels, Austria, www.mtec.at

MultiMedia Farms

Canfield, OH, USA, www.multimediasfarms.com

Nanker LED Lighting Ltd

Guangzhou, China, www.nanker.com



National Semiconductor
2900 Semiconductor Dr, Santa Clara, CA
95051-0608 USA, TEL: 1 408 721 5000,
www.national.com

See ad on page 55

National Semiconductor's analog portfolio features leading-edge operational amplifiers, interface technologies, data converters, and power management solutions. These devices provide solutions for high-efficiency lighting, precision data acquisition, high-speed serial communication and power conversion. As a recognized world leader in power management, National continues to pioneer new energy-efficient devices, sub-systems and architectures for next-generation system designs.

Nav-comm

Utley, Yorkshire, UK, www.nav-comm.net

Neon-EC Ltd

St Petersburg, Russian Federation, www.e-neon.ru

Neo-Neon LED Lighting International Ltd

He Shan City, Quandong, China, www.neo-neon.com

N E Technology Ltd

Cambridgeshire, UK, www.netledlighting.co.uk

Next Generation Lights Inc

Flushing, NY, USA, www.nextgenlights.com

Nichia America Corp

48561 Alpha Drive, Suite 100, Wixom, MI 48393,
TEL: 1 248 349 9800, FAX: 1 248 349 9814,
info@nichia.com, www.nichia.com

See ad on page 67

Nichia is the global leader in the LED market, as well as the innovator of the world's first white LED. Nichia creates and manufactures LEDs for a variety of markets including, signage, display, automotive, cell phone, and all types of lighting for retail, architectural, commercial, industrial and residential applications.

Nitride Crystals Inc

Deer Park, NY, USA, www.nitride-crystals.com

Nooteboom Elektronica

Helmond, Noord Brabant, The Netherlands,
www.nooteboom.biz

Nordson ASYMTEK

Carlsbad, CA, USA, www.nordsonasymtek.com

company directory | NORLUX



Norlux
575 Randy Rd, Carol Stream, IL 60188 USA,
TEL: 1 602 784 7500,
thomas.horgan@norluxcorp.com,
www.norluxcorp.com

Norlux is a premier company in North America specializing in the design and manufacture of custom light emitting diode (LED) lighting solutions. As a solutions company, Norlux partners with OEM's, distributors, engineers, and designers to design and build LED applications. The Norlux team will work with you from concept through design, prototype builds and pilot runs to full-blown manufacture of finished product. We offer customized design solutions utilizing established, but modifiable platforms. Our team of mechanical, electrical, industrial, manufacturing and quality engineers will compliment your team for success.

Northeast Green Energy Group Inc
Merrimac, MA, USA, www.negegroup.com

Notis Design
Novocherkassk, Rostov-on-don, Russian Federation,
www.notis-group.ru

NuSil Technology
Carpinteria, CA, USA, www.nusil.com

Nuventix Inc
Austin, TX, USA, www.nuventix.com

NXP Semiconductors
Eindhoven, France, www.nxp.com

Obducat Technologies AB
Malmo, Sweden, www.obducat.com

Odakled
Istanbul, Turkey, www.ledyum.com.tr

OEC AG
Munich, Germany, www.oec.net



ON Semiconductor
5005 E McDowell Rd, Phoenix, AZ 85008 USA,
TEL: 1 602 244 3182, FAX: 1 602 244 3345,
colum.o'neill@onsemi.com

Provides an extensive range of LED driver solutions for a diverse range of applications covering the gamut from portable battery powered products to general and architectural solid state lighting products powered directly from the AC line. As a leader in power efficiency solutions, ON Semiconductor is leveraging its strengths in power management and high volume manufacturing to develop application specific LED drivers tailored to the needs of evolving portable, consumer, industrial and automotive marketplaces.

Onstate Technologies
New Westminster, BC, Canada, www.onstatetech.com

Operations Technology Inc
Blairstown, NJ, USA, www.optek.net

OPTEK Technology
Carrollton, TX, USA, www.optekinc.com

Optical Illumination Corp
Craig, CO, USA, www.oic-us.com

Optical Semiconductors Inc
Peekskill, NY, USA, www.opticalsemiconductors.com

Optics Balzers AG
Balzers, Liechtenstein, www.opticsbalzers.com



OPTILED Lighting
Suite 2302, 23/F, One Landmark E, 100 How
Ming St, Kwun Tong, Kowloon 000 Hong Kong,
TEL: 852 2607 4268, FAX: 852 2638 5631,
info@optiled.com, www.optiled.com
■ See ad on page 71

As a leading expert and provider of LED lighting products for across the entire range of functional lighting applications, OPTILED is leading the world into a new era of lighting based on LED technology. OPTILED products distributes light more equally and eliminates harsh glare, letting customers see an immediate and dramatic difference in their environment.



OPTIS
BP 275, Ze La Farlede, Toulon Cedex 9 83078
France, TEL: 33 494086690, FAX: 33 494086694,
sales@optis-world.com, www.optis-world.com

OPTIS develops and markets CAD-integrated software for the simulation of light and optics and for photo-realistic rendering. In 1989, OPTIS launched the first industrial photometric software for industry. This development, unique in the world led onto OPTIS focusing more and more on the light simulation needs of industries such as automotive, electronic display, defense, lighting, and electronic appliances.

Optocore Ltd
Athens, Greece, www.optocore.gr



Opto Diode Corp
750 Mitchell Rd, Newbury Park, CA 91320 USA,
TEL: 1 805 499 0335, FAX: 1 805 499 8108,
sales@optodiode.com, www.optodiode.com
■ See ad on page 9

Supplies the global market with reliable, high quality IR LEDs and custom LEDs in the visible range since 1981. Latest products include high performance photodetectors, both standard and custom devices, manufactured in our domestic, U.S. facility. Signature high standards and uncompromising attention to quality and detail inherent in the LEDs, are now incorporated in the new photodetectors product line.

Optogan GmbH
Landshut, Germany, www.optogan.com

Optoma Technology Inc
Fremont, CA, USA, www.optomaled.com

Optomistic Products Inc
South Freeport, ME, USA,
www.optomisticproducts.com

Optogan Group
Dortmund, Germany, www.optogan.com

Opto System Co Ltd
Kyotanabe City, Kyoto, Japan,
www.opto-system.co.jp/en

Optotek Ltd
Ottawa, ON, Canada, www.optotek.com

Opulent Technologies Inc
San Jose, CA, USA, www.opulenttech.com



Orb Optronix Inc
1003 7th Ave, Kirkland, WA 98003 USA,
TEL: 1 425 605 8500, FAX: 1 801 912 2645,
sales@orboptronix.com, www.orboptronix.com
■ See ad on page 35

Dedicated to leading LED technology adoption by providing test and measurement products and engineering services for illumination, optical and opto-electronic industries. LED measurement lab provides electrical-optical-thermal characterization of LEDs as well as LED lifetime studies, Energy Star/LM-79 SSL luminaire testing, LED binning and sorting, and LED eye safety measurements. LED technology Center provides services by experienced high power LED engineering staff that includes optical, thermal, mechanical, electrical, software, and industrial design engineering experts.

Oree Advanced Illumination Ltd
Ramat Gan, IL, Israel, www.oree-inc.com

OSA Opto Light GmbH
Berlin, Germany, www.osa-opto.com



OSRAM Opto Semiconductors GmbH
Leibnizstr 4, Regensburg 93055 Germany,
TEL: 49 941 850 1700, FAX: 49 941 850 3302,
support@osram-os.com, www.osram-os.com
■ See ad on front cover

As one of the world's leading manufacturers of optoelectronic semiconductors for the lighting, sensor and visualization sectors, OSRAM Opto Semiconductors regularly launches new technologies and products that make a lasting difference to these sectors. More than three decades of experience in the development and manufacture of optoelectronic semiconductor components have made OSRAM Opto Semiconductors one of the most significant innovation and technology drivers in Germany.

OSRAM Sylvania

100 Endicott St, Danvers, MA 01923-3623,
TEL: 1 978 777 1900, FAX: 1 978 750 2152,
ledlighting@sylvania.com, www.sylvania.com

■ See ad on page 11

OSRAM Sylvania offers innovative, integrated SSL system solutions for automotive and general lighting applications that leverage more than a century of experience in serving the lighting industry. Products and services offered include the design, development and manufacturing of SSL modules, power supplies and control systems with industry-leading quality and a strong product warranty. Direct access to OSRAM Opto Semiconductor, the second largest supplier of LEDs, enables the rapid introduction of innovative, high-performance SSL products that reflect the state-of-the-art in LED technology.

Outwater Plastics Industries Inc

Bogota, NJ, USA, www.outwater.com

Ovation Polymers

Medina, OH, USA, www.opteminc.com

Para-Coat Technologies Inc

Johnstown, PA, USA, www.pctconformalcoating.com

Parker Chomerics

Woburn, MA, USA, www.chomerics.com

Penchem Technologies Sdn Bhd

Perai, Penang, Malaysia, www.penchem.com

PerkinElmer Inc

Wheeling, IL, USA, www.perkinelmer.com/lighting

**PHILIPS
bodine**

Philips Emergency Lighting

236 Mt Pleasant Rd, Collierville, TN 38017 USA,
TEL: 1 800 223 5728, FAX: 1 901 853 8694,
bodineinfo@philips.com, www.philips.com/bodine

Philips Emergency Lighting has the solution for emergency lighting in LED applications. The company's Philips Bodine brand emergency LED drivers allow LED fixtures to serve as code-compliant emergency lighting. The emergency drivers are available for a variety of fixture types, including the Fortimo DLM and SLM. The Philips Bodine ELI-S-20 micro inverter is a great emergency lighting solution for screw-in LED lamps. Philips Emergency Lighting is a division of Philips Electronics North America Corp.

Philips Hadco

Littlestown, PA, USA, www.hadco.com

Philips Hanover Lantern

Littlestown, PA, USA, www.hanoverlantern.com

Philips Lighting UK

Guildford, Surrey, UK, www.lighting.philips.co.uk

Philips Lumec

Boisbriand, QC, Canada, www.lumec.com

LUXEON
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Philips Lumileds Lighting

370 W Trimble Rd, San Jose, CA 95131 USA,
TEL: 1 408 435 6111, FAX: 1 408 435 6855,
info@lumileds.com, www.philipslumileds.com

■ See ad on inside front cover

Philips Lumileds delivers illumination-grade power LEDs and outstanding worldwide service and design support that customers need to rapidly develop solid-state lighting solutions. As the industry leader in LEDs, Lumileds' LUXEON LEDs are used widely in retail, entertainment, outdoor, automotive, portable, digital imaging, signal, and many other applications. Philips Lumileds is a pioneer in epitaxial, packaging, and phosphor technologies specifically designed to deliver the most lumens per watt, per package and per dollar with the widest operating range, reliability and lumen maintenance in the industry.

PHILIPS

Philips Roadway Lighting

10275 W Higgins Rd, Rosemont, IL 60018 USA,
TEL: 1 847 390 5111, FAX: 1 847 332 0305,
philipsroadwaylighting@philips.com,
www.philips.com/roadwaylighting

Philips Roadway Lighting has been established to provide innovative solutions that improve the visibility of our highways and roads. With our collective passion, expertise, depth and reach, we open up new possibilities powered by advanced technologies. We are determined to innovate, collaborate and provide unsurpassed value to our customers.

Phillips Engineering LLC

Portland, CT, USA, www.phillipsengineering.net

Phoseon Technology Inc

Hillsboro, OR, USA, www.phoseon.com

Phostech Optical Consulting

Chicago, IL, USA, www.phostech.com

Phoster Industries

Montreal, QC, Canada, www.phosterindustries.com

PicusLED

Son, Philippines, www.picusled.com

PLANSEE SE

Reutte, Austria, www.plansee.com

Plasma-Therm

Plasma-Therm

10050 16th St N, St Petersburg, FL 33716 USA,
TEL: 1 727 577 4999,
FAX: 1 727 577 7035,
information@plasmatherm.com,
www.plasmatherm.com

Plasma-Therm is the global technological leader for designing, manufacturing and supporting plasma etch and plasma enhanced chemical vapor deposition (PECVD) equipment to various high technology market segments and industries. Plasma-Therm systems are used in specialty market applications ranging from leading edge university R&D to high volume production.

The Pompeo Group

Albuquerque, NM, USA, www.pompeo.com

Positronic Industries

Springfield, MO, USA, www.connectpositronic.com

Power Audiovisual Rental Co

Madrid, Spain, www.powerav.es

Powerbox

Westminster, CO, USA, www.powerboxusa.com/ssl

POWERLED

PowerLED Lighting Corp

5F-9, No 8, Sec 1, Zhongxing Rd, Wugu District, New Taipei City 24872 Taiwan,
TEL: 886 2 8976 9602, FAX: 886 2 8976 9605,
www.powerledopto.com

PowerLED Lighting Corp was established by a team of experts in LED industries. Our strong design expertise includes power supply, thermal solution and optic design. PowerLED provides a broad range of indoor lights including aquarium, jewelry, spot, commercial, candle, floodlights, color-switchable lights and more.

Power Partners Inc

Hudson, MA, USA, www.powerpartners-inc.com

Power Research Electronics

Oosterhout, The Netherlands, www.pr-electronics.nl

Power Vector

Waterloo, ON, Canada, www.powervector.com

Precision Photometrics Ltd

Edinburgh, UK, www.precisionphotometrics.com

Prime Light Pte Ltd

Singapore, www.prime-light.com

Producciones Marambio & Jorquera SA de CV

Mexico City, Distrito Federal, Mexico,
www.mpproducciones.com.mx

Products with Passion

Brooklyn, NY, USA, www.productswithpassion.net

**ProLight Opto
Technology Corporation**

ProLight Opto Technology Corp

No 10-1, Kung-Yeh 10th Rd, Ping Chen Industrial Zone, Ping Chen, Taoyuan 324 Taiwan,
TEL: 886 3 419 2099, FAX: 886 3 419 2377,
patrick.wang@prolightopto.com,
www.prolightopto.com

ProLight Opto is a 100% high power LED Taiwanese manufacturer with invention package patents granting mainly from the US, Taiwan and China. It is dedicated to the research, development, and manufacturing of mid and high power with high reliability LED. It has a series of products including 0.3W, 0.5W, 1W, 3W, 4W, 5W, 10W, 15W and more. All of its LEDs meet JEDEC MSL 2a criteria and are suitable for lead-free IR re-flow process.

company directory | PROTECT-R-SHIELD

protect-r-shield®
CONFORMAL COATING**Protect-R-Shield**

116 Ryan Patrick Dr, Salisbury, NC 28147 USA,
TEL: 1 704 633 2100, FAX: 1 704 633 3420,
info1@shatrshield.com, www.protectrshield.com

Protect-R-Shield is the clear, non-yellowing premier conformal coating for LED and printed circuit boards. Elements such as moisture penetrate and render valuable electronic circuitry and components inoperative. The computer controlled Protect-R-Shield coating is selectively applied to "protect and shield" critical electronics from the harmful effects of environmental contaminants.

ProTerra LED Inc

Brantford, ON, Canada, www.proterraled.com

PTH Group

Castiglione Olona, Italy, www.pth-group.com

Puritan Plastics Inc

Kitchener, ON, Canada, 1 519 501 1094

Quasar Light Co Ltd

Shenzhen, Guangdong, China, www.quasarled.com

Raled LLC

Winter Springs, FL, USA, www.raleled.com

Ramp Plus Technologies Pvt Ltd

Bangalore, Karnataka, India, www.rampplus.com

Rayconn Electronics Co Ltd

4A, Tongsheng Technology Bldg, Shanghenglang,
Da lang, Longhua Town, Bao'an District, Shenzhen,
China 518109, TEL: 86 755 368 12700,
FAX: 86 755 36810799, sales@rayconn.net,
www.rayconn.net

■ See ad on page 75

Rayconn Electronics Co Ltd, established in 2004, is a high-tech firm dedicated to integrating advanced technology with LED based lights for our customers around the world.

RECOM Power Inc

Brooklyn, NY, USA, www.recom-power.com

RedBird LED

Atlanta, GA, USA, www.redbirdled.com

RenovaSolar Lda

Lisboa, Portugal, www.renovasolar.pt

RGB Lights

Lincolnwood, IL, USA, www.rgblights.com

Richtek Corp

San Jose, CA, USA, www.richtek.com

Rincker Productions

Den Haag, China, www.ledstart.com

ROAL
living energy**ROAL Electronics SpA**

via Jesina, 56/a, Castelfidardo, Ancona
60022 Italy, TEL: 39 071 721461,
FAX: 39 071 72146480, info@roallivingenergy.com,
www.roallivingenergy.com

■ See ad on page 40

ROAL Electronics is an innovations company with a significant intellectual property and products portfolio in digital power control and solid state lighting (LED) electronics. ROAL's technology focus includes switch mode power supplies, LED drivers, HB LED modules, DSP controls, DMX control interface, motor controls and thermal Design. Choose from hundreds of "fixture ready products" with the highest efficiencies and smallest packages in the industry. Interactive Product Search Tool available on our new website. Visit today.

Robertson Worldwide

Blue Island, IL, USA, www.robertsonww.com

**ROHM Semiconductor USA LLC**

6815 Flanders Dr, Suite 150, San Diego, CA 92121
USA, TEL: 1 888 775 7646, FAX: 1 858 625 3670,
rohmmarketing@rohmsemiconductor.com,
www.rohm.com/us

ROHM is the world's largest component-only manufacturer of IC, discrete and module products. ROHM designs and manufactures a wide range of components in the optoelectronic sector including chip and lamp LEDs as well as dot matrix and numeric displays. ROHM's latest PICOLED series chip LEDs has expanded its lineup to include PICOLED-eco, PICOLED-RGB, PICOLED-duo and the industry's smallest PICOLED-mini. ROHM's LEDs find a home in wireless, computer, automotive and consumer electronics markets.

Rosco Laboratories Inc

Stamford, CT, USA, www.rosco.com

RTP Co

Winona, MN, USA, www.rtpcompany.com

RUDOLPH
TECHNOLOGIES**Rudolph Technologies Inc**

One Rudolph Rd, PO Box 1000, Flanders, NJ 07836
USA, TEL: 1 973 691 1300, FAX: 1 973 691 4863,
info@rudolphtech.com, www.rudolphtech.com

Rudolph Technologies is a worldwide leader in the design, development, manufacture and support of defect inspection, process control metrology, and data analysis systems and software used by semiconductor device manufacturers worldwide. The company's process control and yield management solutions are used in IC wafer processing and final manufacturing as well as in emerging markets such as LED and solar. Rudolph supports its customers with a worldwide sales and service organization.

Rui Meng Electronics Co Ltd

Shenzhen, Guangdong, China, www.rmledlights.com

Runion Energy Solutions LLC

Inwood, WV, USA, www.runionenergy.com

S3J Electronics LLC

Lancaster, NY, USA, www.s3jelec.com

Sagitario Lighting SLU

Barcelona, Spain, www.sagitariolighting.com

SAKMA Electronica Industrial, SA

Barcelona, Catalonia, Spain, www.sakma.com

Sander Electronics

Orangevale, CA, USA, www.sanderelectronics.com

Saniltech Co Ltd

Incheon, Korea, www.saniltech.com

SATHEA

Prague 6, Czech Republic, www.sathea.cz

SavWatt USA Inc

Baltimore, MD, USA, www.savwatt.com

Scape Light Co Ltd

Shenzhen, Guangzhou, China, www.scape-light.com

SchahLED Lighting

Munich, Germany, www.schahled.de

Secol

Bursa, Turkey, www.secol.eu

Seesmart LED

Simi Valley, CA, USA, www.seesmartled.com

Selectronic

Witney, UK, www.selectronic-uk.com

SemiLEDs
999 Main St, Suite 1010, Boise, ID 83702 USA,
TEL: 1 208 389 7426, FAX: 1 208 728 3700,
sales@semileds.com, www.semileds.com

SemiLEDs is a manufacturer of ultra-high bright LED chips with state of the art fabrication facilities in Hsinchu Science Park, Taiwan. SemiLEDs specializes in the development and manufacturing of metal alloy vertical LED chips in blue (white), green and UV using our patented and proprietary MvpLED technology. This unique design allows for higher performance and longer lumen maintenance. SemiLEDs new high power I-core MvpLEDs can deliver over 120lm/W.

SemiProbe

Winooski, VT, USA, www.semiprobe.com

Senslite Corp

Jhubei City, Hsinchu County, Taiwan,
www.senslite.com.tw

Senso Lighting Inc

Calgary, AB, Canada, www.sensolighting.com

Shanghai BMT Automation

Shanghai, China, www.bmtsh.com

Shanghai Neolux LED Lightings Co Ltd

Shanghai, China, www.neoluxled.com

Shanghai Yaming-Lighting Co Ltd

Shanghai/Jiading, China, www.yaming-lighting.com

**Shanxi Guangyu LED Lighting Co Ltd**

Shanxi Guangyu Industrial Gardern Yaomiao District, Linfen, Shanxi 041000 China,
TEL: 86 10 62113630, FAX: 86 10 62153948,
sales@gyledlight.com, www.gyledlight.com

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Established in 1988, Shanxi Guangyu LED Lighting Co Ltd is a high-tech corporation focusing on researching, producing, selling, installing and designing powerful LED light sources, LED indoor lighting products and outdoor lighting products, LED mining lighting products, lithium batteries and lithium battery packs.

Sharp Microelectronics Europe

Sonninstrasse 3, Hamburg 20097 Germany,
TEL: 49 180 507 35 07, info.sme@sharp.eu,
www.sharpleds.eu

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Based on a modular design Sharps lighting LED portfolio comprises of around 120 LED components for lighting applications ranging from 3228 chip size LEDs with a luminosity of about 17 lm to high power LED modules of the Zenigata series with up to 2450 lm at 25W. Sharp LEDs feature a light efficiency of up to 100 lm/W with high CRI values of up to 94 and a lifetime of 40,000h.

Sheffield Plastics

Sheffield, MA, USA, www.sheffieldplastics.com

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Shenzhen, China, www.szabsen.com

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FAX: 86 755 2998 8616, jasonyang@bbele.com, www.bbele.com

■ See ad on page 64

Founded in 1998, we are a professional manufacturer, supplier and exporter of LED street lights, street lightings, light bulbs, lights, traffic lights and traffic signals.

Shenzhen Bright Lighting Technology

Shenzhen, China, www.bright-led-lighting.com

Shenzhen Chenze SSL Co Ltd

Shenzhen, Guangdong, China, www.9981led.com

Shenzhen Chipower Technology Co Ltd

Shenzhen, China, www.chipower.net

Shenzhen Dicolor Optoelectronics Co Ltd

Shenzhen, China, www.dicolor.cn

Shenzhen Fujisunwah Electronic Technology Co Ltd

Shenzhen, China, www.fujisunwah.com

Shenzhen Hongxing Lighting Co Ltd

Shenzhen, Guangdong, China, www.highsong.com

Shenzhen Jiuzhou Optoelectronics

Shenzhen, China, www.jz-led.com

Shenzhen Lamp Technology Co Ltd

Shenzhen, China, www.szlamp.net

Shenzhen LCF Tec Co Ltd

Shenzhen, China, www.sz-lcf.com.cn

Shenzhen Leadertone Industry Co Ltd

Shenzhen, Guangdong, China,
www.leadertlight.com.cn

Shenzhen Longvo Technology Development Co Ltd

Shenzhen, Guangdong, China, www.longvo.hk

Shenzhen MR Photoelectricity Co Ltd

Shenzhen, Guangdong, China, www.mrled.cn

Shenzhen Refond Optoelectronics Co Ltd

Shenzhen, China, www.refond.com

Shenzhen RSB Fullcolor Display-tech Co Ltd

Shenzhen, Guangdong, China, www.rsbledsign.com

Shenzhen Spark Optoelectronics

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Shenzhen Wonderful High Technology Co Ltd

Shenzhen, China, www.whtled.com

Shin-Etsu Silicones of America

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Sielement Technologies Ltd

Shenzhen, Guangdong, China, www.sielement.com

Signcomplex Ltd

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FAX: 86 755 2760 8651, info@signcomplex.com,
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Signcomplex is a leading manufacturer of LED lighting products in China. As an ISO9001:2000 certified company, Signcomplex has products CE approved and RoHS compliant. Signcomplex has become the biggest supplier of LED strip lighting. It also provides a diversified range of products to service architectural, commercial and home lightings.

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Milpitas, CA, USA, www.silicon-core.com

Silvermere Lighting

Lexington, MN, USA,
www.silvermereinternational.com

Silver Star

Guangzhou, China, www.yagang.com

SinkPAD Corp

Placentia, CA, USA, www.sinkpad.com

Smartgreen Technology Co Ltd

Shenzhen, China, www.smtgreen.com

Smart Technologies Electronics Ltd

Shenzhen, China, www.smartledlamp.com

Smitties Lights and Sirens

Kimberley, South Africa,
www.smitties-emergency.webs.com

SolarOne Solutions Inc

Needham, MA, USA, www.solarone.net

Solas Lights for Life Ltd

Kilmarnock, Scotland, UK, www.led-solutions.co.uk

Solid Apollo

Lynnwood, WA, USA, www.solidapollo.com

Solid State Luminaires

St Charles, IL, USA, www.solidstateluminaires.com

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Candiac, QC, Canada, www.solmadis.ca

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Spring City Electrical Manufacturing

Spring City, PA, USA, www.springcity.com

SSLI Ltd

Cardiff, UK, www.sсли.com

Stanley Electric Co Ltd

Tokyo, Japan, www.stanley-components.com/en

Stanley Electric Co Ltd (UK)

Bracknell, Berks, UK, www.stanley-components.com,
www.stanley.co.jp/e/, www.stanley-nlb.com/en/

Starled Inc

Carson, CA, USA, www.starled.com

Stellaray Technology Ltd

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Aston, PA, USA, www.stouchlighting.com

STR Group Ltd

St Petersburg, Russian Federation, www.str-soft.com

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Sunsify International

Santa Clara, CA, USA, www.sunsify.com

Supreme Electroplast Industries

Mumbai, India, www.supshitl.com

SUSS MicroTec

Garching, Germany, www.suss.com

Svetel LLC

St Petersburg, Russian Federation, www.svetled.org

Switch Lighting

Nelson, New Zealand, www.switch-lighting.co.nz

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3280 E Foothill Blvd, Suite 300, Pasadena,
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www.taconic-add.com

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TEL: 886 6 2798616, FAX: 886 6 2794099,
sales.team@msa.hinet.net, www.team-meter.com.tw

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TEAM Instruments started during 1996 in Yung-Kang City, Tainan, Taiwan by several people who have over 20 years of experience in the field. Their objective is to produce meter testing and measuring equipment for the telecom industry. TEAM Instrument has doubled its revenue every two years since 1996, and continues to grow at a rapid pace in a weak economy. We guarantee that our products meet the highest standard in the industry.

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Ticona Engineering Polymers

Florence, KY, USA, www.ticona.com

TNT Plastic Molding Inc

Anaheim, CA, USA, www.tntplasticmolding.com

Tokistar Lighting Inc

Anaheim, CA, USA, www.tokistar.com

Tomasko & Associates

Seymour, CT, USA, www.tomaskoandassociates.com

Top Energy Saving System Corp (TESS)

Wu-Ku Township, Taipei County, Taiwan,
www.tesscop.com

Toshiba International Corp

Houston, TX, USA, www.toshiba.com/lighting

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Twin Hill Co Ltd

Taipei City, Taiwan, www.twinhill.cc

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Tucheng City, Taipei County, Taiwan,
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UL is a premier global safety science company with more than 100 years of history. Employing more than 6800 professionals in over 96 countries, UL has five distinct business units—product safety, environment, life and health, verification services and university—to meet the expanding needs of our clients and to deliver on our public safety mission.

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Upstream Engineering Inc

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Urban Solar Corp

Victoria, BC, Canada, www.urbansolarcorp.com

US Eco-Light

Prattville, AL, USA, usecolight.com

USLEDsupply

Mercer, PA, USA, www.usledsupply.com



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Vexica Technology Ltd

Leeds, West Yorkshire, UK, www.vexica.com

Vigilant Technology Co Ltd

Lamplatiaw, Ladkrabang, Bangkok, Thailand,
www.vigilant-techno.com

Visionaire Lighting

Rancho Dominguez, CA, USA,
www.visionairelighting.com

Visual Interactive Ltd

Cannock, Staffs, UK, www.visualinteractive.co.uk

Vvivid Optoelectronic Technology Co Ltd

Bao'an district, Shenzhen, China,
www.led-video-screens.com

Watt Works Inc

Columbus, OH, USA, www.wattworks.com

Wavelength Electronics Inc

Bozeman, MT, USA, www.teamwavelength.com

WC Heraeus GmbH

Hanau, Germany, www.flexible-substrates.com

Wellypower Optronics Co

Hsinchu County, Taiwan, www.wellypower.com

Wessel LED Lighting Systems

Davie, FL, USA, www.led-lighting-systems.net

West Bank Engineering Consultancy Ltd

Doncaster, South Yorks, UK, www.wbecitd.com

Wilson Process Systems

Hastings, East Sussex, UK, www.wps.co.uk

WiseLED

Gilleleje, Denmark, www.wiseled.com

World of Lights LED Solutions Inc

Burlington, ON, Canada, www.ledsolutions.ca

WT&T Inc

Pierrefonds, QC, Canada, www.wttechnology.com

Wurth Electronics Midcom Inc

Watertown, SD, USA, www.we-online.com/midcom

Wuxi Kinlight Optoelec Technology

Wuxi, China, www.ledkl.com

Xiamen Lumiatech Lighting Co Ltd

Xiamen, Fujian, China, www.lumiatech.com

Xiamen Xing Henglong Lighting Technology Co Ltd

Xiamen, Fujian, China, www.xinghenglong.com

Xicato Inc

San Jose, CA, USA, www.xicato.com

Xing Henglong Lighting Technology Co Ltd

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Zhejiang Jinzhong Machinery & Electronic Technology Co Ltd

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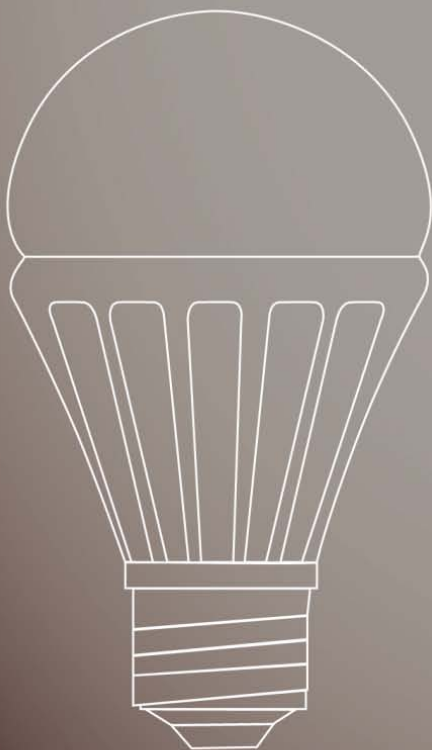
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