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Next Generation Luminaires™ www.ngldc.org
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More Than 40 Commercial LED Lighting Products Recognized by Third Annual Next Generation Luminaires™ Design Competition

SANTA CLARA, Calif. – Forty-two commercial LED lighting products were recognized for excellence by the third annual Next Generation Luminaires™ (NGL) Solid-State Lighting (SSL) Design Competition, it was announced today.

Sponsored by the U.S. Department of Energy (DOE), the Illuminating Engineering Society of North America, and the International Association of Lighting Designers, the NGL competition was launched in 2008 to promote excellence in the design of energy-efficient LED luminaires for general illumination in commercial lighting applications. The idea is to make it easier for lighting designers and specifiers to find LED lighting products that are worthy of specification. That means NGL-recognized products have to measure up on many fronts. The judges care about suitability and quality, not just energy-efficiency. “This is not just a beauty contest,” said DOE Solid-State Lighting Program Manager Jim Brodrick. “The winners also have to perform well.”

More products were proposed for submission to the 2010 NGL competition than ever before – 328, compared with 265 in 2009. But because of the stringent documentation requirements, only 138 products actually made it to the judging phase. The rest were rejected either because they weren’t ready for market or because their manufacturers couldn’t supply the required documentation, which covered such things as LM-79 test reports and LM-80 life claim documentation. These performance documents helped ensure that actual performance matched what was claimed.

The 138 products that were judged for the 2010 competition represented 61 different manufacturers. Of those products, 33 were chosen as “recognized” winners, meaning that they were considered worthy of specification. These recognized products cover 11 categories: accent track lighting, recessed accent lighting, wall washing, wall grazing, recessed downlighting, decorative pendant lighting, decorative wall lighting, general illumination, industrial lighting, in-grade lighting, and street and area lighting.

Four additional products were designated Best in Class, meaning that they stood out significantly above the other products in their category that were recognized as specifiable. The Best in Class winners came from four different manufacturers and covered four areas of lighting: The Lighting Quotient was selected for its fraqtir™ Linear Concealed LED Luminaire cove lighting fixture, Philips Color Kinetics for its eW Burst® Powercore facade lighting fixture, Koncept Technologies Inc. for its Equo™ LED Desk Lamp task lighting fixture, and USAI for its NanoLED™ recessed accent lighting fixture.

An additional five products were deemed “Notable,” a new NGL category created for those entries that might not yet be considered specifiable but nevertheless have at least one outstanding characteristic deserving of recognition.

In the “Recognized” category, Amerlux Global Lighting Solutions, Tech Lighting, Intense Lighting, Juno Lighting Group (two fixtures), Lighting Services Inc., and Philips Lightolier earned praise for their accent track lighting. Juno Lighting Group (two fixtures), RSA Lighting, and USAI were recognized for recessed



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accent lighting. In wall washing and grazing, Cooper Lighting, Juno Lighting Group, and Visa Lighting were commended. Two pendant decorative lighting fixtures were recognized, one from Juno Lighting Group and one from Philips Lightolier.

In the wall sconce category, Edge Lighting and Visa Lighting were recognized, while Axis Lighting was recognized for its general illumination fixture. Industrial lighting garnered two winners: Digital Lumens and Philips Day-Brite.

Recessed downlights were popular, with designs by Cooper Lighting, Edison Price Lighting, Focal Point, Philips Lightolier, Philips Omega, JuiceWorks, USAI, and Cree LED Lighting all receiving recognition. The in-grade lighting category has two recognized fixtures, both by Edge Lighting. Recognized winners in street and area lighting were EvoLucia, Inc. and Philips Roadway Lighting.

The “Notable” category represented five different manufacturers in five different categories: Zumtobel Lighting, Inc. for specialty accent lighting, Philips Wide-Lite for parking lot lighting, Illumination Machines for vanity lighting, Liton Lighting for recessed downlighting, and Landscape Forms for pedestrian pathway lighting.

Awards were presented at the Strategies in Light conference in Santa Clara, February 22–24, 2011. The Next Generation Luminaires competition was created to recognize and promote excellence in the design of energy-efficient LED commercial lighting luminaires. By encouraging new designs and technologies, Next Generation Luminaires aims to increase market acceptance and awareness of LEDs for general illumination lighting.

Steering Committee/Judging Panel

Nancy E. Clanton, PE, IALD, FIES, LC, LEED AP
founder and president of Clanton & Associates, a lighting design firm

Melanie Taylor, IALD, LEED AP
lead designer at Lighting Design Studio for the WSP Flack + Kurtz Seattle Office

Avraham Mendall Mor, IALD, IES, LEED AP
partner with Lightswitch Architectural, an architectural lighting and media design firm

Barbara Cianci Horton, LC, IALD, IESNA
president and CEO of HLB Lighting Design, Inc.

Kevin Houser, Ph.D., PE, LC, LEED AP
associate professor of architectural engineering at Penn State University

Mary Matteson Bryan, PE, CEM
independent consultant

Steering Committee



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Dan Blitzer, LC
principal of The Practical Lighting Workshop LLC

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senior marketing manager of energy and sustainability for Lightolier

Ruth Taylor, PNNL, IES
program manager, DOE's Pacific Northwest National Laboratory

Jeff McCullough, PNNL, LC, CEM, CLEP
senior research engineer, DOE's Pacific Northwest National Laboratory

Judging Panel

Richard Wyton, IES, AEE
corporate lighting consultant for Steiner Electric

David C. Ghatan, IALD, IESNA, LC
associate with C. M. Kling & Associates, inc., an architectural lighting design firm

Randy Sabedra, IES, IALD
principal of RS Lighting Design, an architectural lighting design firm

David Malman, IALD, IES
architect and owner of Architectural Lighting Design

Gabe Arnold, PE, LC, CEM
senior consultant with Optimal Energy Inc., an energy efficiency and renewable energy consulting firm

Glenn Heinmiller, IALD, LC, LEED AP
principal at the architectural lighting design firm Lam Partners

Best in Class, Recognized, and Notable Fixtures

The judges evaluated white light, general illumination products available for specification in the commercial market. The panel initially selected 37 products from the 138 reviewed as “Recognized,” meaning the panel would recommend these 37 products to other specifiers. From all the recognized products, the judges were asked—at their discretion—to identify any that they considered “Best in Class.” To attain this level, a product had to both stand out from the others and be evaluated at the top of a majority of evaluation categories. Thus, products named “Best in Class” had to be more than just the highest ranked of the group. Not all entry categories were awarded a Best in Class winner. In addition, a new category, “Notable,” was created for those entries that might not be considered specifiable but nevertheless had at least one outstanding characteristic deserving of recognition.

BEST IN CLASS WINNERS

Cove Lighting



Linear Concealed LED Luminaire by The Lighting Quotient

The fraqtir™ linear concealed LED cove luminaire produces a warm white, asymmetric distribution that evenly washes ceilings or walls without trapping light. The fraqtir optics, combining a refractor and total internal reflection, deliver a highly controlled beam with powerful peak candlepower. Units adjust for aiming, and lock in place. The fraqtir is available in modular lengths from 1' to 9'; at 350 mA, one driver serves 3'. The fraqtir is available with integral or remote drivers, 350 mA or 700 mA drive current, and 120V or 277V dimming.

Facade Lighting




eW Burst® Powercore by Philips Color Kinetics

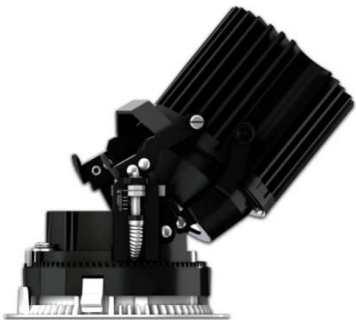
The eW Burst Powercore is a high-output, exterior-rated LED luminaire designed for highlighting architectural elements. The housing is die-cast aluminum, IP66 rated, adjusts 180°x360° and locks in place; canopy and landscape mountings are available. Beam control options for the 8° primary optic include four spread lenses, as well as a louver and three cowls for glare control. The eW Burst Powercore is available in two color temperatures,

	accepts 100–277V input, and is dimmable. LED array and driver are integral and not field replaceable.
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Task Lighting





	<p>Equo™ LED Desk Lamp by Konzept Technologies Inc.</p> <p>Clean and slim, the Equo LED desk lamp’s counterweight design allows fingertip adjustability. The luminaire head remains poised and level as the arm moves up and down, while delivering ample local task illumination. A touch-sensitive control strip switches the lamp on and off and dims with a gentle sliding motion. Equo can be equipped with an optional occupancy sensor. The driver is field serviceable; the LED module requires factory replacement.</p>
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Recessed Accent Lighting

	<p>NanoLED™ by USAI</p> <p>NanoLED provides low-intensity accent lighting with 40° tilt and 362° horizontal adjustment. With just a minimal 2.5" aperture, NanoLED can be “hot aimed” and locked in place with an Allen-head driver. The die-cast lighting element is removable for interchange of optics and replacement of the LED module or driver, while retaining its locked aiming position. Options include four color temperatures, three beam spreads (25°–55°), two wattages, a dimmable driver, and several trim options. NanoLED housings are available for insulated ceilings (airtight) and non-insulated ceilings (non-air handling).</p>
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RECOGNIZED WINNERS


Accent Track Lighting

	<p>Contour Series Track Head by Amerlux Global Lighting Solutions</p> <p>Housed in a soft architectural contour design, the Contour features high-performance LEDs with excellent beam control from spot through wide flood. A cluster of 2x2, 2x3, 3x3, 3x4 or 4x4 LED optics work together as one, in a range of wattages to deliver the perfect amount of light for any application.</p>
	<p>Element Envision LED Head by Tech Lighting</p> <p>The Element Envision LED Head's lighting module, power supply, and optics (15°, 25°, 40°) are modular for replacement. Design allows internal airflow to rear vents while conserving a seamless form, and internal isolated power supply reduces visual impact. Dimmable digital logic controller is operated in constant current mode.</p>
	<p>MB900 by Intense Lighting</p> <p>The MB900 features a clean architectural style, high-quality uniform illumination without pixilation, and optimal glare control with a deep-set LED array. Three optical distributions are available, including 24° narrow flood, 32° flood, and 50° wide flood. The MB900 is available in brushed satin nickel, satin silver, satin black, semi-gloss white, and custom powder coat.</p>
	<p>T253 Cylindra LED by Juno Lighting Group</p> <p>The T253 Cylindra 22W LED is available in 3 colors and 3 standard beam patterns and is compatible with all Juno line voltage trac and monopoints. The LED driver is cleverly concealed in the fixture housing, making the T253 look like a PAR30 incandescent fixture. Cylindra's integral, bayonet-mounted accessory holder accommodates two light control accessories if desired.</p>

	<p>T251 Cylindra LED by Juno Lighting Group</p> <p>The T251 Cylindra 15W LED is compatible with all Juno line voltage trac and T58 monopoints. The custom LED driver is incorporated into a miniature housing, making the T251 look like a low-voltage incandescent fixture. Cylindra's integral, bayonet-mounted accessory holder accommodates one light control accessory if desired.</p>
	<p>LumeLEX® 2040 Series by Lighting Services Inc.</p> <p>The LumeLEX® 2040 Series is a dimmable LED spotlight which produces high-quality, high-CRI, consistent white light for the most demanding applications. Patented optical control; a full line of glass, film, and shielding accessories; field changeable reflectors; and replacement LED modules make this a highly versatile white light luminaire.</p>
	<p>Alcyon by Philips Lightolier</p> <p>The Alcyon LED Cylinder was designed around the finest white LEDs and thermally engineered for superior performance. The optics are interchangeable and available in a range of beam spreads for lighting flexibility. Both the 16W and 23W versions received recognition by the judging panel.</p>

Recessed Accent Lighting


	<p>Aculux Recessed Accent Light by Juno Lighting Group</p> <p>Aculux 3¼" aperture recessed adjustable LED fixture is available in three color temperatures (3000K, 3500K, and 4100K) and has 3 field interchangeable optics (15° spot, 24° narrow flood, and 35° flood). The precision geared hot-aiming achieves 370° rotation, 45° tilt.</p>
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	<p>Juno Mini LED Downlight & Gimbal by Juno Lighting Group</p> <p>The Mini LED Recessed Downlight and Gimbal are both ideal for residential and commercial limited space applications. The sleek, compact form factor of the downlight provides direct accent lighting with a low-glare optic system and choice of beam patterns. The aimable gimbal design provides up to 30° vertical adjustment. Both the Downlight and Gimbal models received recognition from the judging panel.</p>
	<p>LED Combolight by RSA Lighting</p> <p>The RSA Next Generation LED Combolight is available in one to six light configurations with 8W or 18W LED modules. The Stasis LED module is available in spot, medium, or flood distributions and in 3000K or 4000K color temperatures.</p>
	<p>BeveLED by USAI</p> <p>BeveLED 4" LED recessed wall wash and adjustable downlight were both recognized by the NGL judges. The wall wash optical system with a 362° horizontal rotation includes light engines which are field replaceable/upgradable via removal of the light engine board only. The downlight is available with beam spreads of either 10° or 30° and have CBCPs ranging from 2243 to 9523, depending on wattage and lensing options. Both the BeveLED wall wash and downlight received recognition by the judges.</p>

Wall Washing

	<p>Portfolio 6 Wall Wash by Cooper Lighting</p> <p>Portfolio's 6" aperture LED open Wall Wash features a diffused optical system with low aperture brightness. A two-stage reflector system produces high levels of vertical illumination on the wall, with minimal source brightness. It also includes standard 0–10V dimming capability and includes a flexible disconnect system which allows for tool-less replacement of the LED engine from below ceiling.</p>
	<p>Juno T256 LED Wall Wash/Flood by Juno Lighting Group</p> <p>The T256 LED 35W Wall Wash/Flood trac fixture delivers a powerful and uniform punch of light. The sleek, shallow, 15" long profile enables it to virtually blend in with the trac. The T256 is also compatible with all Juno line voltage trac systems.</p>

Wall Grazing



	<p>Sleight by Visa Lighting</p> <p>Sleight provides performance illumination in a 1 3/8" profile complying with OSHPD code for corridors. Versatile mounting options include vertical, horizontal, wall, ceiling, surface, or semi-recessed. Available in a range of color temperatures (3000K, 3500K, and 4000K) with optional 0–10V dimming with a remote power supply.</p>
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Recessed Downlighting

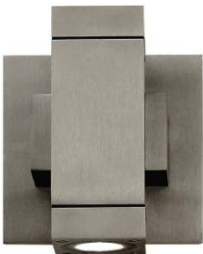
	<p>Portfolio 4 and 6 by Cooper Lighting</p> <p>Portfolio's LED downlight features a curved transitional lens design that reduces LED source brightness and evenly distributes light across the entire lens, producing even illumination. A flexible disconnect allows for tool-less replacement of LED engine from below ceiling. Both the 4" and 6" aperture models received recognition by the judges.</p>
	<p>LED FTD DL/5-2000 by Edison Price Lighting</p> <p>LED FTD DL/5-2000 is a 5" aperture downlight with a low-brightness aluminum reflector, 40° shielding, and a 1.0 spacing criterion. Both the LED module and the driver can be replaced through the fixture aperture. The downlight can be converted to a lensed wall washer in the field.</p>
	<p>ID LED by Focal Point</p> <p>The ID LED downlight is designed to harness the inherent benefits of LED in a sustainable design. It utilizes Philips Fortimo LED downlight module with patented remote phosphor technology, creating high-quality, high white light in a fully enclosed metal module with a glass phosphor lens.</p>
	<p>Calculite LED Downlight by Philips Lightolier</p> <p>The Calculite 1500 Lumen 6" wide beam downlight is an efficient alternative to specification-grade compact fluorescent, with excellent color rendering throughout the visible spectrum and the decorative, emergency, and dimming options with which the specification community is comfortable. An earlier version received recognition in the 2008 competition.</p>

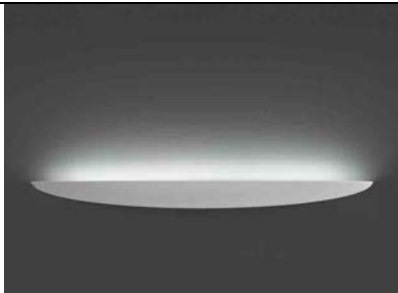
	<p>Omega Revelation LED Downlight by Philips Omega</p> <p>The Philips Omega Revelation LED downlight combines MesoOptic® diffusion with proprietary remote phosphor technology to produce one of the most efficient and advanced LED systems available for general downlighting applications.</p>
	<p>LED Downlight by JuiceWorks</p> <p>The JuiceWorks 6" LED downlight provides exceptional light performance with advanced two-stage optics, minimizing glare and delivering the specified light spread. The design is fully dimmable, delivers over 50% more foot-candles than common flood lamps or a 26W CFL, and is very easy to install.</p>
	<p>NanoLED by USAI</p> <p>NanoLED 2.5" LED recessed downlight features field interchangeable, highly specular injection molded, polycarbonate reflectors which are available in 20°, 30°, or 52° beam angles.</p>
	<p>CR6™ Downlight by Cree LED Lighting</p> <p>The Cree CR6™ Downlight replaces 65W lamps in standard 6" recessed housings, using only 10.5W. Cree TrueWhite® Technology enables a combination of high efficacy, high color accuracy, and consistent CCT. Dimmable down to 5%, this downlight is designed for use in a variety of applications.</p>

Decorative Pendant Lighting


	<p>Decorative LED Mini-Pendants by Juno Lighting Group</p> <p>LED Mini-Pendants combine the energy efficiency of LED operation in a stylish miniature scale. They produce warm, elegant, dimmable light in either 2700K or 3000K color temperatures. Offered in lustrous metallic finishes or rich painted finishes, these sleek pendants are the perfect complement to a variety of decors.</p>
	<p>Vetro LED PM Series by Philips Lightolier</p> <p>This Vetro LED PM Series pendant fixture consists of a 4¾" diameter satin machined aluminum power head, running at 20W and 120V, and utilizing a 16 LED array with a 3000K phosphor film to achieve optimum light distribution, through a hand-blown opal glass accessory.</p>

Decorative Wall Lighting



	<p>Taos LED by Edge Lighting</p> <p>Available in round or square versions, the ADA-compliant Taos LED provides 7 watts of bi-directional lighting for indoor and outdoor applications. The sleek fixture features a satin aluminum finish.</p>
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	<p>Escape by Visa Lighting</p> <p>Escape is a performance luminaire for interior and exterior applications. The slim format fits discreetly into today's architectural designs. Escape is designed for indirect and direct lighting applications. To control brightness while maximizing output, Escape features a 73% transmissive Lumieo lens. The Escape is available with 0–10V dimming.</p>
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General Illumination

	<p>DIA by Axis Lighting</p> <p>DIA LED is a low profile recessed luminaire that provides uniform illumination to enhance office and public spaces while complementing modern interior designs. Features such as hinged center optic component and easy-to-remove driver cover allow for easy maintenance.</p>
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Industrial Lighting

	<p>ILE-MB-3 by Digital Lumens</p> <p>The ILE-MB-3 is designed for 15' to 30' ceiling heights in manufacturing, bulk storage, non-racked storage, and warehouse docks. Each fixture has built-in wireless networking, allowing communication with the LightRules Lighting Management System.</p>
	<p>LED Dock Light by Philips Day-Brite</p> <p>The LED dock light is an energy-saving alternative to the traditional 150W PAR dock light. The LED unit consumes only 15 watts and saves 135 watts when compared to the 150W PAR lamp. With its flexible arm, it is infinitely adjustable and almost indestructible.</p>

In-Grade Lighting


	<p>Sun3 LED by Edge Lighting</p> <p>Sun3 is a recessed 3" round or square LED fixture with beveled trim. The Sun3 uses an internal LED driver and can be used as an uplight, or optical filters can be added to tilt the beam for use as a steplight.</p>
	<p>Port LED by Edge Lighting</p> <p>Port LED is a recessed 2" round or square LED fixture with beveled trim and an internal LED driver. It can be used as an uplight or a steplight by adding optical filters to tilt beam.</p>

Street and Area Lighting


	<p>SCHX5 LED by EvoLucia, Inc.</p> <p>The SCHX5 LED street/area light employs EvoLucia's Aimed Optics™ technology to efficiently direct light to a target area. The SCHX5 performs with an industry-high Fitted Target Efficacy score of 57 to put the most foot-candles on the ground, in the pattern required, with the best uniformity, using the fewest LEDs and the least power consumed.</p>
	<p>RoadStar by Philips Roadway Lighting</p> <p>LED RoadStar luminaire with Dynadimmer dimming technology has a durable IP66 sealed construction, excellent thermal management, and resistance to the elements. An earlier version received recognition in the 2008 competition.</p>

NOTABLE


Specialty Accent Lighting

	<p>SUPERSYSTEM LED by Zumtobel Lighting, Inc.</p> <p>SUPERSYSTEM LED is a modular, flexible accent lighting system. Adjustable or recessed low-wattage LED lighting elements plug into discrete locations in the extruded aluminum housing. Drivers are installed on top of the luminaire mounting plate and concealed in the housing. Housing unit can be connected in series and will also accept conventional elements.</p>
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Parking Lot Lighting

	<p>HIBRED HID/LED Low-Level Ambient Lighting System by Philips Wide-Lite</p> <p>HIBRED is an LED luminaire built into the mounting arm of an HID site luminaire. It provides low-level illumination during off-peak hours when the HID source is turned off. This arrangement both reduces energy consumption and extends the maintenance cycle. HIBRED can be connected to a variety of new luminaires, and to some existing, compatible luminaires, or attached to most existing poles.</p>
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Vanity Lighting

	<p>The Estelle™ LED Mirror by Illumination Machines</p> <p>The four-foot-long Estelle™ LED mirror luminaire produces 1500 lumens from 12 exposed sources, emulating bare filaments. The product utilizes a new 300° omnidirectional optical technology and a beveled mirror backplate to produce a decorative sparkle effect. Both the driver and LED elements are field replaceable.</p>
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Recessed Downlighting

	<p>Architectural 1,000 Lumen Downlight by LITON Lighting</p> <p>LITON's 4" aperture recessed downlight with satin haze aluminum reflector produces nearly 1000 lumens using 23 watts. The Architectural Downlight provides a cost-effective solution for both new construction and retrofit applications. Available in non-dimming and 0–10V dimming models.</p>
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Pedestrian Pathway Lighting

	<p>Lo-Glo by Landscape Forms</p> <p>Lo-Glo is a family of pathway and pedestrian-scaled luminaires with a warm color of high CRI illumination, which is claimed to support the circadian cycle and human health. Replaceable and sealed LED cartridge of cast aluminum works with the housing and integrated pole to provide thermal management.</p>
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