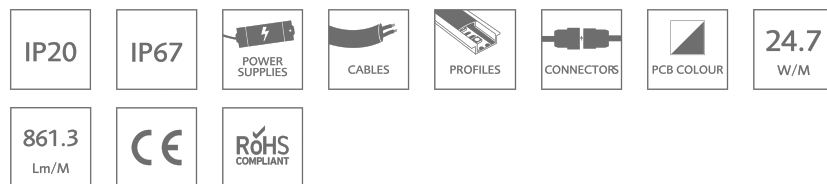


# RGB 120 ULTRA - BRIGHT

SPECIFICATION SHEET



## ■ PRODUCT SPECIFICATION

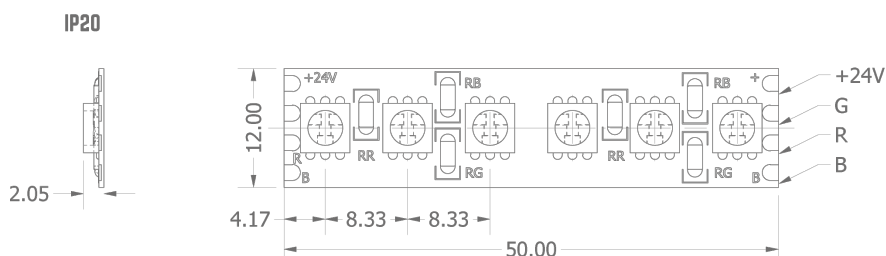
Dimension	L5000/W10mm
PCB increment	Power connection and cut point every 50mm
LED pitch	8.33mm
Chip	Epistar
Beam angle	120°
Colours	RGB
Bin/step	3 Step MacAdam ellipse
CRI	34.0
Lifetime	50000hrs@45°
Operating temp.	0 - 50°C
IP rating	IP20/67
Mounting	3M adhesive tape
Minimum bend radius	10mm
Connection	Hardwire tails or male/female connectors
Control	0-10V/1-10V/DMX/DALI



## ■ PERFORMANCE DATA (for 1000mm)

Power consumption	24.7W
Supply voltage	24V DC
Supply current	1.029A
Luminous flux	861.3Lm/M

## TECHNICAL DRAWING



## ■ PRODUCT DETAILS

Product name	RGB 120 ULTRA BRIGHT
Stated output	861.3lm per metre
Description	Flexible LED Tape, , 24V, 24.7W/m
Quantity/length of product tested	1 x 1000mm
Bin tolerance/#. MacAdams ellipse of chip	3 Step MacAdam ellipse

## ■ ELECTRICAL CHARACTERISTICS

Input Voltage (V DC)	24
Input power (WDC)	24.7
Input Current (mA DC)	1029mA

## ■ LIGHT OUTPUT

Total light output (Lumens)	861.3
Luminaire efficacy (lm/W)	34.87
Beam angle	120°

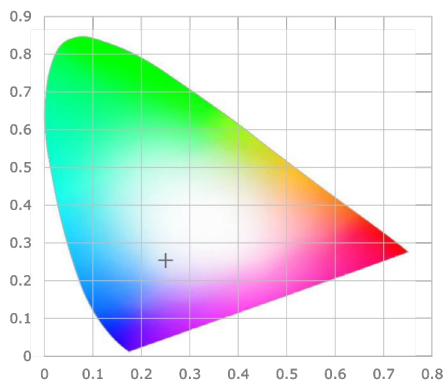
## ■ COLOUR CHARACTERISTICS

Correlated colour temperature (CCT)	18930K
Colour rendering index (CRI, Ra)	34.0
Chromaticity coordinates (CIE 1931 - x,y)	0.2519, 0.2654

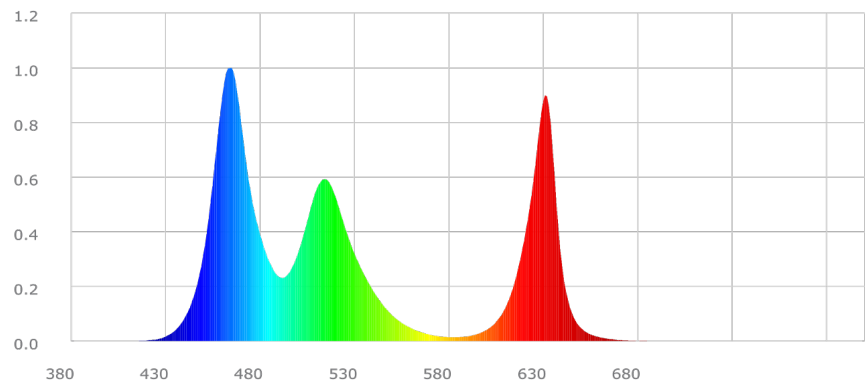
## COLOUR RENDERING INDEX

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
15	49	62	33	39	46	48	-19	-26	-26	19	56	20	74	-3

## CHROMATICITY DIAGRAM



## SPECTRAL RADIANT FLUX VERSUS WAVELENGTH



## ■ PRODUCT DETAILS

Product name	RGB 120 ULTRA BRIGHT
Stated output	236.7lm per metre
Description	Flexible LED Tape, RED, 24V, 8.64W/m
Quantity/length of product tested	1 x 1000
Bin tolerance/#. MacAdams ellipse of chip	-

## ■ ELECTRICAL CHARACTERISTICS

Input Voltage (V DC)	24
Input power (WDC)	8.64
Input Current (mA DC)	360mA

## ■ LIGHT OUTPUT

Total light output (Lumens)	236.7
Luminaire efficacy (lm/W)	27.4
Beam angle	120°

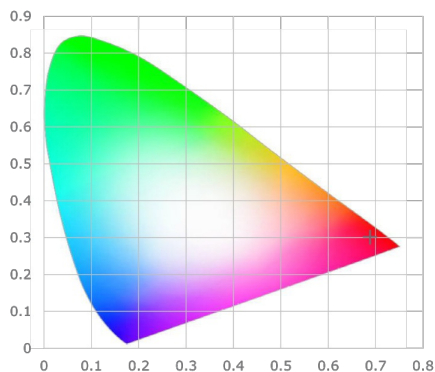
## ■ COLOUR CHARACTERISTICS

Correlated colour temperature (CCT)	1000K
Colour rendering index (CRI, Ra)	15.3
Chromaticity coordinates (CIE 1931 - x,y)	0.6933, 0.3055

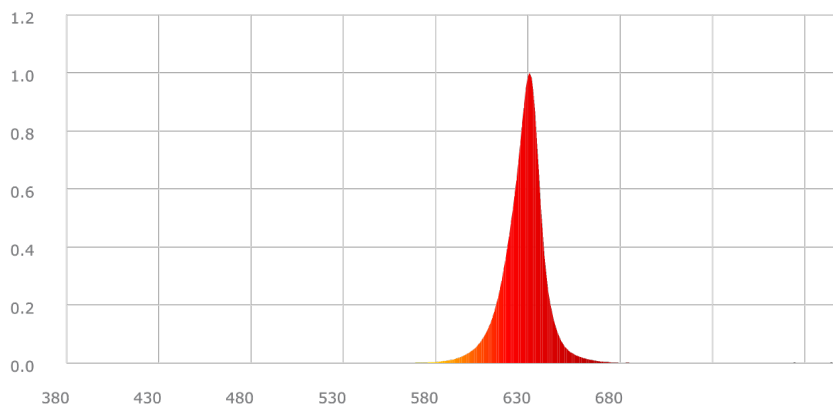
## COLOUR RENDERING INDEX

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
6	76	33	-22	5	92	2	-69	-22	70	-10	79	28	61	-33

## CHROMATICITY DIAGRAM



## SPECTRAL RADIANT FLUX VERSUS WAVELENGTH



## ■ PRODUCT DETAILS

Product name	RGB 120 ULTRA BRIGHT
Stated output	449.4lm per metre
Description	Flexible LED Tape, GREEN, 24V, 8.47W/m
Quantity/length of product tested	1 x 1000
Bin tolerance/#. MacAdams ellipse of chip	-

## ■ ELECTRICAL CHARACTERISTICS

Input Voltage (V DC)	24
Input power (WDC)	8.47
Input Current (mA DC)	353mA

## ■ LIGHT OUTPUT

Total light output (Lumens)	449.4
Luminaire efficacy (lm/W)	53.06
Beam angle	120°

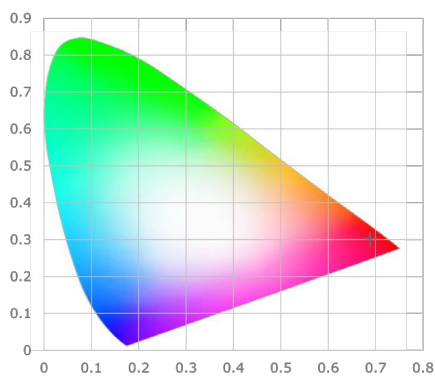
## ■ COLOUR CHARACTERISTICS

Correlated colour temperature (CCT)	8744K
Colour rendering index (CRI, Ra)	-24.8
Chromaticity coordinates (CIE 1931 - x,y)	0.1279, 0.6990

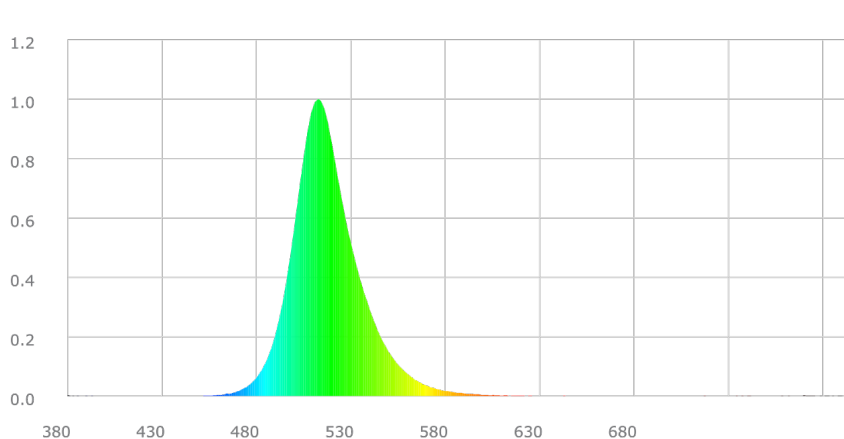
## COLOUR RENDERING INDEX

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
-28	-11	-33	-66	-3	-15	-9	-23	-33	-11	-90	-26	-39	34	-24

## CHROMATICITY DIAGRAM



## SPECTRAL RADIANT FLUX VERSUS WAVELENGTH



## ■ PRODUCT DETAILS

Product name	RGB 120 ULTRA BRIGHT
Stated output	101lm per metre
Description	Flexible LED Tape, BLUE, 24V, 8.12W/m
Quantity/length of product tested	1 x 1000
Bin tolerance/#. MacAdams ellipse of chip	-

## ■ ELECTRICAL CHARACTERISTICS

Input Voltage (V DC)	24
Input power (WDC)	8.12
Input Current (mA DC)	338mA

## ■ LIGHT OUTPUT

Total light output (Lumens)	101
Luminaire efficacy (lm/W)	12.44
Beam angle	120°

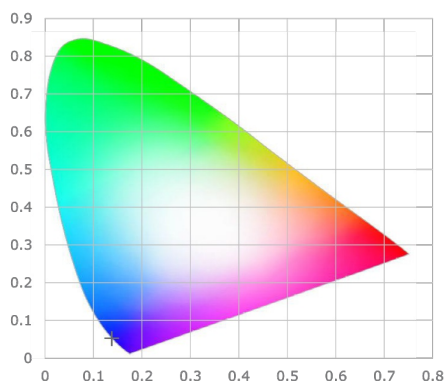
## ■ COLOUR CHARACTERISTICS

Correlated colour temperature (CCT)	10000K
Colour rendering index (CRI, Ra)	-52.8
Chromaticity coordinates (CIE 1931 - x,y)	0.1411, 0.0461

## COLOUR RENDERING INDEX

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
-10	-48	-14	-83	2	-56	-47	-31	-26	-24	-11	-11	-31	-32	8

## CHROMATICITY DIAGRAM



## SPECTRAL RADIANT FLUX VERSUS WAVELENGTH

