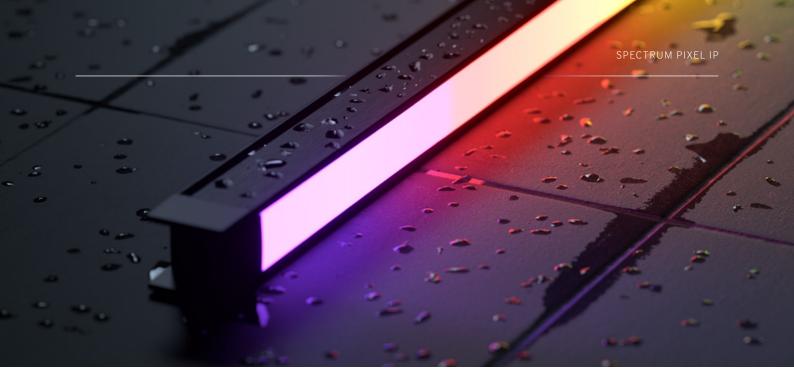


# SPECTRUM PIXEL IP





Spectrum Pixel IP is a compact and versatile exterior colour changing luminaire with pixel control. The luminaire features dynamic control, with individually addressable 88mm pixels.

The profile is fully encapsulated with polyurethane resin, ensuring superior longevity in outdoor environments. The clear encapsulation option is ideal for indirect lighting applications where the light source is obscured from view, while the translucent version is perfect for direct view applications.

POWER	PROFILE	
10W/METRE		
	P20T	P20C

RGBW FULL COLOUR



# **RGBW COLOURS**

Spectrum Pixel IP offers full gamut RGBW colour ideal for decorative application and dazzling effects.

# ELEGANT ENCAPSULATION

Spectrum Pixel IP utilises Coolon's encapsulation technology to deliver a truly extraordinary outdoor luminaire. IP66, IK08, shock and abrasion resistance, thermal protection, and dashingly good looks, all in one.



## LONG USEFUL OPERATING LIFE

Coolon products use the world's most reputable LED manufacturers and the latest available standards to adequately report lumen maintenance. We strive to drive LEDs under their nominal current and use state-of-the-art heat dissipation methods, leading to durable electronics.



# FLEXIBLE COLOUR MIXING VARIATIONS

Quad-chip LEDs provide spectacular colour mixing. Our high performance and superior quality LEDs have the ability to produce 16.7 million colours.



# 5 YEARS WARRANTY

Coolon luminaires are covered by a solid comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



# PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.



# TECHNICAL SPECIFICATIONS

Product Code	STR-SPECTRUM PIXEL IP
Description	Spectrum Pixel IP LED Strip
Body	Aluminium Alloy Body
Finish	Powder Coated White (Standard), Various Colours Available
Cover	Polyurethane
End Caps	Polycarbonate
Sub-Segment Length (PIXEL)	88mm
LED Pitch	14.66mm
LEDs Per Sub Segment	6
Operating Voltage	24VDC Nominal, 21VDC absolute minimum (See Lumen Output Impact from Voltage Drop section)
Typical Power Consumption per Sub-Segment	0.88W
Typical Power Consumption	10W per Metre
Typical LED Current	Red - 17mA Green - 17mA Blue - 17mA White - 17mA
Colour Rendering Index (CRI)	85 (Static White Only)
Control	DMX Through CTR-RDM PIXEL NEO
Effective Beam Angle	116° for P20T, 67° for P20C
External Heatsink Required	No
Ambient Operating Temp	Ta -40°C to 50°C
Average Lumen Maintenance @Ta 25°C	>70% @ 50,000 Hours
IP Rating	IP66
IK Rating	IK08
	Cable exit / entry not part of the IK Rating test
Typical Wavelength or Colour Temperature CCT	■ Red - 624nm ■ Green - 527nm ■ Blue - 468nm □ White - 4000K (+/- 200K)

## POWER & LUMEN OUTPUT

		LUMEN / METRE			
	POWER / METRE	P20C-WHT	P20T-WHT	P20C-BLK	P20T-BLK
U White	6W	319 Im per Metre	163 Im per Metre	124 Im per Metre	63 Im per Metre
Red	6W	122 Im per Metre	56 lm per Metre	50 lm per Metre	23 Im per Metre
Green	6W	268 Im per Metre	117 Im per Metre	103 lm per Metre	45 lm per Metre
Blue	6W	67 lm per Metre	25 Im per Metre	29 Im per Metre	11 Im per Metre
Yellow	10W	317 Im per Metre	141 Im per Metre	125 lm per Metre	55 lm per Metre
Magenta	10W	154 lm per Metre	66 lm per Metre	64 lm per Metre	27 Im per Metre
Cyan	10W	269 Im per Metre	117 Im per Metre	106 lm per Metre	45 Im per Metre

 LUMEN OUTPUT IMPACT FROM VOLTAGE DROP





Ø3.5mm

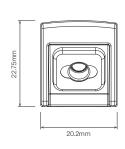
## DIMENSIONS

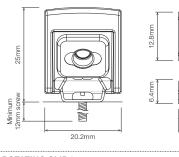
For final strip lengths please refer to the "Product Length" table.

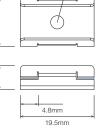
0			]
31mm Cable Exit and End Cap Allowance	88mm Sub Segment	→ 4.66mm LED Pitch	31mm End Caps Allowance
*	471mm Segment	*	
le.	502mm Final Strip Length		~

#### STANDARD PROFILE

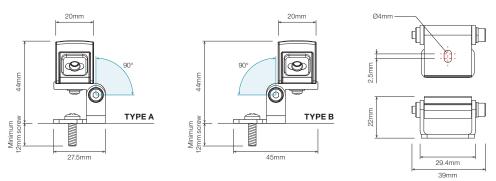
WITH STAINLESS STEEL C-CLIP 1



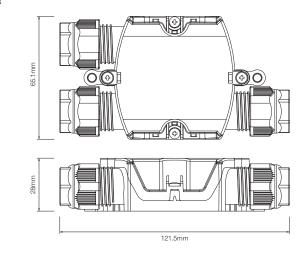




ROTATING MOUNTING BRACKET, TYPE A/B ROTATING CLIP 1



POWER INJECTOR



<sup>1</sup> Recommended spacing between Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.



Click on the download icon to view more information regarding mounting and rebate suggestions.



### PRODUCT LENGTH

FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
SO	A1	88mm	add 62mm	150mm
SO	A2	176mm	add 62mm	238mm
SO	A3	264mm	add 62mm	326mm
SO	A4	352mm	add 62mm	414mm
S1	AO	440mm	add 62mm	502mm
S1	A1	528mm	add 62mm	590mm
S1	A2	616mm	add 62mm	678mm
S1	A3	704mm	add 62mm	766mm
S1	A4	792mm	add 62mm	854mm
S2	AO	880mm	add 62mm	942mm
S2	A1	968mm	add 62mm	1,030mm
S2	A2	1,056mm	add 62mm	1,118mm
S2	A3	1,144mm	add 62mm	1,206mm
S2	A4	1,232mm	add 62mm	1,294mm
S3	AO	1,320mm	add 62mm	1,382mm
S3	A1	1,408mm	add 62mm	1,470mm
S3	A2	1,496mm	add 62mm	1,558mm
S3	A3	1,584mm	add 62mm	1,646mm
S3	A4	1,672mm	add 62mm	1,734mm
S4	AO	1,760mm	add 62mm	1,822mm
S4	A1	1,848mm	add 62mm	1,910mm
S4	A2	1,936mm	add 62mm	1,998mm
S4	A3	2,024mm	add 62mm	2,086mm
S4	A4	2,112mm	add 62mm	2,174mm
S5	AO	2,200mm	add 62mm	2,262mm
S5	A1	2,288mm	add 62mm	2,350mm
S5	A2	2,376mm	add 62mm	2,438mm
S5	A3	2,464mm	add 62mm	2,526mm
S5	A4	2,552mm	add 62mm	2,614mm
S6	AO	2,640mm	add 62mm	2,702mm
S6	A1	2,728mm	add 62mm	2,790mm
S6	A2	2,816mm	add 62mm	2,878mm
S6	A3	2,904mm	add 62mm	2,966mm
S6	A4	2,992mm	add 62mm	3,054mm

Confirm interstate courier compliance

· Custom length subject to availability







P20T · P20 Profile Diffused



P20C · P20 Profile Clear





Profile colour applicable to P20 only.

**BLK** · Black



 $\textbf{CST} \boldsymbol{\cdot} \textbf{Custom Colour ^1}$ 







<sup>1</sup> Custom colours available on request.

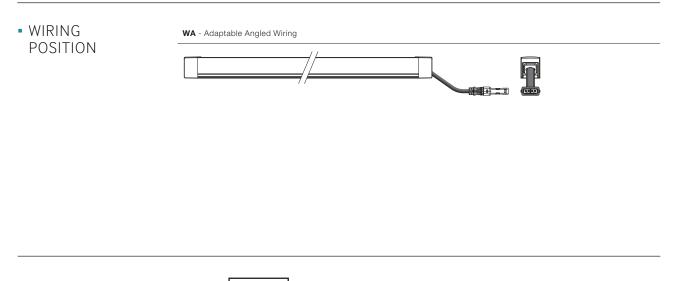


# WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	MALE IN	FEMALE OUT
FC4MF Outdoor Connector 4 pin Male + Female		<ul> <li>DATA</li> <li>+ 24V</li> <li>NC</li> <li>– GND</li> </ul>	<ul> <li>DATA</li> <li>+ 24V</li> <li>NC</li> <li>– GND</li> </ul>

Please consult Coolon for details on extension cables between LED fittings, drivers and PSUs.

WIRING COLOUR CODE		
Brown	Data	
Red	Positive / + 24V	
Orange	Not Connected	
Yellow	Negative / Ground	



# IP RATING



Fully protected against dust. Protected against wave-like water jets from all directions.



# INSTALLATION LIMITS

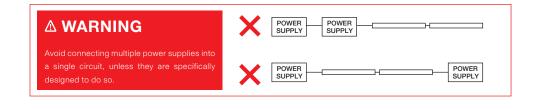
SCENARIO 1	MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE		
SCENARIO 2	SUPPLY	PIXEL NEO ONTROLLER	 X	1 
SCENARIO 1	POWER SUPPLY C	PIXEL NEO ONTROLLER	x	*  

SCENARIO 1	11,864mm	With standard outdoor 4 pin connectors (FC4MO / FC4MF)
SCENARIO 2	15,227mm	With standard outdoor 4 pin connectors (FC4MO / FC4MF)

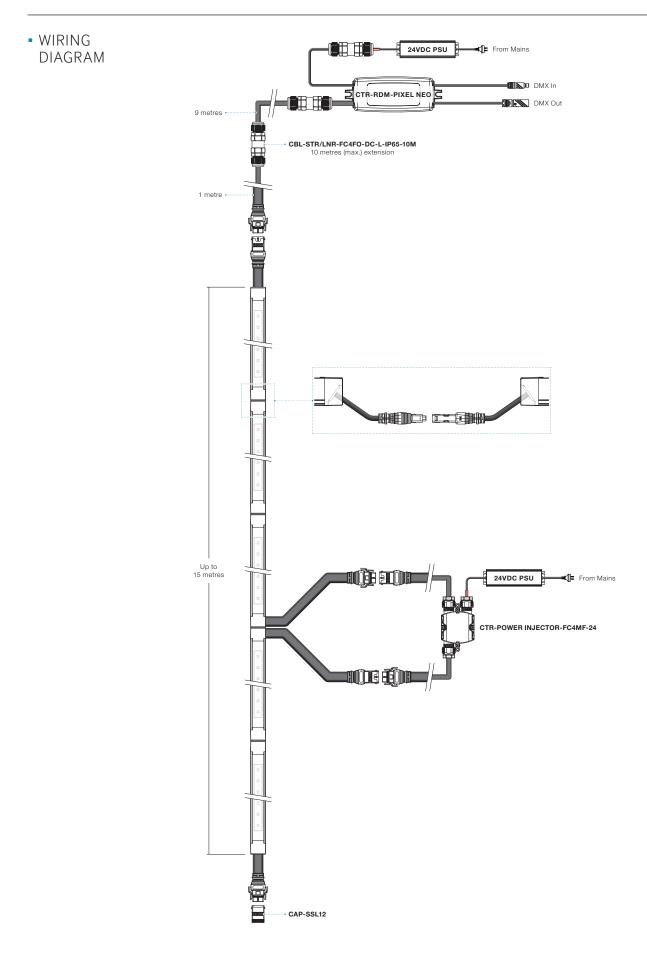
Please consult Coolon for details on extension cables between LED fittings, drivers and PSUs.

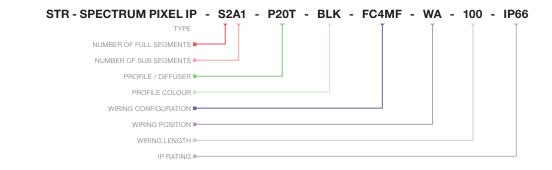
• Maximum number of pixels is 170 per run.

Please refer to Coolon's CTR-RDM PIXEL NEO controller's documentation.









#### PRODUCT LENGTH

PRODUCT LENGTH	
FULL SEGMENTS	SUB SEGMENTS
SO	A0
S1	A1
S2	A2
S3	A3
S4	A4
S5	
S6	

#### PROFILE / DIFFUSER

P20T	P20 Profile Translucent Cover
P20C	P20 Profile Clear Cover

#### = PROFILE COLOUR 1

BLK	Black
WHT	White (Standard)
CST	Custom Colour

#### WIRING CONFIGURATION

FC4MF Outdoor Connector 6 pin Male + Female

#### WIRING POSITION

WA Adaptable Angled

#### WIRING LENGTH

100 100mm

#### IP RATING

IP66 Outdoor Use

<sup>1</sup> Custom colours available on request.



ORDERING

EXAMPLE

# ACCESSORIES

	PRODUCT CODE	DESCRIPTION
MOUNTING		
A. A	MC-CCLIP20	Stainless Steel C-Clip for P20 Profile
16	MBR-RB-TA-BLK	Rotating Bracket, TYPE A Rotating Clip - Black
1 m	MBR-RB-TB-BLK	Rotating Bracket, TYPE B Rotating Clip - Black
Recommended spacing between Mounting Brackets is maximum 500mm and Mounting Clips is maximum 300mm.		

#### CONTROLLER



CTR-RDM PIXEL NEO	Neo Outdoor DMX / RDM to PIXEL Controller
CTR-POWER INJECTOR-FC4MF-24	Power Injector with Male/Female Flat Cables for 24V PSU

#### POWER SUPPLY FOR OUTDOOR USE (IP67)



 PWR-HLG-60H-24AU
 Mean Well Power Supply HLG 60W 24V IP67

 PWR-HLG-150H-24AU
 Mean Well Power Supply HLG 150W 24V IP67

Mean Well Power Supply HLG 150W 24V IP67

#### CABLE EXTENSIONS



CBL-STR/LNR-FC4FO-	1m Length, Flat Leader Cable with Female
DC-L-IP65-1M	Receptacle Outdoor Connector
CBL-STR/LNR-FC4FO-	5m Length, Flat Leader Cable with Female Receptacle
DC-L-IP65-5M	Outdoor Connector and 3 Core Cable Lead with Joiner
CBL-STR/LNR-FC4FO-	10m Length, Flat Leader Cable with Female Receptacle
DC-L-IP65-10M	Outdoor Connector and 3 Core Cable Lead with Joiner
CAP-SSL12	Termination CAP for Flat Connectors

