

LineLED Tunable White Series LLTW168-IP20



* MFG Model Number: LLTW51-XX



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 TW168-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

LED 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



RoHS

CE

UKCA



Technical information

TYPE	LLTW168-IP20					
OUTPUT OPTIONS	SO (18K-30K)	SO (27K-65K)	HO (18K-30K)	HO (27K-65K)	VHO (18K-30K)	VHO (27K-65K)
Lumens Output (all channels full on)	1060 lm/m	1371 lm/m	1299 lm/m	1703 lm/m	1788 lm/m	2306 lm/m
Average Power Consumption	14.4 W/m		17.7 W/m		24.9 W/m	
Efficacy	74 lm/W	95 lm/W	73 lm/W	95 lm/W	72 lm/W	93 lm/W
Cutting Increment (mm)	42.0 mm					
Pitch Length	5.8 mm					
Max Run Length (in series)	8.8 m		6.7 m		4.6 m	
Dimensions	10 mm W x 1.5 mm H					
Ambient Operating Temperature Range*	- 25°C – 50°C		- 25°C – 45°C		- 25°C – 35°C	



*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 inquiries.

CCT	CRI	TM-30		
		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

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

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

Ordering code

MODEL	OUTPUT	CCT	REEL SIZE
LLTW168-IP20 - LineLED Tunable White, Dry Location	SO - Standard HO - High VHO - Very High	18K-24K - 1800K - 2400K 18K-27K - 1800K - 2700K 18K-30K - 1800K - 3000K	R10m - Reel, 10 meter



LineLED Tunable White Series LLTW168-IP20

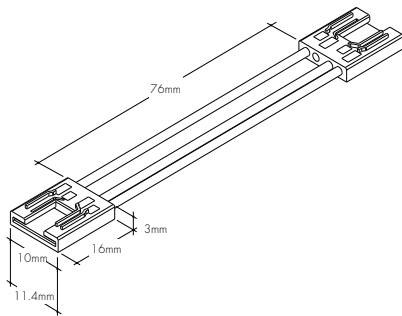
Minii Connectors

Minii connectors are easy, field-installable accessories that make joining LL strip simple! Their minimal width allows them to fit into extrusions, while their transparent frame eliminates dark spots.

Note: verify internal extrusion dimensions to confirm compatibility

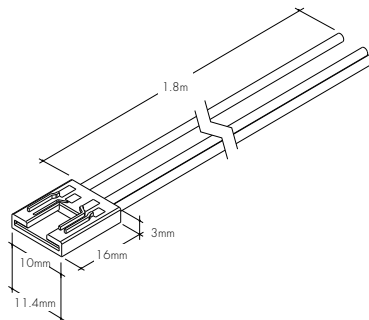
LL-PJC-10-TW

Jumper minii connector with 76mm wire for LLTW168-IP20 LED strip



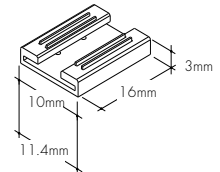
LL-PFC-10-1.8M-TW

Power feed minii connector with 1.8m wire for LLTW168-IP20 LED strip

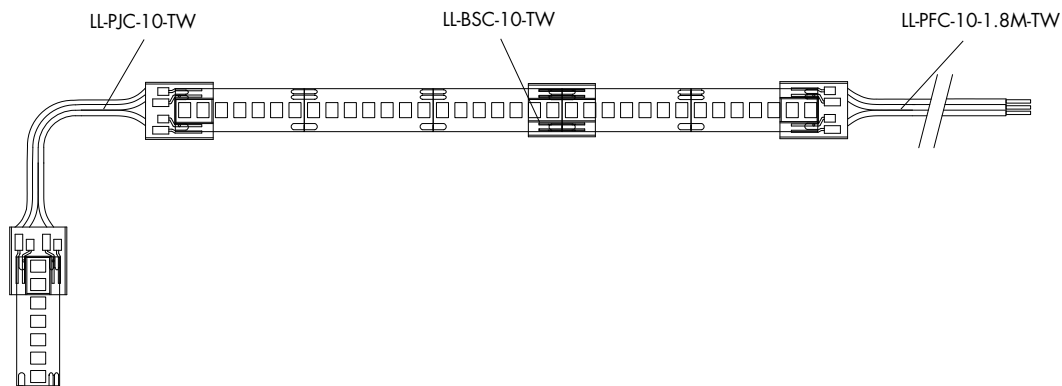


LL-BSC-10-TW

Butt splice minii connector for LLTW168-IP20 LED strip



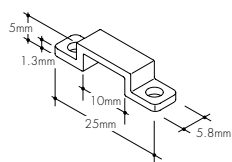
Sample Layout



Accessories

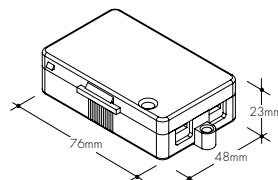
CL1

Mounting clip



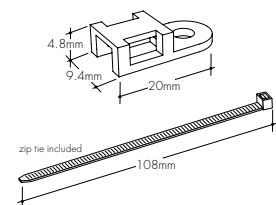
LVSP-IP20-4T-BK

Low Voltage, 4 Terminal Splice Box, Black



LL-ZIP

Cable/Wire Strain Relief Clip



Recommended every 300mm when LineLED strip is facing down



Lens Options / Light Transmission



Clear



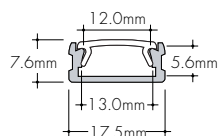
Half (50%)
Frosted



Frosted



KS Channel (KSC-XX)



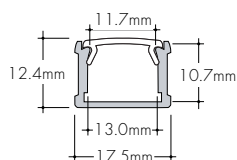
Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KSC-KS Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	FC-Fixed Clip FC45-Fixed Clip 45°	SA-Silver Anodized

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



KM Channel (KMC-XX)



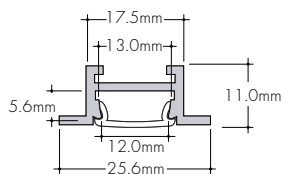
Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KMC-KM Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	FC-Fixed Clip FC45-Fixed Clip 45°	SA-Silver Anodized

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



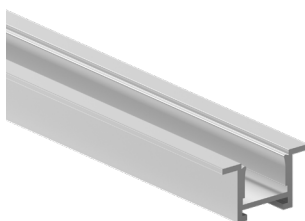
KRS Channel (KRSC-XX)



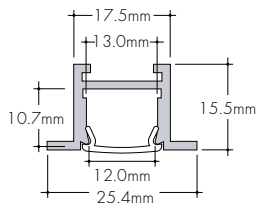
Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KRSC-KRS Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	HS-Hard Surface Mounting Bracket GS-Gypsum Surface Mounting Bracket	SA-Silver Anodized

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



KRM Channel (KRMC-XX)



Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
KRMC-KRM Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	HS-Hard Surface Mounting Bracket GS-Gypsum Surface Mounting Bracket	SA-Silver Anodized

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

Installation

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

Ordering

Extrusion are sold separately.



Lens Options / Light Transmission



Clear



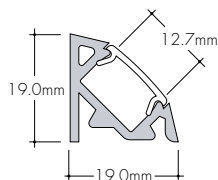
Half (50%)
Frosted



Frosted



K45V Channel (K45V-XX)



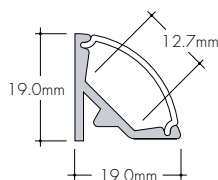
Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
K45VC-K45V Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	CB-Concealed Bracket	SA-Silver Anodized

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



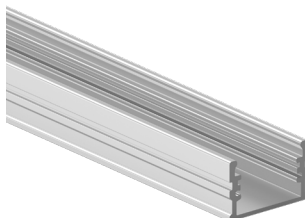
K45R Channel (K45R-XX)



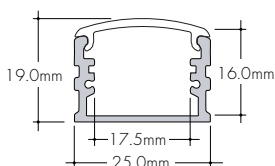
Ordering code

MODEL	LENGTH	LENS	MOUNTING ¹	FINISH
K45RC-K45R Channel	2M-2 meter	C-Clear HF-Half Frosted F-Frosted	CB-Concealed Bracket	SA-Silver Anodized

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



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.

Installation

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

Ordering

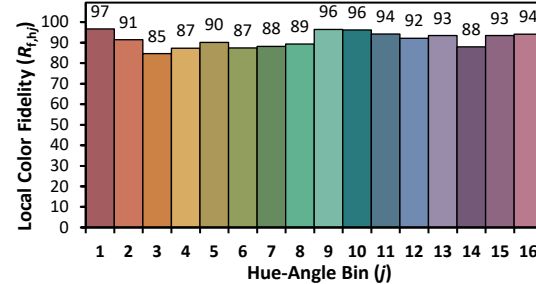
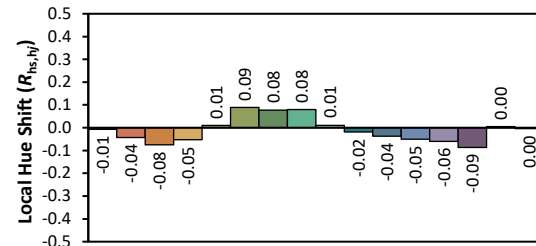
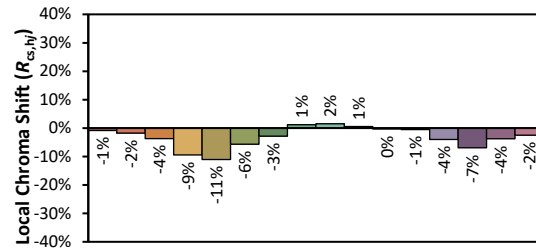
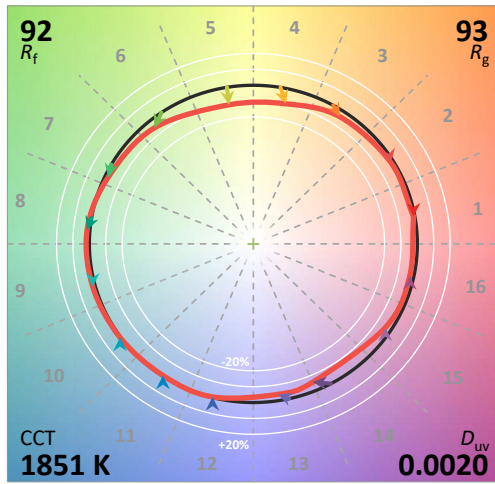
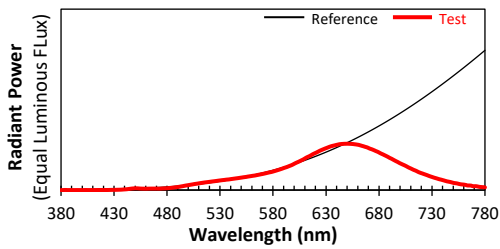
Extrusion are sold separately.



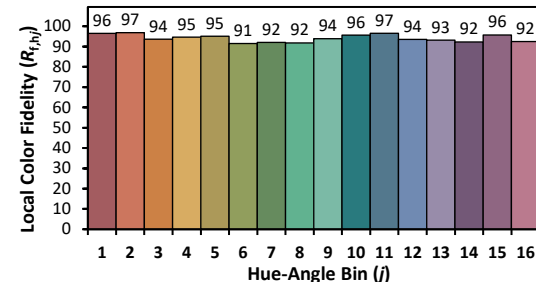
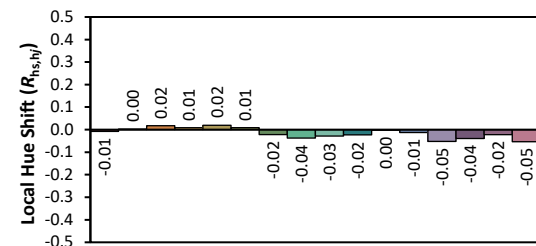
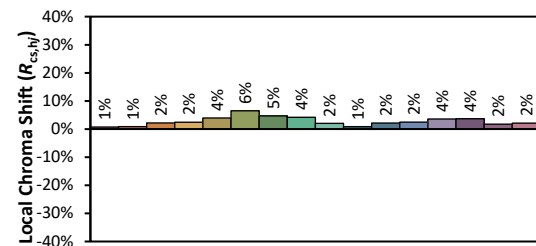
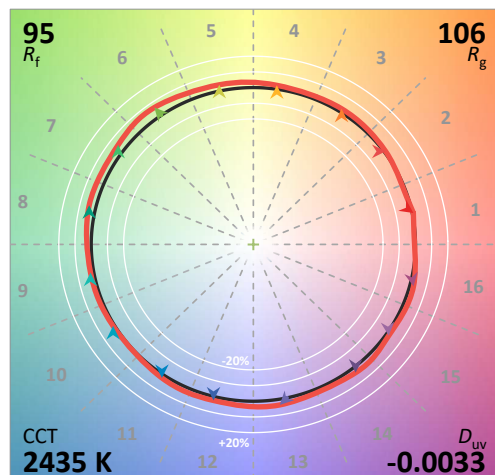
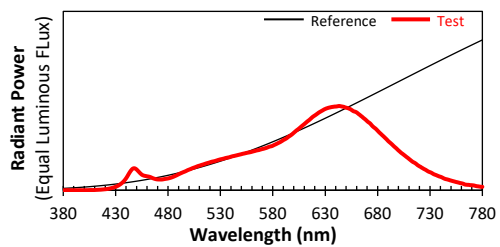
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TM-30-18: Data

1800K (1 channel on)



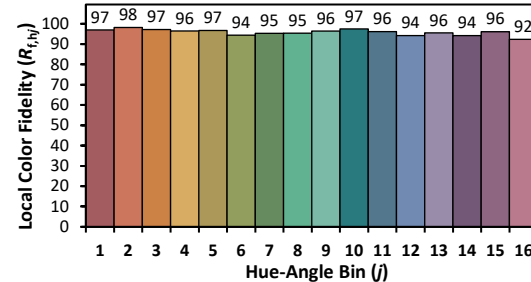
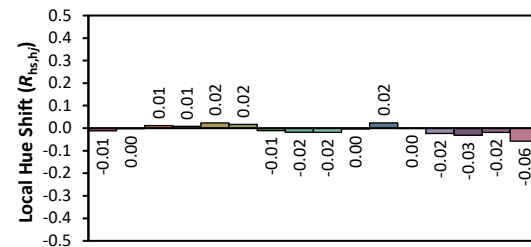
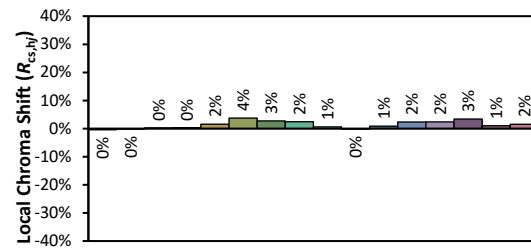
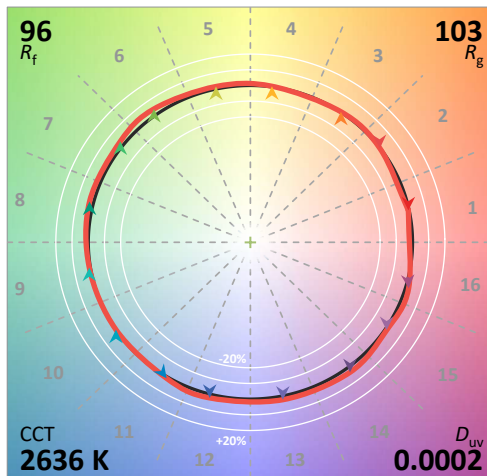
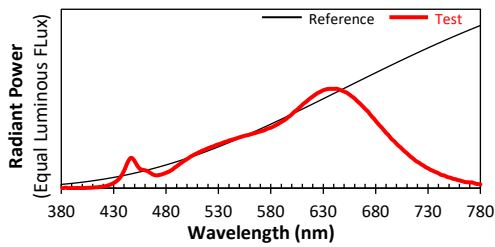
2400K (18K - 30K All on)



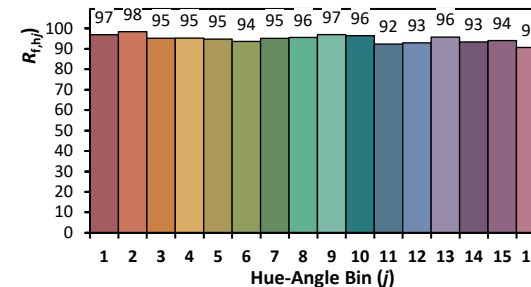
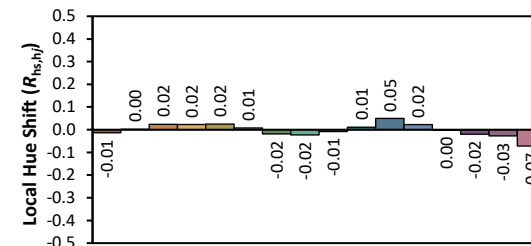
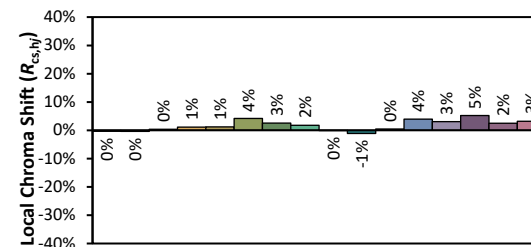
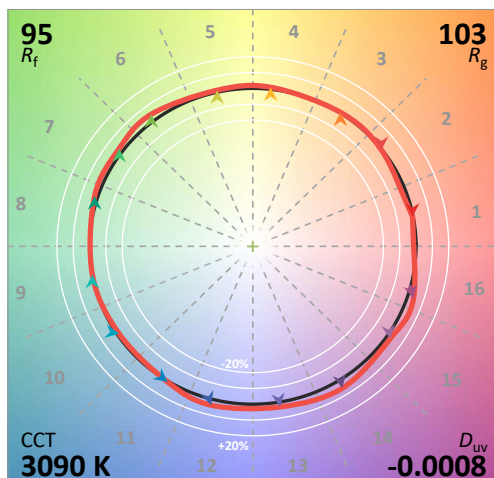
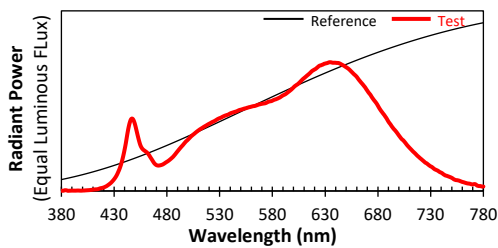
LineLED Tunable White Series LLTW168-IP20

TM-30-18: Data

2700K (1 channel on)



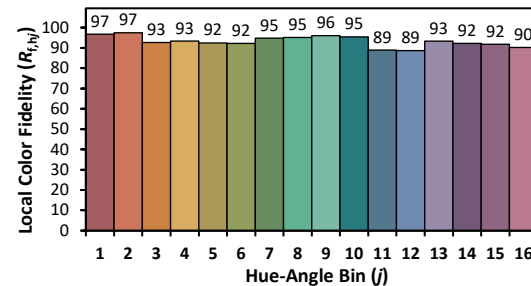
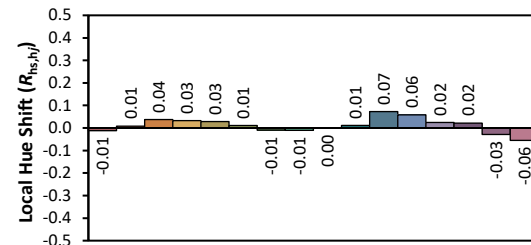
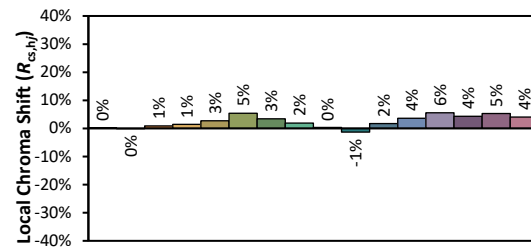
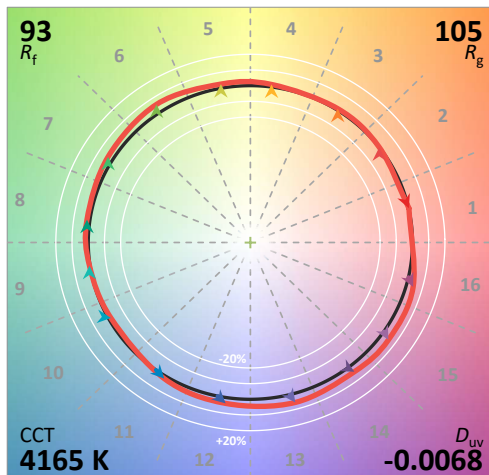
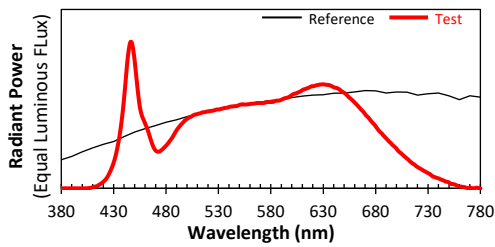
3000K (1 channel on)



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TM-30-18: Data

4200K (27K - 65K All on)



6500K (1 channel on)

