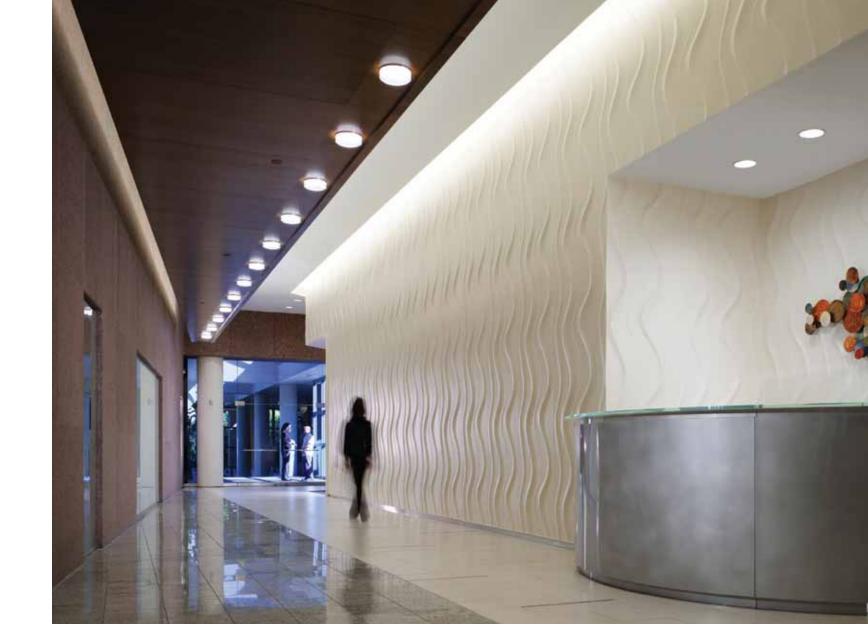


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A.I.A. Division 16 Brochure LOL7139



LED Lighting

LED Specification Guide



LED Lighting LED Specification Guide

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The global leader in LED Lighting



Nick Merrick © Hedrich Blessing 2009

For over a century, Lightolier's commitment to "Lighting that Makes a Difference" has shaped our industry. Through changing technologies, our dedication to providing practical, high quality lighting solutions has never wavered. As a new chapter on LED Lighting unfolds take confidence in knowing that you are partnering with the clear technology leader.

Our design philosophies have been refined through years of application experience. While paying careful attention to the needs of LED lighting, we once again placed lighting application at the forefront of our product development process. The resulting architecturally integrated LED solutions create a class leading portfolio which addresses the demands of modern lighting systems with legendary Lightolier quality.

Without exception, our LED products are designed from the ground up, in a true system level approach. With high powered LEDs, there are many factors that can have an adverse impact on the overall system performance. For example, an increase in operating temperature by only 10 degrees can reduce life by 50%. As a result, the interaction between elements like LED circuits, power conversion, thermal management and optics become increasingly important. By designing these systems concurrently Lightolier creates the highest performing systems possible. This method guarantees effective thermal management; the most crucial aspect to sustained performance and longevity.

Our application specific, total system designs utilize the latest technology platforms available. The vertical integration of Philips within the LED lighting industry affords Lightolier unmatched advantages in R&D efficiencies and technological collaboration. Our LED product portfolio offers multiple strategies to meet the most challenging application demands. This global R&D network, combined with Lightolier's continued investment in LED, means you can be confident you are specifying and installing the very best in lighting technology.

Evaluating LFD

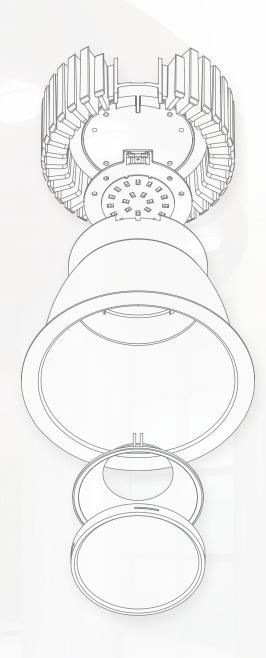
In today's market, there are many different LED products available – all promising increased efficiency, life, and performance. The following section is designed to highlight a few key elements to look for, or be wary of, when evaluating a LED product.

Can you trust the data? While there is no question LEDs can perform at levels never previously seen by the lighting industry, there are a few key items to look for when reviewing published data.

- All photometric testing should have been completed in accordance with IES LM-79 standards and all life ratings based on IES LM-80 data. These IES standards were created specifically for high powered LED lighting with the aim of providing an 'apples to apples' comparison of published LED performance data.
- The testing should be representative of an installed application, not a single LED component. External factors play a large role in LED performance and it is crucial to account for all of those factors when testing the product. System level designs already account for many of these external factors, ensuring the installed application will meet the published performance data.
- Specification documentation should provide all information which could potentially affect product performance. Operating temperature (Tj) for the luminaire at 25°C ambient can provide a reliable benchmark, but the maximum ambient temperate is important when evaluating a system's limits. Driver efficiencies will affect system performance and should always be included in efficiency calculations.
- Although all LEDs shift color over time, some do more than others.
 CCT shifts should always be published.

What is the quality of the light? While it is important to evaluate a product on paper, evaluating actual performance can be just as important when choosing a product.

- LEDs are very compact point sources, and can produce an incredible amount of glare. Always look for a product with proper shielding and secondary optics. Products which maximize efficiency while reducing glare will provide the best of both worlds.
- CRI can provide a benchmark when evaluating the quality of the light. However, to truly evaluate a product it is important to experience the color rendering first hand.



When evaluating LED products and applications Lightolier recommends retaining a qualified lighting professional. You can contact the International Association of Lighting Designers (www.iald.org) to begin a search.

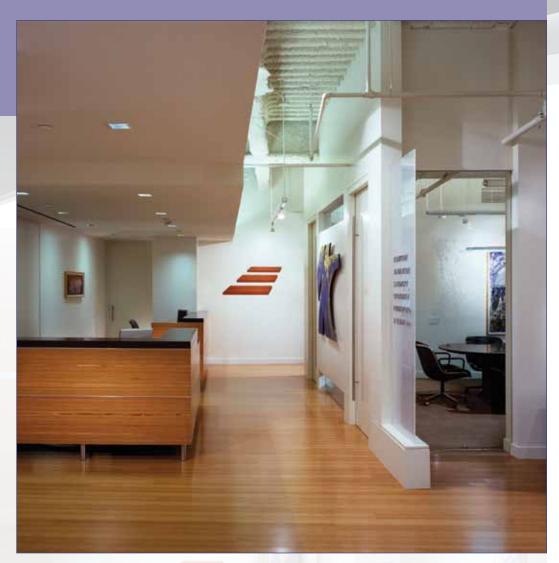
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Commercial Interiors

Most of the commercial building stock is comprised of existing structures, which are lit by existing, and often outdated, luminaires. LED lighting presents us with unique opportunities to upgrade these existing systems with high efficiency lighting solutions that improve user experience as well as building value.

As one of the largest sources of energy consumption, a building's lighting system represents a significant portion of overall operating expenses. Lightolier's new LED retrofit modules take advantage of existing lighting layouts and wiring to reduce consumption by up to 75%. Furthermore, tool free installation and integrated control capabilities reduce the out of pocket expenditures typically associated with large scale lighting upgrades.

An investment in a building's lighting systems not only reduces fixed energy costs, but can drastically cut maintenance costs associated with the lighting system. Lightolier's



LED products are rated for at least 50,000 hours of use at 70% lumen maintenance (L70). This unmatched longevity eliminates the need for ongoing relamping service as well as the costly disposal process required for lamps containing mercury.

Lastly, the visual environment can be drastically improved through the lighting upgrade process. Lightolier's broad LED offering gives you the ability to create distinct lighting layers, of varying light levels, to create interest and improve user comfort. For both new and existing spaces, LED lighting can improve productivity while reducing consumption: a win-win for building owners and tenants alike.

LED lighting presents us with unique opportunities to upgrade existing systems with high efficiency lighting solutions.

Example: Conference Room

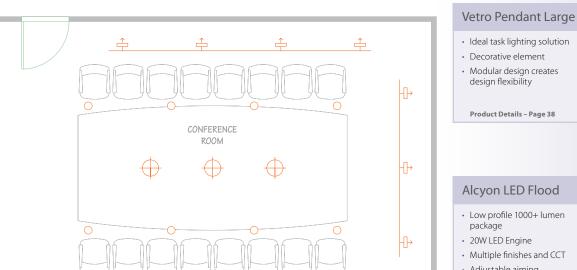
Within this existing conference room a 100% LED lighting upgrade was used to address the unique needs of the space. Incorporating downlights, track and a practical, decorative element into the space resulted in a high efficiency, high performance solution.

By replacing existing 75W incandescent downlights with 23W LED retrofit modules, energy consumption was drastically reduced, while ambient light levels remained even. Integrated control capabilities create the opportunity to design more cost saving elements into the space, such as daylight

harvesting and occupancy sensing. The ability to create pre-set lighting scenes like, presentation mode or meeting mode, create even more efficiencies while improving the functionality of

Decorative elements often consume large portions of the power allotment, while contributing very little functional light to the space. By installing LED Vetro Pendants above the conference table, the high light levels required for the task lighting layer are met while achieving a reduction in energy consumption.

Lytecaster LED Retrofit · Tool Free Installation • 19W consumed Utilizes existing installations Product Details - Page 22



LED Retrofit

Luminaire Qty 1102P1/1113CD Incandescent - PAR38 22WW4AL 75 525 Incandescent - T4 FP02 CFL – Triple Tube 1221 497 Area (Ft²) W/Ft² 2.46

Existing

Symbol	Luminaire	Qty	Watts	Total Watts				
\bigcirc	1102P1 / L56LED09S35D1 / 1113CD	8	23	184				
\downarrow	LLF35AL	6	20	120				
\bigoplus	PM02L35SA1	3	20	60				
Total Power (W)								
Area (Ft²)								
	W/Ft ² .73							





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Retail Lighting

Within the retail environment. lighting plays a critical role on several different levels. The appearance of the showcased product is ultimately determined by the quality of light illuminating it, making retail lighting design a crucial aspect of the selling process.

Additionally, the high levels of light required to showcase products often translate to high levels of consumption from the lighting system. Technological advancements have resulted in high efficiency, LED solutions that meet the demanding requirements of this application.

While display and lighting needs are often dynamic, there is a need for consistency in a lighting design once it has been chosen. Traditional lighting schemes are vulnerable to unintended adjustments resulting from the relamping process. This is compounded by retail's extended operating hours which necessitate frequent relamping. Unless strict attention is paid to lamp selection during relamping (wattage, distribution, color temperature, etc) a design can shift over time. Traditional



lighting sources have not presented us with a practical solution to this dilemma.

Lightolier understood the value of a consistent appearance of the retailed product when designing the new LED track offering. Features like locking and multi-axis aiming assure the integrity of a lighting design long after the initial installation.

By virtually eliminating the need to re-lamp, LED products are not susceptible to the accidental changes that commonly plagued halogen sources.

A consistency in light quality characteristics such as CRI and Color Temperature are equally important to the appearance of the retailed product. Carefully designed thermal systems and stringent LED purchasing practices ensure consistency not only from luminaire to luminaire but also over time. With LED, retailed products will always be illuminated the way they were intended.

With LED, retailed products will always be illuminated the way they were intended.

Example: Grocery Store

By using different combinations of luminaires, a retail lighting design can emphasize certain sections of a store. This technique can set apart important products from the rest of the retail offering. In the below example, the owner wanted to draw attention to the produce and cheese departments within the larger grocery store. A combination of accent and decorative lighting was used to showcase the product and draw traffic towards the displays.

A decorative LED pendant was chosen to provide the ambient light level. Suspending this unique decorative element in the space creates a visual cue that draws customers towards the department. Paying close attention to

the vibrant colors and the need for a high CRI solution, track lighting was suspended above the displays to accent the individual items. A spot distribution was chosen for the LED track head, creating a 3:1 contrast ratio on the highlighted produce. In addition to consuming less wattage, the LED solution created far less heat than comparable sources; significantly increasing the shelf life of the fresh produce.

To accent the open cooler where the cheese is displayed, a low profile, linear LED fixture was integrated into the shelving. This unobtrusive fixture provides the higher light levels required to accent the product, with a low physical impact.

Alcyon LED Accent · Locking multi-axis aiming Spot distribution

50,000 hour life

80+ CRI

Product Details - Page 32



Pendalyte

20W, 1000 lumen light engine

Volumetric, low glare

Decorative, modular design

Product Details - Page 42



Micro

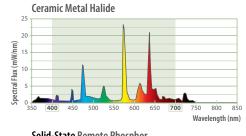
Low profile design

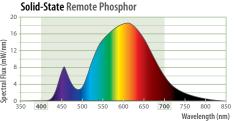
Quick connect installation

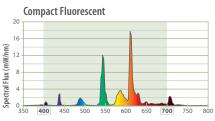
Asymmetrical distribution Multiple finishes for minimal visual impact

Product Details - Page 49

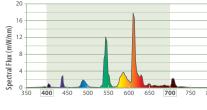








The LED's ability to render the full spectrum of colors is critical in retail lighting. When comparing the spectral distribution of an LED source to that of other efficient sources, like CFL and HID - the advantage is clear.



Open Cooler Vegetables

LED Lighting Catalog 7

Hospitality Lighting

Hospitality Lighting presents several different challenges for the lighting system. The diverse needs typically found within hotels require versatility within the lighting system.

Our LED offering can meet many of the needs of a hospitality application with a surprisingly small number of products. The design commonality throughout the entire hotel creates efficiencies in maintenance and consistency in appearance.

The Calculite LED Downlight is a specification grade product, available in multiple lumen packages, color temperatures, and finishes. Additional features like standard dimming and a 50,000 hour minimum rated life (L70) present unique advantages to different spaces. A full building design can incorporate downlights from this single LED product line while still maintaining the flexibility hospitality applications demand.

Lighting Syst	Lighting System Demands					
Guest Rooms	High CRI, layered lighting, integration of supplemental lighting of different sources					
Circulation Areas	24 hour use, emergency/egress capability, directional lighting, efficiency					
Lobby Bar	Control capabilities, visual appeal, layered lighting					



Creating a welcoming and intimate atmosphere in the hotel bar or restaurant is an important way to differentiate it from the rest of the hotel. The lighting design must present guests with an inviting alternative to their rooms. This often requires the application of dimmable fixtures and lighting controls to create preset lighting scenes.

Adding decorative elements to the design is critical to making the space welcoming and attractive.

A combination of LED downlights, track and decorative pendants can meet all these requirements and poses a highly efficient and practical solution to the hotel bar or restaurant.

Adding decorative elements to the design is critical to making the space welcoming and attractive.

Example: Guest Rooms

While the hotel lobby and bar usually receive a majority of the design emphasis; the circulation spaces and guest rooms account for a majority of the installed fixtures. Selecting high performance luminaires for these spaces is the key to reducing maintenance costs and realizing energy savings.

In the following example, Calculite LED downlighting was utilized in the hallways where 24 hour use is required. A 20W light engine was specified that reduced wattage

while still providing the light levels needed for safe passage. A low wattage decorative sconce was used to supplement the downlight and to provide a way finding element in the hallways.

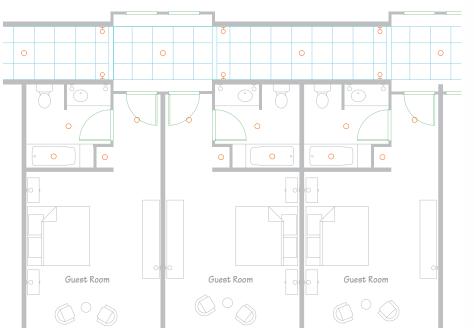
In the guest rooms, a 10W Calculite LED
Downlight was chosen for general illumination
in the bathrooms and room entrances. The
flexibility provided by multiple CCT options was
crucial, since it will be supplemented by CFL task
lighting next to the bed and around the mirrors.

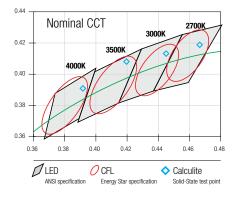
Calculite Round Aperture

- 20W and 10W options
- 500, 1000, 1500 and
- 2000 lumen packages
- Multiple CCT options50° Cutoff

Product Details - Page 14







The ability to integrate LED luminaries with the supplemental lighting required for hospitality applications is critical to a consistent feel in the space. This chart demonstrates the CCT of our LED engines in relation to CFL.

Vetro Wall Sconce

- Hand blow triplex glass
- Soft decorative glow
- ADA Compliant
- 6W LED Engine

Product Details – Page 39



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Specification Downlighting

Setting new standards in design, efficiency and flexibility for architectural downlighting.

Designed as an alternative to compact fluorescent, Calculite LED utilizes the aperture sizes, shielding and flexibility of traditional sources.

This allows specification of LED technology where it's appropriate while ensuring consistent, specification-grade design language can be maintained throughout the architectural space.





χ.	Downlight							
Lumen Packages	Medium	Wide	Lensed	Open-Single	Open-Double	Open-Corner		
500 1000		✓	√	√	√			
1500 2000	✓	√	√	√	✓	√		
1500 2000	√	√	√	√	√	√		

Round Apertures

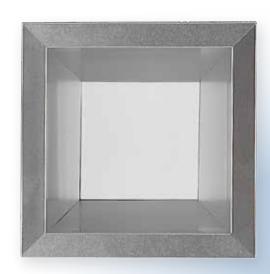
Calculite LED round aperture products include medium and wide beam downlights along with an industry-best selection of wall washers.

Square Apertures

Calculite LED squares feature a downlight and lensed wall washer with an architecturallyappropriate square light source.

	Pach
4"x4"	500 1000
6"x6"	1500
	2000

Lumen Packages	Downlight	Lensed Wall Washer
500 1000	\checkmark	\checkmark
1500 2000	\checkmark	\checkmark



4 lumen packages

3 aperture sizes

4 color temperatures

2 downlight beam distributions

4 wall washer styles



Use the right technology for the job. Choose the family that gives you the options.

It's what you've come to expect from Calculite.



	Lumen Packages	Downligh
4"	500 1000	\checkmark
7"	1500 2000	\checkmark

Cylinders

Calculite LED cylinders feature ceiling, stem and pendant-mount flexibility in white and satin aluminum finishes.

Calculite Specification Downlighting

Remote Phosphor Technology

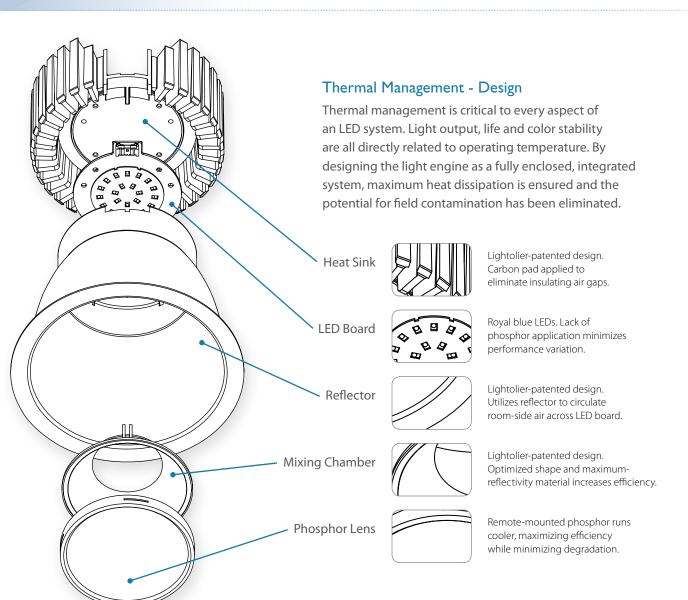
Specification Downlighting Calculite

Remote Phosphor Technology

Remote Phosphor

This technology redefines how light from blue LEDs is converted to white. Lightolier's design delivers up to 2000 lumens while achieving system efficacies in excess of 50 lumens delivered per watt consumed.





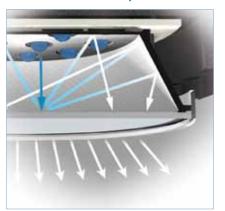


Thermal Management - Assembly

In a clean room designed and built specifically for this product, Calculite's LED light engines are assembled in Lightolier's Fall River, MA manufacturing facility. This ensures no contamination inhibits performance of the thermal management design.

Product Performance

Maximum Efficiency



Up to 60% of light that contacts phosphor, whether it's remote-mounted or applied directly to the chip, is back-reflected.

With Philips' remote-mounted phosphor system this back-reflected light can be utilized. Lightolier developed and patented an optimized, highly reflective mixing chamber which redirects this light, resulting in a 20% increase in system efficiency.

Color Consistency



Variation in color across products has historically been a challenge for lighting products utilizing LED technology. This is in large part due to the process variability in applying phosphor directly to the LED diode.

Remote phosphor technology provides superior color consistency across products, as the phosphor is manufactured in large sheets, cut to shape, and laminated to diffusion film. This process results in color consistency ± 100k across products.

As-Specified Performance



Calculite's remote phosphor technology ensures that the LED performance that's been specified will be available at construction rollout.

The phosphor itself is developed and manufactured exclusive from the LED chip and can therefore be modified as required to deliver the fixture performance expected when the lighting specification is written. This allows the product to change with technology gains, yet provide the same below-ceiling performance as specified.

Calculite Specification Downlighting

Round Aperture

Key Features

- 4", 6" and 7" apertures
- 50° cutoff to source & source image
- Medium & wide beam
 (0.9 & 1.2) distributions*
- * Medium beam available in 6" & 7" apertures only



Specification Downlighting Calculite

Square Aperture



Key Features

- 4" x 4" and 6" x 6" apertures
- 50° cutoff to source & source image
- Aperture-matching square source

Round

Medium Beam (approx. 0.9 s.c.)

Aperture	Description	Part No.
6"	27W LED (27W)	C6L1520DL
7"	27W LED (27W)	C7L1520DL
6"	32W CFL (36W)	8021

Aperture	Description	Part No.		0 Lumens	500	1000	1500)
6"	39W LED (39W)	C6L1520DL	M	43 lm/w				1700
7"	39W LED (39W)	C7L1520DL	M	52 lm/w				
7"	42W CFL (46W)	8022		41 lm/w				

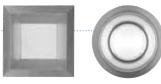
Round

Wide Beam (approx. 1.2 s.c

Aperture	Description	Part No.		0 Lumens	500			
4"	10W LED (10W)	C4L05DL		50 lm/w	500			
4"	18W CFL (20W)	8011		25 lm/w	500			
Aperture	Description	Part No.		0 Lumens	500	1000		
4"	20W LED (20W)	C4L10DL		50 lm/w		1000		
6"	26W CFL (29W)	8031		30 lm/w		865		
Aperture	Description	Part No.		0 Lumens	500	1000	1500	
6"	27W LED (27W)	C6L1520DL	w	56 lm/w			1500	
7"	27W LED (27W)	C7L1520DL	w	56 lm/w			1500	
6"	32W CFL (36W)	8031		42 lm/w			1500	
Aperture	Description	Part No.		0 Lumens	500	1000	1500	200
6"	39W LED (39W)	C6L1520DL	w	51 lm/w				2000
7"	39W LED (39W)	C7L1520DL	w	51 lm/w				2000
7"	42W CFL (46W)	8037		46 lm/w				2

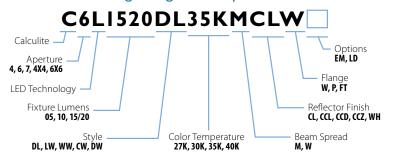
Square

rture	Description	Part No.	0 Lumens	500				
x 4"	10W LED (10W)	C4X4L05DL	50 lm/w	500				
erture	Description	Part No.	0 Lumens	500	1000			
'x 4"	20W LED (20W)	C4X4L10DL	50 lm/w		1000			
"x 4"	26W CFL (29W)	4X4	34 lm/w		1000			
				500	1000	1500		
erture	Description	Part No.	0 Lumens	300	1000	1500		
	Description 27W LED (27W)	C6X6L1520DL	56 lm/w	300	1000	1500	Available in 2Q 2010	
"x 6"	•			300	1000			
"х б"	27W LED (27W)	C6X6L1520DL	56 lm/w	300	1000	1500		
"x 6" "x 4"	27W LED (27W)	C6X6L1520DL	56 lm/w	500	1000	1500		



Part Numbering Logic

Light Engine Example



C6LI5NI Calculite 4, 6, 7, 4X4, 6X6 LED Technology Fixture Lumens 05, 10, 15/20 LED Technology Fixture Lumens 05, 10, 15/20

Frame-In Kit Example

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Calculite Specification Downlighting

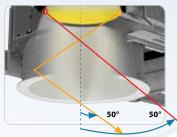
Features and Options

Specification Downlighting Calculite

Finishes and Flanges

Key Features

Comfort Optics



Designed specifically around the LED source Calculite LED delivers true 50° physical and reflected cutoff for reduced aperture brightness and an unobtrusive ceiling presence.

Beam Distributions



Designed as a direct replacement for CFL, Calculite LED offers medium and wide beam spread options where possible. Medium is an alternative to vertically-oriented CFL (0.9 s.c.), wide is an alternative to horizontal orientations (1.2 s.c.).

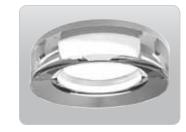
Dimming/Emergency Capability



Electronic low voltage (5%), 0-10V (10%) and Lutron dimming options available depending on luminaire selected. See LED-DIM specification sheet for details.

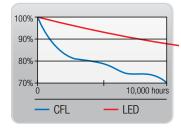
Both Integral (EM suffix) and low-wattage inverter (see LED-DIM specification sheet) options available for emergency backup.

Decorative Accessories



Calculite round aperture downlights are compatible with Vetro architectural decorative accessories. A flangeless "FT" trim is required.

Lumen Maintenance



Depreciating more consistently over time as compared to CFL, Calculite's LED downlight will provide at least 50,000 hours rated life at 70% lumen maintenance.

Industry Best Warranty



Lightolier is emphasizing confidence in our product and a commitment to our specifiers with an industry-best 5 year warranty covering all components. Conventional equipment typically offers separate warranties for the lamp and the ballast.

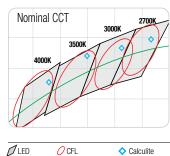
Flangeless Option



After the frame-in kit is installed, the flangeless ring is inserted into the ceiling opening and the flange is plastered over, feathered, sanded and finished.

A flangeless "**FT**" trim is required. Accessory ring CA_FMRLED recommended for gypsum applications.

Chromaticity Diagram



Slightly warmer in tone than compact fluorescent, Calculite LED provides a color richness and spectrum beyond that of traditional energy-efficient sources.

Remote phosphor technology, tight LED specifications, and proper thermal management allow Calculite to commit to CCT variation ±100K both across products and over time.

Round Finish Options



Clear (CL) is the most specular and therefore most efficient finish available. Clear reflectors deliver maximum photometric performance but can produce a mirror image of the interior of the space.



Comfort Clear (CCL) is a slightly diffuse clear finish, which eliminates iridescence and reduces the mirror image inherent with specular finishes.



Comfort Clear Diffuse (CCD) is a semi-specular finish that softens the light at the source of the reflector. The finish creates a subtle, even luminance from the reflector cone.



Champagne Bronze (CCZ) is a semi-specular finish that softens the light at the source of the reflector while providing a warmer reflector appearance. Light output is slightly warmer as well.

Flange Options



White (WH) is a matte finish that produces the brightest aperture when illuminated but provides the smoothest transition to most ceilings when off. White is available only with a white flange.



White Painted Flange(W) is a 5/8" wide integral flange painted matte white.



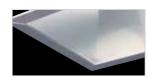
Polished Flange (P) is a 5/8" wide integral flange polished and finished to match the appearance of the interior of the reflector.



Flangeless (FT) provides a minimal flange for flush mount installations.

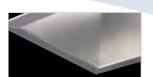
*CA4FMRLED recommended

Square Finish Options



Clear (CL) is the most specular and therefore most efficient finish available. Clear reflectors deliver maximum photometric performance but can produce a mirror image of the interior of the space.

only with a white flange.



Comfort Clear (CCL) is a slightly diffuse clear finish, which eliminates iridescence and reduces the mirror image inherent with specular finishes.



Comfort Clear Diffuse (CCD) is a semi-specular finish that softens the light at the source of the reflector. The finish creates a subtle, even luminance from the reflector cone.



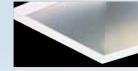
Champagne Bronze (CCZ) is a semi-specular finish that softens the light at the source of the reflector while providing a warmer reflector appearance. Light output is slightly warmer as well.

Flange Options

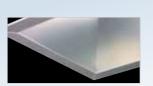


White (WH) is a matte finish that White Painted Flange(W) produces the brightest aperture when illuminated but provides painted matte white. the smoothest transition to most ceilings when off. White is available





is a 5/8" wide integral flange

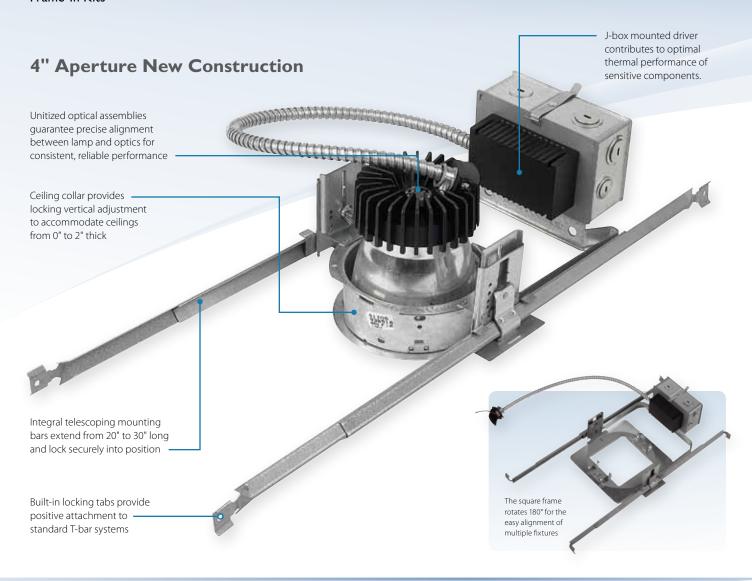


Polished Flange (P) is a 5/8" wide integral flange polished and finished to match the appearance of the interior of the reflector.

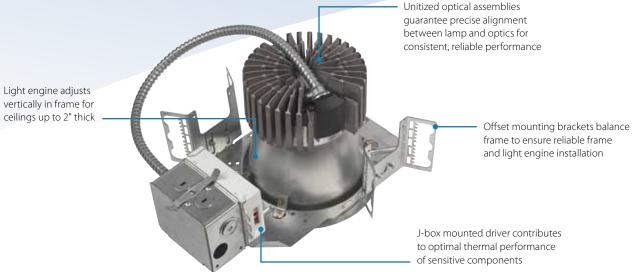


Flangeless (FT) provides a minimal flange for flush mount installations. Available in 6" aperture only.

*CA6X6FMRLED recommended



6" Aperture New Construction



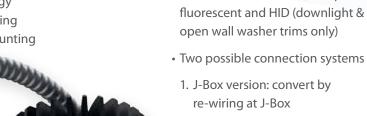
For complete specification information visit www.lightolier.com/SolidState

Retrofit Frame-In Kit

LED retrofit frames allow conversion of existing Calculite 41/2" and 6" aperture installations to a sustainable, energy efficient solution. Power supply attaches either to existing socket via screw base and snap-in socket cup or by mounting directly to junction box. Light engine installs via standard connector.

Retrofit Frame-In Kit

J-Box version



Calculite incandescent, compact fluorescent and HID (downlight &

• Converts existing 41/2" & 6"

Key Features

- 1. J-Box version: convert by
- 2. Screw-in version: easy conversion from a standard 120V incandescent medium base Calculite socket cup without additional wiring
- Tool-less installation
- Available in 120V or 277V

Remodeler Frame-In Kit



Key Features

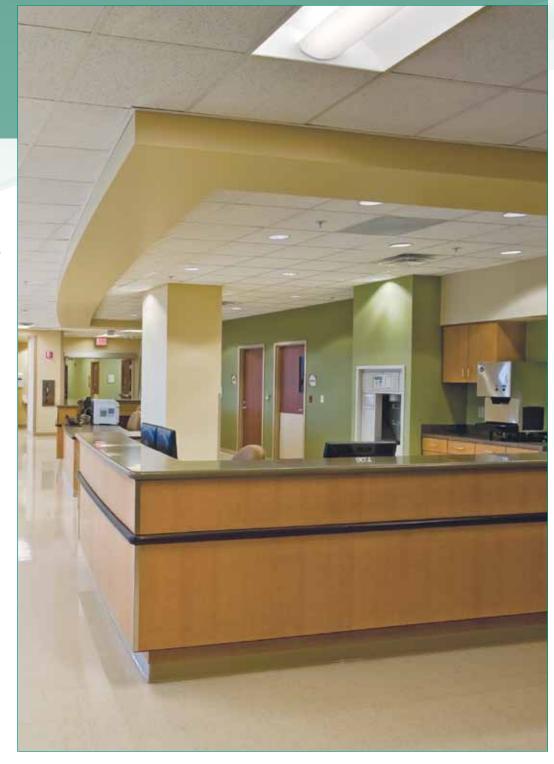
- For existing Non-IC applications up to 2" ceiling thickness
- Hinged J-box design permits easy insertion through ceiling
- Tool-less installation; 3 tooth (ratchet) clips secure ring to ceiling
- Integral driver casing and junction box ensure cool operation
- Available in 120V or 277V

General Purpose Downlighting

Sustainable Excellence.

Technology should enhance your lighting, not detract from it. Lytecaster's line of LED products provides value added features, proven performance and the quality you've come to expect from Lytecaster for over 40 years.

Designed for commercial applications, our LED line of products are created to meet the demanding needs of these applications. As part of a total lighting system, our LED technology is designed and tested for performance, aesthetics and reliability.





PHILIPS LIGHTOLIER



ADVANCE LUMILEDS



Proven Performance

Lytecaster LED is committed to quality lighting. Our tightly controlled custom binning process and controlled mixing chamber ensure a quality white light and excellent color consistency. In fact, our color consistency is held to a tolerance twice as controlled as the current Energy Star standards.

Proven Leadership

Embrace new technology in your lighting designs... Lytecaster LED incorporates a One Philips approach using Philips Lumiled LEDs, Philips Advance drivers and Philips Lightolier luminaries. With a 5 year warranty and over 250 years of combined lighting experience, Lytecaster LED is the product you can trust for quality and performance.

Performance without Sacrifice

Lytecaster LED provides the light output of a 75w PAR lamp using less than 20 watts of energy. This can save thousands of dollars per fixture over the life of the LED and reduce your carbon footprint by almost 20 tons. This incorporated with attractive energy rebates can result in a return on investment of less that 24 months while helping the environment.

Design Flexibility



Energy efficiency is a single component of the lighting equation. Lytecaster provides superior performance and aesthetics through our unique design that also allows you to use our existing trims. Over 50 of our most popular trim styles and finishes are available to provide you a quality look and the ability to easily match installed products.

Design Functionality



Designed to have the look and feel of incandescent lamps, Lytecaster LED looks similar to existing PAR lamps and with our regressed mixing chamber, actually provides a superior cutoff for exceptional glare control and visual comfort.

Lytecaster General Purpose Downlighting

Retrofit

Key Features

- Tool free installation
- Improved cut-off and optic performance
- Uses up to 75% less energy than incandescent
- Works with both 5" & 6" Lytecaster frames (1002P1 / 1102P1)
- Replace existing incandescent sources with comparable lighting and aesthetics



Retrofit



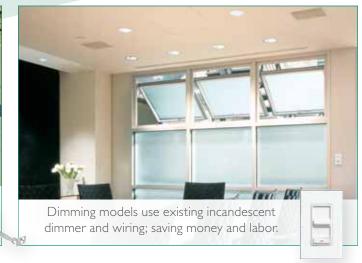
Catalog No.	Ceiling	Color Temp	Input Voltage	Wattage	Lumens	Trims
L56LED09S271	Non-IC Retrofit	27001		19W		
L56LED09S27D1	Non-IC Retrofit (dimming)	2700k	1201/	23W	000 less	Pages
L56LED09S351	Non-IC Retrofit	25001	120V	19W	900 lm	26-27
1 561 FD00535D1	Non-IC Retrofit (dimming)	3500k		23///		

LED Advantage



or as an energy efficient new construction luminaire

Dimming



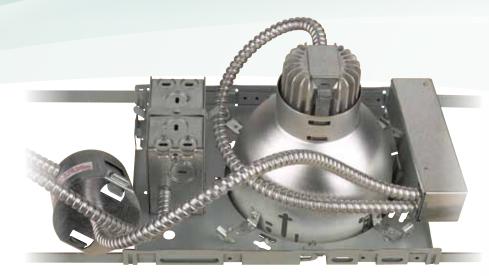
Compatibility





General Purpose Downlighting Lytecaster

Installation



Tool Free Installation

Lytecaster's tool free retrofit design is so simple, it's almost as easy as replacing a lamp while using 75% less energy than a comparable incandescent lamp.





Step 2 Attach the male screw shell to the lamp socket and secure to the socket cup





Step 4



Step 5





LED Lighting Catalog 23 22 Philips Lightolier For complete specification information visit www.Lightolier.com/SolidState

Lytecaster General Purpose Downlighting

Remodeler

Key Features

- Easily install into existing ceilings
- Equal to a 75W incandescent
- Uses up to 75% less energy than incandescent
- Improved cut-off and optic performance
- Comparable design to our 5" 1003R / 6" 1103R remodeler



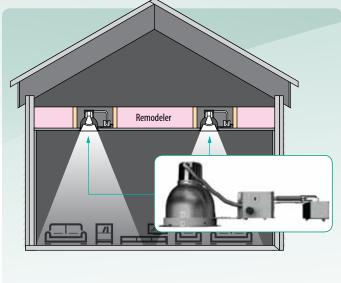
Remodeler



color temperature, driver and trim option. Please reference performance details.

Catalog No.	Ceiling	Color Temp	Input Voltage	Wattage	Lumens	Trims
1000LED09R271	5" Non-IC Remodeler	2700k		19W		
1000LED09R27D1	5" Non-IC Remodeler (dimming)	2700K		23W		Page
1000LED09R351	5" Non-IC Remodeler	3500k		19W		26
1000LED09R35D1	5" Non-IC Remodeler (dimming)	3300K	120V	23W	900 lm*	
1100LED09R271	6¾" Non-IC Remodeler	2700k	1200	19W	900 1111	
1100LED09R27D1	6 ¾" Non-IC Remodeler (dimming)	2700K		23W		Pages
1100LED09R351	6¾" Non-IC Remodeler	3500k		19W		27
1100LED09R35D1	6¾" Non-IC Remodeler (dimming)	3300K		23W		

LED Advantage



✓ Easily installs into existing ceilings from below.

✓ Add energy efficient lighting to any room.

✓ Replace existing fixtures with comparable lighting using a fraction of the energy.

Dimming



Easy Installation

Adhesive cutting template makes it easy to mark installation points while the unique mounting ring (shown) securely holds to the ceiling while securing the trim for a flawless installation.



General Purpose Downlighting Lytecaster

Uniframe



Key Features

- Tool free installation in commercial ceilings
- Cuts installation time by up to 50%
- · Ideal for light commercial, hospitality and multi-family
- Improved cut-off and optic performance
- Uses up to 75% less energy than incandescent

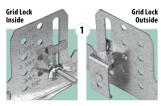
Uniframe

Catalog No.	Ceiling	Color Temp	Input Voltage	Wattage	Lumens	Trims
1001LED09N271	C"NIC IC NIC CONTROL OF	2700k	120V	10\\/		
1001LED09N272	5" Non-IC New Construction	2700K	277V	19W		
1001LED09N27D1	5" Non-IC New Construction (dimming)	2700k	120V	23W		Page
1001LED09N351	CINI ICNI C	25001	120V	10\\/		26
1001LED09N352	5" Non-IC New Construction	3500k	277V	19W		
1001LED09N35D1	5" Non-IC New Construction (dimming)	3500k	120V	23W	000 1*	
1101LED09N271	62/IN ISN 5	27001	120V	10\\/	900 lm*	
1101LED09N272	6¾" Non-IC New Construction	2700k	277V	19W		
1101LED09N27D1	6 %" Non-IC New Construction (dimming)	2700k	120V	23W		Page
1101LED09N351	62/IN ISN 5	25001	120V	10\\/		27
1101LED09N352	6¾" Non-IC New Construction	3500k	277V	19W		
1101LED09N35D1	6¾" Non-IC New Construction (dimming)	3500k	120V	23W		

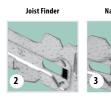


Please reference specification sheets for performance details.

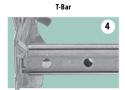




Tool free installation in Grid Ceiling. Automatically adjusts to any T-Bar height, width, and ceiling thickness with our new Grid-Lock.



Easily adaptable to wood construction with integrated nailing tabs and vertical alignment tabs for standard joists and strapping.



Design secures tile down on T-Bar eliminating the tile floating upward during trim installation.



Easily adjusts from 16" O.C. wood joists to 24" O.C. T-Bar.



Locking mechanism eliminates frame movement.

Lytecaster General Purpose Downlighting

5" Compatible Trims

General Purpose Downlighting Lytecaster

6¾" Compatible Trims

Compatible



The trims listed below are compatible with the LED Retrofit and the 5" LED Remodeler and Uniframe

The trims listed below are compatible with the LED Retrofit and the 6 3/4" LED Remodeler and Uniframe



Aperture Cone

Cat. No.	Finish
1008*	Brushed Gold
1010*	Brushed Clear
1012*	Specular Gold
1013*	Specular Clear
1013CD*	Clear Diffuse
1013BK*	Specular Black
1013WH	Matte White

Step Baffle

Cat. No.	Finish
1005*	Matte Black
1005BNM	Natural Metal baffle Natural Metal flange
1005WH	Matte White

Basic Baffle



Basic White Reflector

Cat. No.	Finish
1071	Gloss White

Step Eyelid Wall Washer

Cat. No.	Finish
1035	White Eyelid with Matte Black Baffle
1035WH	White Eyelid with Matte White Baffle

Basic Eyelid Wall Washer

Drop Lens

Cat. No.

Finish	Cat. No.	Finisl
Dropped Lens	1143	Specu
	1144	Specu
	1144CD	Clear I
		4

Flush Lens



Cratere Dome



Specular Reflector

Cat. No.	Finish
1108*	Brushed Gold
1110*	Brushed Clear
1112*	Specular Gold
1113*	Specular Clear
1113CD*	Clear Diffuse
1113BK*	Specular Black
1113WH	Matte White

Cat. No. Finish Clear Diffuse 1146CD

Basic White Reflector



Step Baffle

Aperture Cone

Cat. No.	Finish		
1105*	Matte Black	-	
1105BNM	Natural Metal baffle Natural Metal flange		
1105WH	Matte White		2

Basic Baffle

Cat. No.	Finish
1176	Black Baffle
1176WH	Gloss White Baffle
1179M1	Black Baffle
1179WH	Gloss White Baffle

Cross Blade



Shallow Specular Reflector

Cat. No.	Finish
1143	Specular Gold
1144	Specular Clear
1144CD	Clear Diffuse

Basic Eyelid Wall Washer

Drop Lens



Flush Lens



Recessed Lens



Fresnel Lens



Opal Glass



Opal Dome



Cratere Dome



Please reference frame-in kit spec sheet for Energy Star trim compatibility.

* Add "NM" to sku for Natural Metal Flange

Please reference frame-in kit spec sheet for Energy Star trim compatibility.

* Add "NM" to sku for Natural Metal Flange

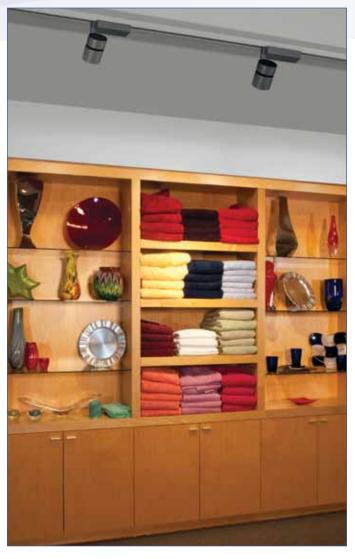
Track Lighting

Setting the standard in innovation, flexibility and performance.

Employing the latest in LED technology, combined with the proven success of Alcyon, our LED luminaires set the standard for innovation, flexibility and performance, without sacrificing design.

Building upon our expertise in LED the Alcyon LED family represents the state-of-the-art in energy efficient lighting for retail, commercial and architectural applications. Alcyon LED delivers long lasting performance for accent and flood lighting in a stunning wireless design







Remote Phosphor

The Alcyon LED Flood utilizes, Lightolier's proprietary Remote Phosphor Technology. Redefining how light from blue LED's is converted to white. Remote phosphor technology achieves system performance of 50 lumens per watt with consistent, uniform color across products.

Remote mounting the phosphor to the diffusion lens allows back-reflected light to be redirected out of the luminaire by a highly-reflective mixing chamber. The result is a 20% increase in system efficiency.

Quality White Lighting

Tightly packed white LED technology used in Alcyon LED Accents deliver the quality of light that is essential for applications where directional lighting is needed. Ideal for display, accent and task lighting.

Alcyon LED accents provide higher efficiency than incandescent or halogen light sources leading to energy savings with no ultraviolet or infrared radiation. Accent luminaires provide concentrated light which dramatically draws interest to objects.

Lytespan Track Lighting

Alcyon LED Flood

Key Features

- 20W, 1200* Nominal Lumens
- LED Board: Metal Core Printed Circuit board for efficient thermal management with 16 royal blue LEDs.
- Optical Assembly: Patented remote phosphor technology provides increased efficiency and color stability. Phosphor lens assembly positioned in front of LED array converts blue light to white and produces a wide even pattern of diffused light without bright spots created by individual LEDs. Uniform phosphor coating provides consistent, stable color with a shift of no more than +/- 100K over life. High reflectance material in optical chamber harnesses led light and redirects through phosphor with minimal losses.
- Integral Locking: Vertical and horizontal locking preserves original lighting design intent.
- Aiming Indicator: Allows a series of luminaires to be precisely set to the same aiming angle.

* +/- 5%









LLFLVBK



Alcyon LED Flood Accessories

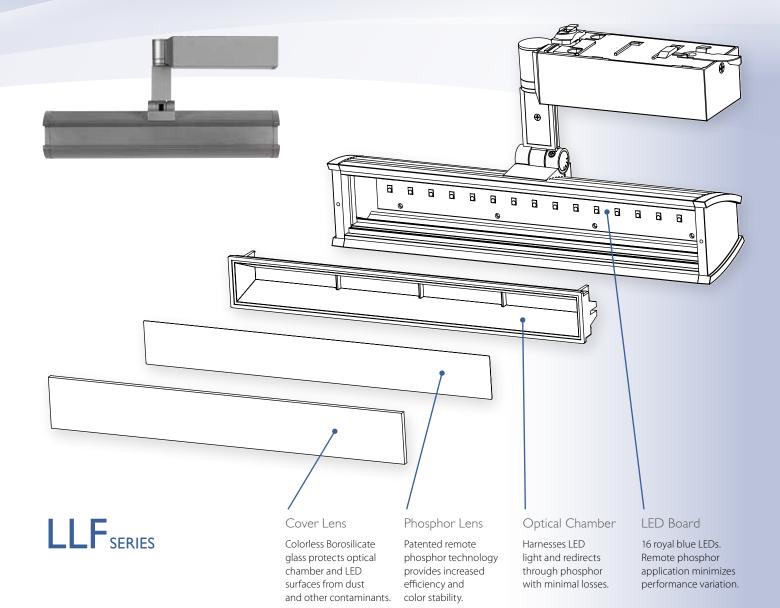
Cat. No.	Finish		Description
LLFVZ	AL	Aluminum	
	BK	Black	Track LED Flood Visor
	WH	White	
LLFLV	BK	Black	Track LED Flood Vertical Blade Louver
LLFBD	AL	Aluminum	
	BK	Black	Track LED Flood Barn Door
	WH	White	

Dimming: Use electronic ELV (electronic low voltage) type dimmer.

Consult factory for dimming compatibility.

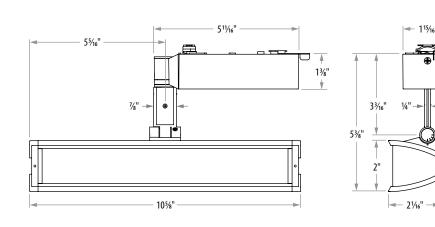
Track Lighting Lytespan

Alcyon LED Flood



Alcyon LED Flood

,		
Cat. No.	Finish	Color Temp
	AL Aluminur	n
LLF27	BK Black	2700K
	WH White	
	AL Aluminur	n
LLF30	BK Black	3000K
	WH White	
	AL Aluminum	n
LLF35	BK Black	3500K
	WH White	
	AL Aluminum	n
LLF40	BK Black	4000K
	WH White	



30 Philips Lightolier For complete specification information visit www.Lightolier.com/SolidState

Lytespan Track Lighting

Alcyon LED Accent

Key Features

- 17W, 700* Nominal Lumens
- Integrated Housing Heat Sink: Die-cast aluminum maintains LED junction temperature for minimum 50,000 hr lifetime at 70% lumen maintenance.
- Optical Assembly: Interchangeable reflectors may be changed at any time to accommodate the lighting requirements of the space.
- Integral Locking: Vertical and horizontal locking preserves original lighting design intent.
- Aiming Indicator: Allows a series of luminaires to be precisely set to the same aiming angle.
- * ½ 10% for 3000K





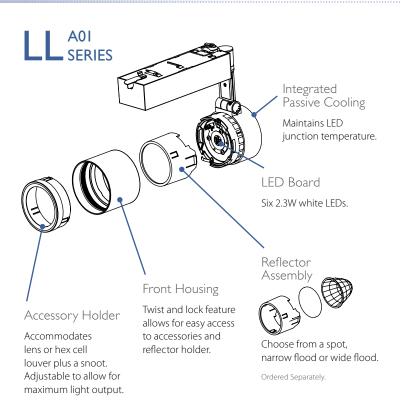


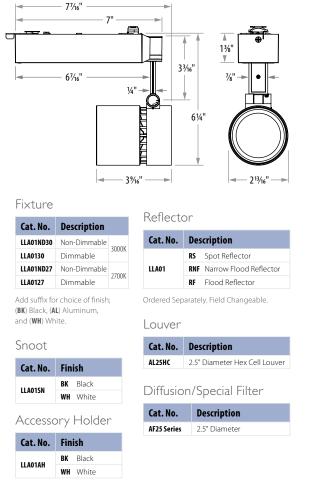
Alcyon LED Accent

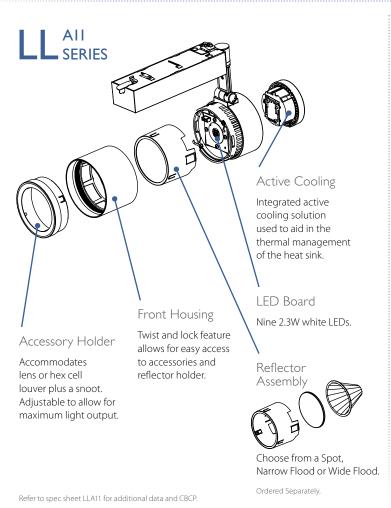


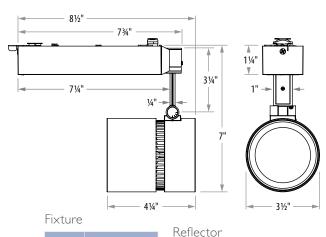
Key Features

- 25W, 960* Nominal Lumens
- Integrated Housing Heat Sink: Die-cast aluminum maintains LED junction temperature for minimum 50,000 hr lifetime at 70% lumen maintenance.
- Optical Assembly: Interchangeable reflectors may be changed at any time to accommodate the lighting requirements of the space.
- Integral Locking: Vertical and horizontal locking preserves original lighting design intent.
- Aiming Indicator: Allows a series of luminaires to be precisely set to the same aiming angle.
- * ½ 10% for 3000K









Cat. No.	Description	
LLA11ND30	Non-Dimmable	3000
LLA1130	Dimmable	30001
LLA11ND27	Non-Dimmable	27001
LLA1127	Dimmable	27001

Add suffix for choice of finish; (BK) Black, (AL) Aluminum. and (WH) White.

Snoot		
Cat. No.	Finish	
LLA11SN	BK Black	
	WH White	

Accessory Holder

/ (СССЭЭС)	1 10100
Cat. No.	Fin	ish
LLA11AH	BK	Black
LLATIAN	WH	White

LLAHCATT	Irack LED Louver
Diffusio	n/Special Filter

Cat. No. Description

Ordered Separately. Field Changeable.

Cat. No. Description

Louver

RS Spot Reflector

RF Flood Reflector

RNF Narrow Flood Reflector

Cat. No.	Description		
	PF	Perimeter Frost	
II A11AF	SY	Symmetrical Spread	
LLATIAF	FR	Frosted Etched Glass	
	SF	Solite Soft Focus	

Refer to spec sheet LLA01 for additional data and CBCP.

32 Philips Lightolier LED Lighting Catalog 33 For complete specification information visit www.Lightolier.com/SolidState

Lightolier's Architectural Decorative utilizes state-ofthe-art LED technology.

Architectural Decorative luminaries are designed to complement the architecture of a space, with elegant lines and forms that add elements of light for visual interest, or when used repetitively as a rhythm of light. These products can create the ambiance of any interior space, however with today's energy concerns, efficiency is required to be built into each design.

With efficiency comes LED technology, which creates the soft glow and gentle sparkle expected from any architectural product, without a large amount of energy consumption. Great care has gone into designing each product to deliver consistent color at various CCTs and to integrate decorative elements into any ambient lighting system.

Beauty is not the only element designed into each luminaire. Thermal management is critical to every aspect of an LED system, and light output, life and color stability are all directly related to controlling a luminaire's operating temperature. By designing each decorative luminaire as an integrated system, utilizing LEDs, maintaining thermal control and aesthetic design, we can assure maximum heat dissipation for the life of the product, and achieve architectural ambiance and space enhancement.



Architect: Torchia Associates, Inc Photograph: Padgett and Company



Vetro Pendant 23/8" (Straight)

Power Heads

Catalog No.	Source	Watts	CCT	Volts
PS01L27SAU	LED	6W	27k	120V to 277V
PS01L30SAU			30k	
PS01L35SAU			35k	
PS01L40SAU			40k	2//V

Primary Diffuser

PS Power Head

SG01L Primary Glass

Cat. No.	Ht	Description	Compatibility
SG01L	10"	Inner Cylindrical Opal Glass	Required for all Glass options
SA01L		Inner Cylindrical Opal Acrylic	Required for all Acrylic options

Secondary Glass

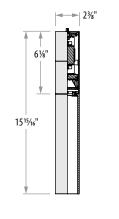
Cat. No.	Ht	Description	Compatibility
GLS01	15 ½"	Outer Cylindrical Clear Glass	
GLS02		Outer Conical Clear Glass	Optional for all
GLS01A		Outer Cylindrical Clear Acrylic	

Suspension Kits

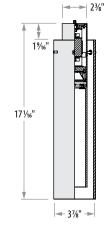
Cat. No.	Finish	Description
SK01	Satin Aluminum	Clear Metallic Straight Cord/Cable, 120" Length, (10') w/Canopy
SK02		Clear Metallic Straight Cord/Cable, 300" Length, (25') w/Canopy
ST01		36" Length %" Stem w/Canopy
ST02		60" Length 3/4" Stem w/Canopy
стс		Close to Ceiling Kit
TM01		Track Mounting Kit

PS SERIES

Vetro PS Series Dimensions



PS Power Head with SG01L Glass



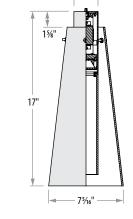
PS Power Head with SG01L/GLS01 Glass

PS Power Head

SG01L Primary Glass GLS01 Secondary Glass

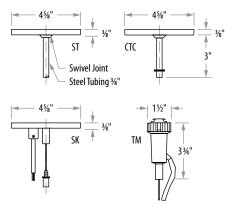
PS Power Head

SG01L Primary Glass GLS02 Secondary Glass



PS Power Head with SG01L/GLS02 Glass

Suspension Kit Dimensions



Note: Power Head, Primary Glass and Suspension Kit must be ordered to make complete Luminaire. Secondary Glass is optional.

34 Philips Lightolier For complete specification information visit www.Lightolier.com/SolidState

Vetro Pendant 23/8" (Angular)

Power Heads

Catalog No.	Source	Watts	CCT	Volts
PS01L27SAU	LED	6W	27k	120V to 277V
PS01L30SAU			30k	
PS01L35SAU			35k	
PS01L40SAU			40k	

Primary Glass

Cat. No.	Ht	Description	Compatibility
SG03L	9"	Inner Conical Opal Glass	Required for all

Secondary Glass

Cat. No.	Ht	Description	Compatibility
GLS02		Outer Conical Clear Glass	
GLS03	15 ½"	Outer Conical Clear/Sand Blasted Glass	Optional for all

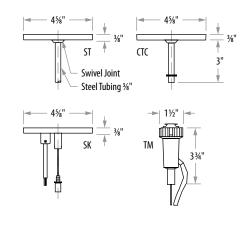
Suspension Kits

Cat. No.	Finish	Description
SK01	Satin Aluminum	Clear Metallic Straight Cord/Cable, 120" Length, (10') w/Canopy
SK02		Clear Metallic Straight Cord/Cable, 300" Length, (25') w/Canopy
ST01		36" Length 3/4" Stem w/Canopy
ST02		60" Length 3%" Stem w/Canopy
стс		Close to Ceiling Kit
TM01		Track Mounting Kit



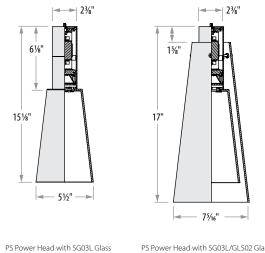
PS⁰¹ SERIES

Suspension Kit Dimensions

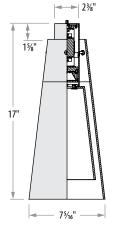


Note: Power Head, Primary Glass and Suspension Kit must be ordered to make complete Luminaire. Secondary Glass is optional.

Vetro PS Series Dimensions



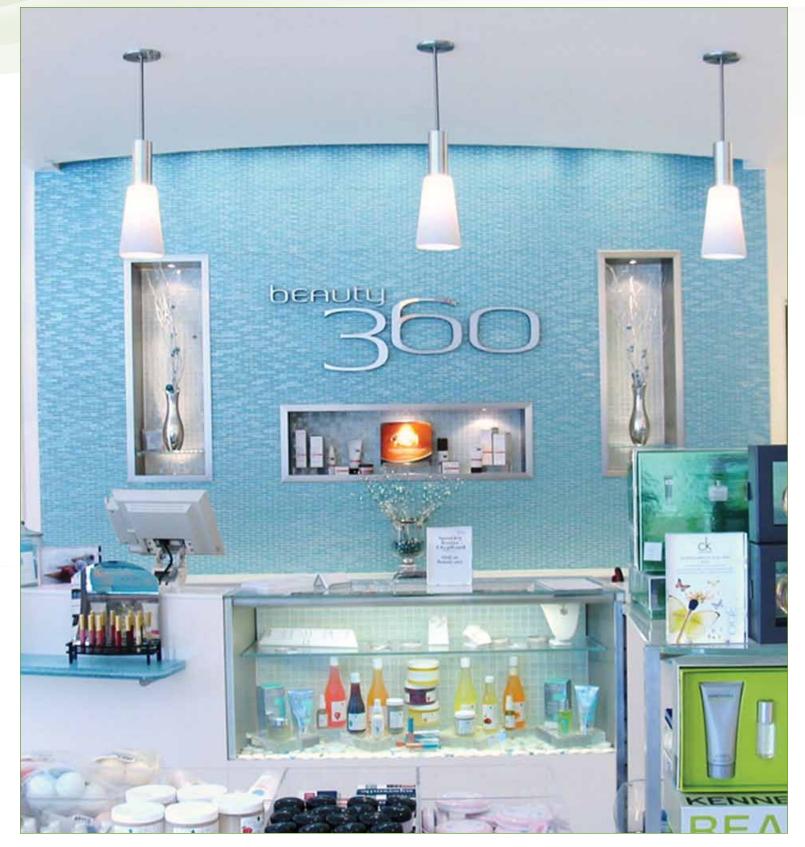




PS Power Head with SG03L/GLS03 Glass

Lighting Architectural Decorative

Vetro Pendant 23/8" (Angular)



Lighting Designer: David Apfel

Vetro Pendant 43/4"

Power Heads

Cat. No. So

PM01L27SA1 PM01L27SA2 PM01L30SA1 PM01L30SA2 PM01L35SA1 PM01L35SA2 PM01L40SA1 PM01L40SA2

as			1 0 11 0 1 1	caas		
urce	ССТ	Volts	Cat. No.	Source	ССТ	Volts
	27k	120V	PM02L27SA1		27k	120V
	2/K	277V	PM02L27SA2		2/K	277V
	120V PM02L30SA1	NI .		30k	120V	
WC	SUK	277V	PM02L30SA2	20W	SUK	277V
FD	35k	120V	PM02L35SA1	LED	35k	120V
33K	277V	PM02L35SA2		SSK	277V	
	40k	120V	PM02L40SA1		40k	120V
	40k	277V	PM02L40SA2		4UK	277V

Primary Diffuser

Cat. No.	Width	Description	Compatibility
PG01	43/4"	Inner Opal Glass	Required for all Glass options
PA01		Inner Opal Acrylic	Required for all Acrylic options

Secondary Glass/Acrylics

Cat. No.	Width	Description	Compatibility	
GL01	7"	Outer Clear Glass		
GL02	10 1/4"	Outer Clear Glass	0-4:	
GL01A	7"	Outer Clear Acrylic	Optional for all	
GL02A	10 1/4"	Outer Clear ACTYLIC		

Suspension Kits

Cat. No.	Finish	Description
SK01	Satin Aluminum	Clear Metallic Straight Cord/Cable, 120" Length, (10') w/Canopy
SK02		Clear Metallic Straight Cord/Cable, 300" Length, (25') w/Canopy
ST01		36" Length 3/8" Stem w/Canopy
ST02		60" Length 3/6" Stem w/Canopy
стс		Close to Ceiling Kit
TM01		Track Mounting Kit

Power Heads





PM Power Head

PG01 Primary Glass GL01 Secondary Glass



Lighting Architectural Decorative

Vetro Wall Sconce



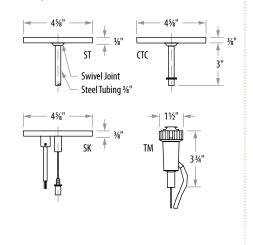
Catalog No.	Source	Watts	CCT	Volts
PW01L27SAU			27k	120\
PW01L30SAU	LED	6W	30k	to 277\
PW01L35SAU			35k	
PW011405411			40k	

Primary Diffuser

Cat. No.	Ht	Description	Compatibility
SG01L	10"	Inner Opal Glass	Required for all
SG02L	8"	inner Opar Glass	Glass options
SA01L	10"	Inner Opal Acrylic	Required for all
SA02L	8"	inner Opai ACTYIIC	Acrylic options



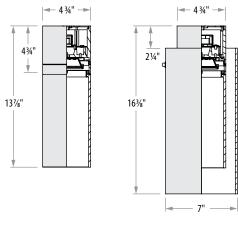
Suspension Kit Dimensions

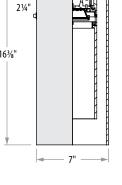


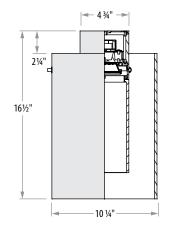
Note: Power Head, Primary Glass and Suspension Kit must be ordered to make complete Luminaire. Secondary Glass is optional.

Vetro PM Series Dimensions

PM Power Head with PG01 Glass

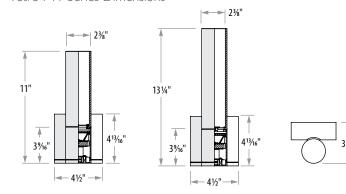


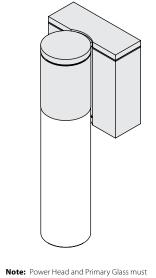






Vetro PW Series Dimensions





be ordered to make complete luminaire.

PM Power Head with PG01/GL01 Glass

4" Vetro Downlight

' Vetro Decorative Accessory

• Order Calculite C4L05 or C4L10 Series Frame-In Kits and Flangeless Trims separately.



Nick Merrick © Hedrich Blessing 2009

Lighting Architectural Decorative

6" & 7" Vetro Downlight



Vetro Decorative Accessory

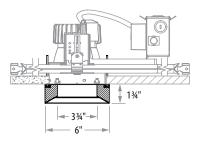
 Order Calculite C6L Series Frame-In Kits and Flangeless Trims separately.

"Vetro Decorative Accessory

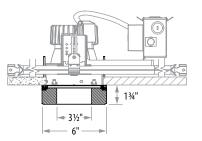
- 7" Vetro Decorative Accessories available (not shown).
- Order Calculite C7L Series Frame-In Kits and Flangeless Trims separately.
- Vetro Accessories are; D7A01, D7A02, D7A03, D7A04, D7A13, D7A14

Nick Merrick © Hedrich Blessing 2009

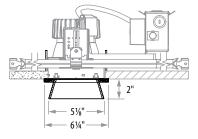




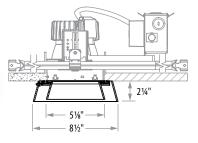




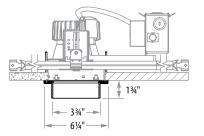




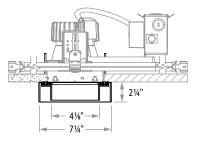




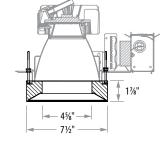




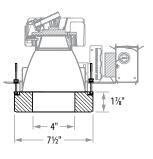




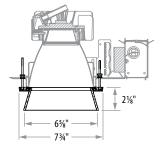




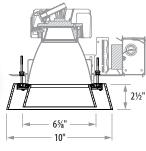




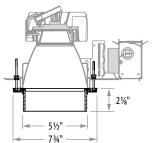




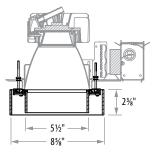












Lighting Architectural Decorative

Cove

9" Power Heads

9" Pendalyte

Cat. No.	Source	Watts	CCT	Finish	Volts
40471L27U	LED	20W	27K	Grey	120V to 277V
40471L35U			35K		
40471L27UTM			27K		
40471L35UTM			35K		

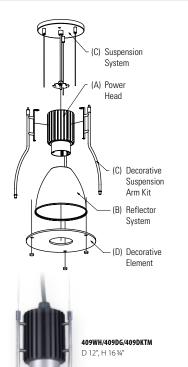
Add Power Head (listed above) to Reflector/Glass Diffuser and Suspension to make a complete luminaire. For deco assemblies shown below, visit www.Lightolier.com/SolidState.

9" Reflectors/Glass Diffusers

Cat. No.	Description	
40411	Semi-Specular Anodized Reflector	
40413	Satin and Anodized Reflector	
409WH	White Glass Diffuser	
409BL	Cobalt Blue Glass Diffuser	
409AB	Amber Glass Diffuser	

Suspension Kits

	Cat. No.	Description	Finish
	404SKG*	120" L	Grey
404	404SKB	120" Length Cable/Cord & Coil Cord	Black
	404536	20"1	Grey
	404S36B	36" Length 5/8" Stem	Black























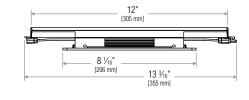
Concealed Color



Cat. No.	Finish	Length	Beam Angle	Volts			
CCL12WF12		12"	12"	Wide Flood 120° x 120°			
CCL12NF12	Character Carry			12	12	1Z Narrow	Narrow Flood 100° x 40°
CCL06WF12	Charcoal Gray		Wide Flood 120° x 120°	1200			
CCL06NF12		6"	Narrow Flood 100° x 40°				

CLMT2548	(25) 4ft moi	unting tracks		CCLPC360	360"			
Power Supplies	Wattage	# of Ports	Volts	Jumper Cables	Lead			
CCLPS602P	60W	2 Ports	120\/	CCLJC12	12"			
CCLPS608P	6000	8 Ports	120V	CCLJC60	60"			

Mounting Track Quantity



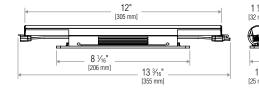


Cat. No.	Finish	Length	Color Temp	Volts		
CWL281212		12"	2800K			
CWL421212	Charcoal Gray	12	12	12	4200K	120V
CWL280612	Charcoal Gray			2800K	1200	
CWL420612		6"	4200K			

Mounting Track	Quantity	Power Cord	Lead
CLMT2548	(25) 4ft mounting tracks	CWLPC120	120"

Jumper Cables	Lead
CWLJC12	12"
CWLJC60	60"

Lead



Deco Pendalytes

Marker Lights

Step Lights

Step Lights

Step lights provide a clean and finished aesthetic for your contemporary design while providing functional pathway lighting.









Step Lights

Cat. No.	Style	Finish	Watts	Volts
DSL01W	Linear	Matte White		120V to 240V
DSL01SA	Lilleal	Satin Aluminum		
DSR01W	Round	Matte White	4147	
DSR01SA	Nouria	Satin Aluminum	4W	
DSS01W	Shielded	Matte White		
DSS01SA	Shieided	Satin Aluminum		





Marker Lights

The gentle glow of the marker lights provides a subtle visual enhancement ideal for indicating a feature pathway.

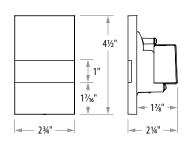


Marker Lights

Cat. No.	Style	Finish	Watts	Volts	
DML01W	Linna	Matte White		atte White	
DML01SA	Linear	Satin Aluminum			
DMP01W	Pattern	Matte White		120V to 240V	
DMP01SA	Pattern	Satin Aluminum	1W		
DMR01SA	Round	Satin Aluminum (center)	100		
DMS01	Square	Sandblasted Acrylic			

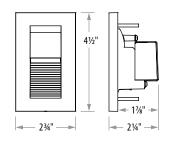






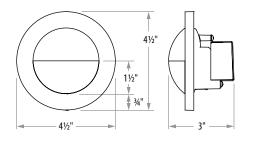
Shielded

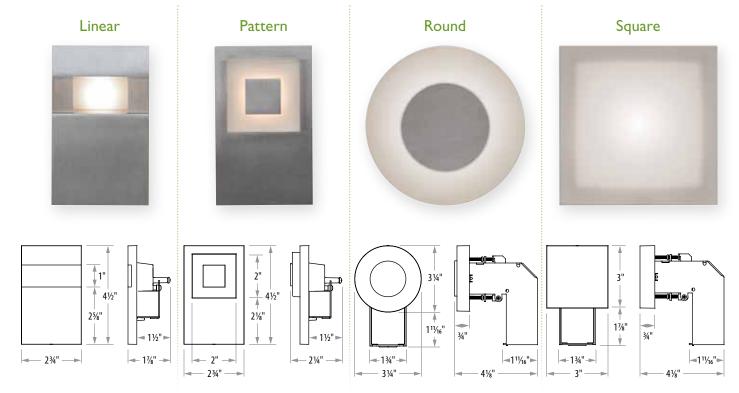




Round







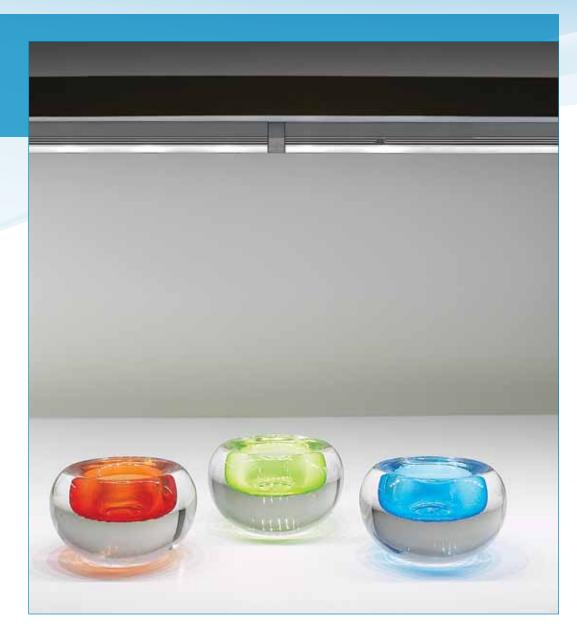
Task Lighting

Innovative specification grade fixtures utilizing today's most energy efficient light sources.

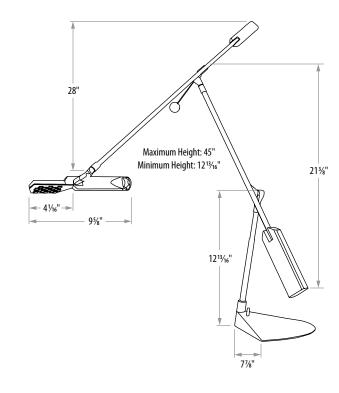
LED Task Lighting provides low wattage solutions that enable individuals to place light where it is needed the most. With standards for design wattage ever decreasing, ambient light levels in offices have continued to decrease over the past decade.

Solutions such as the Halley portable Task light provide a generous amount of even illumination to be delivered into the workspace. The variety of LED Undercabinet solutions provide high footcandle levels to desk tops with ultra low profile solutions. The magnetic track and puck system provide a low profile flexible system for challenging design situations.

Thermal management is critical to every aspect of an LED system. Light output, life and color stability are all directly related to operating temperature. By designing the light engine as a fully enclosed, integrated system, maximum heat dissipation is ensured and the potential for field contamination has been eliminated. An integrated luminaire provides better thermal conduction through out the entire luminaire, and therefore provides superior performance related to life, color stability, and light output.







LL-HDBK Bla	ack	LED Desk Lamp		
LL-HDSL Sil		LED DESK LATTIC		
	ver		120V	
LL-HFBK Black		LED Floor Lamp	1200	
LL-HFSL Sil	ver	LED FIOOI Lamp		
LL-HFBKB Bla	ack	LED Floor Lamp Base	NA	

Low Profile

Undercabinet

Fully self-contained 18W system with LED board, power supply and drivers in a package only ¾" deep. Dimmable with standard 0-10V controls.





Magnetic Track

The innovative Magnetic Track System utilizes interchangeable light modules with a smooth, wide distribution. This extremely flexible system allows changing the location, distribution and intensity of the light as the modules can easily be moved, added, or removed.

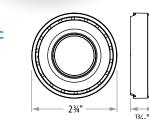


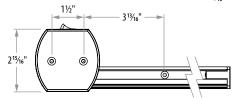






Magnetic Track





Magnetic Track

Cat. No.	Finish	Description	Watts	Volts
CS100AL*	Matte	5' Track with switch	NA	24V
CS101AL*	Alum.	Magnetic light module	4W	DC
LED-RPS-50	Matte Black	Remote Power Supply	50W max.	120\

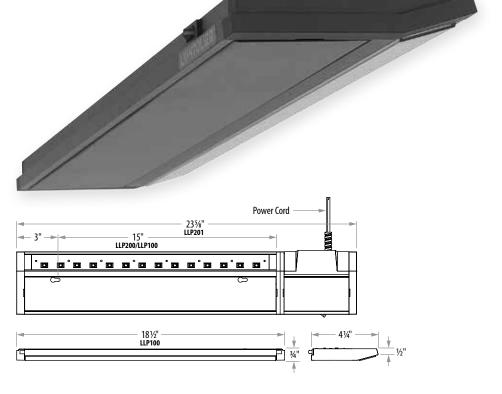
Low Profile

Hardwire

Cat. No.	Finish	Watts	Volts
LLP200WH	White Joiner		
LLP200BK	Black Joiner	iner 18W	
LLP201WH	White Power Unit	(23W max.)	120V
LLP201BK	Black Power Unit		

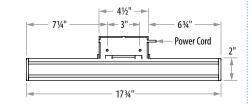
Cord and Plug

Cat. No.	Finish	Watts	Volts
LLP100AL	Matte Aluminum	18W	1201/
LLP100BK	Matte Black	(23W max)	120V



Adjustable Micro

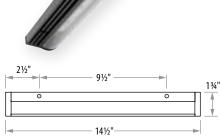




Adjustable

ADJ100AL* Matte Aluminum ADJ100BK* Matte Black	18W	24V
ADI100RK* Matte Black	(22)4/	
ADJIOODK Watte Black	(23W max.)	DC
LED-RPS-50 Matte Black (Remote Power Supply)	50W	120V

^{*} Remote power supply required, see specification sheet for details.



Micro

Cat. No.	Finish	Watts	Volts
MIC100AL*	Matte Aluminum	10W	24V
MIC100BK*	Matte Black	1000	DC
LED-RPS-50	Matte Black (Remote Power Supply)	50W max.	120V

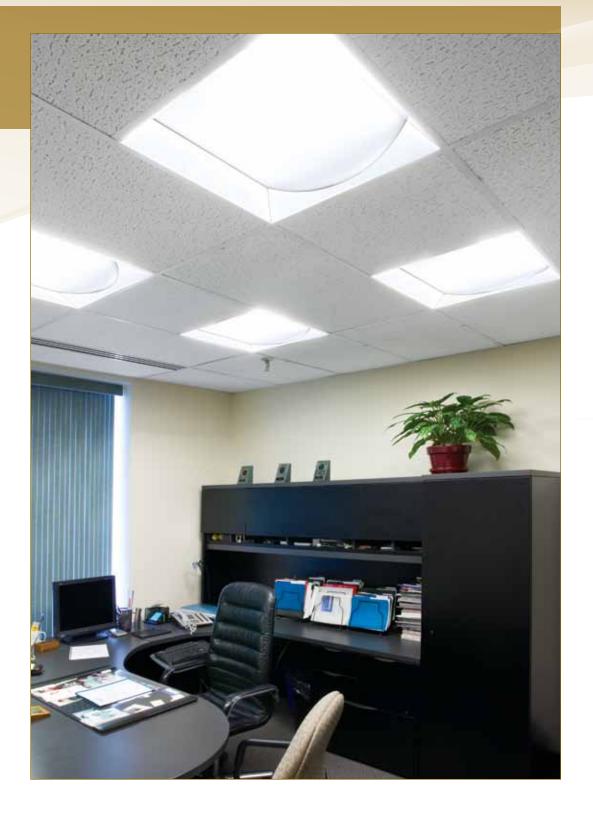
Recessed Lighting

Providing illumination virtually indistinguishable from traditional technologies while consuming less energy.

The Philips Lightolier LED Recessed luminaire, designed specifically around the LED light source, sets a new standard for lighting efficiency, performance and sustainability.

With our versatile offering of both contemporary and classical shielding appearances, lighting designers and architects have the ability to utilize a LED light source in any environment.

Our LED product families, provide an ideal energy saving fixture for all 2'x2' recessed T-bar grid and drywall applications.



Construction

- Field replaceable LED array accessible from below.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment. Designed to keep LEDs below specified maximum temperatures in typical commercial installations.
- Depth = 5"

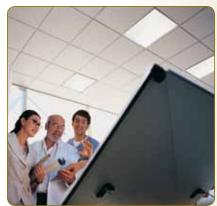
Electrical System

- Integral, high efficiency driver and power supply.
- Nominal Power Factor = 0.9
- Input voltage = 120V 277V, 50/60Hz



LED Facts

LEDs have no breakable glass, their solid-state design renders them impervious to shock, vibration, frequent switching and environmental extremes. With an average lifespan of more than 50,000 hours, these maintenance-free LED luminaires eliminate repeated relamping, and operate in ambient room temperatures of -22°F to +104°F [-30°C to +40°C].



LEDs contain no toxic materials, hazardous mercury, or halogen gases.

LEDs emit no ultraviolet (UV) rays or infrared (IR) radiation.

LEDs do not require a Material Safety Data Sheet (MSDS) or hazardous waste disposal.

LEDs do not produce electro-magnetic interference.



Opalescent's 2-1/2" regressed frame with contoured lens, made of a high light transmission frost white acrylic, creates a bold but simple appearance that will blend with any architectural environment.



Specplus RA offers a 1/2" regressed extruded aluminum frame with spring loaded latches. The 9/16" wide frame trim gives a 500 square inch aperture. The lens is extruded acrylic, square base male conical prism of .156" overall thickness. Providing excellent obscuration of the light source while controlling volumetric illumination.



Skyway's aesthetically pleasing triple lens design features a clear conical prismatic center lens, enhanced by softly curved frost white acrylic lenses on each side, mounted in a regressed extruded aluminum frame with spring loaded latches.



Specplus FA is flat extruded aluminum frame with spring loaded latches. The 9/16" wide frame trim gives a 500 square inch aperture. The lens is extruded acrylic, square base male conical prism of .156" overall thickness. Providing excellent obscuration of the light source while controlling volumetric illumination.

50 Philips Lightolier For complete specification information visit www.Lightolier.com/SolidState

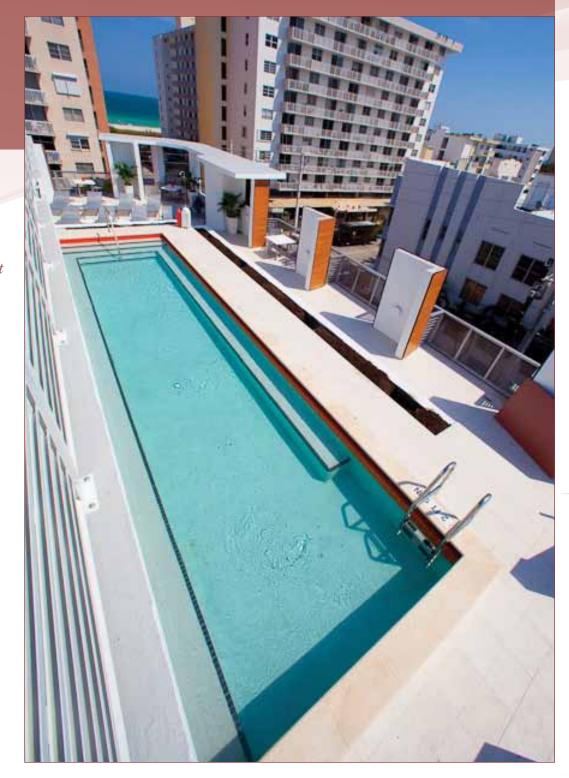
^{* 42} Recessed LED Luminaires in a 60' X 56' X 9' room with a reflectance of 80/50/20, placed 8' X 10' on center. Footcandle readings are taken 2 1/2 from floor level.

Architectural Egress & Ambient

Exit and Emergency Lighting

A complete line of advanced architectural, commercial and industrial emergency lighting products and exit signs to meet all of your life safety needs.

Lightolier Safety Lighting Systems continues to provide the largest selection of exit signs, commercial and industrial emergency lighting products available. We intelligently research, develop and release new, innovative products that utilize the latest technologies in LEDs, environmentally friendly batteries and technically advanced microprocessors and electronics.



Ordering Information

RD

Model/Series	Housing Finish
RD = Radiante	A = Aluminum
Architectural	W = White
Emergency Fixture	B = Black
	G = Gunmetal
	BR = Ornamental Bronze
	AC = Aged Copper
	VG = Velvet Green
	N = Nickel
	GA = Granite
	Consult factory for other co

Options

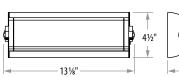
Cat. No.	Description
TP	Tamperproof ¹
DL	Damp Location: 50°F (10°C) to 104°F (40°C)

Accessories

Cat. No.	Description	
IRemote	Infrared Remote Control	

Notes

 TP option includes tamperproof screws and kit for installation.





Radiante Series

Radiante is a state-of-the-art architectural emergency light that is ideal for upscale interiors. Choose from a wide variety of decorative finishes, and benefit from the high-output white LEDs.

Illumination

Provided by two 5 watt, white LEDs and a specular Miro 4 (Alanod) aluminum reflector. The lamp head assembly may be rotated in five-degree increments over a range of 60 degrees for ideal distribution along the egress path. Radiante will provide one footcandle average illumination over a 44' long path of egress. IES photometric data files are available.

Housing

Constructed of robust die cast and extruded aluminum.

A full range of pleasing architecturally inspired finishes are available.

Electronics

120/277 VAC dual voltage input with surge-protected, LED circuitry. Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

Batter

Maintenance-free, sealed, nickel metal hydride battery has an estimated service life of 10 years, and an operating temperature range of 65°F (19°C) to 85°F (30°C).

Input Power Requirements

120 VAC - 0.09 amps 277 VAC - 0.03 amps

Self-Diagnostics

Standard self-diagnostic electronics perform an automatic one minute test of emergency operation every 30 days and a similar 30 minute test every 180 days. This test verifies fixture activation, battery capacity and lamp operation. User may initiate a one minute or 90 minute test manually using the test switch or available infrared tempte.

Code Compliance

UL 924 listed, Optional UL damp location listing.

Warranty

Three year full electronics warranty.
Five year full plus five year pro-rated NiMH battery warranty.

Ordering Information

RDNO

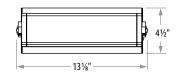
Model/Series	Housing Finish
RDNO = Radiante	A = Aluminum
Normally On	W = White
	B = Black
	G = Gunmetal
	BR = Ornamental Bronze
	AC = Aged Copper
	VG = Velvet Green
	N = Nickel
	GA = Granite

Options

Cat. No. Description	
120VAC Two Circuit	
277VAC Two Circuit	
Tamperproof ¹	
Damp Location	

Notes

1. TP option includes tamperproof screws and kit for installation.





Radiante Normally On Series

Radiante Normally On fixture expands on the original Radiante product offering. Less battery and using comfortable 3W LED lamps, Radiante Normally On is ideal for ambient and wall washing applications.

Illumination

Illumination is provided by two 3 watt white LEDs and a specular Miro 4 (Alanod) aluminum reflector. The lamp head assembly may be rotated in five-degree increments over a range of 60 degrees for ideal illumination distribution.

Housing

Housing construction is of both cast and extruded aluminum. The unit is available in multiple colors and finishes. Wall mounts to a single gang or 3-½" octagonal junction box.

Installation

Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, power source. Installation must comply with the NEC as well as other applicable codes.

Electronics

120/277 VAC dual voltage input.

Input Power Requirements

120 VAC - 0.05 amps 277 VAC - 0.02 amps

Code Compliance

UL 924 and 1598; UL damp location listing optional NEC, BOCA and OSHA Illumination standard.

Warranty

Three year full electronics warranty.

Low Level Wall Mount



Ordering Information

SURF

W	

Model/Series	Mounting	Battery	Housing Finish	Model Designator
SURF = SURF Series	W = Wall Mount	A = AC only	A = Aluminum	SD2 = Self Diagnostics
White LED		N = Nickel Metal	W = White	
Luminaire		Hydride Battery	B = Black	
			G = Gunmetal	
			BR = Ornamental Bronze	
			AC = Aged Copper	
			VG = Velvet Green	
			N = Nickel	
			GA = Granite	

Surf Wall Series

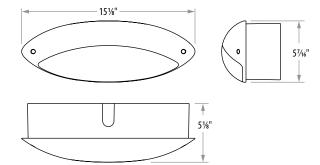
Surf Wall is a low-level LED lighting luminaire that is suitable for indoor and outdoor wet location applications. Surf Wall can be surface or semirecessed mounted and has an optional concrete pour backbox which allows for unlimited installations. An optional integrated battery provides emergency operation for applications requiring low-level egress lighting.

Options

Cat. No. Description		
2CKT1	Two circuit 120/120 VAC (AC-only models)	
2CKT2	Two circuit 277/277 VAC (AC-only models)	
DC	Universal 12-48 VDC input (AC-only models)	
EX	X Special input transformer (specify voltage & frequency)	
T	Self-testing Diagnostics	
TA	Audible self-testing diagnostics	
HR Heater option for -40°C		
TP	Tamper proof hardware	

Accessories

Cat. No.	Description
SDREMOTE	Infrared remote test device



Illumination

Provided by four 3-watt, white 6000K LED's, illumination is further enhanced with a metallized reflector.

Housing

Universal wall mount (surface or recessed) luminaire is constructed of die-cast aluminum with nine available standard decorative finishes. Small, compact design is ideal for normal, ambient and egress lighting applications.

Electronics

120/277 VAC dual voltage input with surge-protected, LED circuitry. Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

Battery

Maintenance-free, sealed, non-toxic nickel metal hydride battery has an estimated service life of 10 years.

Input Power Requirements

120/277 VAC, 60 HZ, .198/.088 amps max.

Self-Diagnostics

The Self-Diagnostics2 microprocessor has command of all critical circuit functions and operations including charger monitor circuit, battery monitoring circuit, LED/light engine monitoring, transfer circuit monitoring and over/under voltage monitoring.

Operating Temperature Range (self-powered)

32°F (0°C) to 104°F (40°C) -40°F (-40°C) to 104°C (40°C) AC Only and Self-powered w/heater option

Warranty

Three year full electronics warranty.
Five year full plus five year pro-rated NiMH battery warranty.

Code Compliance

UL 924 and 1598; Wet location listed.

Ordering Information

SURF				
Model/Series	Mounting	Battery	Housing Finish	Model Designator
SURF = SURF Series	€ = Ceiling Mount	A = AC only	A = Aluminum	SD2 = Self Diagnostic
White LED	(Recessed and Surface)	N = Nickel Metal	W = White	
Luminaire		Hydride Battery	B = Black	
			G = Gunmetal	
			BR = Ornamental Bronze	
			AC = Aged Copper	
			VG = Velvet Green	
			N = Nickel	
			GA = Granite	

Options

Cat. No.	Description
2CKT1	Two circuit 120/120 VAC (AC-only models)
2CKT2	Two circuit 277/277 VAC (AC-only models)
DC	Universal 12-48 VDC input (AC-only models)
EX	Special input transformer (specify voltage & frequency)
T	Self-testing diagnostics
TA	Audible self-testing diagnostics

Accessories

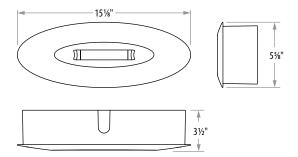
Cat. No.	Description
SDREMOTE	Infrared remote test device



Surf Ceiling Series

Surf series is a sleek and compact ceiling mount luminaire that utilizes state-of-the-art componentry; LED's, NiMH battery and a technologically advanced microprocessor.

Versatile ceiling mount, both recessed and surface allows for non-obtrusive installations for the most discernible applications in both normal AC operation and optional battery back-up.



Illumination

Provided by four 3-watt, white 6000K LED's, illumination is further enhanced with a metallized reflector.

Housing

Universal ceiling mount (surface or recessed) luminaire is constructed of die-cast aluminum with nine available standard decorative finishes. Small, compact design is ideal for normal, ambient and egress lighting applications.

Electronics

120/277 VAC dual voltage input with surge-protected, LED circuitry. Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

Battery

Maintenance-free, sealed, non-toxic nickel metal hydride battery has an estimated service life of 10 years.

Input Power Requirements

120/277 VAC, 60 HZ, .198/.088 amps m

Self-Diagnostic

The Self-Diagnostics2 microprocessor has command of all critical circuit functions and operations including charger monitor circuit, battery monitoring circuit, LED/light engine monitoring, transfer circuit monitoring and over/under voltage monitoring.

Operating Temperature Range

32°F (0°C) to 104°F (40°C)

Warranty

Three year full electronics warranty. Five year full plus five year pro-rated NiMH battery warranty.

Code Compliance

UL 924 and 1598; Damp location listed.

Wall Sconce



Harmony Series

Harmony series is a LED wall sconce available for normal ambient and/or egress lighting applications.

Simple clean design and robust construction allows for both interior and exterior applications.

Ordering Information

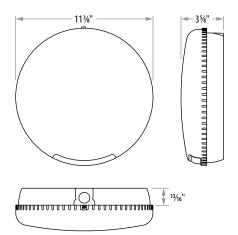
Model/Series	Battery Type	Housing Finish	Model Designator
H = Harmony	A = AC Only	A = Aluminum	SD2 = Self Diagnostics
LED Fixture	N = Self-Powered	W = White	
NiMH battery		B = Black	
		G = Gunmetal	
		BR = Ornamental Bronze	
		AC = Aged Copper	
		VG = Velvet Green	
		N = Nickel	
		GA = Granite	

Options

Cat. No.	Description
2CKT1	Two circuit 120/120 VAC (AC-only models)
2CKT2	Two circuit 277/277 VAC (AC-only models)
DC	Universal 12-48 VDC input (AC-only models)
EX	Special Input Transformer (specify voltage & frequency)
HR	Heater option for -40°C to 40° C ambient
T	Self-testing Diagnostics
TA	Audible self-testing diagnostics

Accessories

Cat. No.	Description
SDREMOTE	Infrared remote test device



llumination

Provided by four 3-watt, white 6000K LED's, illumination is further enhanced with a metallized reflector.

Housing

Constructed of die-cast aluminum with nine available standard decorative finishes, Harmony series blends well into interior and exterior spaces.

Electronics

120/277 VAC dual voltage input with surge-protected, LED circuitry. Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

Battery

Maintenance-free, sealed, non-toxic nickel metal hydride battery has an estimated service life of 10 years.

Input Power Requirements
120/277 VAC, 60 HZ, .198/.088 amps max.

Self-Diagnostics

The Self-Diagnostics2 microprocessor has command of all critical circuit functions and operations including charger monitor circuit, battery monitoring circuit, LED/light engine monitoring, transfer circuit monitoring and over/under voltage monitoring.

Operating Temperature Range

Wet Location: 32°F (0°C) to 104°F (40°C) Wet Location with Heater: -40°F (-40°C) to 104°F (40°C)

Warranty

Three year full electronics warranty.

Five year full plus five year pro-rated NiMH battery warranty.

Code Compliance

UL 924 and 1598; UL wet location listed. Meets ADA specifications for wall mounted lighting fixtures.

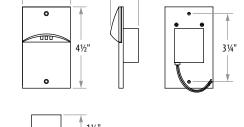
Ordering Information





LP Series

The LP Series is designed to support low-level illumination of stairwells, step landings, wheelchair ramps and exit corridors. Optional emergency back-up can be provided by C3 Series or LM mini-inverters.



Illumination

The LP Series LED engine utilizes three high performance white (3500K) LEDs combined with a LED integral driver circuit. Incorporates a user selectable, three level intensity control.

Housing

Assembled from premium die cast aluminum components and is painted in a durable powder coat finish. Standard finishes include black, white and ivory with custom finishes optional. Assembled as a one-piece device that includes the LED light engine, integral power supply, three level intensity control and a single gang junction box mounting plate. All LED and electrical components are protected by both a polycarbonate lens and high impact power supply case that will be located within the junction box.

Electronics

Designed with all LED components and is rated for 10 years of continuous "normally on" use. Standard product incorporates dip switches on rear of product allowing three levels of intensity.

Electrical Specifications

12 VDC input - 0.47 amps 12 VAC input - 0.72 amps 120 VAC input - 0.09 amps

Operating Temperature Range

-40°F (-40°C) to 122°C (50°C)

Code Compliance

UL 1598 listed. NFPA, BOCA and OSHA illumination standards. Meets ADA specifications for wall mounted lighting fixtures. UL wet location listed.

Warranty

Electronics: 5 years full

56 Philips Lightolier For complete specification information visit www.Lightolier.com/SolidState 57 LED Lighting Catalog 57

Edge-Lit Exit



EX Series

Surface Ceiling (SC)

The EX Series Edge-Lit LED exit features state of-the-art technology and innovative styling.

Ordering Information

EX

Model/Series	No. of Faces	Letter Color	Chevron Direction	Mounting Type	Panel Color	Battery Type
EX	1 = Single	R = Red	3 = No Chevron	RC = Recessed Ceiling ⁴	C = Clear	N = NiMH
	2 = Double	G = Green	$4 = Right^3$	SC = Surface Ceiling	$\mathbf{W} = White$	Blank = AC only
			5 = Left ³	$\mathbf{W} = Wall^3$	M = Mirrored	
Accessorie	!S		6 = Double	E = End		

<EXIT || EXIT>

Options

SL-kit

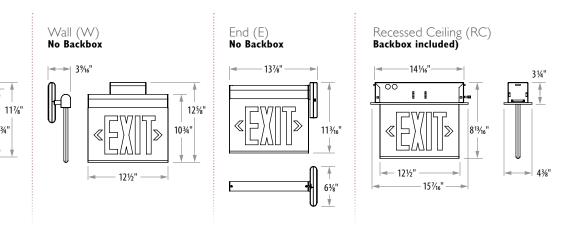
I Infrared Remote Sensor ¹ F Flashing Emergency Z Audible Emergency	Cat. No.	Description
	ı	Infrared Remote Sensor ¹
Z Audible Emergency	F	Flashing Emergency
	Z	Audible Emergency
FA 24 VDC Fire Alarm Interface	FA	24 VDC Fire Alarm Interface
WH White Face Plate or Housing	WH	White Face Plate or Housing
BK Black Face Plate or Housing	BK	Black Face Plate or Housing
SL-kit Bar Hanger Kit for Recessed Ceiling Mount	SL-kit	Bar Hanger Kit for Recessed Ceiling Mount
2CKT1 120 VAC Two Circuit	2CKT1	120 VAC Two Circuit
2CKT2 277 VAC Two Circuit	2CKT2	277 VAC Two Circuit
X Less Back Box ⁴	X	Less Back Box ⁴

Infrared Remote Control⁵

Bar Hanger Kit Back Box Kit⁴

Notes

- **1.** For use with remote control which is ordered separately. Item number: IRemote.
- 2. Double face signs only.
- 3. Single face signs only.
- 4. Recessed backbox available for immediate installation. Order part # EX-BBKIT for backbox only. When ordering balance of exit after backbox shipped prior, add "X" to the end of exit part # to signify electronics and panels, no backbox.
- **5.** Infrared Remote Sensor (I) option must be ordered with unit to be compatible with IRemote.



Illumination

Illumination is accomplished with high output LEDs. Proprietary injection/compression molded acrylic lens provides higher light output and even illumination.

Housing

The EX Series is available in both recessed and surface mounted versions. The recessed mounted sign utilizes a 20 gauge galvanized steel backbox and brushed aluminum (standard) faceplate. The surface mounted version contains the electronics in a low profile brushed aluminum (standard) housing.

Standard Self-Testing/Self-Diagnostics

Unit runs an internal test every 5 seconds for secondary voltage, charge current, battery voltage, and LED illumination. Performs automatic 1 minute discharge test every 30 days and 30 minute discharge test every 180 days.

Electronics

120/277 VAC dual voltage input. Microprocessor controlled charge, transfer and monitoring system. Charging system is complete with low voltage disconnect, AC lockout, and brownout protection. Self powered units include an AC indicator/systems status lamp and manual test switch

Battery

Maintenance free, sealed nickel metal hydride battery with 10 year life and an operating temperature between 14°F (-10°C) and 113°F (45°C). NiMH battery is a non-toxic, environmentally friendly product which is recyclable.

Input Power Requirements AC Only Emergency Operation

Red: 2.28W Red: 3.51W

Green: 2.40W Green: 2.58W

Code Compliance

JL 924 Listed, NFPA 101

Warranty

Battery: 5 yrs full, 5 yrs pro-rata

Ordering Information

DX					
Model/Series	No. of Faces	Letter Color	Mounting Type	Housing Finish	Battery Type
DX	1 = Single	R = Red	C = Ceiling/End	A = Brushed Aluminum	N = NiMH
	2 = Double	G = Green	W = Wall ³	W = White	Blank = AC only
				D DII	

Accessories

Cat. No.	Description	
IRemote	Infrared Remote Control ²	

Options

Cat. No.	Description
- 1	Infrared Remote Sensor ¹
F	Flashing Emergency
Z	Audible Emergency
FA	24 VDC Fire Alarm Interface
2CKT1	120 VAC Two Circuit
2CKT2	277 VAC Two Circuit

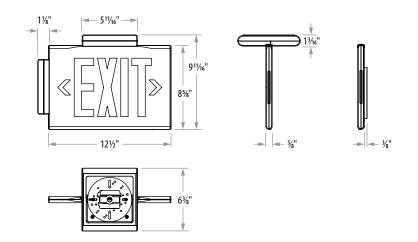
Notes

- **1.** For use with remote control which is ordered separately. Item number: IRemote.
- 2. Infrared Remote Sensor (I) option must be ordered with unit to be compatible with IRemote.
- 3. Single face signs only.



DX Series

The DX Series is an upscale Die Cast aluminum LED exit which offers technologically advanced characteristics in a thin profile that is just 0.65" thick.



Illumination

Illumination is accomplished with high output LEDs.

Proprietary internal molded-acrylic panel (thickness: 0.45") for even illumination.

Housing

Die cast aluminum construction with NFPA-type field selectable chevrons. Available in brushed aluminum, white, and black.

Standard Self-Testing/Self-Diagnostics

Unit runs an internal test every 5 seconds for secondary voltage, charge current, battery voltage, and LED illumination. Performs automatic 1 minute discharge test every 30 days and 30 minute discharge test every 180 days.

Electronics

120/277 VAC dual voltage input. Microprocessor controlled charge, transfer and monitoring system. Charging system is complete with low voltage disconnect, AC lockout, and brownout protection. Self powered units include an AC indicator/systems status lamp and manual test switch.

Batter

Maintenance free, sealed nickel metal hydride battery with 10 year life and an operating temperature between 14°F (-10°C) and 113°F (45°C). NiMH battery is a non-toxic, environmentally friendly product which is recyclable.

Input Power Requirements

ACOnly Emergency Operation
Red: 1.29W Red: 3.16W
Green: 2.20W Green: 3.00W

Code Compliance

UL 924 Listed, NFPA 101

Warranty

Electronics: 3 years Battery: 5 yrs full, 5 yrs pro-rata

58 Philips Lightolier For complete specification information visit www.Lightolier.com/SolidState 59

Edge-Lit Exit

Thermoplastic Exit



Safety Exit and Emergency Lighting

TX Series

The TX Series is an upscale thermoplastic LED exit which offers technologically advanced characteristics in a thin profile that is just 0.65" thick.

Ordering Information

TX

Model/Series	No. of Faces	Letter Color	Mounting Type	Housing Finish	Battery Type
TX	1 = Single	R = Red	C = Ceiling/End	W = White	N = NiMH
	2 = Double	G = Green	W = Wall ³	B = Black	Blank = AC only

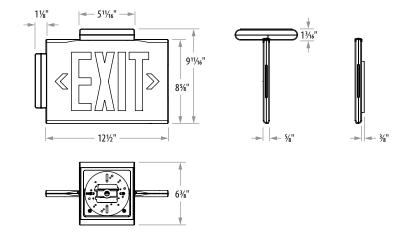
Accessories

Cat. No.	Description
IRemote	Infrared Remote Control ²

Options

Cat. No.	Description
I	Infrared Remote Sensor ¹
FA	Flashing Emergency
Z	Audible Emergency
X	24 VDC Fire Alarm Interface
2CKT1	120 VAC Two Circuit
2CKT2	277 VAC Two Circuit

- 1. For use with remote control which is ordered separately, Item number: IRemote.
- 2. Infrared Remote Sensor (I) option must be ordered with unit to be compatible with IRemote.
- 3. Single face signs only.



Illumination

Illumination is accomplished with high output LEDs. Proprietary internal molded-acrylic panel (thickness: 0.45") for even illumination.

Housing

Impact resistant, injection molded U/L 94-5VA flame retardant $thermoplastic\ housing.\ UV-stabilized\ to\ resist\ discoloration.$

Standard Self-Testing/Self-Diagnostics

Unit runs an internal test every 5 seconds for secondary voltage, charge current, battery voltage, and LED illumination. Performs automatic 1 minute discharge test every 30 days and 30 minute discharge test every 180 days.

120/277 VAC dual voltage input. Microprocessor controlled charge, transfer and monitoring system. Charging system is complete with low voltage disconnect, AC lockout, and brownout protection. Self powered units include an AC indicator/systems status lamp and manual test switch.

Maintenance free, sealed nickel metal hydride battery with 10 year life and an operating temperature between 14°F (-10°C) and 113°F (45°C). NiMH battery is a non-toxic, environmentally friendly product which is recyclable.

Input Power Requirements

AC Only **Emergency Operatio** Green: 2.20W Green: 3.00W

Code Compliance

UL 924 Listed, NFPA 101

Warranty

Battery: 5 yrs full, 5 yrs pro-rata

Ordering Information

LG					
Model/Series	Battery Type	No. of Faces	Letter Color	Housing Finish	Standard Features
LG = Architectural	A = AC Only	1 = Single	RC = Red on Clear ²	A = Brushed Alum.	SD2 = Self Diagnostics ³
Edge-Lit Exit	N = Nickel Cadmium	2 = Double	RW = Red on White	W = White	
			RM = Red w/ Mirrored	B = Black	
			GC = Green on Clear ²		
			GW = Green on White		
			GM = Green w/ Mirrored		

Options

Cat. No.	Description
2CKT1	120 VAC Two Circuit
2CKT2	277 VAC Two Circuit
BF	Buzzer Flasher
BZ	DC Buzzer
DC	12-48 VDC Input
EX	Special Input Transformer
FA	24 VDC Fire Alarm Interface (reg. constant DC voltage) ¹
FL	Emergency Flasher
NY8	8" Letters
SW	Special Wording/Graphics (Consult factory) ¹
T	Self Testing Non-Audible ¹
TA	Self Testing w/Audible Alarm⁵
AC	Aged Copper Housing/Trimplate
BR	Ornamental Bronze Housing/Trimplate
G	Gunmetal Housing/Trimplate
GR	Granite Housing/Trimplate
VG	Velvet Green Housing/Trimplate

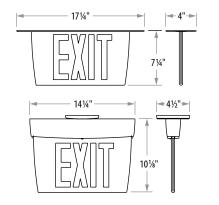
Accessories

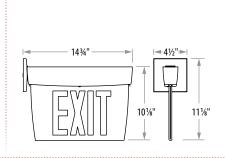
Cat. No.	Description
SDREMOTE	Infrared Test Device
PKIT12A	Pendant Kit, 12" Aluminum Finish
PKIT12BK	Pendant Kit, 12" Black Finish
PKIT12WH	Pendant Kit, 12" White Finish

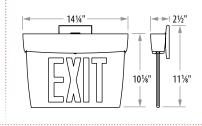
- 1. Multiple option configurations may void UL listing. Consult factory for specifics. Suitable for export.
- 2. Not available on double face signs.
- 3. Nickel Cadmium units only.

LG Series

The LG Series Edge-Lit Exit provides a slim profile combined with attractive finishing options that blend well with architectural spaces. Easy installation, universal mounting configurations and field selectable chevrons make the LG Edge-Lit both a specifier favorite and an electrical contractor favorite.







Illumination is accomplished with the use of high brightness LEDs in an optical array offering even illumination.

Housing

All housing components are premium die-cast aluminum construction. A range of finishes are available. Universal mounting allows for recessed ceiling, surface ceiling, surface end or surface wall. A bar hanger kit and trim plate is furnished as a standard feature.

Panel is manufactured from high impact acrylic and silk-screened using computer generated artwork. Universal self-stick chevrons are standard.

Electronics

120/277 VAC dual voltage input with surge-protected, LED circuitry. Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

Maintenance free, sealed nickel cadmium battery has an estimated service life of 10 years, and an operating temperature range of 32°F (0°C) to 104°F (40°C).

Input Power Requirements

ic only		Emerge	ency operation
Red:	.17A (120VAC) PF=0.96	Red:	4.70W (120 VAC), PF=0.
	3.80A (277VAC) PF = 0.91		4.81W (277 VAC), PF = 0

Green: 4.00A (120VAC) PF=0.95 Green: 4.71W (120 VAC), PF=0.95 .008A (277VAC) PF=0.90 4.67W (277 VAC), PF=0.99

Electronics: 5 years, Battery: 5 year full, 5 years pro-rata.

Code Compliance

UL 924 listed; NFPA 101; UL damp location

60 Philips Lightolier LED Lighting Catalog 61 For complete specification information visit www.Lightolier.com/SolidState

Site Lighting **ExceLine** GeoScapes/GeoMatrixx/Site Master

Site Lighting

ExceLine offers a wide range of innovative products for Retail, Commercial and Industrial Markets.

Unlike many new LED luminaires entering the market, ExceLine designs each new fixture specifically around cutting edge LED technology, combines that with quality optics to deliver the latest in energy efficiency. These products provide superior performance and essential aesthetic elements to make your project not only efficent but beautiful. ExceLine is leading the changeover to long life, low maintenance LED luminaires that outperform traditional products in every way.

ExceLine has now combined this LED technology with solar in its new solar LED system. Allowing you to install quality lighting at much less cost than traditional hard-wired systems. Solar lighting makes sense today because it is environmentally friendly, and is essential for safety and security. Now it's possible to install lighting in places never thought accessible.



Distinguished by their performance, style and quality, ExceLine luminaires provide a full range of indoor and outdoor lighting solutions for commercial, retail and industrial markets.

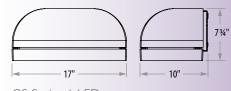
Ordering Information

GS		08	U		054	6K		
Model/Series	Shape	Driver	Voltage	Finish	LED#	Color Temp	Optics	Options
GS = GeoScapes	1 = Series 1	08	U = 120/277	B = Wrinkle Black	054	6K Board	H2 = Type II	Consult
	2 = Series 2			W = Wrinkle White			H3 = Type III	Factory
	3 = Series 3			P = Wrinkle Bronze				



GeoScapes Series



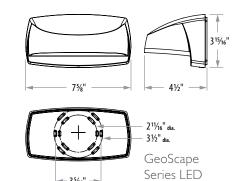


GS Series 2 LED



Ordering Information



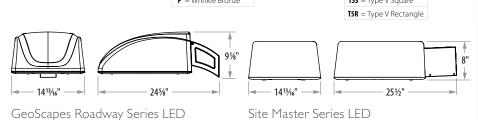


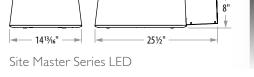


GeoScape Mini Series

Ordering Information

	80	U		054	6K		
Model/Series	Driver	Voltage	Finish	LED#	Color Temp	Optics	Options
GSR = GeoScapes	08	U = 120/277	B = Wrinkle Black	054	6K Board	V2 = Type II	Consult
SMR = Site Master			W = Wrinkle White			V3 = Type III	Factory
			P = Wrinkle Bronze			T5S = Type V Square	
						T5R = Type V Rectangle	

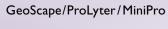






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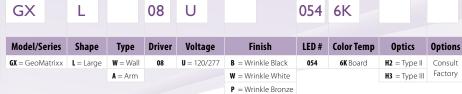
ExceLine Site Lighting

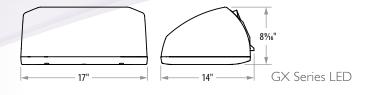


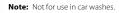


GeoMatrixx Series

Ordering Information







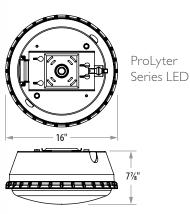
Ordering Information

	80	U		054	6K		
Model/Series	Driver	Voltage	Finish	LED#	Color Temp	Optics	Options
MPQ = MiniPro	08	U = 120/277	B = Wrinkle Black	054	6K Board	H2 = Type II	HS = Hang Straight
PGQ = ProLyter			W = Wrinkle White			T5S = Type V	(PGQ Only)
			P = Wrinkle Bronze			Square	Consult Factory
uick hanger plate fo	r J-box mou	nting included.					for other options

ProLyter Series



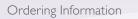
MiniPro Series



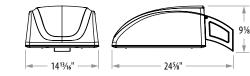
Note: Not for use in car washes.

Site Lighting **ExceLine**

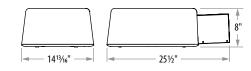
GeoScapes/Site Master







GeoScapes Roadway Series LED



Site Master Series LED

MiniPro

Series LED