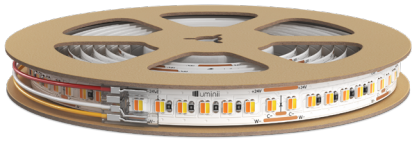
LineLED Tunable White Series LLTW168-IP20



* MFG Model Number: LLTW51-XX

IP20

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 TW168-IP20 can transform any environment to match the natural human circadian rhythm. Industry-best colour consistency with single-binned LEDs. This High Colour 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

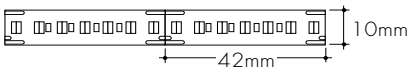
Average Life (L70)
50,000 hours

Warranty
7 years

Technical information

TYPE	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 – 52°C		- 25°C – 46°C		- 25°C – 35°C	

*Ambient operating temperature range to maintain L70 of 50,000+ hours in normal conditions.



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: both 1800K & 3000K channels at full brightness.
4200K: both 2700K & 6500K channels 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-30K - 1800K - 3000K 27K-65K - 2700K - 6500K		R10m - Reel, 10 meter

*LUMINII RESERVES THE RIGHTS TO CHANGE SPECIFICATION & INSTRUCTION WITHOUT NOTICE

CCT Multipliers / Calculated Lumen Output

Tuning Range	CCT	Multiplier	LLTW168-IP20		
			SO (lm/m)	HO (lm/m)	VHO (lm/m)
1800K - 3000K	1800K	0.40	424	520	715
	2400K (Full on)	1.00	1060	1299	1788
	3000K	0.62	657	805	1109
2700K - 6500K	2700K	0.45	617	766	1038
	4200K (Full on)	1.00	1371	1703	2306
	6500K	0.58	795	988	1337

Calculated lumen outputs: full-output value × CCT multiplier.

Lifetime and Environmental

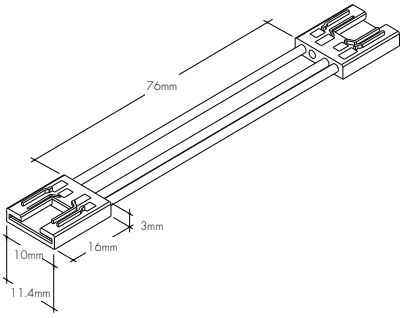
At Luminii, we design our LED strip systems with longevity and responsible material use in mind. Our products are engineered to be serviceable and adaptable, with modular components such as drivers and controls that can be replaced or upgraded without full system replacement.
We are actively reducing 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	51.5 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

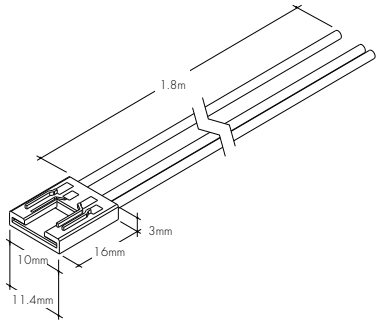
Minii Connectors

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

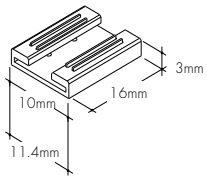
LL-PJC-10-TW
Jumper minii connector with 76mm wire for LLTW168-IP20 LED strip



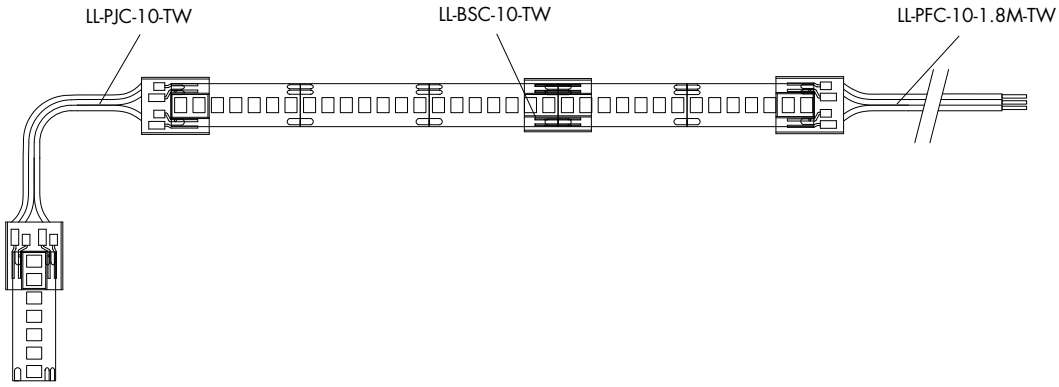
LL-PFC-10-1.8M-TW
Power feed minii connector with 1.8m wire for LLTW168-IP20 LED strip



LL-BSC-10-TW
Butt splice minii connector for LLTW168-IP20 LED strip

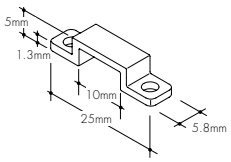


Sample Layout



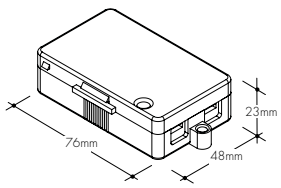
Accessories

CL1
Mounting clip

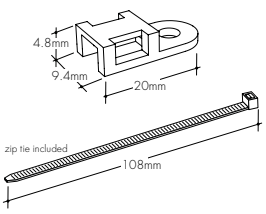


Recommended every 300mm when LineLED strip is facing down

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



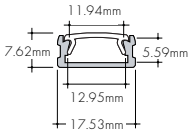
LL-ZIP
Cable/Wire Strain Relief Clip



Lens Options / Light Transmission

KS CHANNEL
-KSC





Ordering code

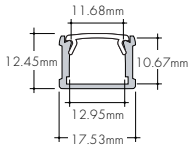
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KSC - KS Channel	2M - 2 metre	C - Clear F - Frosted	FC - Fixed Clip FC45 - Fixed Clip 45°	SA - Silver Anodized

1 - Extrusion comes with 3 selected clips and 2 end caps.

Lens	Clear Lens				Frosted Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%
Dotting	CD	CD	CD	CD	ND	SD	SD	CD
Transmission	90%				56%			

KM CHANNEL
-KMC





Ordering code

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

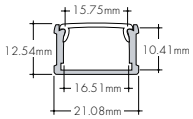
1 - Extrusion comes with 3 selected clips and 2 end caps.

Lens	Clear Lens				Frosted Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%
Dotting	CD	CD	CD	CD	ND	ND	ND	ND
Transmission	82%				51%			

Compatible with
- Minii connectors

KXL CHANNEL
-KXLC





Ordering code

MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KXLC - KXL Channel	2M - 2 metre	C - Clear F - Frosted	FC - Fixed Clip FC45 - Fixed Clip 45°	SA - Silver Anodized

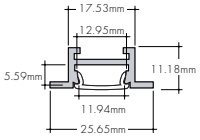
1 - Extrusion comes with 3 selected clips and 2 end caps.

Lens	Clear Lens				Frosted Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%
Dotting	CD	CD	CD	CD	ND	ND	ND	ND
Transmission	86%				54%			

Compatible with
- Minii connectors

KRS CHANNEL
-KRSC





Ordering code

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

1 - Extrusion comes with 3-HS/6-GS selected clips and 2 end caps.

Lens	Clear Lens				Frosted Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%
Dotting	CD	CD	CD	CD	ND	SD	SD	CD
Transmission	90%				56%			

Installation

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

Ordering

Extrusion are sold separately.

Dotting



CD - Clear Dotting

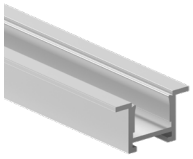
SD - Slight Dotting

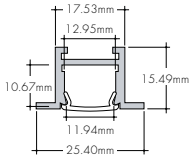
ND - No Dotting

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Lens Options / Light Transmission

KRM CHANNEL -KRMC





Compatible with
- Minii connectors

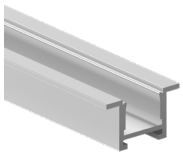
Ordering code

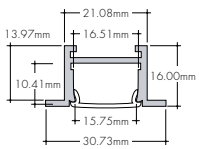
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KRMC - KRM Channel	2M - 2 metre	C - Clear F - Frosted	HS - Hard Surface Mounting Bracket GS - Gypsum Surface Mounting Bracket	SA - Silver Anodized

1 - Extrusion comes with 3-HS/6-GS selected clips and 2 end caps.

Lens	Clear Lens				Frosted Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%
Dotting	CD	CD	CD	CD	ND	ND	ND	ND
Transmission	82%				51%			

KRXL CHANNEL -KRXLC





Compatible with
- Minii connectors

Ordering code

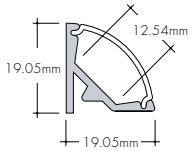
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KRXLC - KRXL Channel	2M - 2 metre	C - Clear F - Frosted	HS - Hard Surface Mounting Bracket GS - Gypsum Surface Mounting Bracket	SA - Silver Anodized

1 - Extrusion comes with 3-HS/6-GS selected clips and 2 end caps.

Lens	Clear Lens				Frosted Lens			
Dimming Level	100%	50%	10%	1%	100%	50%	10%	1%
Dotting	CD	CD	CD	CD	ND	ND	ND	ND
Transmission	86%				54%			

K45R CHANNEL -K45RC





Compatible with
- Minii connectors

Ordering code

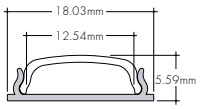
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
K45RC - K45R Channel	2M - 2 metre	RF - Round Frosted	CB - Concealed Bracket	SA - Silver Anodized

1 - Extrusion comes with 3 selected clips and 2 end caps.

Lens	Round Frosted			
Dimming Level	100%	50%	10%	1%
Dotting	ND	ND	ND	ND
Transmission	65%			

KLB CHANNEL -KLBC





Compatible with
- Minii connectors

Ordering code

MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KLBC - KL Bendable Channel	2M - 2 metre	F - Frosted	FC - Fixed Clip	SA - Silver Anodized

1 - Extrusion comes with 7 selected clips and 2 end caps.

Lens	Round Frosted			
Dimming Level	100%	50%	10%	1%
Dotting	ND	ND	ND	ND
Transmission	57%			

Installation

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

Ordering

Extrusion are sold separately.

Dotting



CD - Clear Dotting

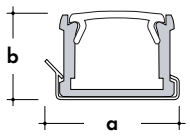
SD - Slight Dotting

ND - No Dotting

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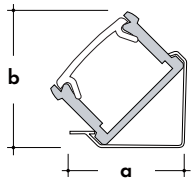
Mounting Clips for KSC, KMC and KLXC

Fixed mounting clip
-FC



Model	a (mm)	b (mm)
KSC	19.6	7.9
KMC	20.6	13.5
KXLC	24.1	13.2

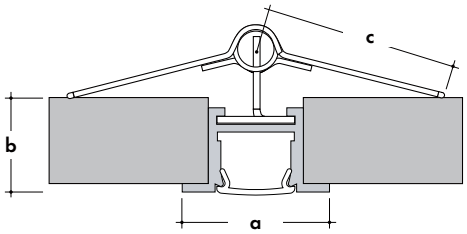
Fixed mounting clip 45°
-FC45



Model	a (mm)	b (mm)
KSC	17.0	16.3
KMC	17.5	20.8
KXLC	23.4	23.4

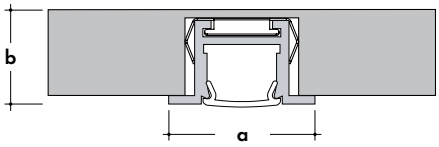
Mounting Clips for KRSC, KRMC and KRXLC

Stainless Steel Gypsum Surface Mounting Bracket
-GS



Model	a (mm)	b (mm)	c (mm)
KRSC	25.7	22.4	35.6
KRMC	25.7	26.7	35.6
KRXLC	30.7	26.7	35.6

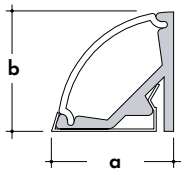
Stainless Steel Hard Surface Mounting Bracket
-HS



Model	a (mm)	b (mm)
KRSC	25.7	11.7
KRMC	25.7	16.3
KRXLC	30.7	16.3

Mounting Clip for K45RC

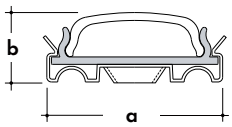
Stainless Steel Concealed Bracket
-CB



Model	a (mm)	b (mm)
K45RC	19.0	19.0

Mounting Clip for KLBC

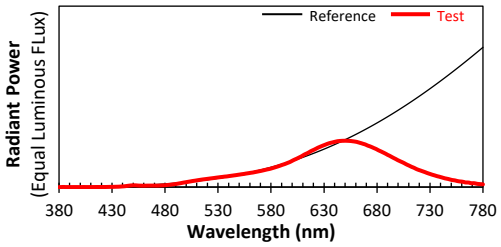
Stainless steel screw-in mounting bracket
-FC

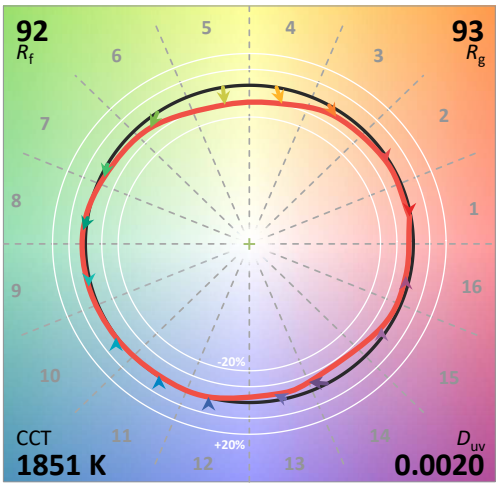


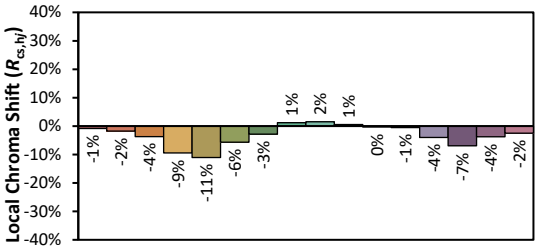
Model	a (mm)	b (mm)
KLBC	19.3	7.6

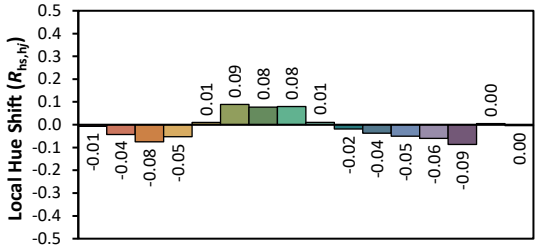
TM-30-18: Data

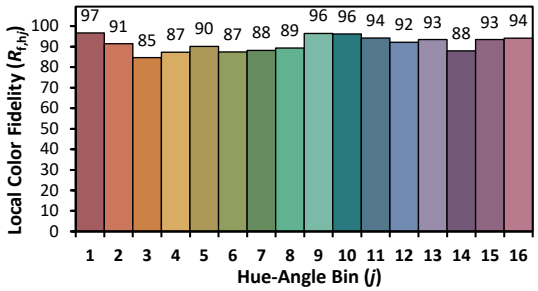
1800K (1 channel on)



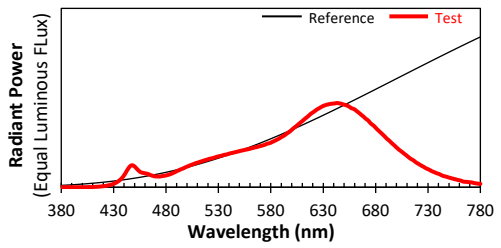


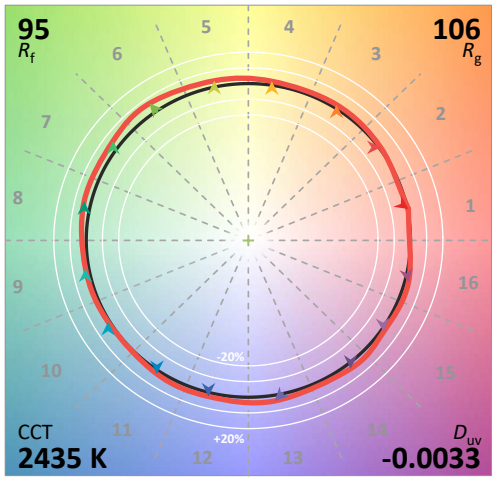


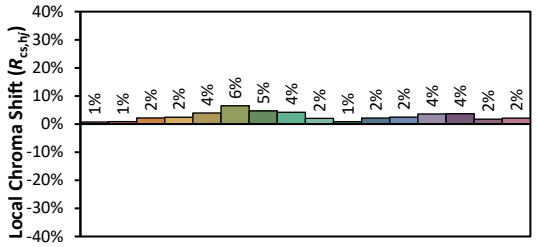


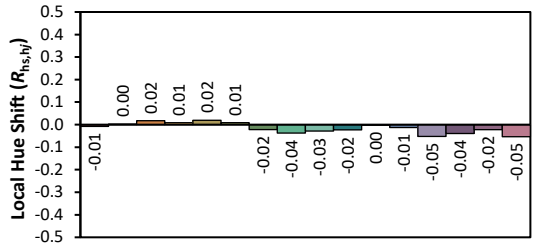


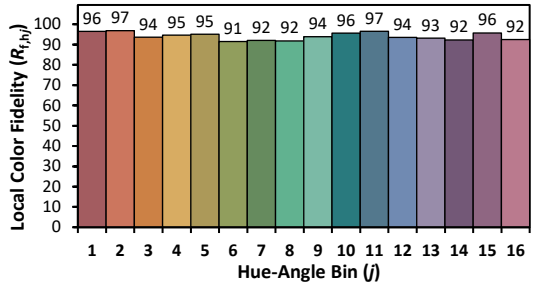
2400K (18K - 30K All on)







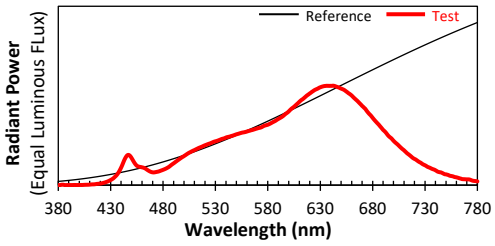


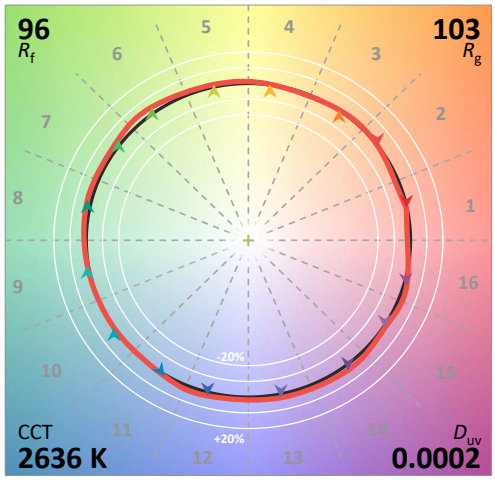


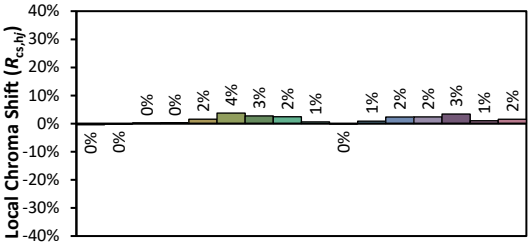
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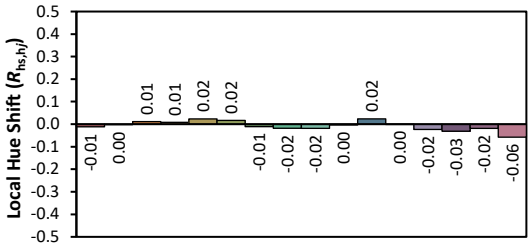
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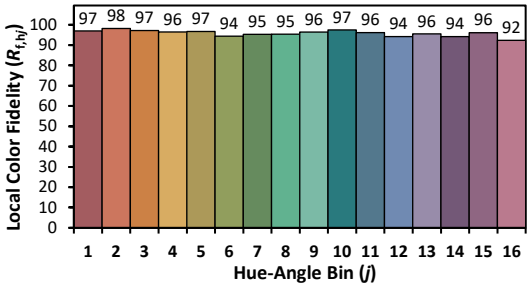
2700K (1 channel on)



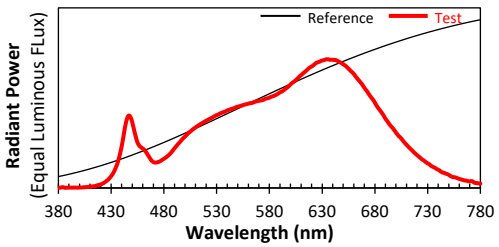


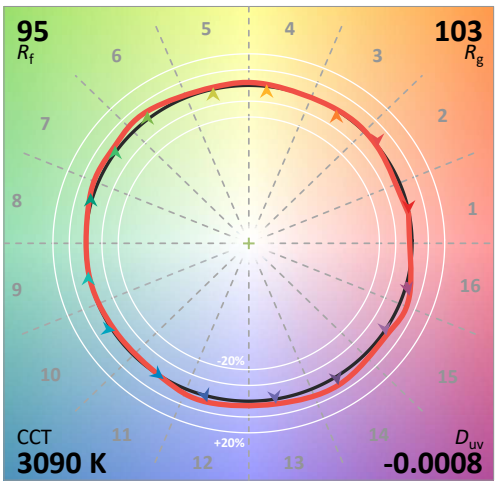


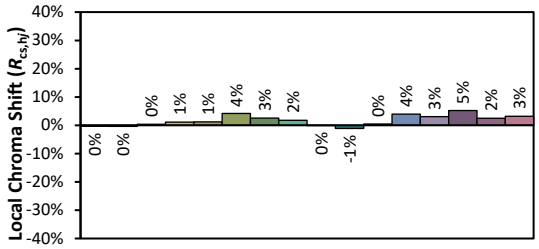


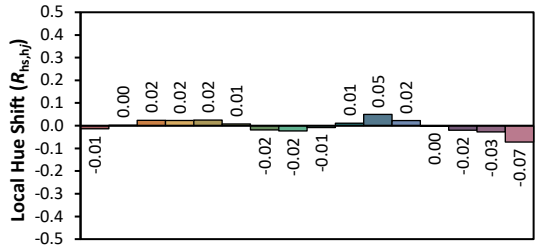


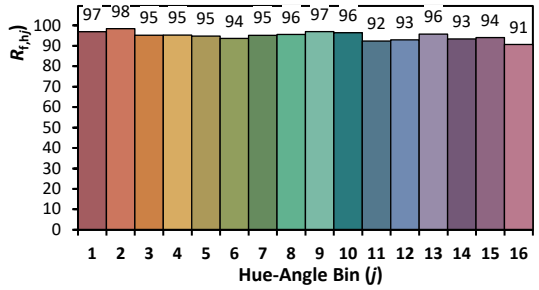
3000K (1 channel on)







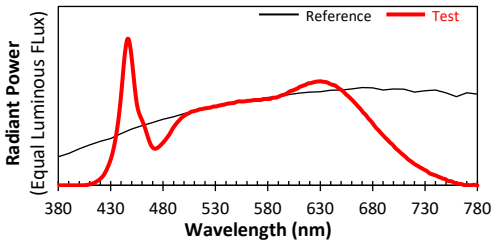


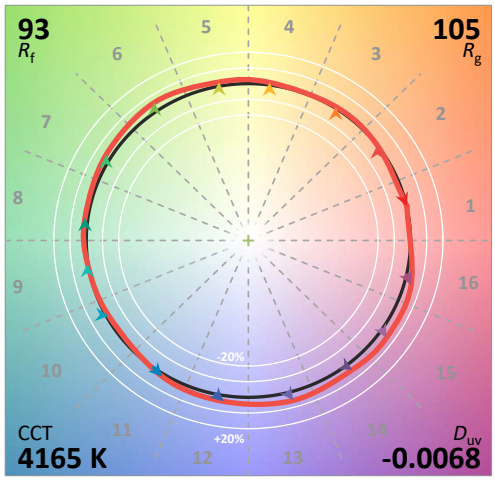


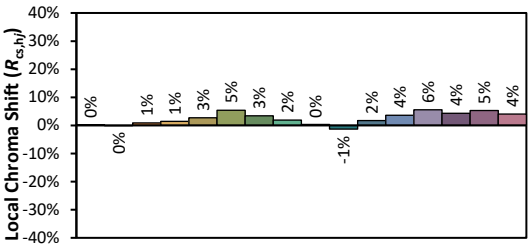
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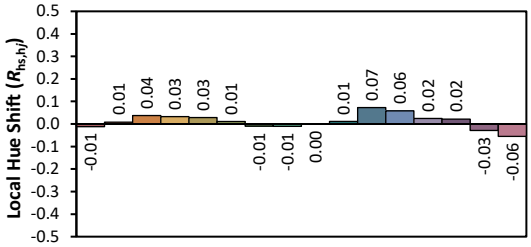
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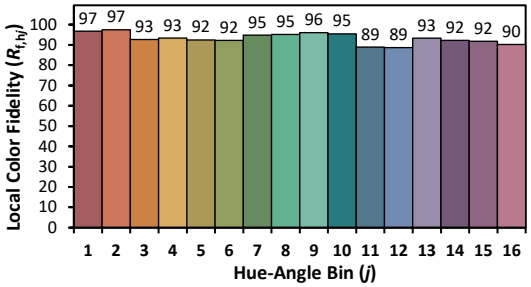
4200K (27K - 65K All on)



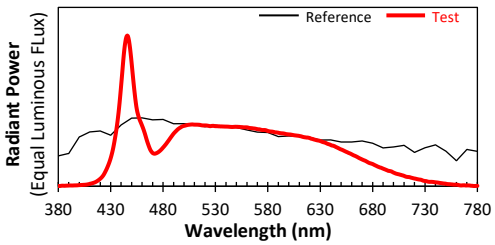


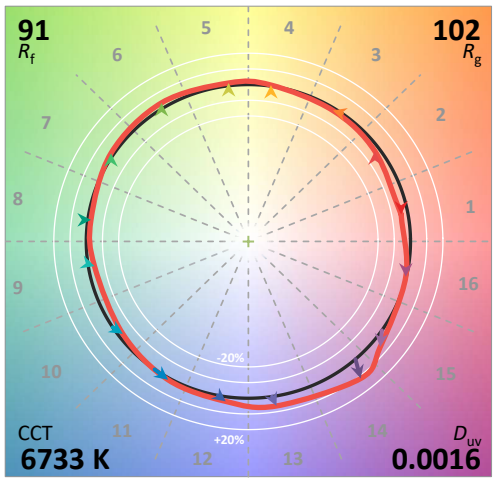


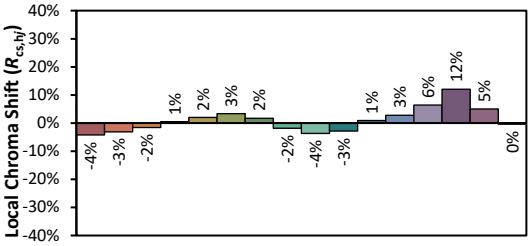


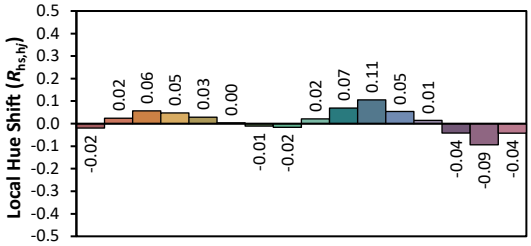


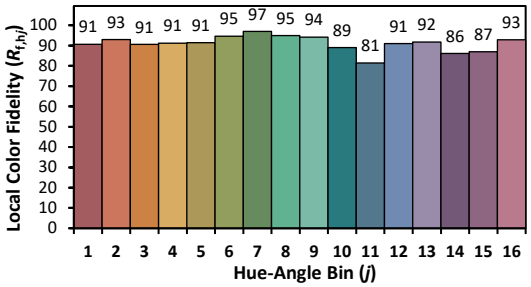
6500K (1 channel on)











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LineLED Tunable White Series LLTW168-IP20

Power Supplies for UK, EU, Middle East, Asia and Pacific

Tunable White - DALI 2| Remote | Constant Voltage

Input Voltage	230V AC I 50/60 Hz
Driver Type	Remote I Constant Voltage
Location	IP20 I Indoor Location Only
Dimming Control	DALI or DALI 2
Min. Dim Level	0.1%
Flicker	IEEE 1789 Compatible I No Observable Effect



MODELS	TYPE & CCT RANGE	75W	150W	240W
Order Code	DT6 1800-3000K	PSCV-75-24-18K30K-DT6-LT	PSCV-150-24-18K30K-DT6-LT	PSCV-240-24-18K30K-DT6-LT
	DT8 1800-3000K	PSCV-75-24-18K30K-DT8-LT	PSCV-150-24-18K30K-DT8-LT	PSCV-240-24-18K30K-DT8-LT
	DT6 2700-6500K	PSCV-75-24-27K65K-DT6-LT	PSCV-150-24-27K65K-DT6-LT	PSCV-240-24-27K65K-DT6-LT
	DT8 2700-6500K	PSCV-75-24-27K65K-DT8-LT	PSCV-150-24-27K65K-DT8-LT	PSCV-240-24-27K65K-DT8-LT
	Length (mm)	295	352	380
	Width (mm)	35	35	50
	Depth (mm)	30	30	30

DT8 is recommended for new DALI-2 compatible tunable white installations. DT8 uses one DALI address to provide native control of both brightness and colour temperature. DT6 is provided for legacy compatibility, where older DALI systems or third-party BMS platforms do not support DT8 colour control. DT6 tunable white control typically uses two DALI addresses/channels, with the control system mixing warm and cool outputs to achieve the required CCT.

Max Series Run Length and Voltage Drop

The maximum series run length must not be exceeded. LED strips must be cut and re-fed from the power supply if the required length exceeds this. Maximum series run lengths can be found on page 1 and vary per output.
Voltage drop must not exceed 3% between the PSU and start of the LED strip. Click or scan the QR code to visit our online voltage drop calculator.