

# Shine



**PHILIPS**

 **LEDALITE**



# Shine

Efficiency. Quality. Value.

A family of uniformly luminous fixtures, Shine delivers world class construction and industry leading performance for superior energy savings. Available in a wide variety of sizes and lamping options, Shine is a highly efficient and economical solution for any recessed lighting and energy challenge.

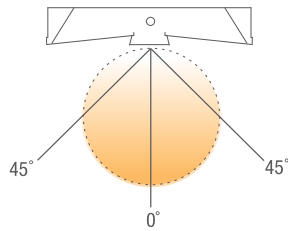
Let your project Shine...

## Shining example

Luminaire	1' x 4'
Lamp	1 x 28W T5
Efficiency	84%
Spacing	6' x 10'
Height	9'6"
Light	37.6 fc
Energy	0.55 W/ft <sup>2</sup>

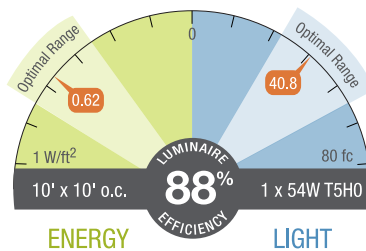


# When efficiency is everything...



**88% Efficiency**

Outstanding luminaire efficiencies make Shine an ideal solution for a wide range of applications. Applying Shine with the right combination of lamps, ballasts and fixture spacing make it perfect for offices, conference rooms, classrooms, hospitals, retail stores, and other spaces where **efficiency is everything**.



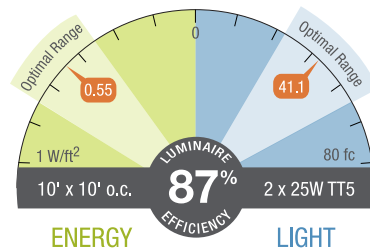
**2' x 4'**



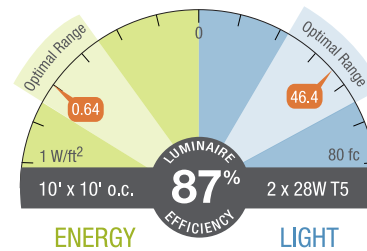
# Light + Efficiency = Energy Savings



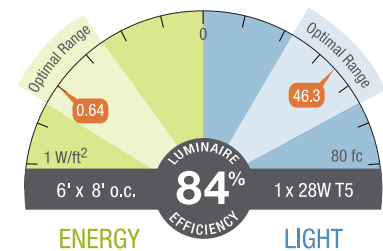
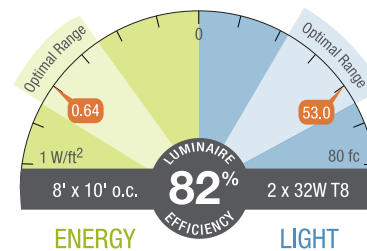
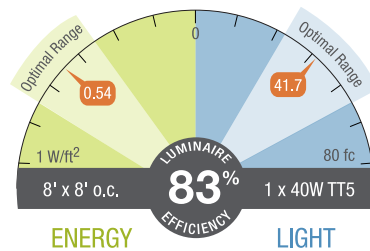
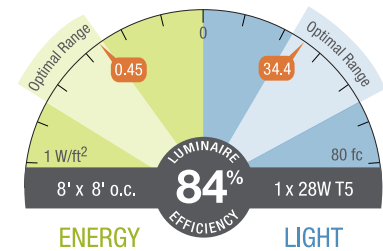
2' x 2'



2' x 4'



1' x 4'



Lighting power density and illuminance information shown on application dials are average maintained values based on predictive engineering analyses for a 900 ft² calculation grid at 2'6" AFF; centered in an open plan area measuring 60' W x 60' L x 9'6" H; with room reflectances of  $\rho^c$  80/ $\rho^w$  50/ $\rho^l$  20; and LDD of 0.95 in all cases. Changes to fixture mounting and/or workplane heights affect uniformity, but have no significant impact on energy performance or light levels.

All application results have been calculated using real luminaire photometric test data and OEM published lamp-ballast system specifications for Philips Ledalite factory standard components at the time of publication. Modifications to architectural conditions, luminaire components, and calculation parameters will yield different results.



# Light + Work = Success

Lighting plays an important role in ensuring employee productivity and performance in the workplace. Shine delivers high efficiency with a fully luminous optic, minimizing harsh shadows which contribute to fatigue and eyestrain.

Shine is ideal for open plan areas, private offices, and conference rooms where optimal light levels can be achieved with power densities that meet aggressive energy codes.

## Shining example

Luminaire	2' x 4'
Lamp	2 x 32W T8
Efficiency	82%
Spacing	8' x 10'
Height	9'6"
Light	53.0 fc
Energy	0.64 W/ft <sup>2</sup>









# Light + Learning = Leadership

When it comes to education, providing well lit surroundings with reduced operating costs is critical. Whether it is a primary school or a university lecture theater, lighting systems need to seamlessly interact with modern multimedia to enhance the learning experience for our future leaders.

Shine is a simple, cost-effective solution which illuminates environments with minimal energy consumption.

## Shining example

Luminaire	2' x 4'
Lamp	2 x 32W T8
Efficiency	82%
Spacing	10' x 12'
Height	10'6"
Light	36.2 fc
Energy	0.46 W/ft <sup>2</sup>



# Light + Flexibility = Sensible

Shine is available in a wide range of fixture sizes and can be configured with a variety of energy efficient ballasts and light sources, including: T8, T5/T5HO, and the popular TT5 compact fluorescent lamp.

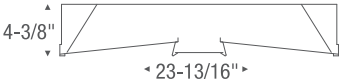
## Shining example

Luminaire	2' x 4'
Lamp	3 x 28W T5
Efficiency	83%
Spacing	Single
Height	10'0"
Light	39.5 fc
Energy	0.81 W/ft <sup>2</sup>

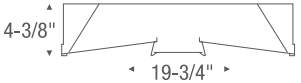
20" x 4' shown with perforated filler panels

# Configurations

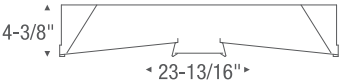
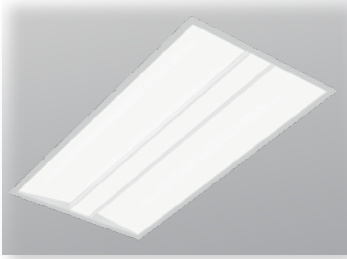
2' x 2'



20" x 2'



2' x 4'

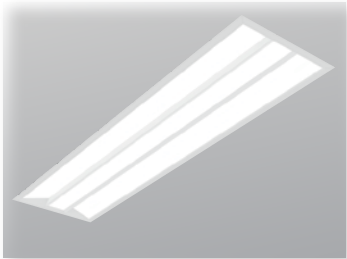


20" x 4'



Shown with optional solid filler panels.

1' x 4'



20" x 4'



Shown with optional perforated/air return filler panels.



# Light + Health = Well being

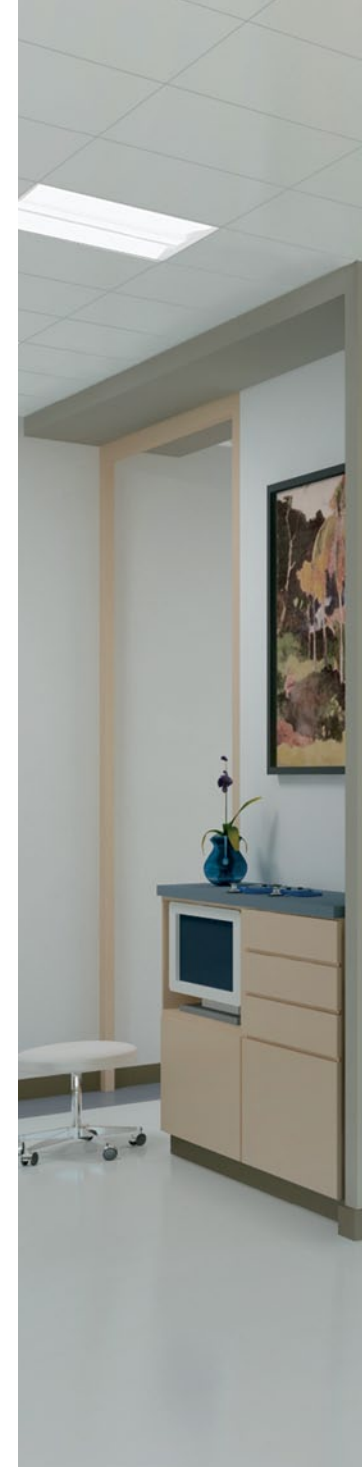
Quality lighting makes people feel comfortable and happy. Designing functional healthcare environments where people are the priority takes careful planning.

Shine's refined aesthetic creates luminous environments for patients and medical professionals, while energy efficiency and quality construction ensure easy maintenance and reduced facility operating costs.



## Shining example

Luminaire	2' x 2'
Lamp	2 x 25W TT5
Efficiency	87%
Spacing	8' x 8'
Height	9'0"
Light	54.4 fc
Energy	0.86 W/ft <sup>2</sup>





NEUROLOGY  
Floor 8

PATIENT INFORMATION

Waiting Room



# Imagine a world without wires...

## Airwave... Wireless. Batteryless. Limitless.

Airwave wireless controls represent a giant leap forward in flexibility and sustainability. Using organic sources of renewable kinetic and solar energy, Airwave delivers wireless individual personal control, daylight harvesting, occupancy sensing, and full range dimming for spaces where the ability to control energy and lighting are essential.

The simple flick of a batteryless, wireless switch creates enough kinetic energy for simple ON/OFF control or dimming. Similarly, solar powered Airwave photosensors monitor ambient daylight levels and wirelessly signal luminaires to reduce output and save energy.

Sensors energized by the light they collect.

Switches powered by the motion used to operate them.



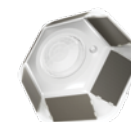
Kinetically powered wireless switch/dimmer



Kinetically powered handheld wireless switch/dimmer



Solar powered wireless photosensor



Solar powered wireless occupancy sensor



Integrates with wired occupancy sensors

Airwave contributes to LEED® certification, decreases construction and operational expenses, and lessens environmental impact by eliminating batteries and dramatically reducing copper wiring infrastructure. Airwave is an affordable, dynamic and eco-sensitive solution that delivers maximum design flexibility and energy savings to meet the needs of people and their environment.

[www.ledalite.com/airwave](http://www.ledalite.com/airwave)



# Light + Environment = Sustainability



## Sustainable Technology & Energy Practices

Ledalite's ecoSTEP initiative highlights innovative lighting solutions and advanced technologies, such as the new Philips Energy Advantage 25W lamp, that provides significant energy savings and reduced environmental impact.

[www.ledalite.com/ecostep](http://www.ledalite.com/ecostep)



Making responsible LEED® choices is easy.

Lighting systems play an important role in achieving LEED® certification and qualifying for government and utility incentives. Ledalite's energy efficient solutions can significantly reduce power densities and earn up to 5 LEED points.

[www.ledalite.com/leed](http://www.ledalite.com/leed)





# Light + Experience = Lifestyle

Hospitality and retail businesses appreciate the importance of lighting to attract customers and create vibrant environments where people are comfortable and energized.

Shine's affordable, high quality and energy efficient options help people feel at ease in a luminous space, while reducing the environmental footprint and operating costs.



## Shining example

Luminaire	2' x 2'
Lamp	1 x 25W TT5
Efficiency	85%
Spacing	4' x 10'
Height	10'0"
Light	54.4 fc
Energy	0.80 W/ft <sup>2</sup>





**RESPONSE**  
Daylight Harvesting



No wiring.  
No commissioning.  
35% energy savings.



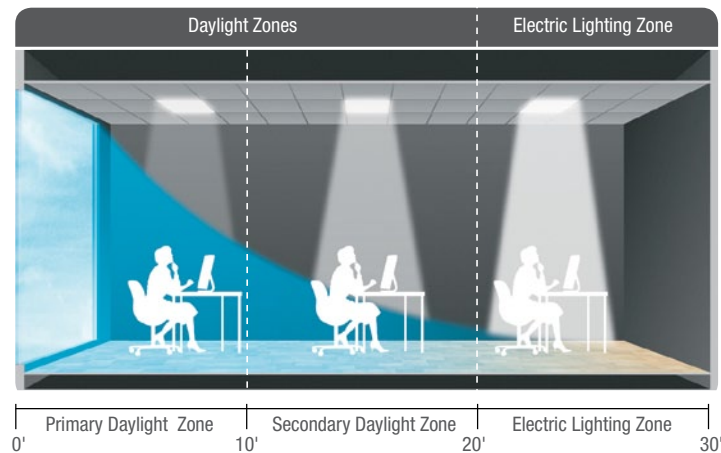


# Light + Response = Simplicity

Shine is available with Philips Ledalite's Response Daylight sensors. These fully integrated sensors can provide 30-35% energy savings in window adjacent locations—helping to reduce operating expenses and comply with new energy codes.

Response Daylight sensors are factory pre-calibrated and ready to use right out of the box. Just plug in the fixture—no power packs, standalone sensors or low-voltage wiring schemes required. The sensors adjust light output gradually with minimal distraction for occupants. A built-in delay prevents disruptions from passing clouds and occasional shadows.

[www.ledalite.com/response](http://www.ledalite.com/response)



In this example, two control zones have been created where there is adequate daylight contribution, and one uncontrolled zone where daylight is minimal. As daylight contribution increases, sensors can automatically and gradually reduce electric light output to save energy.



# Light + Options = Speed



**Less time**

## 10-Day QuickShip

To request the most popular Shine configurations shipped in just 10 working days, simply add the prefix “QS” to the catalog number.

[www.ledalite.com/quickship](http://www.ledalite.com/quickship)



**Less labor**

## Flex whips installed

Optional 6-foot armored cable flex whips come factory pre-installed to reduce installation time and minimize labor.



**Less work**

## Lamps installed

All Shine configurations are optionally available with lamps factory installed and tested to speed project completion.



**Less waste**

## Job pack

Standard shrink-wrapped and palletized job packs save time, reduce packaging waste and lessen environmental impact.





## Maintenance made easy.



**1**

Push lens upwards.



**2**

Slide lens to the opposite side.



**3**

Replace lamp and slide lens back into place.

# Let it Shine...

## Order guide

### SHINE (33)

Product Size	Version	Configuration	Lamping	Housing	Wiring	Voltage	Ballast
<b>3324</b> Shine 2' x 4'	<b>D1</b> Standard	<b>ST</b> Standalone	<b>2' x 4' and 20" x 4'</b>	<b>S</b> Standard (22ga.)	<b>1</b> 1cct	<b>1</b> 120V	<b>E</b> Electronic
<b>3322</b> Shine 2' x 2'	<b>A1</b> Air Return	<b>CR</b> Continuous Row	<b>F228</b> 2 T5 (28W)	<b>F328</b> 3 T5 (28W)	<b>2</b> 2cct	<b>2</b> 277V	
<b>3314</b> Shine 1' x 4'		<b>SMS</b> Standalone Master/Satellite	<b>T232</b> 2 T8 (32W)	<b>T332</b> 3 T8 (32W)	<b>5</b> 1cct w/ Batt. Pack	<b>3</b> 347V	
<b>3352</b> Shine 20" x 2'		<b>CMS</b> Continuous Row Master/Satellite	<b>H154</b> 1 T5HO (54W)	<b>H254</b> 2 T5HO (54W)	<b>7</b> 1cct Dimming		
<b>3354</b> Shine 20" x 4'			<b>H354</b> 3 T5HO (54W)	<b>C</b> Chicago			
			<b>2' x 2' and 20" x 2'</b>				
			<b>B125</b> 1 TT5 (25W)	<b>B225</b> 2 TT5 (25W)			
			<b>B140</b> 1 TT5 (40W)	<b>B240</b> 2 TT5 (40W)			
			<b>B155</b> 1 TT5 (55W)	<b>B255</b> 2 TT5 (55W)			
			<b>F214</b> 2 T5 (14W)	<b>F314</b> 3 T5 (14W)			
			<b>T217</b> 2 T8 (17W)	<b>T317</b> 3 T8 (17W)			
			<b>H224</b> 2 T5HO (24W)	<b>H324</b> 3 T5HO (24W)			
			<b>1' x 4'</b>				
			<b>F128</b> 1 T5 (28W)	<b>F228</b> 2 T5 (28W)			
			<b>T132</b> 1 T8 (32W)	<b>T232</b> 2 T8 (32W)			
			<b>H154</b> 1 T5HO (54W)	<b>H254</b> 2 T5HO (54W)			

#### Notes:

Optional filler panels are only available for 20" x 4' products and are ordered separately and field installed. Consult factory or website for full list of product configurations, wiring options, and supported ballasts.

# Specifications

## Housing

Die formed, post painted, 22 gauge cold rolled steel (New York City version is 20 gauge). Wire entrances are positioned on the side of the housing to allow easy wiring access for the installer. Multiple wire entrances are available on top or side to allow continuous row mounting of fixtures. Routine lamp and ballast maintenance can be performed from below the ceiling without tools. No hardware is visible.

## Optical System

Optical system consists of highly reflective painted interior reflectors and flat acrylic lenses with up to 95% transmittance.

## Mounting

Compatible with most 9/16" and 15/16" standard flat and slot T-grid ceiling systems. Fixtures in a slot T-grid system will be slightly regressed above the T-bar. Integrated tabs are provided for different T-grid heights. Optional drywall kit is available for non-accessible ceilings.

## Ballast

Electronic ballasts supplied with pre-installed ballast disconnects as per national electric codes.

## Wiring

Fixtures are factory pre-wired and tested for all circuits and emergency battery packs; all leads pulled to a side access with cover plate. Optional armored cable flex-whips are supplied in 6' lengths. Armored cable flex-connectors are supplied in 9' lengths for master/satellite configurations.

## Air Return

Optional air return side rails (finished in black) are available in 2' x 2' and 2' x 4' sizes. For 20" x 4' products, optional perforated air return panels (finished in white) are ordered separately and field installed.

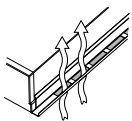
## Approvals

Certified to UL & CSA Standards. City of Chicago Approved CCEA (Housing Option C). NYC code requirements (Housing Option N). Options C and N not available for all configurations.

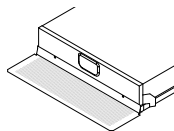
## Finish

High quality, post painted powder coat, high gloss white.

## Air Return

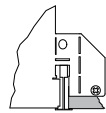


2' x 2' / 2' x 4' Air Return

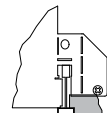


20" x 4' Air Return

## Mounting



Flat T-Grid



Slot T-Grid





Philips Ledalite  
19750-92A Avenue  
Langley, BC, Canada V1M 3B2  
Tel: 604.888.6811  
[ledalite.com](http://ledalite.com)

All application performance results have been calculated using real luminaire photometric test data and OEM published lamp-ballast system specifications for Philips Ledalite factory standard components at the time of publication. Illuminance information as published are average maintained footcandle values based on predictive analyses with calculation grids centered in the respective rooms. Changes to luminaire mounting and/or workplane heights affect uniformity but have no significant impact on energy performance or light levels. Modifications to architectural conditions, luminaire components, and calculation parameters will yield different results. For further information or custom analysis for your project, please contact the Philips Ledalite Applications Engineering Department.

EnOcean®, alliance logo, alliance member logo and ingredient logo are registered trademarks of EnOcean GmbH and EnOcean Alliance Inc. © EnOcean Alliance Inc., 2011.

'LEED' and related logo is a trademark owned by the U.S. Green Building Council and is used by permission. The 'LEED Certification Mark' is a registered trademark owned by the U.S. Green Building Council and is used by permission.

All rights reserved. All other product or service names are the property of their respective owners. Due to continuing product improvements, Philips Ledalite reserves the right to change specifications without notice. ©2011 Philips Group. L0346-02.11



Luminaires use fluorescent lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org).