LineLED Dynamic Color Series LLRGB140-IP20



* MFG Model Number: LLRGB42-XX

RGB

Features

LLRGB140-IP20 is a small profile, bright, color-changing LED strip. Increased pitch provides more continuous light, while a High Output option offers incredible brightness. Luminii attention to color quality provides balanced output across the color gamut, allowing production of millions of beautiful colors.

Mounting
LLED strip is equipped with 3M™ adhesive transfer tape (9472LE).

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

Approvals
CE, UKCA, UL, Class 2

Operating voltage
24 VDC

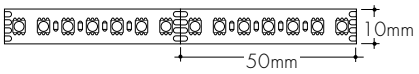
Average Life (L70)
50,000 hours

Warranty
7 years

Technical information

TYPE	LLRGB140-IP20	
OUTPUT OPTIONS	**SO**	**HO**
Lumens Output (all channels full on)	689 lm/m	1014 lm/m
Average Power Consumption	14.8 W/m	27.2 W/m
Cutting Increment (mm)	50 mm	
Pitch Length	7.0 mm	
Efficacy	47 lm/W	37 lm/W
Max Run Length (in series)	8.5 m	4.0 m
Dimensions	10 mm W x 1.8 mm H	
Ambient Operating Temperature Range*	- 20°C – 50°C	- 20°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 inquires.



Dominant Wavelength		LLRGB140-IP20SO	LLRGB140-IP20HO
Red	620 nm	161 lm/m	318 lm/m
Green	525 nm	463 lm/m	804 lm/m
Blue	467 nm	105 lm/m	200 lm/m

Ordering code

MODEL		OUTPUT		REEL SIZE
	-		-	
LLRGB140-IP20 - Line LED Dynamic Color, Dry Location		SO - Standard HO - High		R10m - Reel, 10 meter

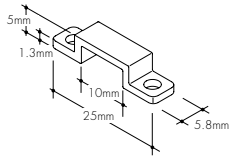
Lifetime and Environmental

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	46.2 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

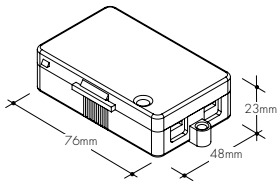
Accessories

CL1
Mounting clip

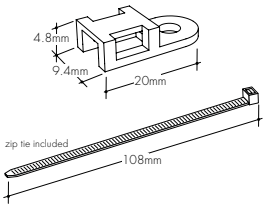


Recommended every 300mm when LineLED strip is facing down

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



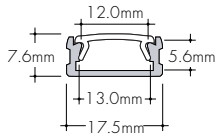
LL-ZIP
Cable/Wire Strain Relief Clip



Lens Options / Light Transmission



KS Channel (KSC-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

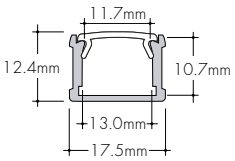
1 - Extrusion comes with 4 selected clips and 2 end caps.

Lens	Clear	Half Frosted	Frosted
Transmission %	90%	71%	56%
Dotting*	CD	CD	CD

*At 100% brightness



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

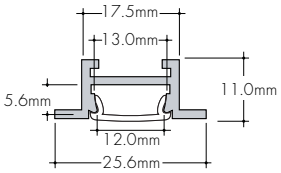
1 - Extrusion comes with 4 selected clips and 2 end caps.

Lens	Clear	Half Frosted	Frosted
Transmission %	82%	65%	51%
Dotting*	CD	CD	ND

*At 100% brightness



KRS Channel (KRSC-XX)



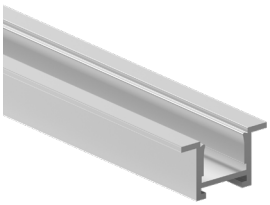
Ordering code

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

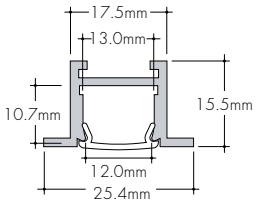
1 - Extrusion comes with 4 selected clips and 2 end caps.

Lens	Clear	Half Frosted	Frosted
Transmission %	90%	71%	56%
Dotting*	CD	CD	CD

*At 100% brightness



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.

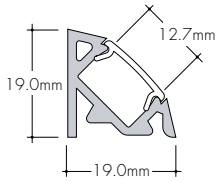
Lens	Clear	Half Frosted	Frosted
Transmission %	82%	65%	51%
Dotting*	CD	CD	ND

*At 100% brightness

Lens Options / Light Transmission



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

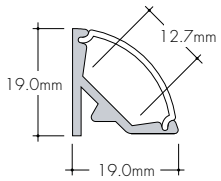
1 - Extrusion comes with 4 selected clips and 2 end caps.

Lens	Clear	Half Frosted	Frosted
Transmission %	82%	65%	51%
Dotting*	CD	CD	ND

*At 100% brightness



K45R Channel (K45R-XX)



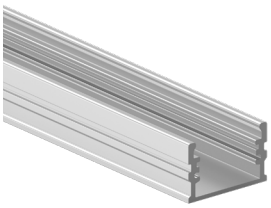
Ordering code

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

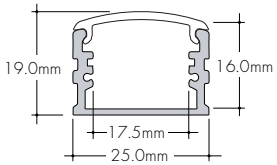
1 - Extrusion comes with 4 selected clips and 2 end caps.

Lens	Round Frosted
Transmission %	65%
Dotting*	ND

*At 100% brightness



Basics X-Large Channel (BXC-XX)



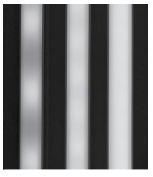
Ordering code

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.

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

LineLED Dynamic Color Series LLRGB140-IP20

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

RGB / RGBW - DALI / DMX| 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 / DMX Selectable
Min. Dim Level	0.1%
Flicker	IEEE 1789 Compatible I No Observable Effect



MODELS	100W
Order Code	PSCV-100-24-D-EL
Length (mm)	388
Width (mm)	42
Depth (mm)	30

PSU can be configured for either DALI or DMX control. It is intended for colour-changing products with separately controllable red, green, blue and optional white channels. This PSU is not suitable for pixel-control products, where individual LEDs or sections of the strip require separate addressable control.

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.