

TECH LIGHTING®

Unilume LED Lighting Systems



Redefining Undercabinet, Task & Cove Lighting

Undercabinet, task and cove lighting were some of the first applications to go LED. Since that time, there has been little innovation. Many LED products were designed around traditional hardware and discrete white LEDs. The result: Hot Spots. Glare. Multiple surface shadows. Inconsistent color reproduction. Poor or non-existent dimming. Unattractive housings.

Until now. Tech Lighting's Unilume LED Lighting Systems are designed specifically to address the shortcomings of existing LED solutions. By utilizing tightly clustered blue LEDs, optimized light mixing chambers and Intematix ChromaLit™ remote phosphor, the result is incredibly consistent illumination and high efficiency within an ultra-low profile.

The Possibilities are Endless

The Unilume LED Lighting Systems lineup features a collection of products that can accommodate countless unique applications. Perfect for home, office, retail displays, accent lighting and more. We are confident lighting designers and home owners alike are more empowered than ever to put light exactly where they need it. Unilume systems are designed to melt into architecture, leaving only consistent, beautiful white light behind. Although there are thousands of creative uses for Unilume systems, below you will find a short list of industries that are sure to benefit from it:

Airports, Assisted Living, Custom Closets, Display/POP, Healthcare, Hotels, Libraries, Museums/Galleries, Offices/Cubicles, Residential, Restaurants/Bars, Retail, Schools, Universities



UNILUME LED SLIMLINE

Offers a class-leading combination of performance and aesthetics due to its powerful, uniform light output and diverse offering of fixture options. Ideal for undercabinet and under-shelf.

PRODUCT DEPTH	0.74"
PRODUCT WIDTH	2.80"
PRODUCT LENGTHS	7", 13", 19", 30"
WATTAGE	4.0, 8.5, 10.5, 18.0
LUMENS PER WATT	54, 51, 61, 61
LUMENS PER FOOT	~430
COLOR TEMPERATURES	2700K, 3000K
CRI OPTIONS	80+, 90+
POWER FACTOR	0.94
INPUT POWER	120V
DIMMER TYPE	ELV
DIMMING RANGE	To 5%-15% Depending on Dimmer
UNIT TO UNIT CONNECTORS	Jumper Connectors
ON/OFF SWITCH	Integrated
OCCUPANCY SENSOR	N/A
FIELD-CUTTABLE	N/A
MAXIMUM RUN LENGTH	70 feet
MOUNTING METHOD	Wood Screws
INSTALLABLE ANGLES	Flush
HOUSING COLORS	White, Black
REMOTE PHOSPHOR COLOR IN OFF-STATE	Yellow
WARRANTY	5 years



UNILUME LED DIRECT WIRE

Unilume LED Direct Wire offers a class-leading combination of reliability and performance with its commercial-grade construction and powerful, consistent light output. Ideal for undercabinet and under-shelf.

PRODUCT DEPTH	1.25"
PRODUCT WIDTH	3.73"
PRODUCT LENGTHS	7", 13", 19", 30"
WATTAGE	4.0, 8.5, 10.5, 18.0
LUMENS PER WATT	54, 51, 61, 61
LUMENS PER FOOT	~430
COLOR TEMPERATURES	2700K, 3000K
CRI OPTIONS	80+, 90+
POWER FACTOR	0.94
INPUT POWER	120V
DIMMER TYPE	ELV
DIMMING RANGE	To 5%-15% Depending on Dimmer
UNIT TO UNIT CONNECTORS	Contractor Supplied
ON/OFF SWITCH	Integrated
OCCUPANCY SENSOR	Optional
FIELD-CUTTABLE	N/A
MAXIMUM RUN LENGTH	70 feet
MOUNTING METHOD	Wood Screws
INSTALLABLE ANGLES	Flush
HOUSING COLORS	White, Black
REMOTE PHOSPHOR COLOR IN OFF-STATE	Yellow
WARRANTY	5 years



SHOWN OFF

UNILUME LED LIGHT BAR

Unilume LED Light Bar offers the best combination of compact size, performance and versatility. It's unique snap-together design allows for long runs of uninterrupted, uniform light. Ideal for display and cove.

PRODUCT DEPTH	0.68"
PRODUCT WIDTH	1.13"
PRODUCT LENGTHS	7", 13", 19"
WATTAGE	4.0, 8.0, 12.0
LUMENS PER WATT	65
LUMENS PER FOOT	520
COLOR TEMPERATURES	2700K, 3000K
CRI OPTIONS	80+, 90+
POWER FACTOR	0.95
INPUT POWER	24V DC
DIMMER TYPE	ELV
DIMMING RANGE	To 5%-15% Depending on Dimmer
UNIT TO UNIT CONNECTORS	End-to-End or Jumper Connectors
ON/OFF SWITCH	N/A
OCCUPANCY SENSOR	N/A
FIELD-CUTTABLE	N/A
MAXIMUM RUN LENGTH	40 feet
MOUNTING METHOD	Wood Screws
INSTALLABLE ANGLES	Flush, 30°, 45°, 90°
HOUSING COLORS	White, Black
REMOTE PHOSPHOR COLOR IN OFF-STATE	Yellow
WARRANTY	5 years



SHOWN OFF

UNILUME LED MICRO CHANNEL

Unilume LED Micro Channel's compact size and superior light performance combine with onsite length customization for applications where custom length, end-to-end illumination are crucial. Ideal for cove, wall grazing and display.

PRODUCT DEPTH	0.85"
PRODUCT WIDTH	1.02"
PRODUCT LENGTHS	12", 24", 48"
WATTAGE	3.0, 6.0, 12.0 (300) 6.0, 12.0, 24.0 (600)
LUMENS PER WATT	100 (est.)
LUMENS PER FOOT	300, 600
COLOR TEMPERATURES	2400K, 3000K, 3500K, 4,000K
CRI OPTIONS	80+
POWER FACTOR	0.95
INPUT POWER	24V DC
DIMMER TYPE	ELV
DIMMING RANGE	To 5%-15% Depending on Dimmer
UNIT TO UNIT CONNECTORS	Jumper Connectors
ON/OFF SWITCH	N/A
OCCUPANCY SENSOR	N/A
FIELD-CUTTABLE	3" increments (end of run)
MAXIMUM RUN LENGTH	40 feet
MOUNTING METHOD	Wood Screws/ Adhesive
INSTALLABLE ANGLES	Flush, 30°, 45°, 90°
HOUSING COLORS	Aluminum
REMOTE PHOSPHOR COLOR IN OFF-STATE	White
WARRANTY	5 years

OPTIMAL APPLICATION GUIDE

APPLICATIONS	UNILUME LED SLIMLINE	UNILUME LED DIRECT WIRE	UNILUME LED LIGHT BAR	UNILUME LED MICRO CHANNEL
Undercabinet/ Shelves – Residential	•••	•••	••	•
Undercabinet/Industrial/ Shelves – Office	••	•••	••	•
Undercabinet/ Shelves – Cubicle	•••	•••	•	•
Cove			••	•••
Toe Kick			••	•••
Wall Graze			••	•••
Display – Retail/POP	•	•	••	•••
Display – Signage/Backlighting			•••	•••

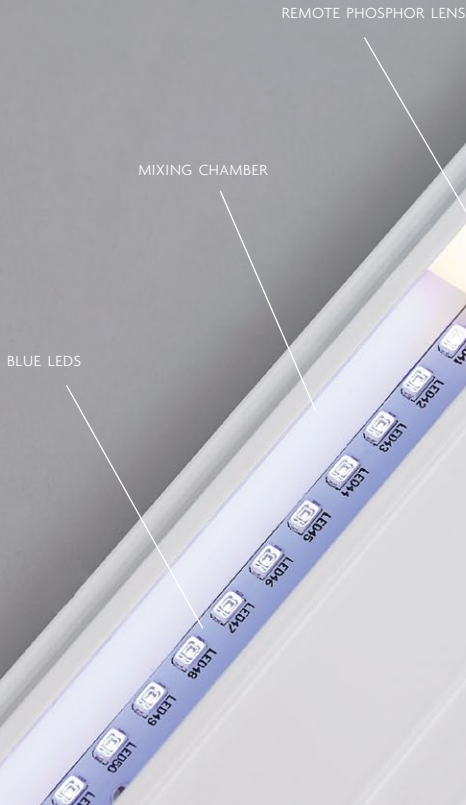


Airports
Assisted Living
Custom Closets
Display/POP
Healthcare
Hotels
Libraries

Museums/Galleries
Offices/Cubicles
Residential
Restaurants/Bars
Retail
Schools
Universities

WHAT IS REMOTE PHOSPHOR TECHNOLOGY?

Most white LEDs are actually blue LEDs with a phosphor coating. The phosphor absorbs the blue light and re-emits the photons at longer wavelengths which we perceive as white light. In most lighting applications, the phosphor is directly on the LED chip; and this is the right approach for many applications. However, by utilizing a remote phosphor solution – a linear phosphor lens that sits above the LEDs – we are able to achieve performance levels and consistency not possible with traditional LED linear solutions.



TECH LIGHTING UNILUME LED

VS.

TYPICAL LED SOLUTION

REMOTE PHOSPHOR SOLUTION

Because the entire remote phosphor lens illuminates, we are able to achieve an extremely consistent and even wash of light. This is both attractive and easier on the eyes.

Discrete LEDs spaced several inches apart. Each LED appears extremely glary. Unattractive dots of light appear on any reflective surface.

ELIMINATES DISTRACTING 'MULTI-SHADOWS'

Because the entire remote phosphor lens is illuminated, multiple shadows are not produced.

Each point source of light hits an object at a different angle and creates a shadow at that angle. For every LED, a unique shadow is created.

WIDE BEAM DISTRIBUTION

The entire phosphor lens is illuminated and sits at the surface of the housing creating a much wider beam distribution. This makes it possible to use fewer units spread at greater distances with more even output over the entire space.

LEDs are typically recessed into the housing or hidden behind a diffusing lens. This causes light cut-off at the edges.

COLOR CONSISTENCY OVER TIME

The phosphor sits away from the LED and remains cooler over time. Therefore the phosphor does not experience the same level of degradation.

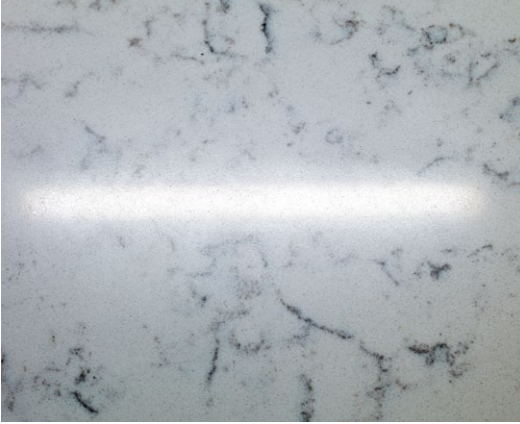
Overtime, LEDs can experience some level of color shift. This is caused in large part by the degradation of the phosphor that sits directly on the LED due to heat coming directly off the LED.

HIGH EFFICIENCY

With the remote phosphor lens, we do not need a secondary diffusing lens. This helps us achieve greater lumens per watt.

In order to minimize glare created by individual LEDs, most traditional products utilize a diffusing lens. This typically creates an efficiency loss of 15% to 35%. In fixtures without a diffusing lens, high efficiency is sometimes achieved at the cost of significant glare.

UNILUME GIVES CONSISTENT, EVEN ILLUMINATION



TYPICAL LED SYSTEMS



UNILUME ELIMINATES DISTRACTING 'MULTI-SHADOWS' IN RETAIL



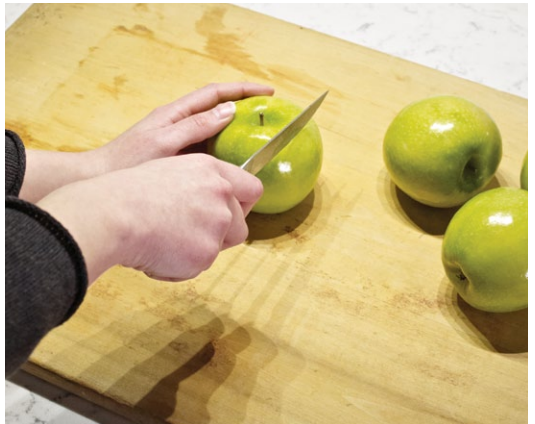
TYPICAL LED SYSTEMS



UNILUME ELIMINATES DISTRACTING 'MULTI-SHADOWS' IN TASK



TYPICAL LED SYSTEMS



UNILUME LED SLIMLINE

For undercabinet and task applications where a 120V input is desirable, Unilume LED Slimline offers a class-leading combination of performance and versatility. With four convenient lengths, the ability to power up to 70 linked units from a single outlet, a standard on/off switch, a reliable integrated driver, and color temperature/CRI options; Unilume LED Slimline is perfect for residential or commercial use.



REMOTE PHOSPHOR LENS
(SHOWN OFF)

MOUNTING HOLES

INTEGRATED
ON/OFF SWITCH

DIE-CAST END-CAPS

SLIMLINE DESIGN

JUMPER CONNECTION PORTS ARE LOCATED ON
EACH END OF THE HOUSING
(SHOWN WITHOUT FINISHING CAP)



UNILUME LED SLIMLINE

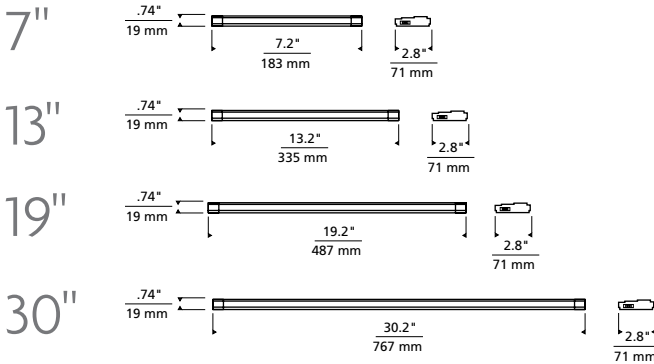


WHITE
(SHOWN OFF)



BLACK
(SHOWN ON)

AVAILABLE SIZES



ACCESSORIES

Splice Box
Cord with Plug
Jumper Connectors
T-Connector
Female/Female Connector

For Unilume Accessory ordering grids, please see techlighting.com

700UCF	LENGTH	CRI	COLOR TEMPERATURE	FINISH	LAMP TYPE
07	7.2"	8	80+ 2 2700K	B BLACK	-LED LED
13	13.2"	9	90+ 3 3000K	W WHITE	
19	19.2"				
30	30.2"				

TECHNICAL SPECIFICATIONS

	7" length	13" length	19" length	30" length
SYSTEM POWER	4.0 watts	8.5 watts	10.5 watts	18.0 watts
SYSTEM EFFICACY	54 lms/watt	51 lms/watt	61 lms/watt	61 lms/watt
LUMENS PER FOOT	-430	-430	-430	-430
COLOR TEMPERATURES	2700K, 3000K	2700K, 3000K	2700K, 3000K	2700K, 3000K
COLOR RENDERING INDEX	80+, 90+	80+, 90+	80+, 90+	80+, 90+
POWER FACTOR	0.94	0.94	0.94	0.94
INPUT POWER	120V	120V	120V	120V
DIMMING	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer
WARRANTY	5 years	5 years	5 years	5 years

UNILUME LED DIRECT WIRE

For undercabinet and task applications where 120V input is desirable, Unilume LED Direct Wire offers a class-leading combination of performance and versatility. With four convenient lengths, the ability to power up to 70 linked units from a power connection, a standard on/off switch, a reliable integrated driver, an optional occupancy sensor and color temperature/CRI options; Unilume LED Direct Wire is perfect for residential or commercial use.



TOOL-FREE WIRING ACCESS WITH MAGNETIC LID SHOWN WITH OCCUPANCY SENSOR



REMOTE PHOSPHOR LENS (SHOWN OFF)

INTEGRATED ON/OFF SWITCH

COMMERCIAL-GRADE CONSTRUCTION

MOUNTING HOLES

WIRING KNOCK-OUTS (SHOWN KNOCKED OUT)



UNILUME LED DIRECT WIRE



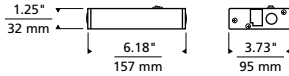
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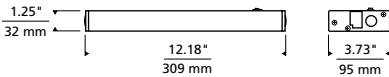
WHITE WITH
OCCUPANCY SENSOR
(SHOWN ON)

AVAILABLE SIZES

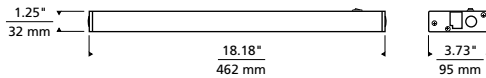
7"



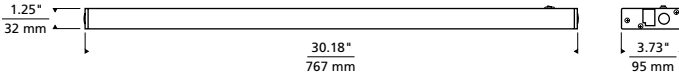
13"



19"



30"



700UCFDW

	LENGTH	CRI	COLOR TEMPERATURE	FINISH	LAMP TYPE	OCCUPANCY SENSOR
07	7.2"	8 80+	2 2700K	B BLACK	-LED LED	NONE
13	13.2"	9 90+	3 3000K	W WHITE		WITH OCCUPANCY SENSOR*
19	19.2"					
30	30.2"					

* INTEGRATED OCCUPANCY SENSOR ONLY AVAILABLE ON 13", 19" AND 30"

TECHNICAL SPECIFICATIONS

	7" length	13" length	19" length	30" length
SYSTEM POWER	4.0 watts	8.5 watts	10.5 watts	18.0 watts
SYSTEM EFFICACY	54 lms/watt	51 lms/watt	61 lms/watt	61 lms/watt
LUMENS PER FOOT	-430	-430	-430	-430
COLOR TEMPERATURES	2700K, 3000K	2700K, 3000K	2700K, 3000K	2700K, 3000K
COLOR RENDERING INDEX	80+, 90+	80+, 90+	80+, 90+	80+, 90+
POWER FACTOR	0.94	0.94	0.94	0.94
INPUT POWER	120V	120V	120V	120V
DIMMING	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer
WARRANTY	5 years	5 years	5 years	5 years

UNILUME LED LIGHT BAR

For undercabinet, task, display and cove applications where space is limited but performance is crucial, Unilume LED Light Bar offers the best combination of compact size, performance and versatility. Unilume LED Light Bar's ultra slim housing design and unique snap-together connectors allow for forty feet of uninterrupted, uniform light without the use of wire jumpers. With three convenient lengths, two color temperature options, two CRI options, two finish colors and several accessories; customizing a Unilume LED Light Bar for one-of-a-kind applications is easy.





UNILUME LED LIGHT BAR



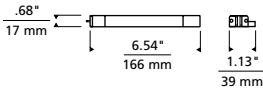
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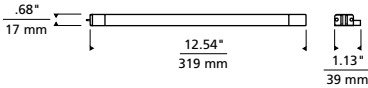
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AVAILABLE SIZES

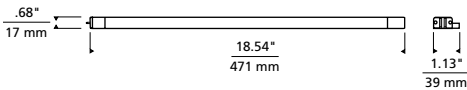
7"



13"



19"



ACCESSORIES

Transformer
(Remote or plug-in)
Power Feed
Jumper Connectors
Mounting Brackets (30°; 45°; 90°)
L-Connector
T-Connector

For Unilume Accessory
ordering grids, please see
techlighting.com

700UCRD

LENGTH	CRI	COLOR TEMPERATURE	FINISH	LAMP TYPE
07 7"	8 80+	27 2700K	B BLACK	-LED LED
13 13"	9 90+	30 3000K	W WHITE	
19 19"				

TECHNICAL SPECIFICATIONS

	7" length	13" length	19" length
SYSTEM POWER	4.0 watts	8.0 watts	12.0 watts
SYSTEM EFFICACY	65 lms/watt	65 lms/watt	65 lms/watt
LUMENS PER FOOT	520	520	520
COLOR TEMPERATURES	2700K, 3000K	2700K, 3000K	2700K, 3000K
COLOR RENDERING INDEX	80+, 90+	80+, 90+	80+, 90+
POWER FACTOR	0.95	0.95	0.95
INPUT POWER	24V DC	24V DC	24V xDC
DIMMING	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer
WARRANTY	5 years	5 years	5 years

UNILUME LED MICRO CHANNEL

Unilume LED Micro Channel was specifically developed for applications where custom length, end-to-end illumination is crucial. Combining on-site length customization with ultra slim housing design and superior light performance makes the Unilume Micro Channel one of the most unique LED products available. The special co-extruded remote phosphor mixing channel provides a sleek profile while providing impressive general illumination. As an added benefit, it also creates a clean, white look even when turned off. Available in 300 lumens per foot and 600 lumens per foot.



CO-EXTRUDED
REMOTE PHOSPHOR LENS
(SHOWN OFF)

PHOSPHOR AND
RUN-TO-RUN
COVER HOLDER

END-CAP

EXTRUDED ALUMINUM
LOW-PROFILE CHANNEL

FIELD-CUTTABLE
WITH HACK SAW EVERY 3"
AT END OF RUN



UNILUME LED MICRO CHANNEL

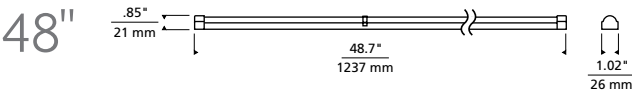
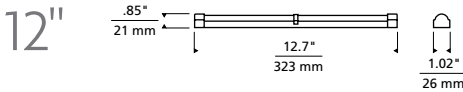


ALUMINUM
(SHOWN OFF)



ALUMINUM
(SHOWN ON)

AVAILABLE SIZES



ACCESSORIES

Transformer
Power Feed
Jumper Connectors
Mounting Bracket (30°, 45°, 90°)
L-Connector
T-Connector
End-Caps
Joint Clips
Rigid Wall Mount Bracket
Rigid Wall Mount
Power Feed Brackets

For Unilume Accessory ordering grids, please see techlighting.com

700UMCD

OUTPUT	LENGTH	CRI	COLOR TEMPERATURE	FINISH
3 300LMS / FT	01 1'	8 80+	24 2400K	A ALUMINUM
6 600LMS / FT	02 2'		30 3000K	
	04 4'		35 3500K	
			40 4000K	

TECHNICAL SPECIFICATIONS

	12" length	24" length	48" length
SYSTEM POWER	3.0 watts/300 6.0 watts/600	6.0 watts/300 12.0 watts/600	12.0 watts/300 24.0 watts/600
SYSTEM EFFICACY	100 lms/watt (est.)	100 lms/watt (est.)	100 lms/watt (est.)
LUMENS PER FOOT	300, 600	300, 600	300, 600
COLOR TEMPERATURES	2400K, 3000K 3500K, 4000K	2400K, 3000K 3500K, 4000K	2400K, 3000K 3500K, 4000K
COLOR RENDERING INDEX	80+	80+	80+
POWER FACTOR	0.95	0.95	0.95
INPUT POWER	24V DC	24V DC	24V DC
DIMMING	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer	To 5%-15% Depending on Dimmer
WARRANTY	5 years	5 years	5 years





There are thousands of applications in today's energy-conscious, productivity-focused and aesthetically-demanding world where incredibly uniform illumination is needed within increasingly smaller spaces. From health care to hospitality and retail to residential, Tech Lighting's expanding line of Unilume LED Lighting Systems are designed to be the most versatile and highest performing task, cove, and undercabinet lighting products on the market today. Find out more at techlighting.com.



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