

# RGBW 4in1 48V STRIP

TN-F5050-56-48





## CCT Available



## Features

- LED Chip Type: RGBW 4in1 chip, white Ra>80
- Run lengths: up to 17meters(56 feet)
- Waterproof: IP22, IP68 (WE)
- Mounting: double-side thermal conductive adhesive tape

## Optical & Electrical Parameters

TN-F5050-56-48 (W-26K)

Voltage	CCT/Wavelength	LM/m	LM/W	W/m
48V DC	Red	69	34	1.92
	Green	219	101	1.92
	Blue	40	19	1.92
	2581-2725	215	106	1.92
	RGB	329	52	5.76
	RGBW	541	64	7.68

TN-F5050-56-48 (W-29K)

Voltage	CCT/Wavelength	LM/m	LM/W	W/m
48V DC	Red	70	37	1.92
	Green	201	98	1.92
	Blue	38	20	1.92
	2871-3045	215	113	1.92
	RGB	324	52	5.76
	RGBW	536	65	7.68







TN-F5050-56-48 (W-41K)

Voltage	CCT/Wavelength	LM/m	LM/W	W/m
48V DC	Red	74	39	1.92
	Green	213	99	1.92
	Blue	38	19	1.92
	3986-4260	218	113	1.92
	RGB	328	54	5.76
	RGBW	543	67	7.68

TN-F5050-56-48 (W-52K)

Voltage	CCT/Wavelength	LM/m	LM/W	W/m
48V DC	Red	71	36	1.92
	Green	214	98	1.92
	Blue	43	20	1.92
	5028-5310	237	116	1.92
	RGB	327	51	5.76
	RGBW	556	65	7.68

TN-F5050-56-48 (W-62K)

Voltage	CCT/Wavelength	LM/m	LM/W	W/m
48V DC	 Red	69	35	1.92
	 Green	213	95	1.92
	 Blue	42	20	1.92
	 6020-6530	232	113	1.92
	 RGB	326	51	5.76
	 RGBW	556	66	7.68

## Other Parameters

Model No.	LED QTY (pcs/m)	Min Cuttable Length	No Brightness Difference MAX	UL Max Run	Working Temperature	Storage Temperature
TN-F5050-56-48	56	250mm	17m	--	-20~+60°C	-20~+70°C






NOTE:

- The above data were measures under standard conditions and actual data may be different. We would update data without further notice.
- The luminous flux is tested while the corresponding-color products were lightened.
- UL max run refers to operating length at UL class II @100W.48V.
- Luminous flux values were measured accordance to IES LM-80-08. LED chips with range tolerance of +/- 10%.
- Each maximum-run requires a dedicated power feed from the driver. Do not extend exceed the recommended maximum run length. Max run may exceed Class 2 limits.
- Actual wattage may be different from the calculated wattage due to voltage drop while using.
- Actual efficacy value is determined by the specific LED driver (power supply). An estimated efficacy value can be calculated as follows: Luminous intensity divided by average power consumption.
- Do not install products in the conditions that exceed the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, luminous intensity output, and/or adversely impact color consistency.
- Operating temperature was measured under the minimum and maximum ambient temperature environment.
- Cutting segment are marked on the profile below.

## Performance

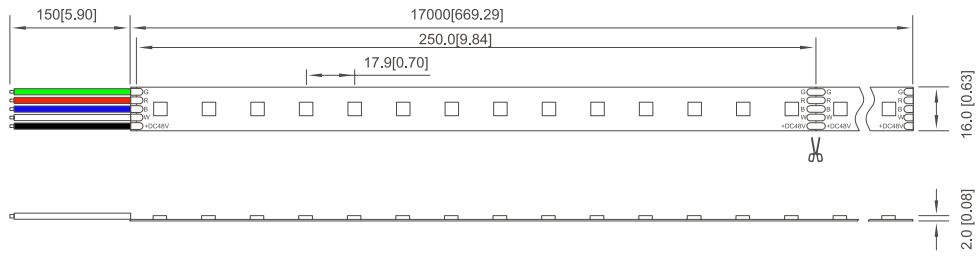
- Photometric & Colorimetry data measured in accordance to IES LM-79-08, in Blueview 's TUV Innovation Lab.

## Compliance & Regulatory Approvals

	CE LVD	Standard: EN 60598-2-21: 2015; EN 60598-1: 2015; EN 62471: 2008; EN 62493:2015; EN 62031: 2015+A1: 2013+A2: 2015
	CE EMC	Standard: EN IEC 55015: 2019; EN IEC 61000-3-2: 2019; EN 61000-3-3:2013+A1: 2019;EN 61547: 2009
	CB	Standard: IEC 62031:2018
	UL LISTED	Standard: UL 2108 E354137-Low-voltage Lighting Systems, Power Units, Luminaires and Fittings
	RoHS	Standard: IEC62321

## Profile Drawings

Unit: mm [inch]



Note:

- For LED quantity less than 160leds/m with standard power, we recommend to use 20AWG parallel wire/sheathed cable with wire length less than 20cm, user need to reduce the max run when the wire length more than 20cm.
- For LED quantity more than 160leds/m with standard power, we recommend to use 18AWG parallel wire/sheathed cable in single feed, or 20AWG parallel wire or sheathed cable in both ends with wire length less than 20cm. Users need to reduce the max run properly when the wire length more than 20cm.
- Above conditions are only applicable to products with the PCB width of 10mm or more, for other width needs to be evaluated separately.

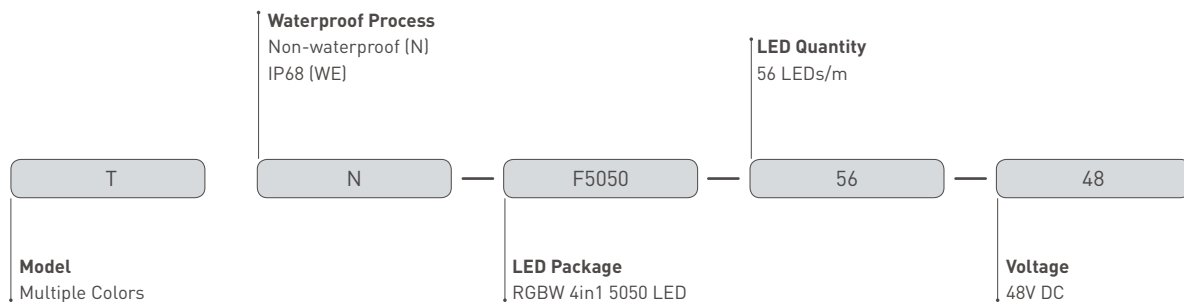
## Packaging information

Model No.	Product Size L*W (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Net Weight (kg)	Gross Weight (kg)
TN-F5050-56-48	18000*10mm	550*400*340	18	20	15.92 (1±10%)	20.75 (1±10%)

NOTE:

- The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

## Ordering Code



Note:

- For more info about waterproof process, please refer to the waterproof instruction.
- If the strip light adopts WT/WTS/WTU processes, it can only be made up to 10 meters long, for WS process, only be made up to 15 meters long.

## Recommended power supply upon working length

TN-F5050-48-56	Operating Length (m)											
Light Color	R+G+B+W											
Parameters	1	2	3	4	5	6	7	8	9	10	11	12
Total Power (W)	7.344	15.36	23.32	31.2	38.88	46.08	53.76	60.96	67.68	73.92	79.2	84.48

TN-F5050-48-56	Operating Length (m)				
Light Color	R+G+B+W				
Parameters	13	14	15	16	17
Total Power (W)	89.28	94.56	99.36	104.01	109.72

TN-F5050-48-56	Operating Length (m)			
Light Color	R	G	B	W
Parameters	32	27	22	23
Total Power (W)	48	45.79	34.89	34.08

## Controller & Amplifier



Model No.: BV-1009FA-2819S



Model No.: BV-1009FA-2820


## Power Supply



Model No.: HLG Series



Model No.: ELG Series

NOTE: Above power supplies are available in 

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