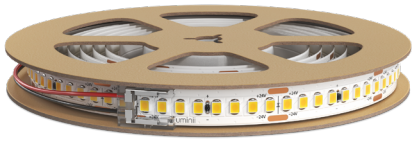
LineLED High Efficacy Series LLHE208-IP20



* MFG Model Number: LLHE64-XX

IP20

Features

The High Efficacy, LLHE208-IP20 series is a small form factor high performance constant voltage LED strip. Designed to deliver best in class efficacy while operating at low temperature, LLHE208-IP20 deliver constant light output, outstanding color consistency and dimming performance.

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

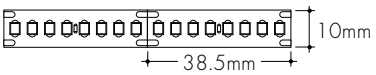
Average Life (L70)
50,000 hours

Warranty
7 years

Technical information

TYPE	LLHE208-IP20						
OUTPUT OPTIONS	**VLO**	**LO**	**SO**	**MO**	**HO**	**VHO**	**XHO**
Lumens Output (3000K)	466 lm/m	1010 lm/m	1447 lm/m	1923 lm/m	2733 lm/m	3747 lm/m	4511 lm/m
Average Power Consumption	3.0 W/m	6.2 W/m	9.2 W/m	12.1 W/m	17.7 W/m	23.3 W/m	29.2 W/m
Efficacy	155 lm/W	163 lm/W	157 lm/W	159 lm/W	154 lm/W	161 lm/W	154 lm/W
Cutting Increment (mm)	38.5 mm						
Pitch Length	4.8 mm						
Max Run Length (in series)	27.4 m	16.7 m	10.6 m	7.9 m	5.2 m	4.0 m	3.0 m
Dimensions	10 mm W x 2.3 mm H						
Ambient Operating Temperature Range*	- 20°C – 50°C				- 20°C – 45°C	- 20°C – 35°C	- 20°C – 30°C

*XHO 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	Multiplier (reference - 3000K)	TM-30 CRI	TM-30 R_f	TM-30 R_g	TM-30 R_9
2200K	0.74	94	91	96	65
2400K	0.87	94	92	97	56
2700K	0.97	94	92	100	57
3000K	1.00	93	91	99	54
3500K	1.01	95	91	99	62
4000K	1.04	95	91	99	68

Ordering code

MODEL		OUTPUT		CCT		REEL SIZE
	-		-		-	
LLHE208-IP20 - LineLED High Efficacy, Dry Location		**VLO** - Very Low **LO** - Low **SO** - Standard **MO** - Medium **HO** - High **VHO** - Very High **XHO** - Extreme		**22K** - 2200K **24K** - 2400K **27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K		**R10m** - Reel, 10 meter

Output

CCT	Multiplier	LLHE208-IP20						
		VLO (lm/m)	LO (lm/m)	SO (lm/m)	MO (lm/m)	HO (lm/m)	VHO (lm/m)	XHO (lm/m)
2200K	0.74	345	747	1071	1423	2022	2773	3338
2400K	0.87	405	879	1259	1673	2378	3260	3925
2700K	0.97	452	980	1404	1865	2651	3635	4376
3000K	1	466	1010	1447	1923	2733	3747	4511
3500K	1.01	471	1020	1461	1942	2760	3784	4556
4000K	1.04	485	1050	1505	2000	2842	3897	4691

Lifetime and Environmental

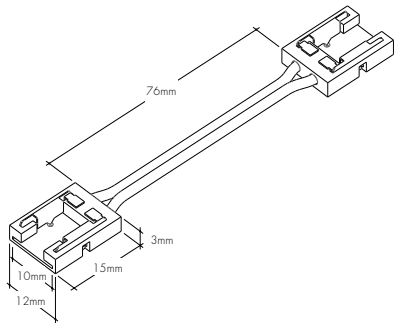
At Luminii, we design our LED strip systems with longevity and responsible material use in mind. Our products are engineered to be serviceable and adaptable, with modular components such as drivers and controls that can be replaced or upgraded without full system replacement.
We are actively reducing 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	48.6 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

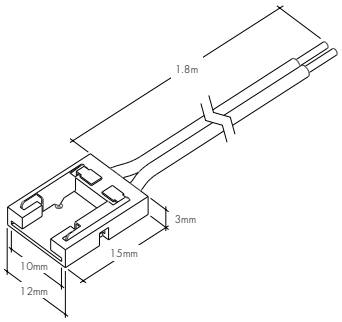
Minii Connectors

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

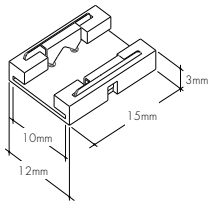
LL-PJC-10
Jumper minii connector with 76mm wire for LLHE208-IP20 LED strip



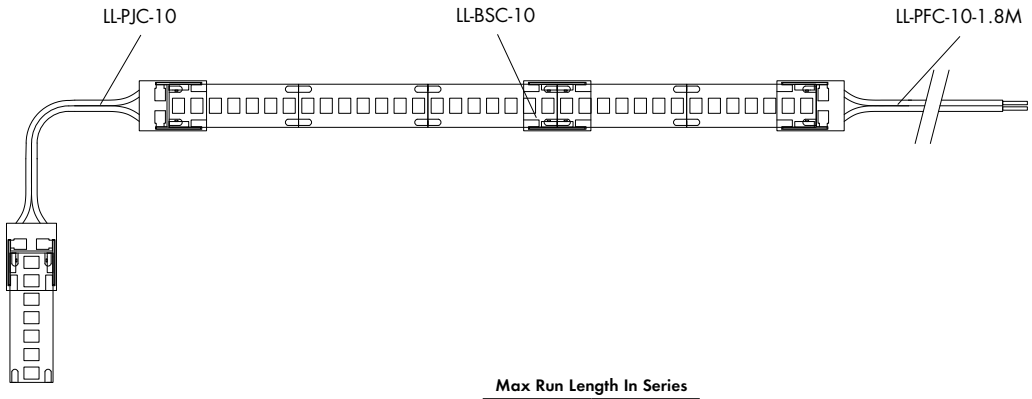
LL-PFC-10-1.8M
Power feed minii connector with 1.8m wire for LLHE208-IP20 LED strip



LL-BSC-10
Butt splice minii connector for LLHE208-IP20 LED strip



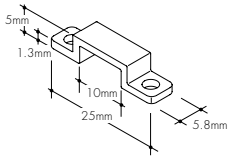
Sample Layout



	Max Run Length In Series	
LLHE208 OUTPUT	**Continuous Strip**	**Strip to strip with Minii**
VLO	27.4	27.4
LO	16.7	16.7
SO	10.6	10.6
MO	7.9	7.9
HO	5.2	5.2
VHO	4.0	4.0
XHO	3.0	3.0

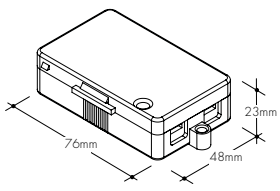
Accessories

CL1
Mounting clip

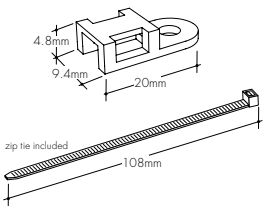


Recommended every 300mm when LineLED strip is facing down

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



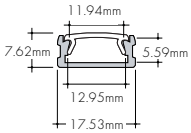
LL-ZIP
Cable/Wire Strain Relief Clip



Lens Options / Light Transmission

KS CHANNEL -KSC





Ordering code

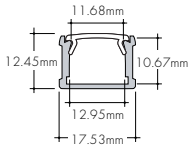
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KSC - KS Channel	2M - 2 metre	C - Clear F - Frosted	FC - Fixed Clip FC45 - Fixed Clip 45°	SA - Silver Anodized

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

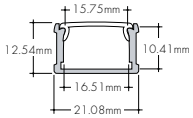
1 - Extrusion comes with 3 selected clips and 2 end caps.

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

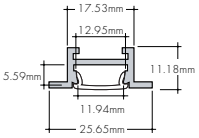
1 - Extrusion comes with 3 selected clips and 2 end caps.

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

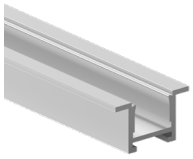
SD - Slight Dotting

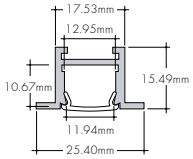
ND - No Dotting

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

Lens Options / Light Transmission

KRM CHANNEL -KRMC





Compatible with
- Minii connectors

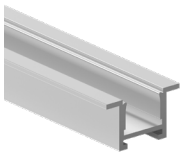
Ordering code

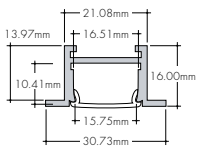
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KRMC - KRM Channel	2M - 2 metre	C - Clear F - Frosted	HS - Hard Surface Mounting Bracket GS - Gypsum Surface Mounting Bracket	SA - Silver Anodized

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

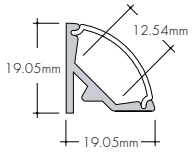
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
KRXLC - KRXL Channel	2M - 2 metre	C - Clear F - Frosted	HS - Hard Surface Mounting Bracket GS - Gypsum Surface Mounting Bracket	SA - Silver Anodized

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

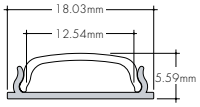
MODEL	LENGTH	LENS	MOUNTING[1]	FINISH
K45RC - K45R Channel	2M - 2 metre	RF - Round Frosted	CB - Concealed Bracket	SA - Silver Anodized

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

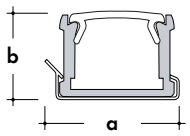
SD - Slight Dotting

ND - No Dotting

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

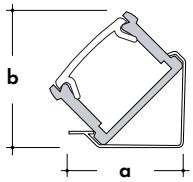
Mounting Clips for KSC, KMC and KLXC

Fixed mounting clip
-FC



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

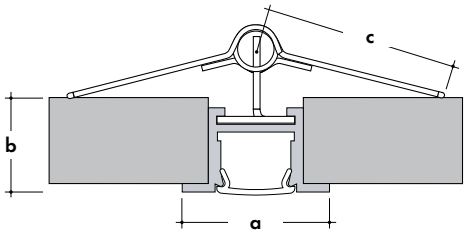
Fixed mounting clip 45°
-FC45



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

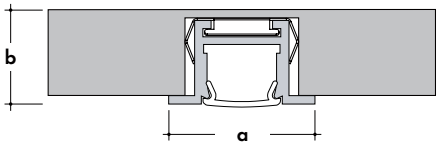
Mounting Clips for KRSC, KRMC and KRXLC

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

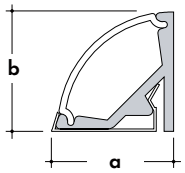
Stainless Steel Hard Surface Mounting Bracket
-HS



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

Mounting Clip for K45RC

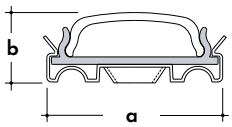
Stainless Steel Concealed Bracket
-CB



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

Mounting Clip for KLBC

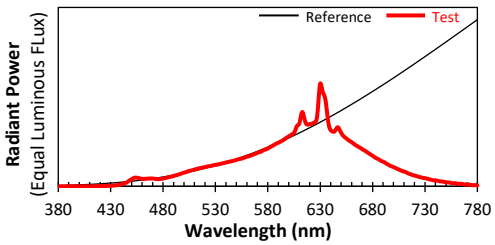
Stainless steel screw-in mounting bracket
-FC

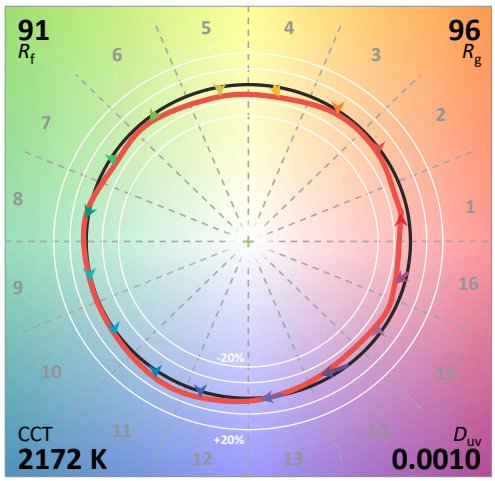


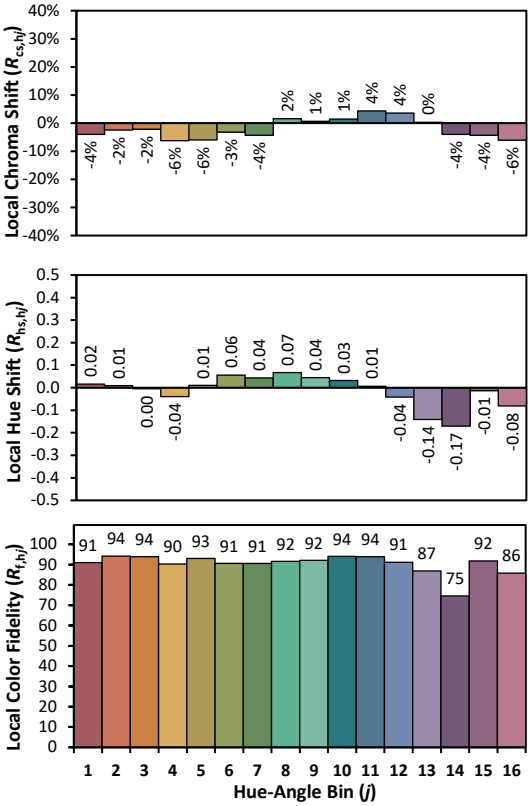
Model	a (mm)	b (mm)
KLBC	19.3	7.6

TM-30-15: Data

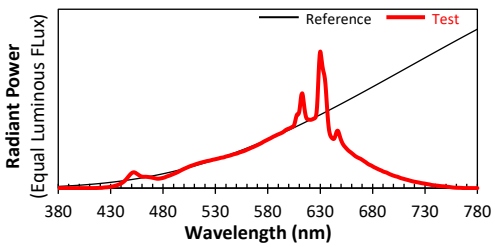
2200K

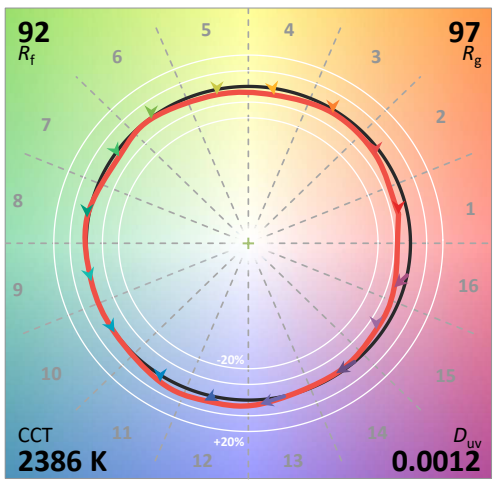


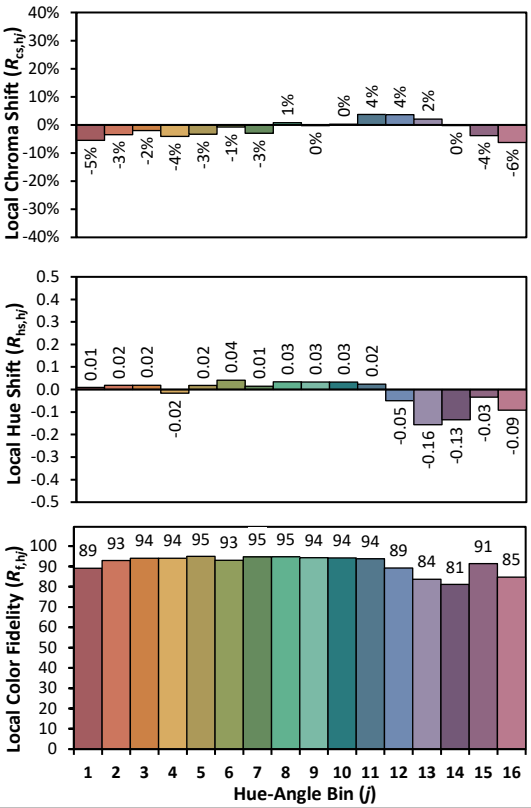




2400K



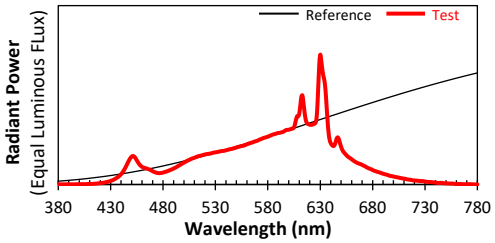


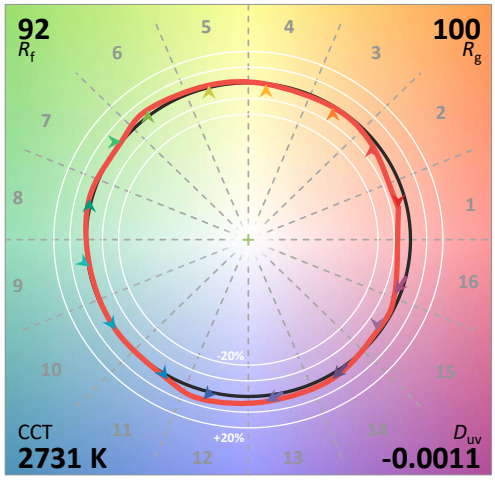


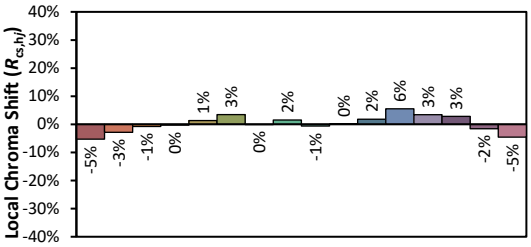
*LUMINII RESERVES THE RIGHTS TO CHANGE SPECIFICATION & INSTRUCTION WITHOUT NOTICE

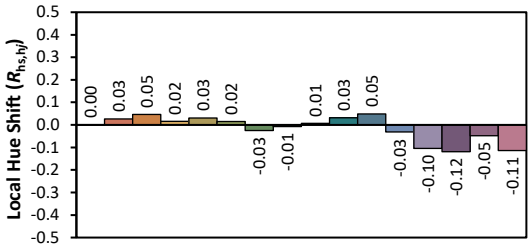
TM-30-15: Data

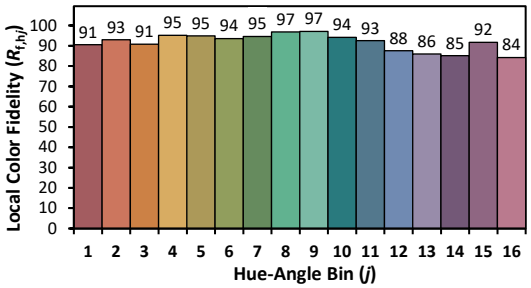
2700K



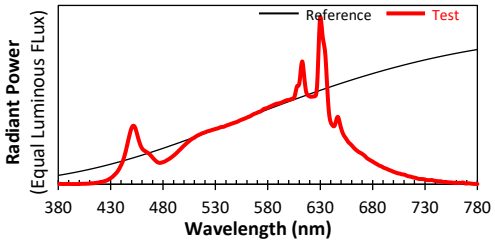


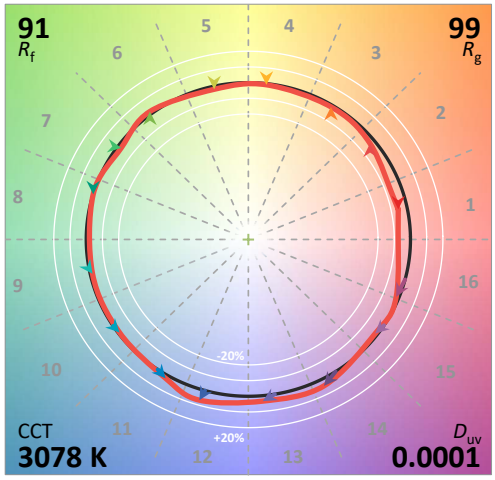


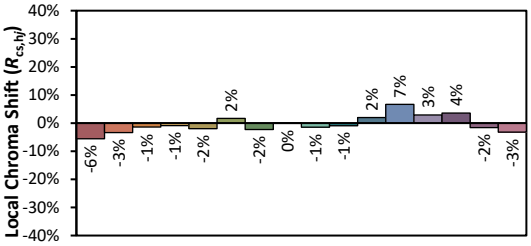


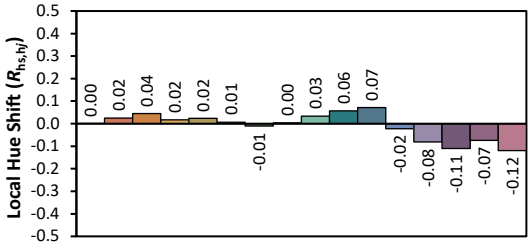


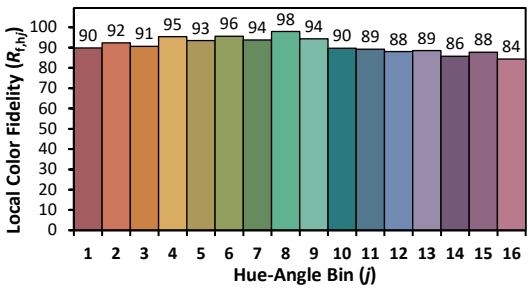
3000K





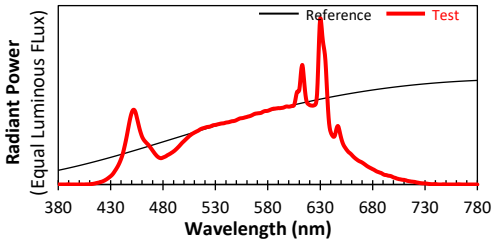


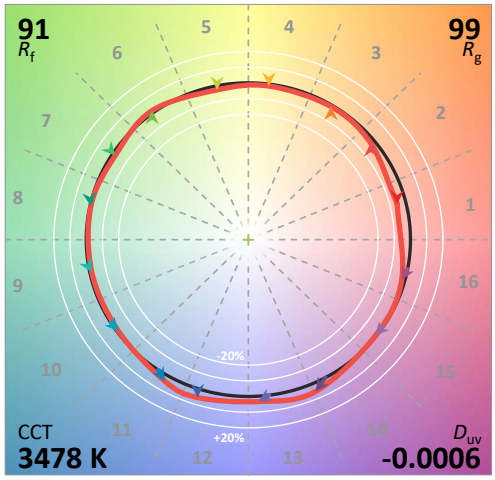


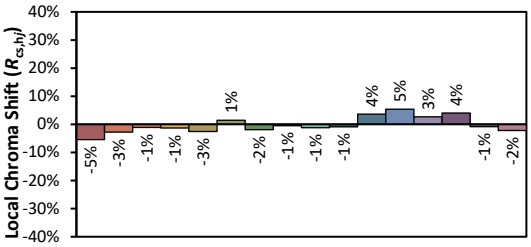


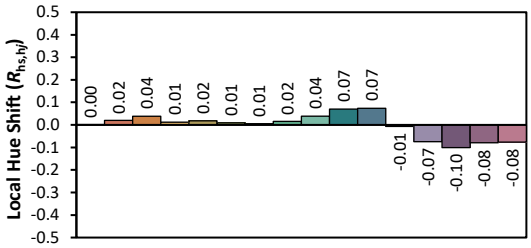
TM-30-15: Data

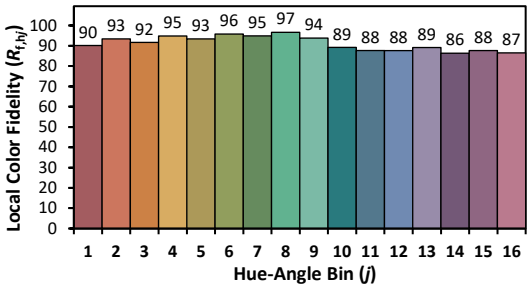
3500K



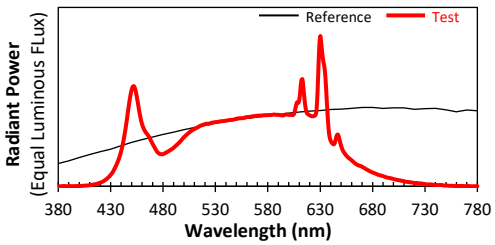


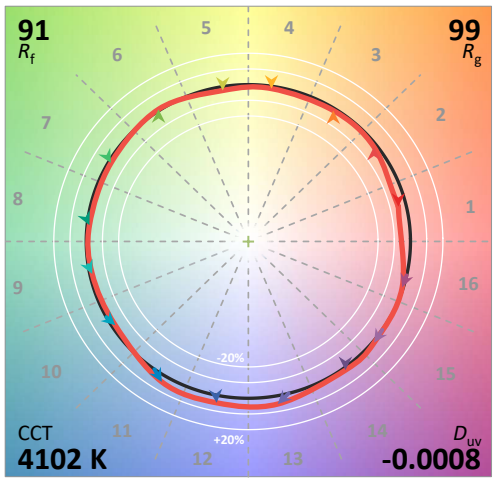


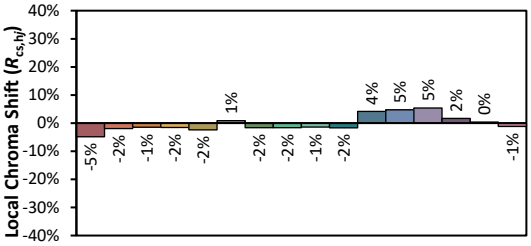


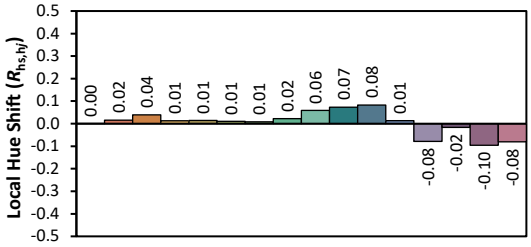


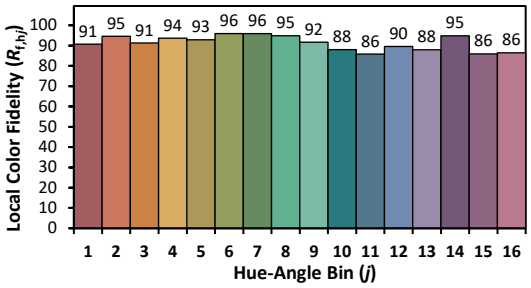
4000K











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

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

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 2
Min. Dim Level	0.1%
Flicker	IEEE 1789 Compatible I No Observable Effect



MODELS	40W	75W	150W	240W
Order Code	PSCV-40-24-D-EU	PSCV-75-24-D-EU	PSCV-150-24-D-EU	PSCV-240-24-D-EU
Length (mm)	185	295	295	360
Width (mm)	40	40	40	40
Depth (mm)	30	30	30	30

0-10V| 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	0-10V
Min. Dim Level	0.1%
Flicker	IEEE 1789 Compatible I No Observable Effect



MODELS	40W	75W	150W	240W
Order Code	PSCV-40-24-A-EU	PSCV-75-24-A-EU	PSCV-150-24-A-EU	PSCV-240-24-A-EU
Length (mm)	185	295	295	360
Width (mm)	40	40	40	40
Depth (mm)	30	30	30	30

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.