LineLED Tunable White Series LLTW168X2-IP20



* MFG Model Number: LLTW51X2-XX

Tunable White

Features

LineLED Tunable White series is a small profile high performance LED strip.This Tunable White LED series offers a wide CCT range to create the perfect ambiance in real time. From bright white encouraging wakefulness, to warm amber sunsetting into relaxation, LineLED TW168X2-IP20 can transform any environment to match the natural human circadian rhythm. Industry-best color consistency with single-binned LEDs. This High Color Quality LED strip boasts CRIs and R9 values up to 98. It is easily installed within discrete aluminum extrusions with multiple mounting options.

Mounting
LLED strip is equipped with 3M™ adhesive tape.

Applications
Indoor only - millwork, cove, architectural reveals, undercabinet, display case, handrail, accent lighting.

Approvals
CE, UKCA, UL, Class 2

Operating voltage
24 VDC

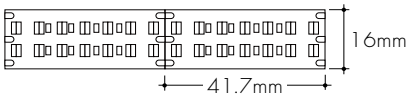
Average Life (L70)
50,000 hours

Warranty
7 years

Technical information

TYPE	LLTW168X2-IP20	
OUTPUT OPTIONS	**VHO (18K-30K)**	**VHO (27K-65K)**
Lumens Output (all channels full on)	2349 lm/m	3025 lm/m
Average Power Consumption	31.2 W/m	
Efficacy	75 lm/W	97 lm/W
Cutting Increment (mm)	41.7 mm	
Pitch Length	12.0 mm	
Max Run Length (in series)	3.7 m	
Dimensions	16 mm W x2.3 mm H	
Ambient Operating Temperature Range*	- 25°C – 25°C	

*VHO output must be paired with an aluminum channel
*Ambient Operating Temperature Range to maintain L70 of 50K+ hours in normal conditions. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquires.



CCT	TM-30 CRI	R_f	R_g	R_9
1800K	92	85	91	86
2400K	95	93	106	98
3000K	97	94	104	95
2700K	97	95	103	93
4200K	96	93	105	95
6500K	91	90	101	63

*2400K condition from both 1800K and 3000K channels on at full brightness. 4200K condition from both 2700K and 6500K channels on at full brightness.

CCT	Multiplier (reference - 27K-65K)
18K30K	0.78
27K65K	1.00

Ordering code

MODEL	OUTPUT	CCT	REEL SIZE
LLTW168X2-IP20 - LineLED Tunable White, Dry Location	VHO - Very High	18K-30K - 1800K - 3000K 27K-65K - 2700K - 6500K	R10m - Reel, 10 meter

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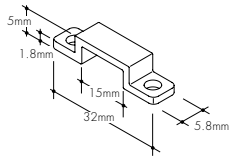
Lifetime and Environmental

At Luminii, we design our LED strip systems with longevity and responsible material use in mind. Our products are engineered to be serviceable and adaptable, with modular components such as drivers and controls that can be replaced or upgraded without full system replacement.
We are actively reducing the environmental impact of our packaging by transitioning to paper-based solutions for reels, bags, and outer packaging wherever possible, while minimising material use and avoiding mixed materials to improve recyclability.
We prioritise the use of recyclable materials in both our products and packaging, and encourage responsible disposal in line with local recycling and WEEE regulations.

CIBSE TM65	66.9 Kg/CO_2e (10m complete reel)
CIBSE TM66	2.1
RoHS Compliance	Yes
REACH Compliance	Yes
WEEE Compliance	Yes - Registered Producer
Declare	See North American Product
Lifetime	L90B10 100,000hrs
Warranty	7 Years

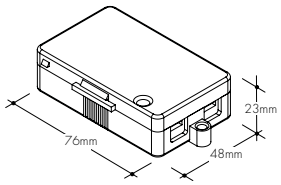
Accessories

CL2
Mounting clip

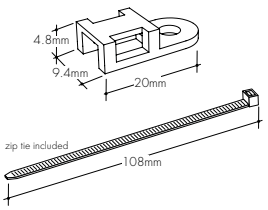


Recommended every 300mm when LineLED strip is facing down

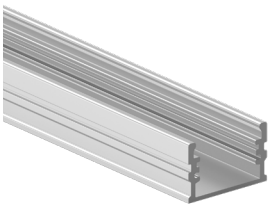
LVSP-IP20-4T-BK
Low Voltage, 4 Terminal Splice Box, Black



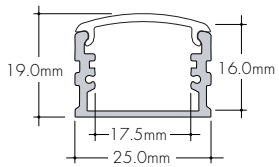
LL-ZIP
Cable/Wire Strain Relief Clip



Lens Options / Light Transmission



Basics X-Large Channel
(BXC-XX)



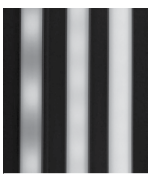
Ordering code

MODEL		LENGTH		LENS		MOUNTING[1]		FINISH
	-		-		-		-	
BXC - Basics X-Large Channel		2M - 2 meter		F - Frosted		FC - Fixed Clip		SA - Silver Anodized

1 - Extrusion comes with 4 selected clips and 2 end caps.

Lens	**Frosted**
Transmission %	53%
Dotting*	ND

*At 100% brightness



CD **SD** **ND**
CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

Installation

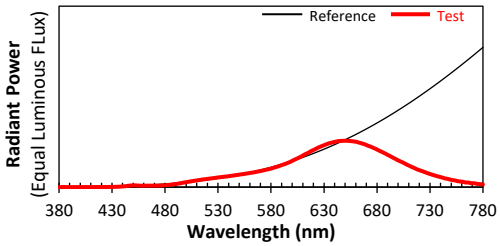
All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

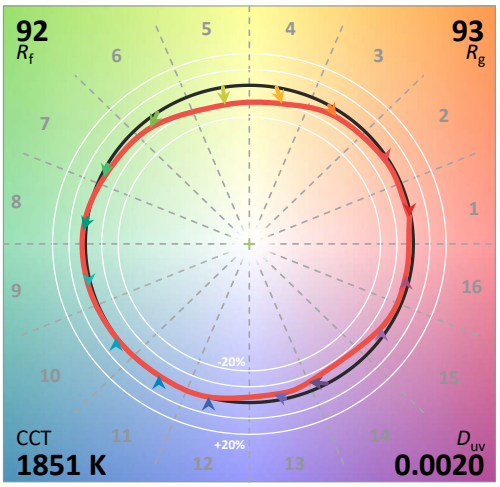
Ordering

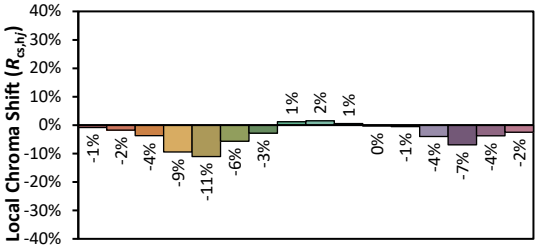
Extrusion are sold separately.

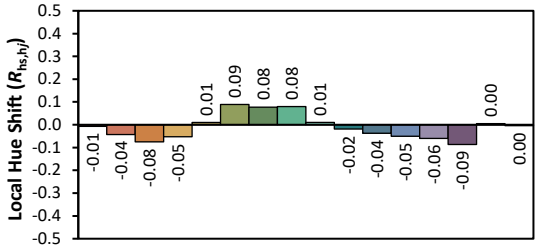
TM-30-18: Data

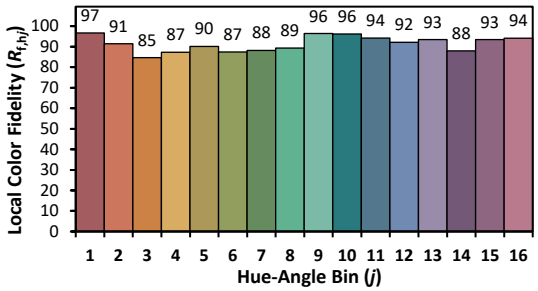
1800K (1 channel on)



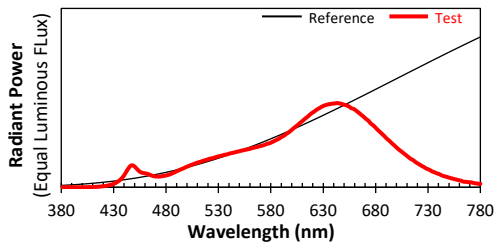


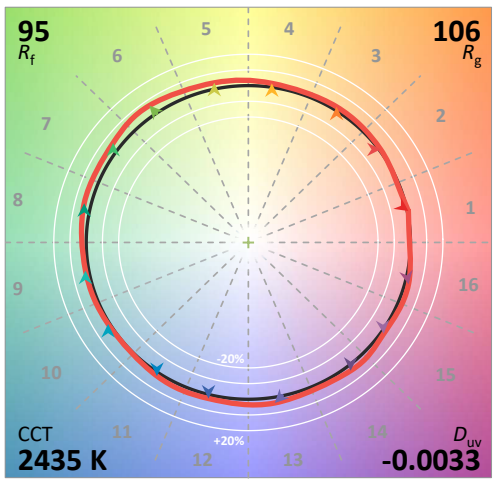


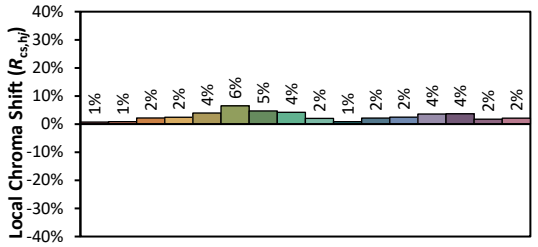


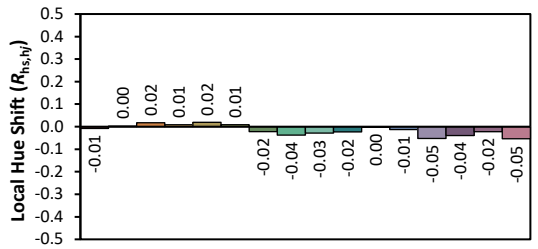


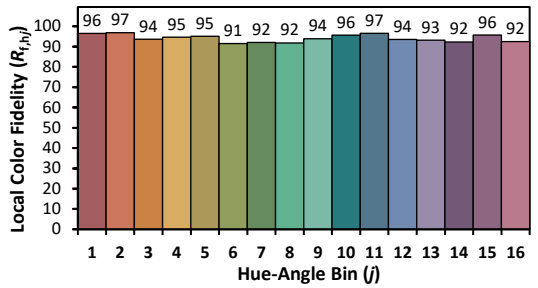
2400K (18K - 30K All on)











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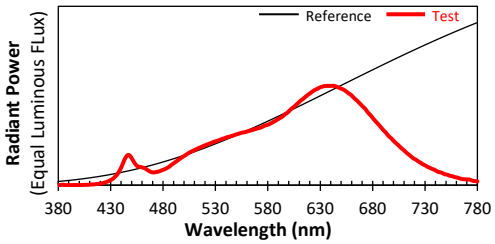
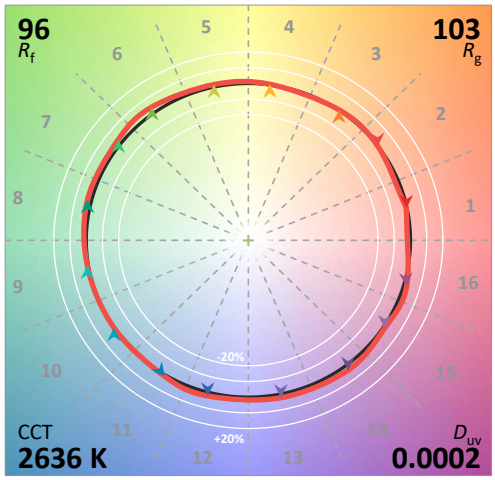
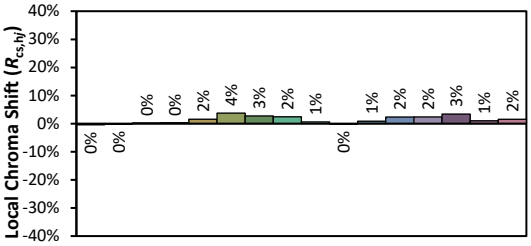
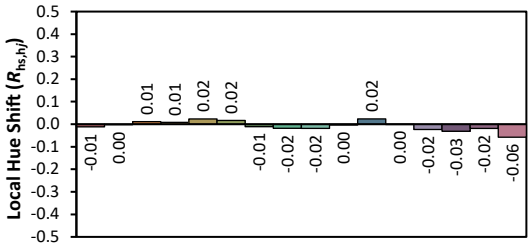
TM-30-18: Data

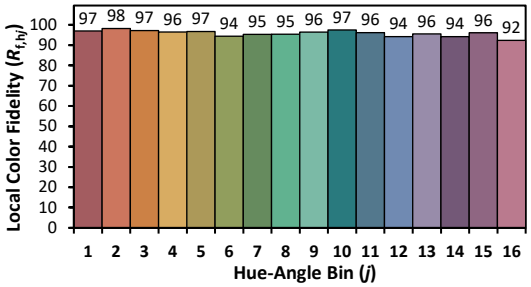
2700K (1 channel on)



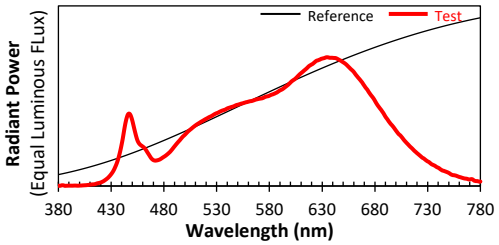


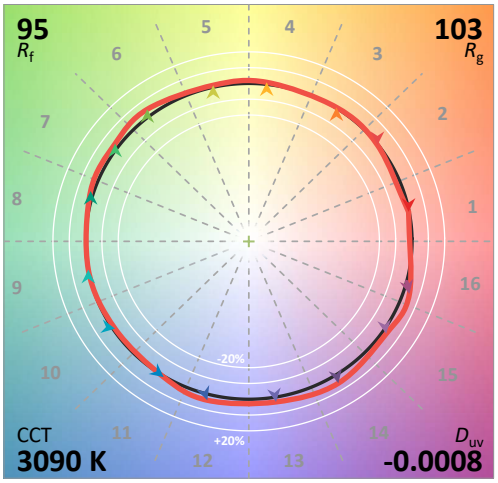


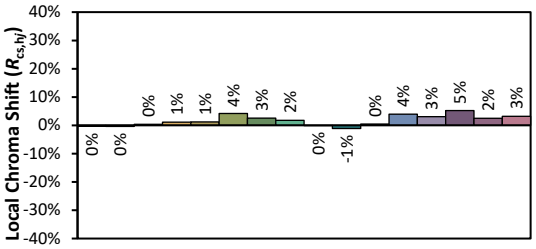


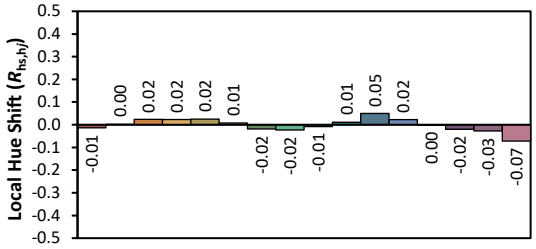


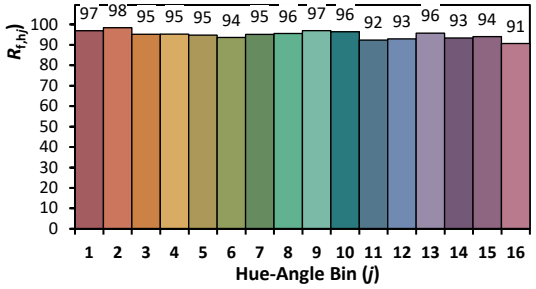
3000K (1 channel on)











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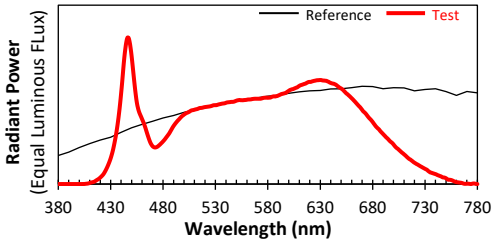
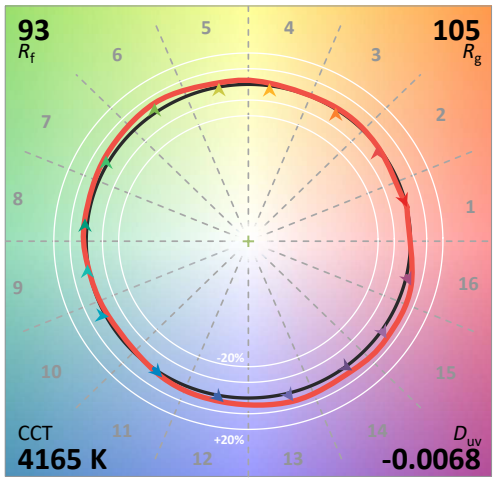
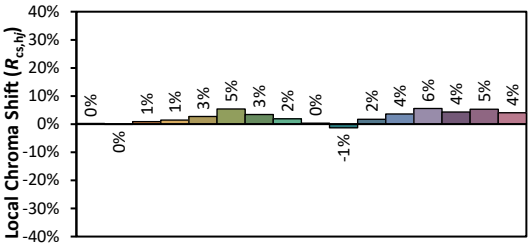
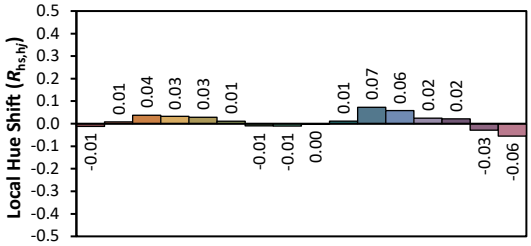
TM-30-18: Data

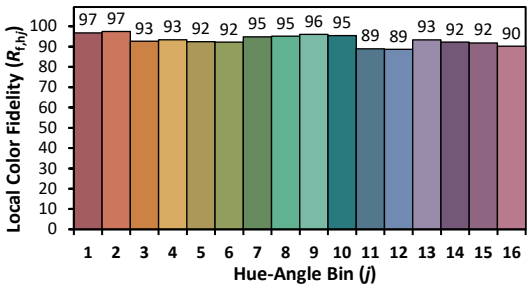
4200K (27K - 65K All on)



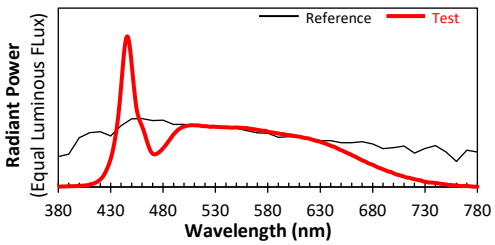


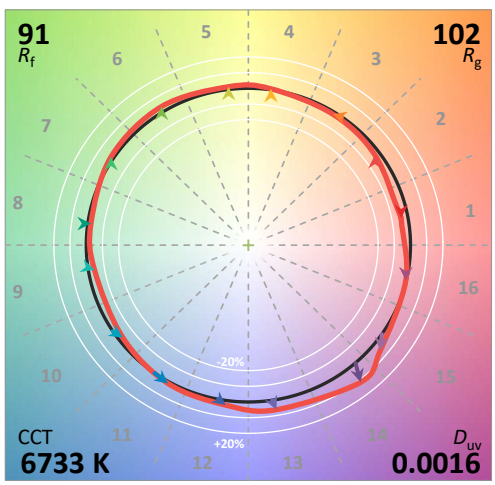


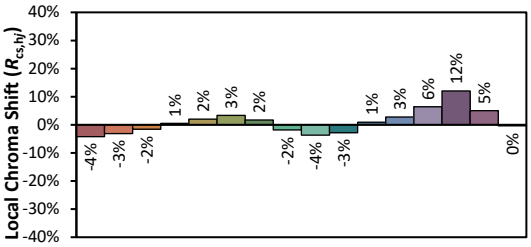


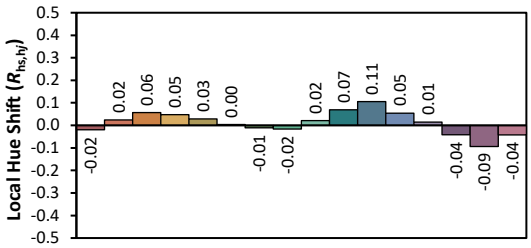


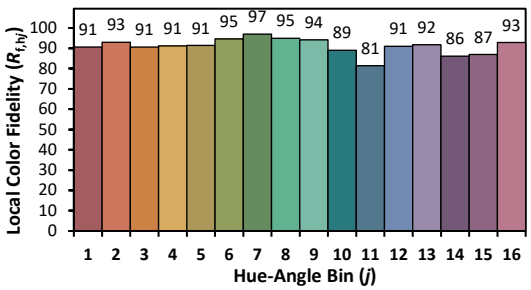
6500K (1 channel on)











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