



www.dinamled.com

led strips

LINEAR APPROACH

TIRA FLEXIBLE

LED STRIPS LED TUBES

DINAM LED LIMITED

A: B-4Flr, Chuangfu Ind. Zone, Shiyan, Shenzhen, 518108, China.

T: 86.755.2306.3529

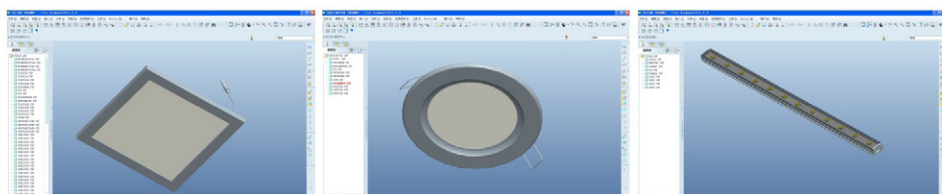
F: 86.755.2306.3528

E: info@dinamled.com

All Specifications subject to change without prior notice

DINAM
DYNAMIC LIGHTING FOR COLORFUL LIFE

Research and Development: originated from OEM, we develop our own products. We are professional manufacturer with advanced lighting equipment and source design methodologies.



LED SMD package: we purchase high quality led chips from Taiwan, and encapsulate led chips in our factory. Therefore, we can guarantee the uniformity of color temperature, quality, and delivery time.



Excellent production and quality control: take panel lights for example, dots are laser engraved on the Mitsubishi light guide plate. This technology makes sure that the even and well distributed lighting effect will not change with time, while the ink printing technology will have uneven lighting effect after some months.

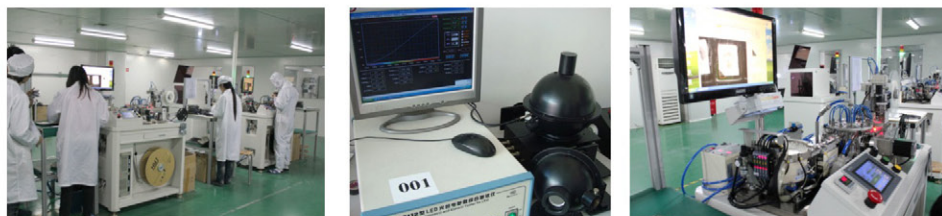


Table of Contents

Company Introduction					01
Glossary					03
Strip light Preface					05
Tube Light Preface					67
Controller					79
Power Supply					83
Article	LEDs / M	Watt / M	Brightness(Lumen/M)	Brightness(Lumen/M)	Page
SMD2835-60	60	14.4		1260 lm/M	07
SMD5050-RGBW	72	17.28			09
SMD5050-RGBWA	72	17.28			11
SMD5050-30	30	7.2		660 lm/M	13
SMD5050-60	60	14.4		1320 lm/M	15
SMD5050-72	72	17.28		1584 lm/M	17
SMD3528-60	60	4.8		390 lm/M	19
SMD3528-120	120	9.6		780 lm/M	21
SMD3528-180	180	14.4		1170 lm/M	23
SMD3528-240S	240	19.2		1560 lm/M	25
SMD5630-60	60	19.2		1680 lm/M	27
SMD5630-75	75	24		2100 lm/M	29
SMD3014-96	96	9.6		880 lm/M	31
SMD3014-216	216	21.6		1980 lm/M	33
SMD335-SIDE	60	4.8		360 lm/M	35
SMD335-SIDE	96	7.68		576 lm/M	37
SMD3528-240D	240	19.2		1560 lm/M	39
SMD3528-180T	180	14.4		1170 lm/M	41
SMD3528-450F	450	36		2925 lm/M	43
SMD3014-192	192	19.2		1766 lm/M	45
SMD5050-120	120	28.8		2640 lm/M	47
SMD5630-144	144	46		4032 lm/M	49
SMD3528-60CC	60	4.8		390 lm/M	51
SMD3528-120CC	120	9.6		780 lm/M	53
SMD5050-60CC	60	14.4		1320 lm/M	55
SMD5630-72CC	72	23		2016 lm/M	57
SMD5050-120CC	120	28.8		2640 lm/M	59
SMD5050-32ST	32	7.68			61
SMD5050-96ST	96	23			63
SMD3528-192ST	792	15.3		624 lm/M	65
TUBE-T5		11		1060 lm/pc	69
TUBE-T10-iso		26		2650 lm/pc	71
TUBE-T10-noniso		26		2650 lm/pc	73
TUBE-T8-iso		26		2250 lm/pc	75
TUBE-T8-noniso		26		2250 lm/pc	77

All Dinam products are designed and tested to comply with the IEC 60598 luminaire standard, and manufactured in accordance to the Quality Management System standard governed by IEC 9001:2008

Electrical Protection IEC 60598



Safety class 3: Luminaires comply with SELV electrical requirements i.e, where protection against electrical shock relies on the supply of safety and in which voltages higher than those of SELV are not generated. extra-low voltage (SELV)



Safety class 2: Luminaires comply with double insulated electrical requirements i.e, have complete insulation in all parts without an earth. In the event of an electrical fault, no dangerous voltage can reach accessible metal parts. termination.

Inflammability of Surface Protection IEC 60598



Luminaires are suitable for mounting directly on normally flammable surfaces such as wood and wood based materials $\geq 2\text{mm}$ thick.

Ingress Protection Categorisation IEC 60598 (IPXX)



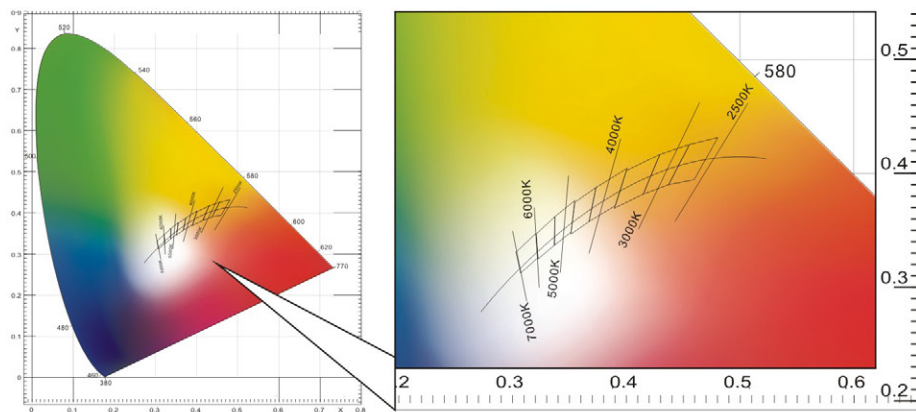
IP2X Protects against solid particles down to 12mm diameter
IP6X Protects against any entry of dust- dust-tight



IPX0 No protection from water
IPX2 Protects from drops of water falling up to 15° from the vertical. Limited ingress protection
IPX5 Protects from low-pressure jets of water from all directions. Jet-proof
IPX7 Protects against temporary immersion down to 1m. Water-tight, not for permanent immersion
IPX8 Protects against permanent immersion at specified water depth. Pressure water-tight

Consistent Binning of Dinam LED Strips

CIE 1931 xyz chromaticity diagram



RAL9017

Traffic black

RAL9003

Signal white

RAL8004

Copper grey



LED strip lights, Ambient temperature tested -40°C to +50°C, Class 3. 120 degree. CRI=75Ra (90Ra option)

Materials: boiled-copper-based SMD shelf, double-layer boiled-copper PCB and ceramic resistors, which enable 2 KV electrostatic discharge-resistant.
Integral circuit designs enabling stable current and extended life span.
FPC with extra copper layer for advanced thermal management
LED chip from Taiwan. 50,000 hours life span of L70.

Protection: IP20, IP62, IP65, IP66, IP67, IP68 option. silicon rubber protections, anti-corrosion treatment; UVresistant, exterior paint system option, thermally cured at 85°C. Fire-distinguishable.

Control gear: External. Magnetic, HPF (0.95), thermal overload protected for LED. UL, CE, RoHS, TUV, ETL, PSE approved drivers optional for purchase.

Options: Electronic, thermal and overload protected gear on request. 90Ra option.
Other colours available on request.

Standards:

CE(EMC)

EN 55015: 2006+A1:2007+A2:2009

EN 61547:2009

EN 61000-3-2:2006+A1:2009

EN 61000-3-3: 2008

CE (LVD)

EN60598-2-13

EN60598-1: 2008+A112009

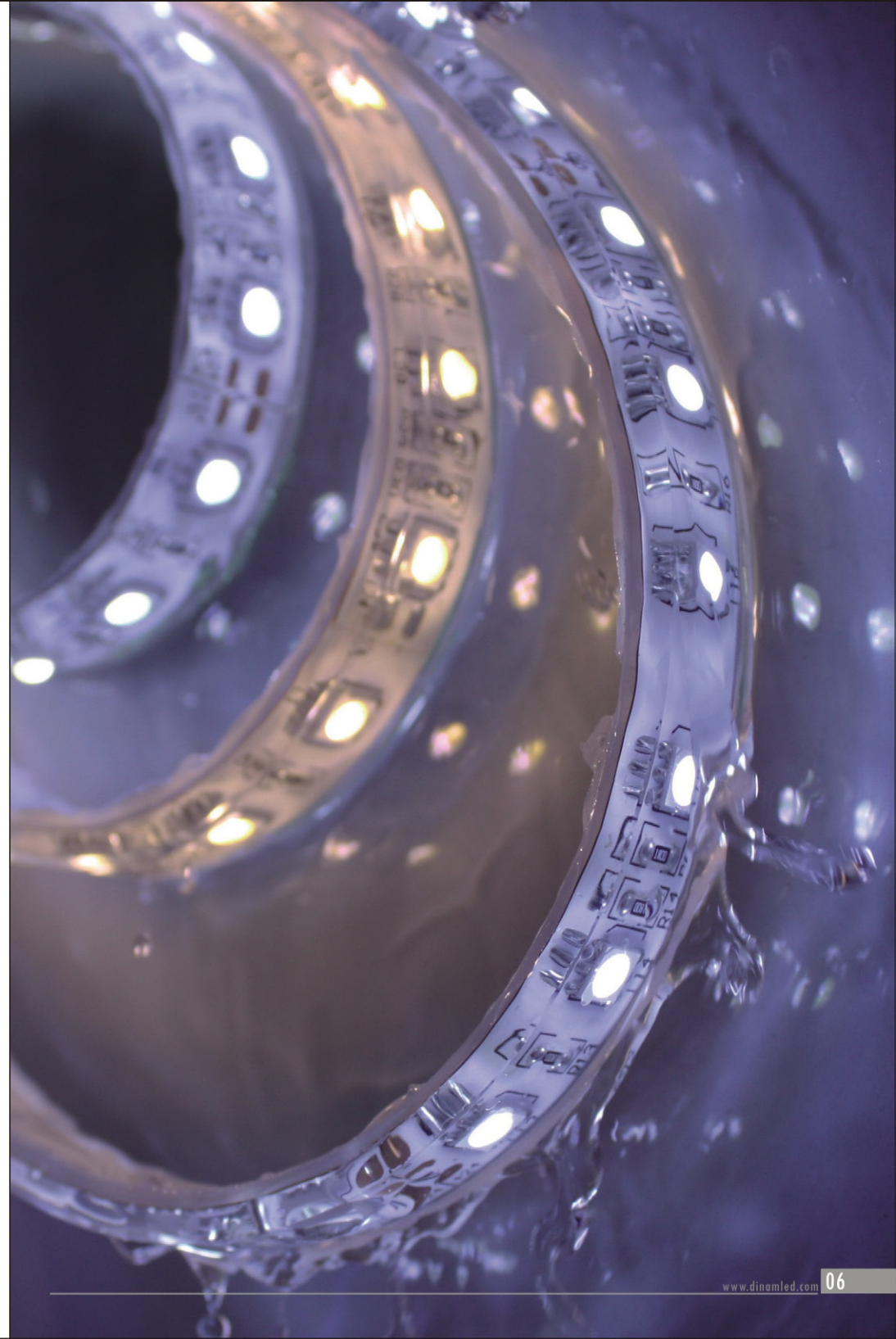
EN60598-1

EN62471 : 2008

RoHS Directive: 2011/65/EU (Directive 2002/95/EC)

EPA3050B:1996, EN1122B:2001, EPA3052:1996, EPA3060A:1996,

EPA7196A:1992, EPA3540C:1996, EPA8270D: 2007, IEC62321:2008



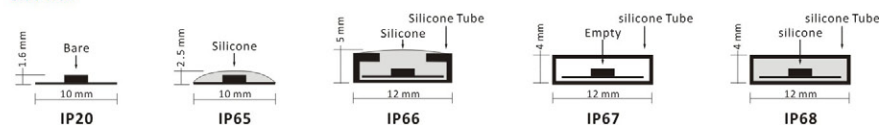
2835 60LED Flex



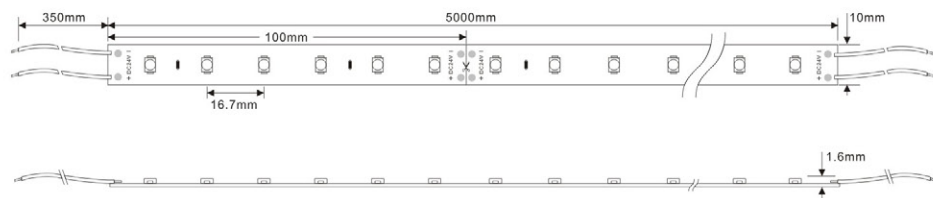
Product features:

- 24V
- 300LED, 16.7mm/pitch
- Dimensions: 5,000mm x 10mm x 1.6mm
- Up to 88lm/Watt
- (24V) 3.0A / 60mA per step
- (24V) 1.44Watt, 6led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI80
- Dimming: voltage reduction/PWM
- Max connection length: 10 meters (both ends supplied)

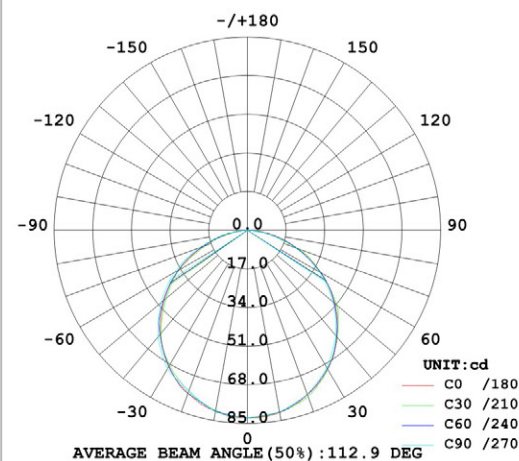
Side View



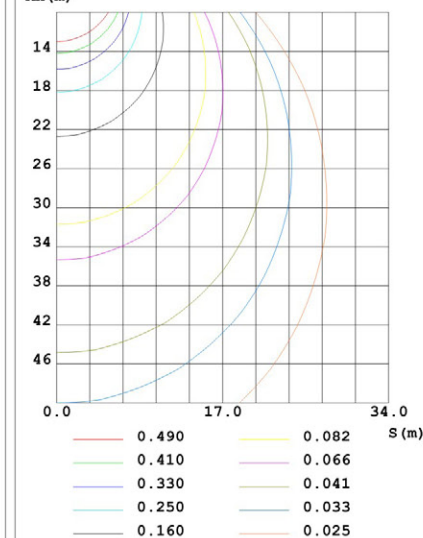
24V IP20 Top View



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



Part No.	CCT	Color Variance	Bining	Voltage (V DC)	Power (W/M)	Typ. Flux (LM/M)	Typ. Flux (LM/Watt)	Ra/CRI *	IP Rated
DN-F2835WW60-30	3000K	+/- 150K	4 Step MacAdam	24	14.4	1110	58	69	IP20
DN-F2835NW60-40	4000K					1170	63	74	IP65
DN-F2835CW60-65	6500K	+/- 200K	5 Step MacAdam			1260	88	72	IP67
									IP68

Note: *Ra80 optional

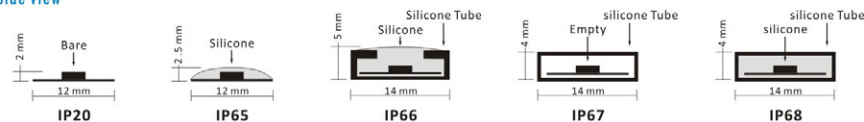
5050 72LED RGBW Flex



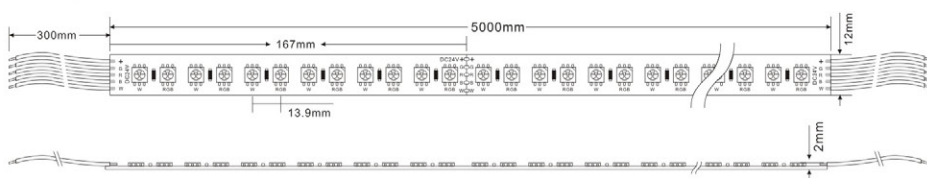
Product features:

- 24V DC
- 360LED, 13.9mm/pitch
- Dimensions: 5,000mm x 12mm x 2mm
- (24V) 3.6A / 120mA per step
- (24V) 2.88Watt, 12 led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI 90
- Dimming: voltage reduction/PWM
- Max connection length: 10 meters (both ends supplied)

Side View



24V IP20 Top View



DN-TRGBW



2.4G Touch Screen RGBW LED Controller

Working temperature: -20-60 °C

Supply voltage: DC 12-24V

Dimension: L85 x W45 x H23 mm

Control: RGBW four channels

Max load per channel: 6A

Output connection: common anode

Remote distance: 20-30 meters

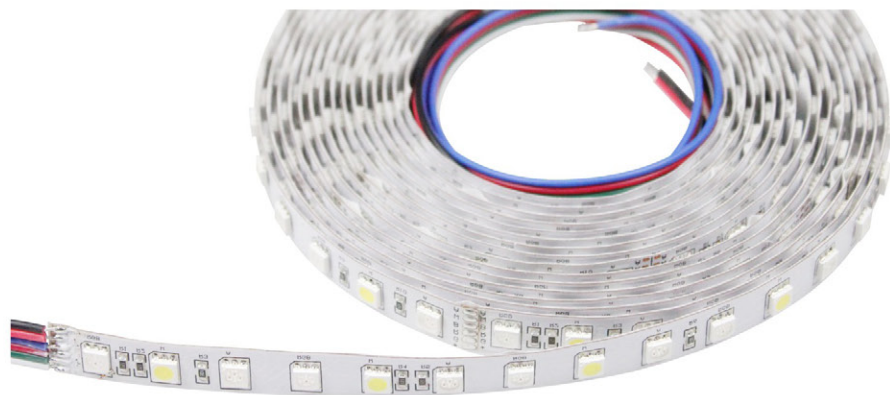
Power: 12V<288W, 24V<576W.

Part No.	Color	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)	Power (W/M)	Ra/CRI **	IP Rate
DN-F5050RGBW72	Warm white	2000K	+ / - 150K	4 Step MacAdam	24	17.28	56	IP20 IP65 IP66 IP67 IP68
		2400K					61	
		2700K					65	
		3000K					72	
	Neutral white	4000K	+ / - 200K	5 Step MacAdam			76	
	Cool white	5500K					77	
		6500K					76	
	Red	623nm					-	
	Green	525nm	-					
	Blue	470nm	-					

Note: * 10,000K available, amber, orange, pink, purple optional

** Ra80, Ra90 optional

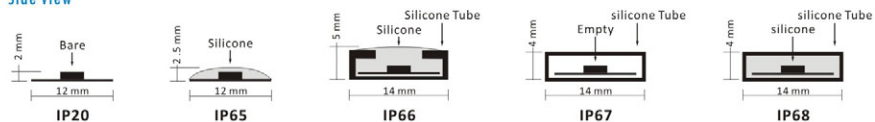
5050 72LED RGBWA Flex



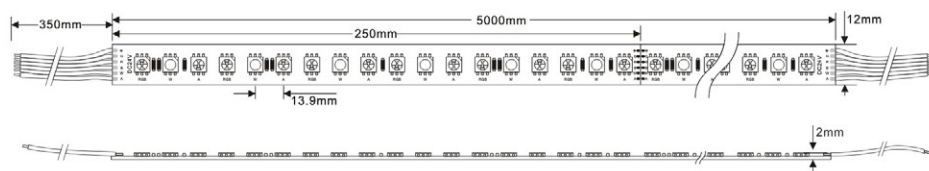
Product features:

- 24V DC
- 360LED, 13.9mm/pitch
- Dimensions: 5,000mm x 12mm x 2mm
- (24V) 3.6A / 180mA per step
- (24V) 4.32Watt, 18led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI 90
- Dimming: voltage reduction/PWM
- Max connection length: 10 meters (both ends supplied)

Side View



24V IP20 Top View



DN-TRGBW



2.4G Touch Screen RGBW LED Controller

Working temperature: -20-60 °C

Supply voltage: DC 12-24V

Dimension: L85 x W45 x H23 mm

Control: RGBW four channels

Max load per channel: 6A

Output connection: common anode

Remote distance: 20-30 meters

Power: 12V<288W, 24V<576W.

Part No.	Color	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)	Power (W/M)	Ra/CRI **	IP Rate
DN-F5050RGBWA72	Warm white	2000K	+ / - 150K	4 Step MacAdam	24	17.28	56	IP20 IP65 IP66 IP67 IP68
		2400K					61	
		2700K					65	
		3000K					72	
	Neutral white	4000K	+ / - 200K	5 Step MacAdam			76	
	Cool white	5500K					77	
		6500K					76	
	Amber	600nm					-	
	Red	623nm	-					
	Green	525nm	-					
	Blue	470nm	-					

Note: * 10,000K available, amber, orange, pink, purple optional

** Ra80, Ra90 optional

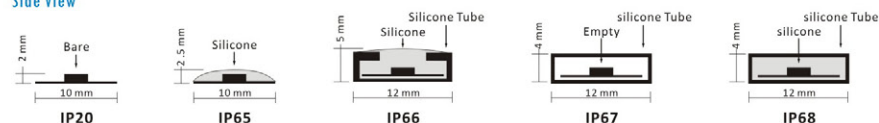
5050 30LED Flex



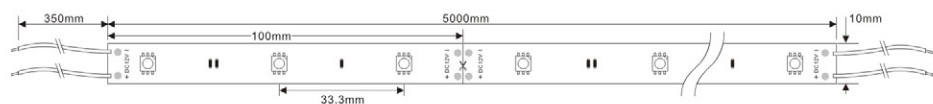
Product features:

- 24V DC and 12V DC optional
- 150LED, 33.3mm/pitch
- Dimensions: 5,000mm x 12mm x 2mm
- (24V) 1.5A / 30mA per step
- (12V) 3.0A / 60mA per step
- (24V) 1.20Watt, 5 led/Segment
- (12V) 0.72Watt, 3 led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Dimming: voltage reduction/PWM
- 15meters max connection length (both end to power)

Side View



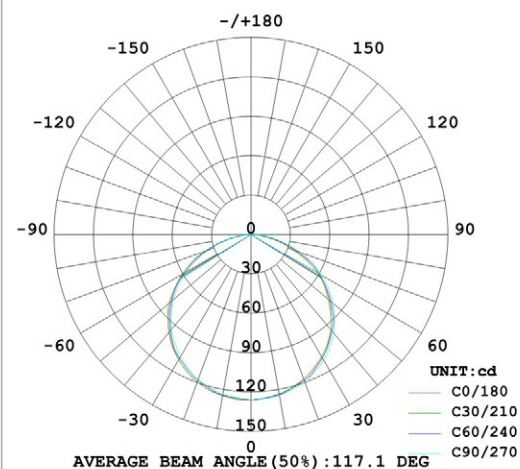
12V IP20 Top View



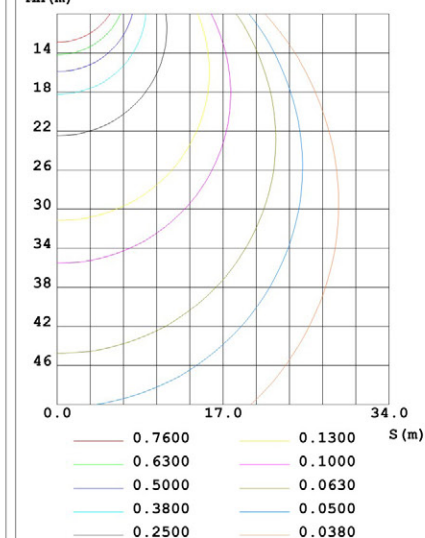
Section



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



Part No.	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)**	Power (W/M)	Typ. Flux (LM/M)	Typ. Flux (LM/Watt)	Ra/CRI ***	IP Rated
DN-F5050WW30-20	2000K	+ / - 150K	4 Step MacAdam	24	7.2	556	77	56	IP20 IP65 IP66 IP67 IP68
DN-F5050WW30-24	2400K					570	79	61	
DN-F5050WW30-27	2700K					584	81	65	
DN-F5050WW30-30	3000K					600	83	72	
DN-F5050NW30-40	4000K					630	88	76	
DN-F5050CW30-55	5500K	+ / - 200K	5 Step MacAdam			646	90	77	
DN-F5050CW30-65	6500K					660	92	76	
DN-F5050RGB30	-					RGB	R60:G120:B90	-	
DN-F5050R30	623nm	red	single bin			180	25	-	
DN-F5050Y30	592nm	yellow				180	25	-	
DN-F5050G30	525nm	green				360	50	-	
DN-F5050B30	470nm	blue				270	38	-	

Note: * 10,000K available, amber, orange, pink, purple optional

** 12V DC optional

*** Ra80, Ra90 optional

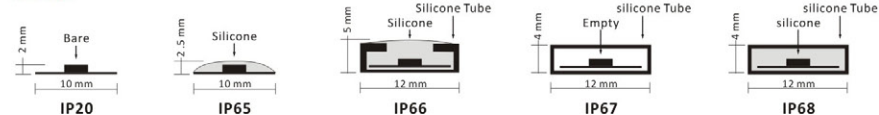
5050 60LED Flex



Product features:

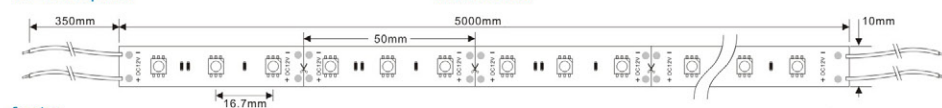
- 24V and 12V DC optional
- 300LED, 16.7mm/pitch
- Dimensions: 5,000mm x 10 mm x 2mm
5,000mm x 12 mm x 2mm
- Up to 92lm/Watt
- (24V) 3.0A / 60mA per step
- (12V) 6.0A / 60mA per step
- (24V) 1.44Watt, 6led/Segment
- (12V) 0.72Watt, 3led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI 90
- Dimming: voltage reduction/PWM
- 15meters max connection length (both end to power)

Side View



12V IP20 Top View

MONO COLOR

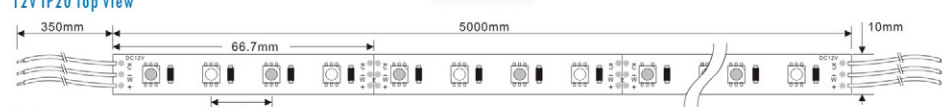


Section



12V IP20 Top View

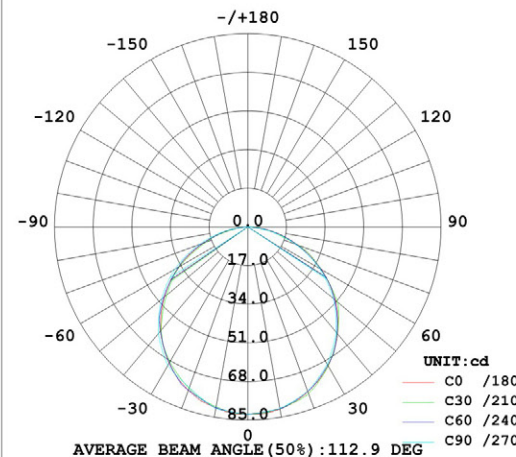
DOUBLE COLOR



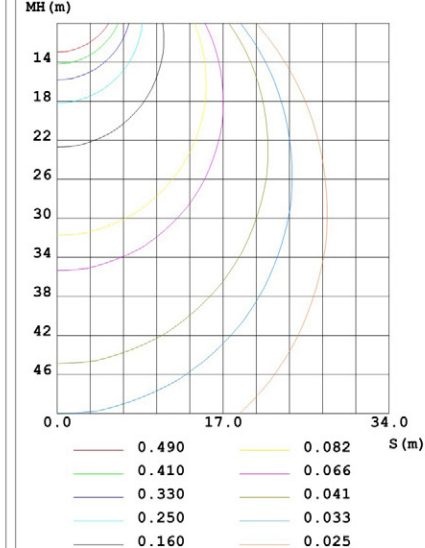
Section



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



Part No.	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)**	Power (W/M)	Typ. Flux (LM/M)	Typ. Flux (LM/Watt)	Ra/CRI ***	IP Rated
DN-F5050WW60-20	2000K	+ / - 150K	4 Step MacAdam	24	14.4	1110	77	56	IP20
DN-F5050WW60-24	2400K					1140	79	61	
DN-F5050WW60-27	2700K					1170	81	65	
DN-F5050WW60-30	3000K					1200	83	72	
DN-F5050NW60-40	4000K					1260	88	76	
DN-F5050CW60-55	5500K	+ / - 200K	5 Step MacAdam			1290	90	77	IP65
DN-F5050CW60-65	6500K					1320	92	76	IP66
DN-F5050RGB60	-					RGB	R120:G240: B180	-	-
DN-F5050R60	623nm	red	single bin			360	25	-	IP68
DN-F5050Y60	592nm	yellow				360	25	-	
DN-F5050G60	525nm	green				720	50	-	
DN-F5050B60	470nm	blue				540	38	-	
DN-F5050C1/C2-60	Double colors					14.4 max	-	-	-

Note: * 10,000K available, amber, orange, pink, purple optional

** 12V DC optional

*** Ra80, Ra90 optional

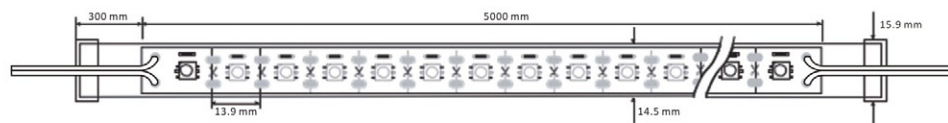
5050 72LED Flex



Product features:

- 24V and 12V DC optional
- 360LED, 13.9mm/pitch
- Dimensions: 5,000mm x 12 mm x 2mm
- (24V) 3.6A / 60mA per step
- (12V) 7.2A / 20mA per step
- (24V) 1.44Watt, 6led/Segment
- (12V) 0.24Watt, 13.9mm, 1led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI 90
- Dimming: voltage reduction/PWM
- Max connection length: 10 meters (both ends supplied)

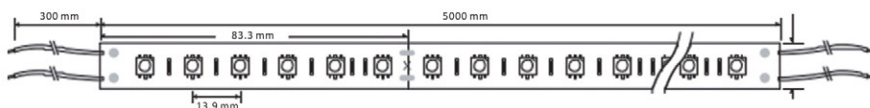
12V IP68 Top View



Section



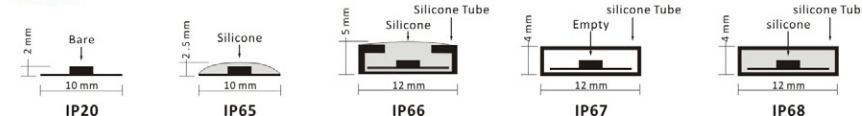
24V IP20 Top View



Section



Side View



Part No.	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)**	Power (W/M)	Typ. Flux (LM/M)	Typ. Flux (LM/Watt)	Ra/CRI ***	IP Rated
DN-F5050WW72-20	2000K	+ / - 150K	4 Step MacAdam	24	17.28	1332	77	56	IP20
DN-F5050WW72-24	2400K					1368	79	61	
DN-F5050WW72-27	2700K					1404	81	65	
DN-F5050WW72-30	3000K					1440	83	72	
DN-F5050NW72-40	4000K					1512	88	76	
DN-F5050CW72-55	5500K	+ / - 200K	5 Step MacAdam			1548	90	77	IP65
DN-F5050CW72-65	6500K					1584	92	76	IP66
DN-F5050RGB72	-					RGB	R144:G288: B216	-	-
DN-F5050R72	623nm	red	single bin			432	25	-	IP68
DN-F5050Y72	592nm	yellow				432	25	-	
DN-F5050G72	525nm	green				864	50	-	
DN-F5050B72	470nm	blue				648	38	-	

Note: * 10,000K available, amber, orange, pink, purple optional

** 12V DC optional

*** Ra80, Ra90 optional

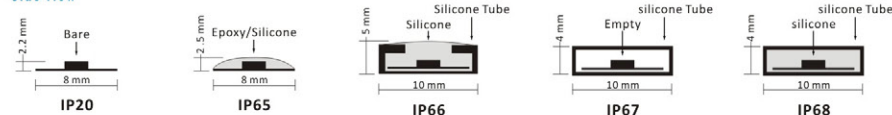
3528 60LED Flex



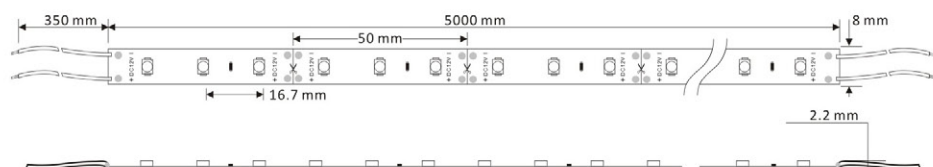
Product features:

- 24V and 12V DC optional
- 300LED, 16.7mm/pitch
- Dimensions: 5,000mm x 10 mm x 2.2mm
5,000mm x 8 mm x 2.2mm
- Up to 81lm/Watt
- (24V) 1.0A / 20mA per step
- (12V) 2.0A / 20mA per step
- (24V) 0.48Watt, 6 led/Segment
- (12V) 0.24Watt, 3 led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI 90
- Dimming: voltage reduction/PWM
- Max connection length: 15 meters (both ends supplied)

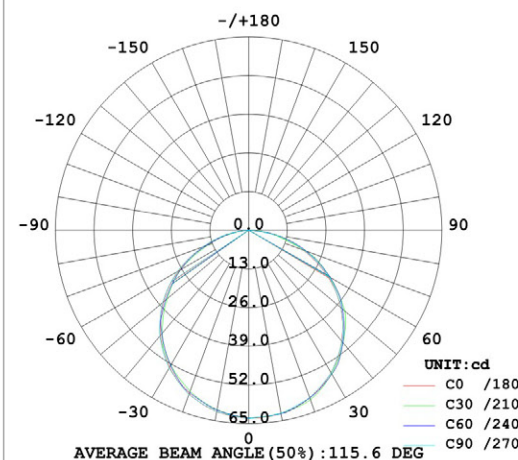
Side View



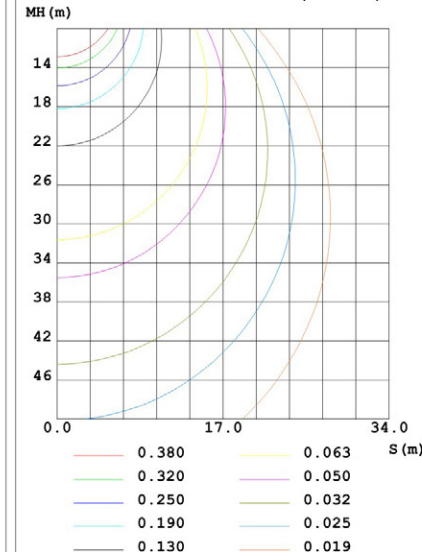
12V IP20 Top View



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



Part No.	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)**	Power (W/M)	Typ. Flux (LM/M)	Typ. Flux (LM/Watt)	Ra/CRI ***	IP Rated
DN-F3528WW60-20	2000K	+ / - 150K	4 Step MacAdam	24	4.8	312	65	56	IP20
DN-F3528WW60-24	2400K					324	68	60	
DN-F3528WW60-27	2700K					378	79	64	
DN-F3528WW60-30	3000K					372	78	69	
DN-F3528NW60-40	4000K					384	80	70	IP65
DN-F3528CW60-55	5500K	+ / - 200K	5 Step MacAdam			384	80	74	IP66
DN-F3528CW60-65	6500K					390	81	72	IP67
DN-F3528R60	623nm	red	single bin			120	25	-	IP68
DN-F3528Y60	592nm	yellow				120	25	-	
DN-F3528G60	525nm	green				240	50	-	
DN-F3528B60	470nm	blue				180	38	-	

Note: * 10,000K available, amber, orange, pink, purple optional

** 12V DC optional

*** Ra80, Ra90 optional

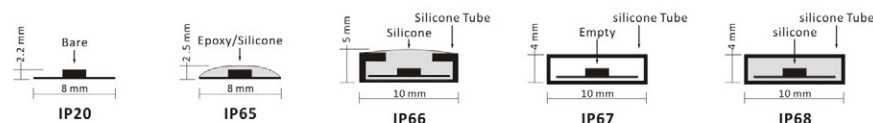
3528 120LED Flex



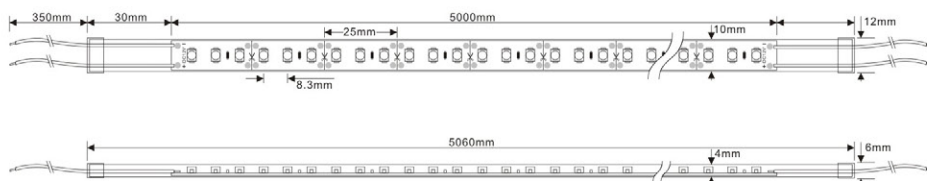
Product features:

- 24V and 12V DC optional
- 600LED, 8.3mm/pitch
- Dimensions: 5,000mm x 10mm x 2.2mm
5,000mm x 8mm x 2.2mm
- Up to 81lm/Watt
- (24V) 2.0A / 20mA per step
- (12V) 4.0A / 20mA per step
- (24V) 0.48Watt, 6led/Segment
- (12V) 0.24Watt, 3led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI 90
- Dimming: voltage reduction/PWM
- Max connection length: 10 meters (both ends supplied)

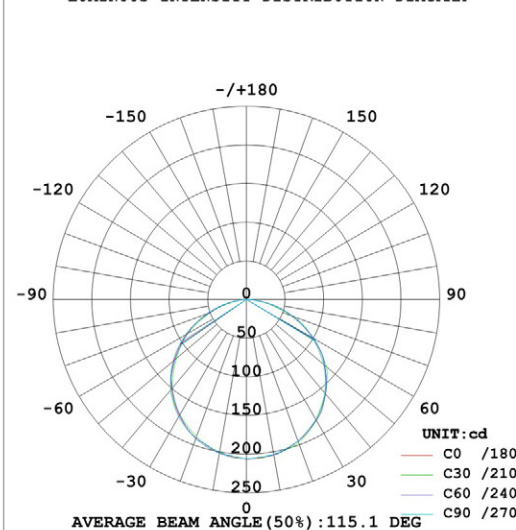
Side View



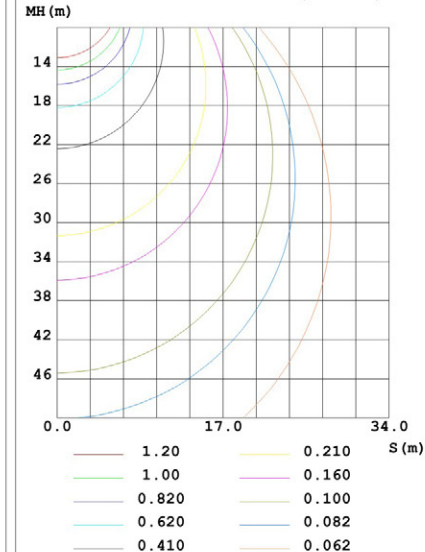
12V IP68 Top View



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



Part No.	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)**	Power (W/M)	Typ. Flux (LM/M)	Typ. Flux (LM/Watt)	Ra/CRI ***	IP Rated
DN-F3528WW120-20	2000K	+/- 150K	4 Step MacAdam	24	9.6	624	65	56	IP20
DN-F3528WW120-24	2400K					648	68	60	
DN-F3528WW120-27	2700K					756	79	64	
DN-F3528WW120-30	3000K					744	78	69	
DN-F3528NW120-40	4000K					768	80	70	
DN-F3528CW120-55	5500K	+/- 200K	5 Step MacAdam			768	80	74	IP66
DN-F3528CW120-65	6500K					780	81	72	IP67
DN-F3528R120	623nm	red	single bin			240	25	-	IP68
DN-F3528Y120	592nm	yellow				240	25	-	
DN-F3528G120	525nm	green				480	50	-	
DN-F3528B120	470nm	blue				360	38	-	

Note: * 10,000K available, amber, orange, pink, purple optional

** 12V DC optional

*** Ra80, Ra90 optional

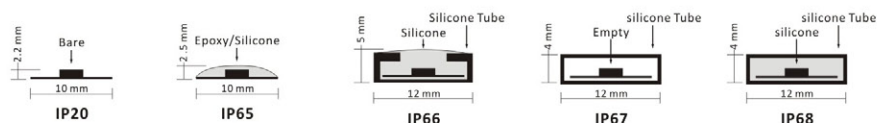
3528 180LED Flex



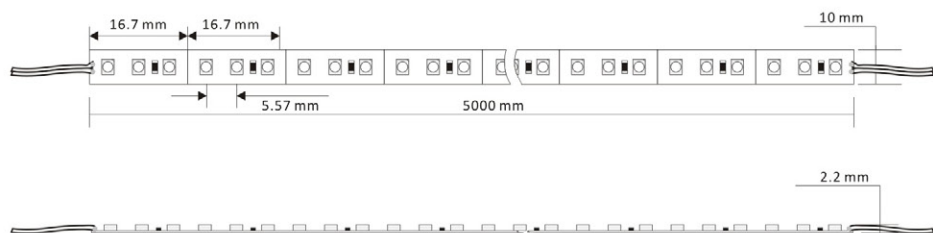
Product features:

- 12V DC
- 900LED, 5.56mm/pitch
- Dimensions: 5,000mm x 10mm x 2.2mm
- Up to 81lm/Watt
- (12V) 6.0A / 20mA per step
- (12V) 0.24Watt, 3led/Segment
- Storage temp.: -30~80°C
- Operation Temp.: -20~50°C
- Also available at CRI 90
- Dimming: voltage reduction/PWM
- Max connection length: 5 meters (both ends supplied)

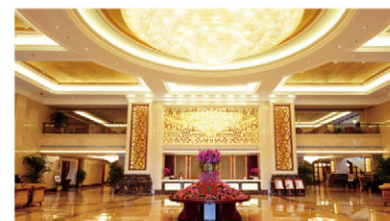
Side View



12V IP20 Top View



Dinam Flexi tape specification text



Surface mounted flexible LED strip with reflecting white surface and 3M self adhesive tape on rear side. High quality LED from Taiwan. 120° beam angle. Double layer FPC with extra copper layer for advanced thermal management.

Part No.	CCT / Wavelength*	Color Variance	Bining	Voltage (V DC)	Power (W/M)	Typ. Flux (LM/M)	Typ. Flux (LM/Watt)	Ra/CRI **	IP Rate
DN-F3528WW180-20	2000K	+ / - 150K	4 Step MacAdam	24	14.4	936	65	56	IP20
DN-F3528WW180-24	2400K					972	68	60	
DN-F3528WW180-27	2700K					1134	79	64	
DN-F3528WW180-30	3000K					1116	78	69	
DN-F3528NW180-40	4000K					1152	80	70	IP65
DN-F3528CW180-55	5500K	+ / - 200K	5 Step MacAdam			1152	80	74	IP66
DN-F3528CW180-65	6500K					1170	81	72	IP67
DN-F3528R180	623nm	red	single bin			360	25	-	IP68
DN-F3528Y180	592nm	yellow				360	25	-	
DN-F3528G180	525nm	green				720	50	-	
DN-F3528B180	470nm	blue				540	38	-	

Note: * 10,000K available, amber, orange, pink, purple optional

** Ra80, Ra90 optional