

All application performance results have been calculated using real luminaire photometric test data and OEM published system specifications for 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 Ledalite Applications Engineering Department. All other product or service names are the property of their respective owners. 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.



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Specifications are subject to change without notice.
www.philips.com/luminaires

PLe-1401BR 02/14

Philips Lighting
North America Corporation
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

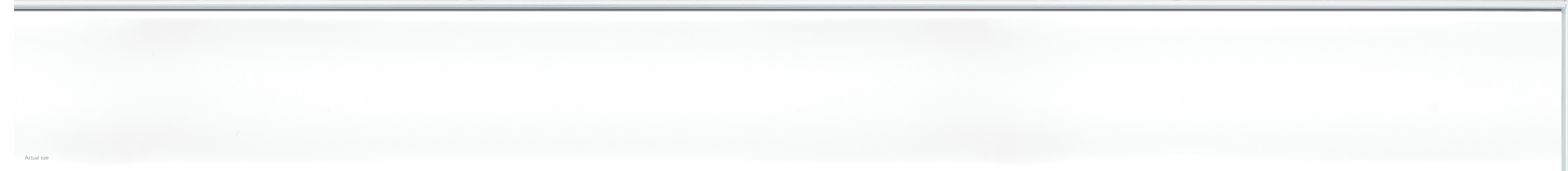
Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008

TruGroove

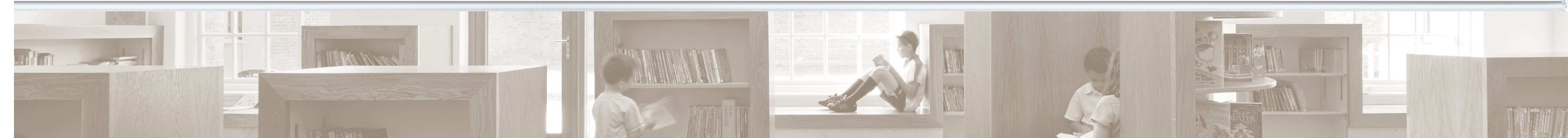
Linear Recessed Luminaire

Transforming light into an element of design

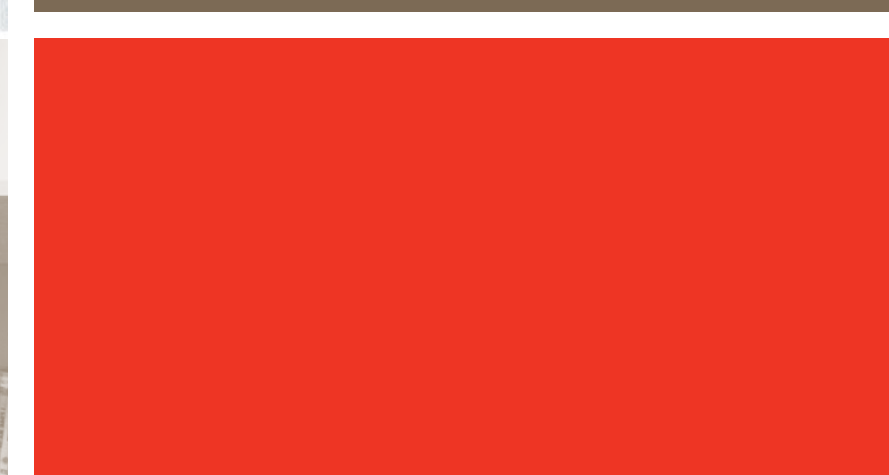




Actual size



Great design does not lower expectations to meet performance. It raises performance to meet expectations.



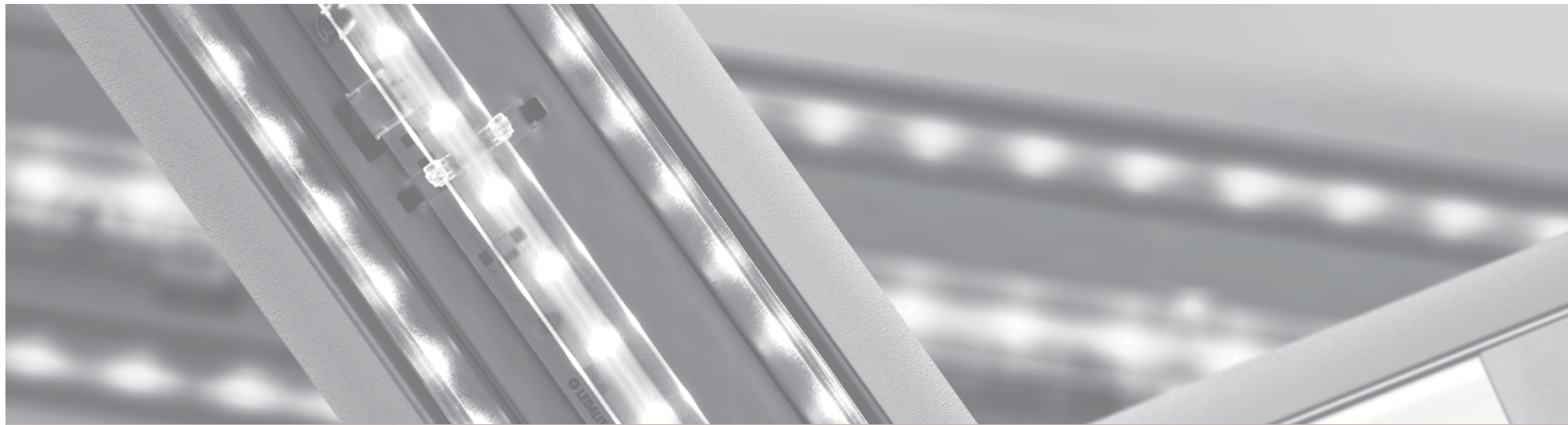


*A luminous ribbon of light,
no longer confined to the ceiling.*



The Epitome of Simple Sophistication

TruGroove delivers unrivaled performance and a truly innovative design – making a definitive statement in any architectural space. The latest addition of TruGroove corners provides endless opportunities for creative freedom with geometric patterns in walls and ceilings.



Create high performance spaces with a touch of artistic flare

TruGroove offers the best possible combination of lighting control and brightness to create a balanced luminous environment, with smooth, even gradients of light throughout the space.

TruGroove Performance vs. TruGroove Definition What's the Difference?

TruGroove Performance

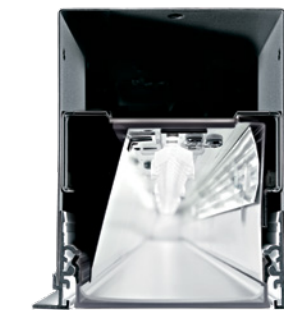
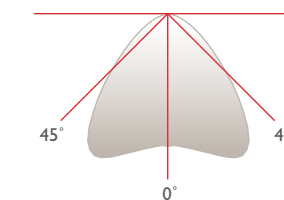
Technology	MesoOptics w/bi-convex lens & Miro-Silver® reflectors
Photometric curve	Batwing distribution for wide row spacing
Distribution	Symmetric & Asymmetric
Efficacy	71-82 lm/W
Lens	Translucent MesoOptics lens
RP1	VDT normal: Hi and Mid lumen & VDT intensive: Low lumen
Applications	Open office general area, private office, corridors, grocery aisles, library stacks.
Price	\$\$\$

TruGroove Definition

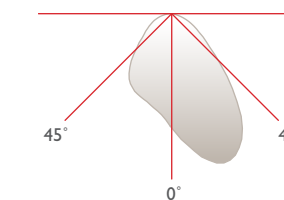
Technology	Miro-Silver® reflectors only
Photometric curve	Lambertian distribution
Distribution	Symmetric
Efficacy	70-81 lm/W
Lens	Diffuse white Silk lens
RP1	VDT intensive: Low lumen
Applications	Decorative areas, wayfinding, high ceilings, retail/hospitality general area.
Price	\$\$



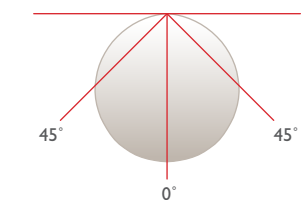
Symmetric distribution



Asymmetric distribution



Symmetric distribution*



* TruGroove Definition is available in symmetric distributions only.



Multiple design options deliver clean, understated style in any architectural environment.

Endless Design Freedom NEW

Transition to/from any corner type



Flat corner



Inside corner

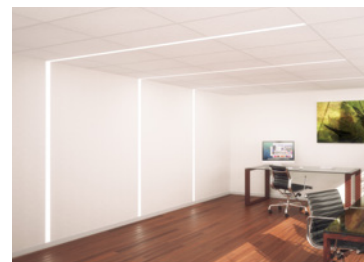


Outside corner

Transition to/from any ceiling type



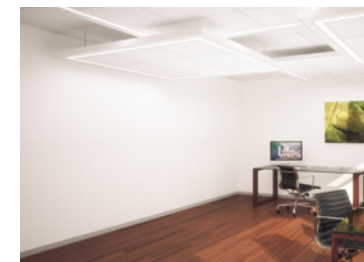
Wall to drywall ceiling



Wall to T-grid ceiling



Wall to wood ceiling



Armstrong Techzone™ ceiling

Trim and Lens options

TruGroove luminaires are available in multiple design options to deliver clean, understated style in any architectural environment.

New! Silk Lens

TruGroove Definition is offered with the lustrous 'silk lens' in LED configurations – perfect for highlighting key areas and creating visual interest in environments such as hotel and office lobbies, retail spaces, and lounge areas.



Type: MesoOptics & Silk Lens
Lens: Flush & Regressed
Trim: Trimless



Type: MesoOptics & Silk Lens
Lens: Flush & Regressed
Trim: Drywall trim



Type: MesoOptics & Silk Lens
Lens: Flush & Regressed
Trim: T-grid Trim

Length options

Available in a variety of standalone modules, or a virtually infinite range of continuous lengths.



LED/1x T5/T5HO
Specifiable up to 1/8 inch increments

2x T5/T5HO
Specifiable in 12 inch increments

Note: Total fixture length varies by trim option. Consult specification sheet for full dimension details.



Precisely controlled symmetric and asymmetric distributions create luminous continuity.





APPLICATIONS

*Great design is a calculated and
balanced blend of form and function.*

A new paradigm in workplace lighting design

	1x28W T5	LED 2200lm*
Light Level	38 fc	36 fc
Energy Density	0.69 W/ft ²	0.64 W/ft ²
Luminaire Efficacy	71 lm/W	80 lm/W
Workplane Uniformity	2.1 : 1	2.4 : 1

Room: 48' L x 30' W x 12' H with Row Spacing: 12' o.c.
Based on 3500K TruGroove Performance option.
* Nominal value/4ft luminaire

Superior performance makes narrow aperture recessed lighting a reality for office applications.





A high performance statement

	1x28W T5	LED 1500lm*
Light Level	65 fc	42 fc
Energy Density	1.26 W/ft ²	0.78 W/ft ²
Luminaire Efficacy	71 lm/W	82 lm/W
Workplane Uniformity	2.4:1	2.4:1

Room: 30' L x 16' W x 9'6" H with Row Spacing: 6' o.c.
 Based on 3500K TruGroove Performance option.
 * Nominal value/4ft luminaire

TruGroove allows lighting designers to deliver aesthetic impact with ideal light levels, at energy densities well below industry guidelines.

Elevating the ordinary to the extraordinary

	1x28 W T5	LED 2200lm*
Light Level	41 fc	39 fc
Energy Density	0.76 W/ft ²	0.69 W/ft ²
Luminaire Efficacy	71 lm/W	80lm/W
Workplane Uniformity	4.3:1	3.6:1

Room: 29'L x 22'W x 14'H with Row Spacing: 6' o.c.
Based on 3500K TruGroove Performance option.
*Nominal value/4ft luminaire

When lighting design demands
a statement, TruGroove delivers
both aesthetics and performance.





Best in class

	1x28 W T5	LED 2200lm*
Light Level	45 fc	43 fc
Energy Density	0.75 W/ft ²	0.69 W/ft ²
Luminaire Efficacy	71 lm/W	80lm/W
Workplane Uniformity	2.2:1	1.9:1

Room: 28' L x 26' W x 8'6" H with Row Spacing: 10' o.c.
 Based on 3500K TruGroove Performance option.
 * Nominal value/4ft luminaire

Excellent lighting distribution and outstanding energy performance make TruGroove a viable option for projects where cost and energy efficiency are everything.

Works as great as it looks

	1x28W T5	LED 2200lm*
Light Level	37 fc	33 fc
Energy Density	0.64 W/ft ²	0.59 W/ft ²
Luminaire Efficacy	71 lm/W	80 lm/W

Room: 36' L x 17' W x 8'6" H with Row Spacing: N/A o.c.

Based on 3500K TruGroove Performance option.

* Nominal value/4ft luminaire

Sophisticated style, exceptional color rendering and reduced energy consumption, makes TruGroove a natural fit for applications where color, ambience and structure are important.





Leading Illumination

	1x28 W T5	LED 1500lm*
Light Level	33 fc	22 fc
Energy Density	1.42 W/ft ²	0.87 W/ft ²
Luminaire Efficacy	71 lm/W	82lm/W
Workplane Uniformity	3.8:1	3.9:1

Room: 58' L x 7' W x 12' H with Row Spacing: 5' o.c.
 Based on 3500K TruGroove Performance option.
 * Nominal value/4ft luminaire

With its exceptional efficacies and pure, consistent luminance – TruGroove is ideal for creating a sense of structure and direction.



*High performance spaces
with powerful aesthetic impact.*

Application Guide

TruGroove Performance with MesoOptics Lens

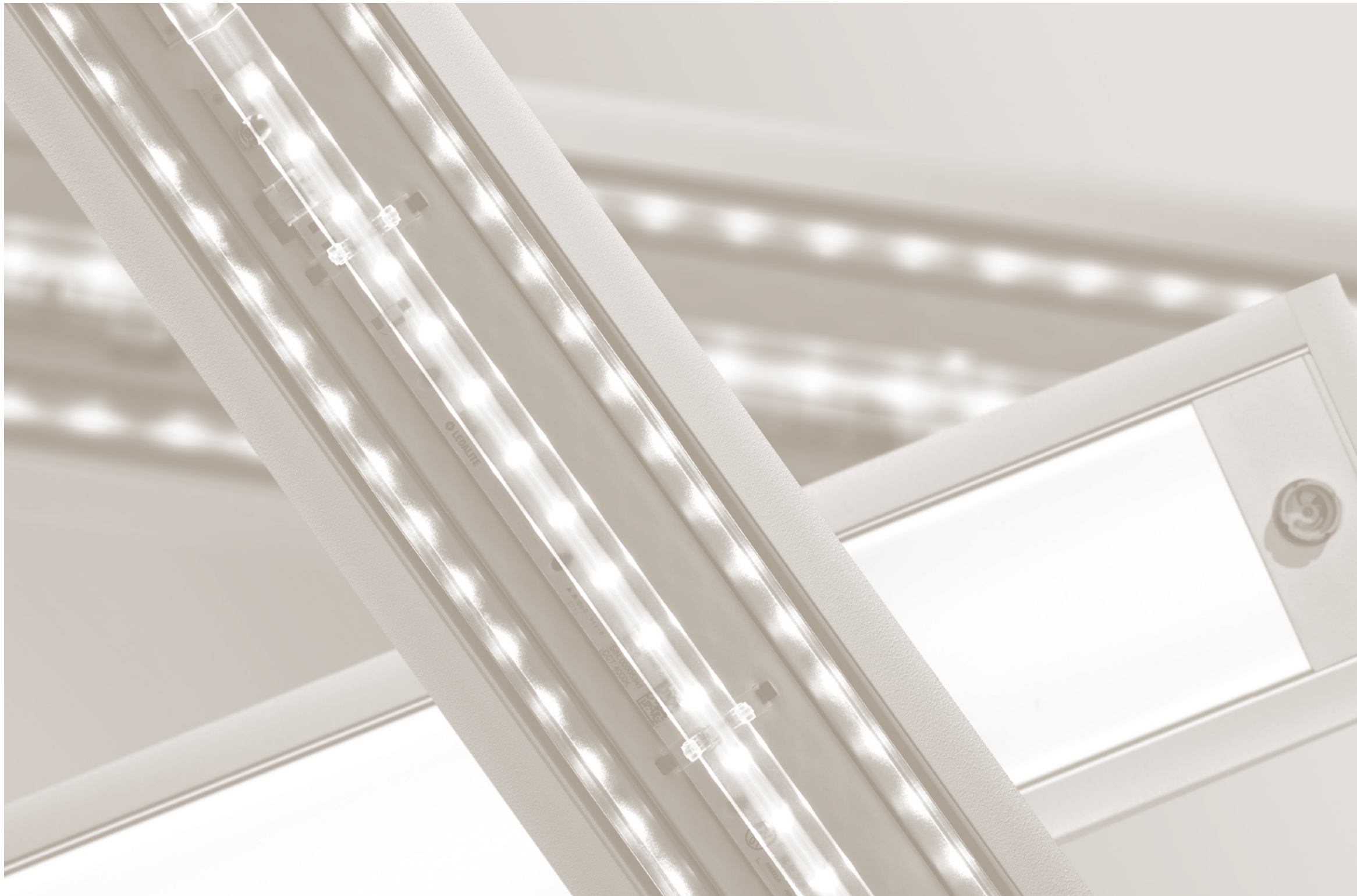
Based on a 60'W x 60'L x 9'H; with room reflectances of 80/50/20 and 0.85 LLF.

4000K	3000lm at 73lm/W		2200lm at 78lm/W		1500lm at 81lm/W	
Spacing criterion	16' o.c.	12' o.c.	12' o.c.	8' o.c.	12' o.c.	8' o.c.
Average footcandles	41.2	51.6	37.1	57.9	25.7	39.9
Workplane uniformity	3.7:1	3.1:1	3.2:1	2.5:1	3.1:1	2.6:1
Energy Density (w/ft ²)	0.65	0.81	0.54	0.87	0.36	0.58

3500K	3000lm at 74lm/W		2200lm at 80lm/W		1500lm at 82lm/W	
Spacing criterion	16' o.c.	12' o.c.	12' o.c.	8' o.c.	12' o.c.	8' o.c.
Average footcandles	41.5	52.1	37.5	58.3	25.9	40.2
Workplane uniformity	3.8:1	3.2:1	3.2:1	2.6:1	3.1:1	2.5:1
Energy Density (w/ft ²)	0.64	0.81	0.54	0.86	0.36	0.58

3000K	3000lm at 71lm/W		2200lm at 76lm/W		1500lm at 78lm/W	
Spacing criterion	16' o.c.	12' o.c.	12' o.c.	8' o.c.	12' o.c.	8' o.c.
Average footcandles	39.8	50.0	36.1	56.3	25.0	39.0
Workplane uniformity	3.6:1	3.2:1	3.1:1	2.5:1	3.3:1	2.6:1
Energy Density (w/ft ²)	0.65	0.81	0.54	0.87	0.37	0.59





TECHNOLOGY

*True innovation makes a difference
in how people live and work.*

Exceptional Control and Efficiency

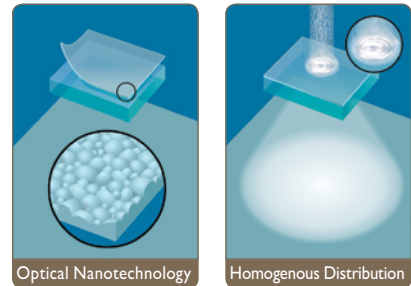
MesoOptics technology provides the best possible combination of control and luminance. Higher transmission efficiencies than traditional optical and control methods, means lower energy consumption. Small amounts of controlled brightness are introduced to the vertical surfaces, creating a brighter and more visually comfortable environment without unwanted glare.

ledalite.com/mesooptics



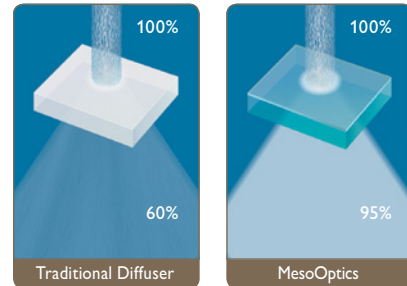
Purify

MesoOptics homogenizes color, and removes striations and hot spots from lighting sources, creating smooth gradients of pure, white light free from color shifts.



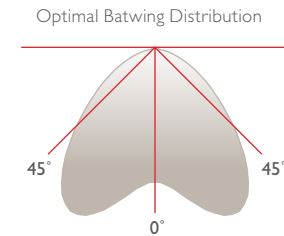
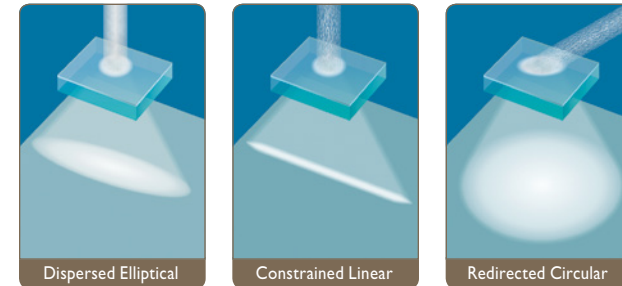
Sustain

MesoOptics' highly efficient material allows up to 95% of the light to pass through, creating highly energy efficient lighting products.



Control

MesoOptics disperses light uniformly and creates precisely controlled beam patterns to redirect light into optimum angles.



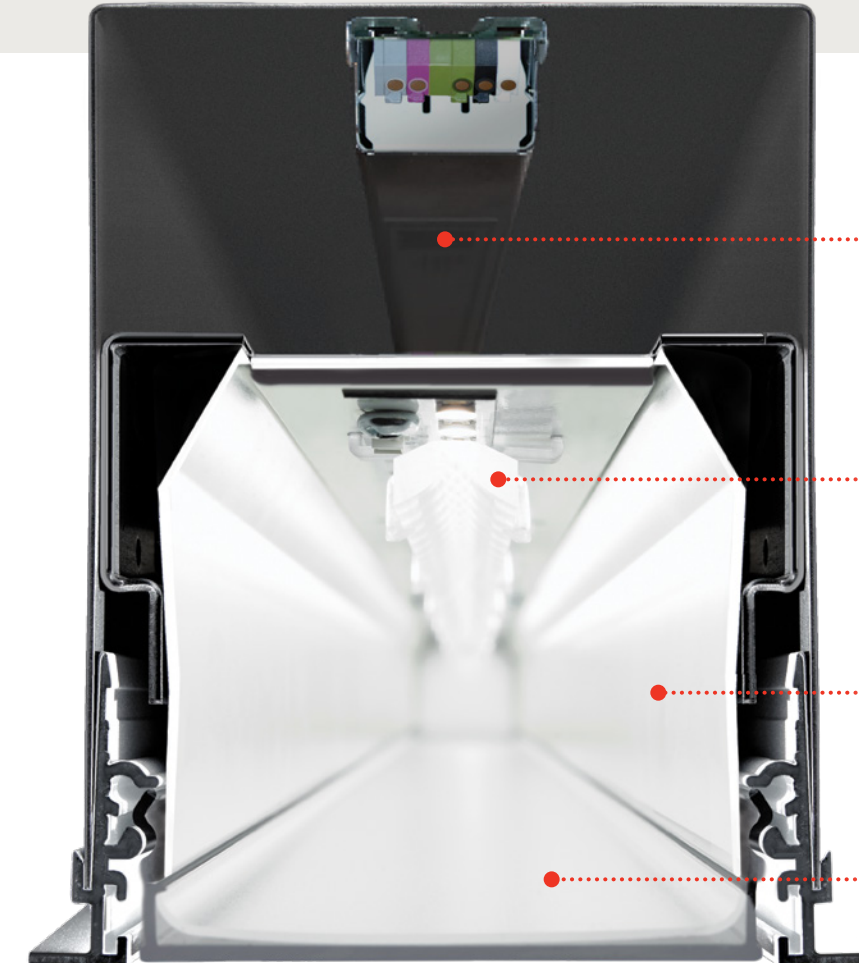
How it Works

Philips Ledalite's revolutionary MesoOptics is produced in a manner similar to the holographic microstructures that appear on most credit cards. Using patented processes, lighting distributions less than 5 microns in size are applied to a recyclable substrate, creating a highly efficient and unique lighting control approach.

Always Moving Forward

As a leader in research, design and development, Philips Ledalite is continually advancing its LED solutions to ensure the best performance.

Visit ledalite.com/trugroove for the most up-to-date LED application data.



A highly efficient 0-10V dimmable driver delivers constant current to thermally managed high-power LEDs.

White light emitted from the linear LED array, passes through a biconvex lens where it is internally reflected and laterally refocused.

Light is redirected by 98% efficient Miro Silver reflectors and then mixes inside the optical cavity.

Light passes through MesoOptics holographic film and emerges from the translucent lens in a precisely controlled batwing distribution.

A Partner You Can Trust ...

Today's rapid state of technology transformation demands an innovation partner you can trust. Philips Ledalite is a partner of the U.S. Department of Energy's Lighting Facts Program. As a part of this program, TruGroove LED configurations are independently tested to IES LM-79 industry standards to validate their performance. The Lighting Facts label provides key product performance data to ensure LED products perform as expected.



Futureproof. Period.

TruGroove solutions are field upgradable to stay current with the latest advancements in solid state lighting technology. TruGroove LED is designed with a simple plug and play platform so that field replacement and maintenance are quick and hassle-free. As a partner with the world's leading LED component suppliers, Philips Ledalite provides high quality, top performing products, and a commitment to ongoing research and development.



Maintenance Made Easy



1. Insert a flat, smooth edged object (such as a dime) between the lens & housing frame. Twist at an angle to release pressure, and remove the lens. | 2. Unscrew the entire LED assembly from the housing. | 3. Remove the LED assembly. | 4. Disconnect the LED quick-wire plugs. | 5. If required, unscrew the LED driver. | 6. Remove the LED driver and replace.



5 Year Total System Warranty

TruGroove LED comes with a 5 year total system warranty, that covers the entire luminaire –including the LED board, driver and all fixture components – with world class support backed by Philips Ledalite.



Wireless. Batteryless. Limitless.

Airwave wireless controls represent a quantum 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. Solar powered Airwave sensors monitor ambient daylight levels or occupancy and wirelessly signal luminaires to adjust output and help save energy.








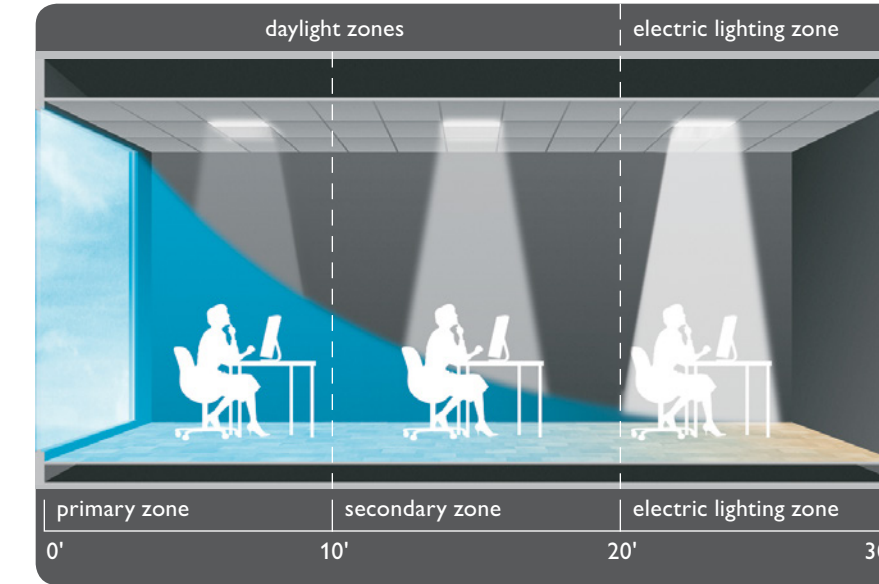
Integrated Daylight Sensor

TruGroove is available with Philips Ledalite 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.

ledalite.com/response

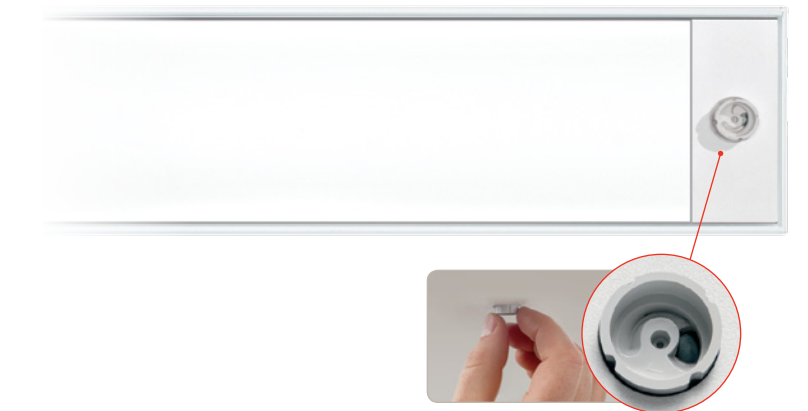


-  Intelligent transceiver (above ceiling)
-  Occupancy sensor
-  Solar powered photosensor
-  Kinetic energy switch
-  Kinetic handheld remote



How it works

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 help save energy.



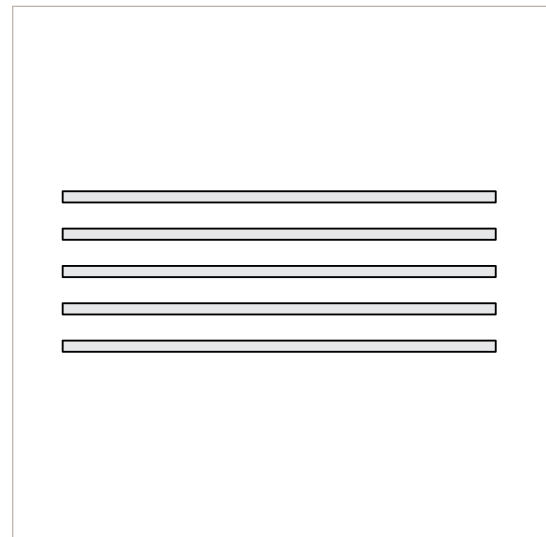


PRODUCT OPTIONS

*Design is in the details.
Flexibility is in the result.*

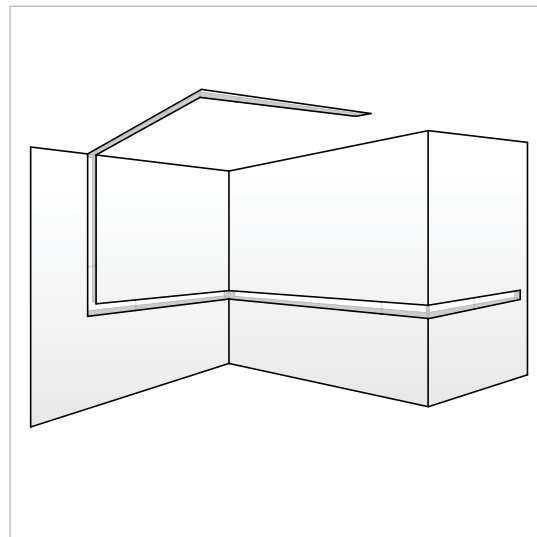
Configuration Options

TruGroove is available in an infinite range of continuous runs, any patterns, and standalone modules. These can be installed in the ceiling, in the walls or across surfaces to create free form shapes and designs.



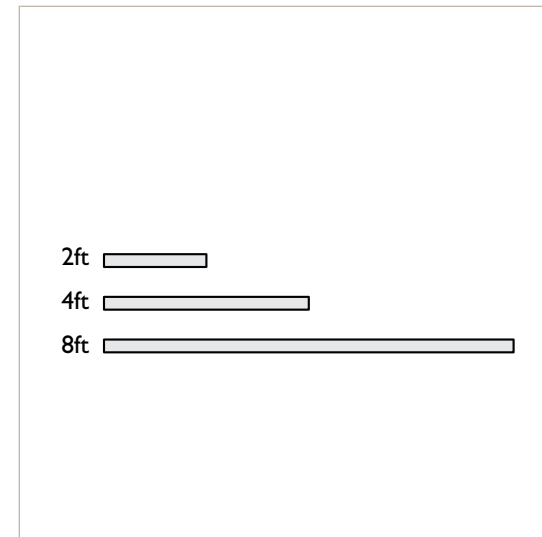
Continuous

Create an uninterrupted ribbon of light with continuous runs, specifiable up to 1/8".



Pattern

Transition from wall to ceiling seamlessly and create any pattern imaginable with 90° corners.



Standalone

Keep it simple with standalone modules. Available in 2, 4, and 8ft lengths.



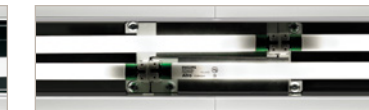
Luminance

A seamless design that offers the freedom to specify infinite lengths for pure, continuous lines of uninterrupted luminance – free of socket shadows, hot spots and glare.



Single lamp

Standard optimum overlap



Two lamp

Standard optimum overlap



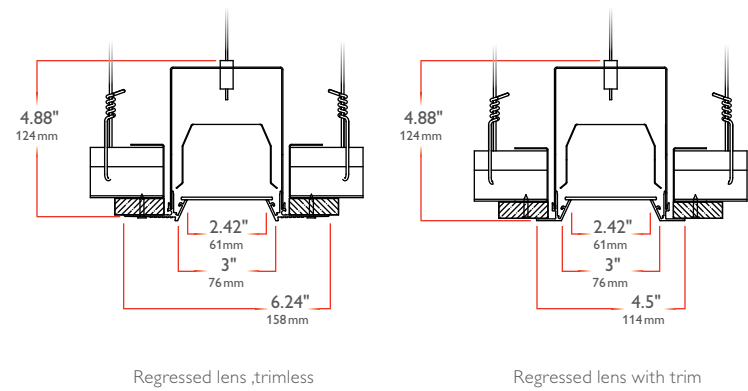
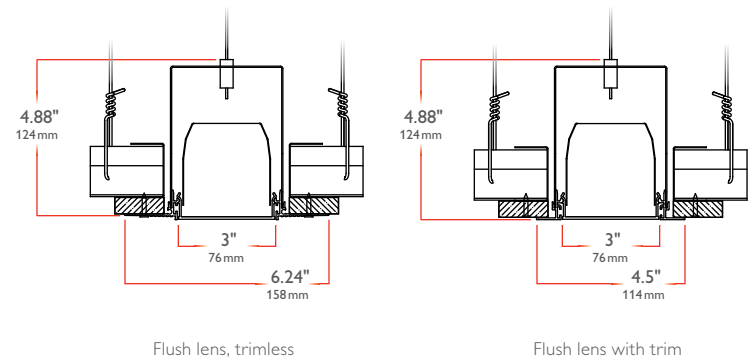
LED

Standard optimum alignment

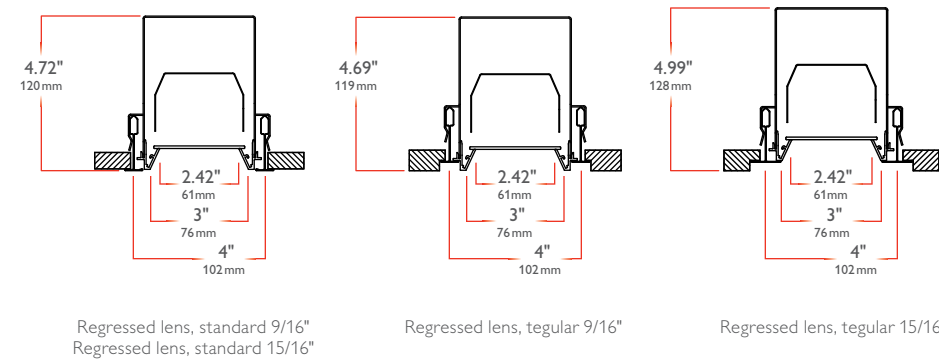
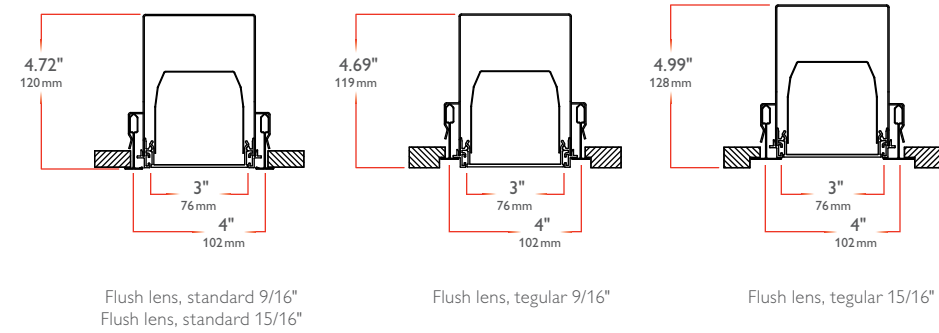
Mounting Options

TruGroove Performance & Definition luminaires are available in flush or regressed lens versions, and are designed to integrate seamlessly with any drywall or T-grid ceilings.

Drywall



T-grid*



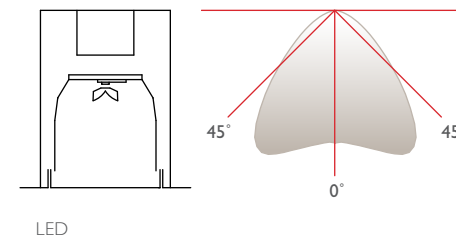
* Compatible with TechZone™ 4" Ceiling Grid

Distribution Options

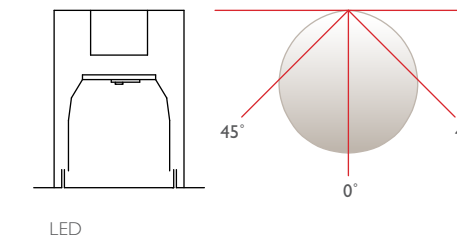
With symmetric and asymmetric distribution options, TruGroove directs light exactly where you need it.

LED

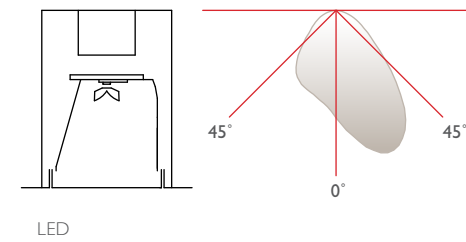
Performance Symmetric



Definition Symmetric

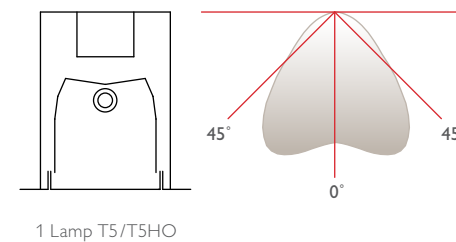


Performance Asymmetric

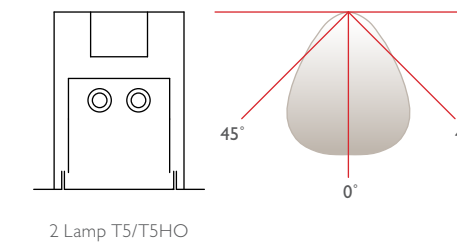


Fluorescent

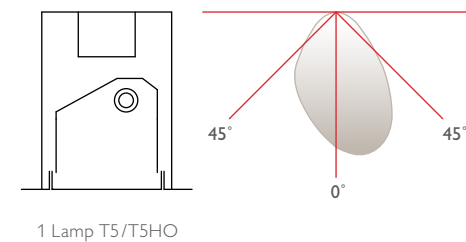
1 Lamp Symmetric



2 Lamp Symmetric

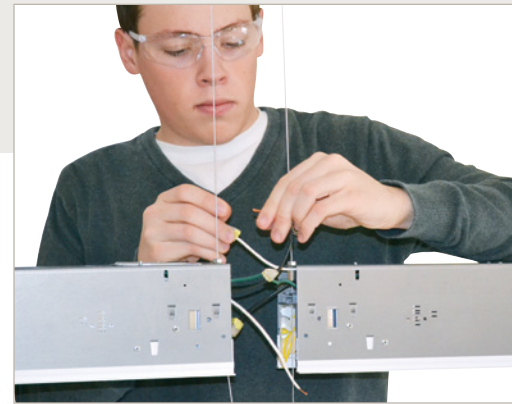
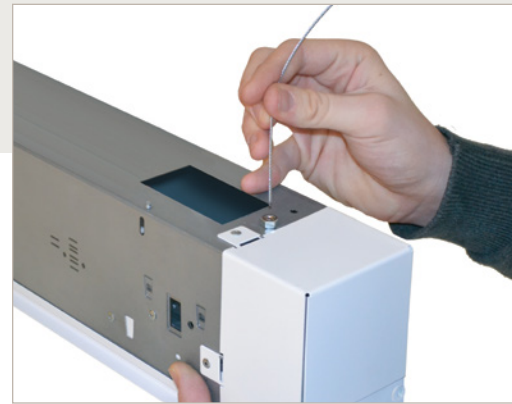


1 Lamp Asymmetric



A Cinch to Install

TruGroove's uniquely contractor-friendly design makes installation and maintenance as quick and easy as 1,2,3.



Use a flat, smooth-edged object (eg. dime).



1

TruGroove's unique "cable-cinch" installation procedure, allows fixtures to be joined below the drywall ceiling.

2

Factory pre-installed quick-connects enable quick and hassle free wiring, before raising the fixtures into the drywall ceiling.

3

A snap-in lens allows for simple re-lamping, LED upgrades and easy access to the ballast or driver from below.



Specification Guide

TruGroove Performance and Definition

Product Version		Distribution	Light Source			Optics	Body			Electrical		
Series	Version	Performance	Source	Lamps		Performance	Housing	Ceiling / Trim	Run Length / Size	Wiring	Voltage	Ballast / Driver
39 TruGroove Recessed	S Standalone	1 Symmetric 8 Asymmetric	F T5	10 1 lamp		MesoOptics Lens Q Flush R Regressed	S Standard C Chicago	1 T-grid 3 Drywall Trimless 4 Drywall Trim	(specified length)	1 1 cct 2 2 cct 3 1 cct w/emergency 5 1 cct w/battery pack 7 1 cct w/dimming	1 120V 2 277V 3 347V	E Standard
	C Continuous Linear		H T5HO	20 2 lamp								
	A Pattern with 90° Flat Corner*		Source	Color Temp	Lumen Package							
	G Pattern with Inside Corner*		L LED	A 4000K B 3500K C 3000K	E 3000lm / 4ft. G 2200lm / 4ft. K 1500lm / 4ft.							
K Pattern with Outside Corner*	Definition	Source	Color Temp	Lumen Package	Definition							
	0 Symmetric		L LED	A 4000K B 3500K C 3000K	E 3000lm / 4ft. G 2200lm / 4ft. K 1500lm / 4ft.	Silk Lens L Flush M Regressed						

* For versions A,G, and K (patterns), please provide detailed sketch highlighting number and type of corner(s). Some options may not be available for each configuration. Consult factory for details.