

Product Specification

COB LV Strip POP COB 24V 480 LEDs/M Single color

WW-FLS102T83XW480X-24(WCP)-UR-LD-RTR(SS)
&
WW-FLS102T83XW480X-24(WCP)-UR-EP-LD-RTR(SS)

Apply to ERP Regulation (EU) 2019/2020



HK Office :

Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road
Kwun Tong, Kowloon, Hong Kong

China Factory :

Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,
Fucheng Street, Longhua District, Shenzhen, Guangdong, China


Tel : (852) 3152 3059 (10 lines)




Fax : (852) 3152 3039






Tel : (86) 755 8601 9190

Fax : (86) 755 8601 9197

<p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC, authentic 3M tape; • 2700/3000/4000/6500K four color temperature are available for selection; • Reel to Reel process • Warranty: 3 Years; • Min. Bending Diameter: Φ60mm; • Meet (EU) 2019/2020 ErP regulations; • Max.length(M):5M. 	
<p>Technology info</p> <ul style="list-style-type: none"> • Lighting Technology: LED • DLS or NDLS: NDLS • MLS or NMLS: NMLS 	<p>Certification Standards</p> <ul style="list-style-type: none"> • EN55015 • EN61547 • EN60598-1 • EN60598-2-20 • EN62493 • EN62471

Non-ErP Waterproof Type	 B 20	 F 65	 R 67
	Naked Strip	Silicone Tube	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty

ErP Waterproof Type	 B 20	 F 65	 R 67
	Naked Strip	Silicone Tube	Silicone Extrusion
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WW-FLS102T88XW480X-24(WCP)-UR-LD-RTR(SS)

Parameters

IP Grade	Model NO.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	Color Temp. Of Light source (K) /Wavelength(nm) *	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
E 20	WW-FLS102T88WW480B-24(WCP)-UR-LD-RTR(SS)	90	92	100	10.4	11.44	Warm White	2700K	900	DC 24V
	Warm White						3000K	990		
	Natural White						4000K	1030		
	Standard White						6000K	1090		
F 65	WW-FLS102T88WW480F-24(WCP)-UR-LD-RTR(SS)	90	92	100	10.4	11.44	Warm White	2700K	860	DC 24V
	Warm White						3000K	960		
	Natural White						4000K	1000		
	Standard White						6000K	1050		
R 67	WW-FLS102T88WW480R-24(WCP)-UR-LD-RTR(SS)	90	92	100	10.4	11.44	Warm White	2700K	850	DC 24V
	Warm White						3000K	940		
	Natural White						4000K	990		
	Standard White						6000K	1040		

Remarks:

- The typ. Luminous flux tolerance range is $\pm 10\%$ (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.

WW-FLS102T88XW480X-24(WCP)-UR-EP-LD-RTR(SS)

Parameters for ErP

IP Grade	Model NO.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	Color Temp.(K) of Finished Product	Typ. Luminous Flux LM/M(39.37in)	Efficiency (Lm/W)	Energy Efficiency class	Chromaticity Coordinate (X,Y)	Rated voltage
E 20	WW-FLS102T88WW480B-24(WCP)-UR-EP-LD-RTR(SS)	90	90	100	11.4	12.54	Warm White	2700K	940	82	G	0.4630,0.4200	DC 24V
	Warm White						3000K	1040	91	F	0.4400,0.4030		
	Natural White						4000K	1060	93	F	0.3800,0.3800		
	Standard White						6000K	1120	98	F	0.3130,0.3370		
E 65	WW-FLS102T88WW480F-24(WCP)-UR-EP-LD-RTR(SS)	90	90	100	11.4	12.54	Warm White	3000K	910	80	/	0.4689,0.4204	DC 24V
	Natural White						4000K	1010	89	F	0.4430,0.4033		
	Standard White						6000K	1020	89	F	0.3849,0.3819		
R 67	WW-FLS102T88WW480R-24(WCP)-UR-EP-LD-RTR(SS)	90	90	100	11.4	12.54	Warm White	3000K	1100	96	F	0.3201,0.3408	DC 24V
	Natural White						4000K	900	79	/	0.4689,0.4204		
	Standard White						6000K	1000	88	F	0.4430,0.4033		

Remarks:

Test condition of above technical data:

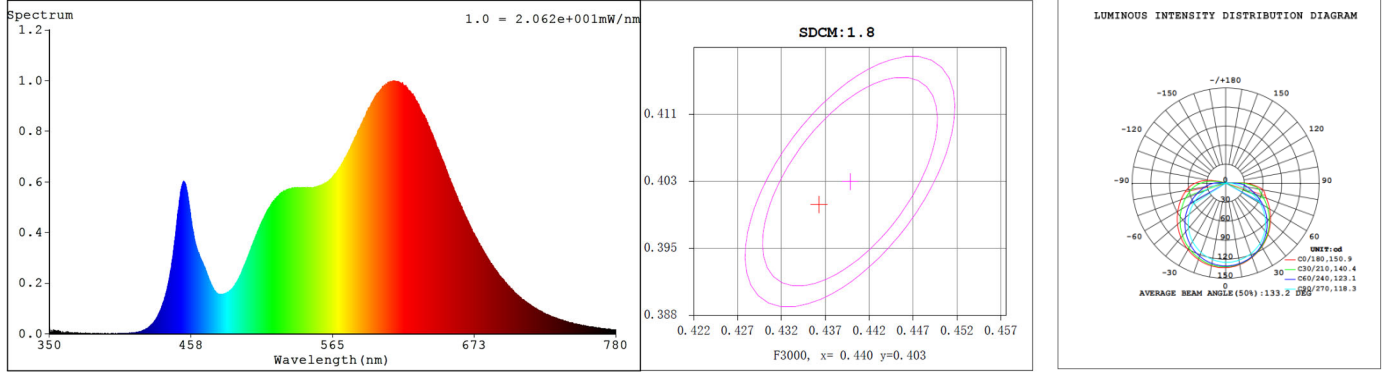
- Surrounding temperature: 26 °C.
- Test after 15 mins turned on.

ErP Note:

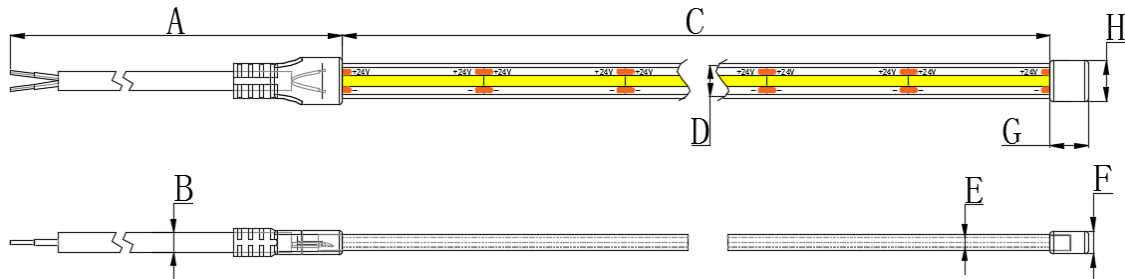
- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the following requirements must be met:
- Measured power \leq Pon +5% ;
- Measured lumen \geq Useful luminous flux -10%;
- Measured CRI \geq Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.

Optical Test Diagram

Spectrum

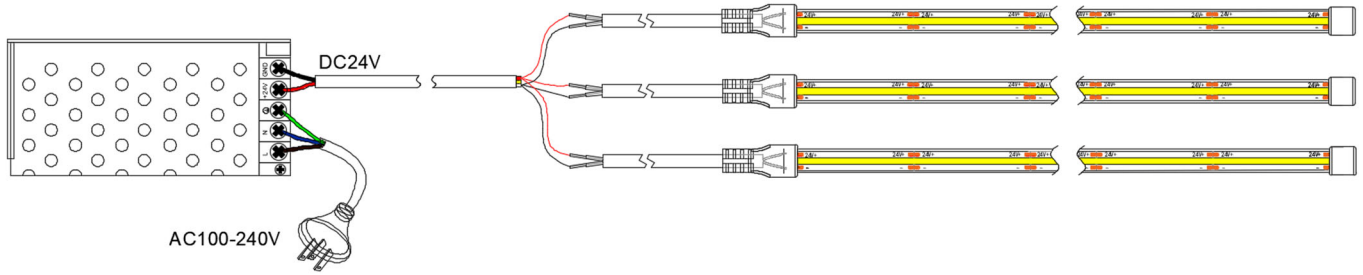


Dimension Drawing



IP Grade	A. cable length	B. cable diameter	C. Strip length	D. Strip width	E. Strip thickness	F. Front cap length	G. End cap length	H. End cap width
B 20	150±10mm	φ1.8±0.2mm	5000±50mm	8±0.5mm	1.9mm±0.5mm	/	/	/
	5.91±0.39in	φ0.07±0.008in	196.85±1.97in	0.31±0.02in	0.075±0.02in	/	/	/
F 65	300±10mm	φ4±0.2mm	5020±50mm	10±0.5mm	4±0.5mm	6±1mm	10±0.5mm	12±0.5mm
	11.81±0.39in	φ0.157±0.008in	197.6±1.97in	0.394±0.02in	0.157±0.02in	0.236±0.04in	0.39±0.02in	0.472±0.02in
R 67	315±10mm	φ6±0.2mm	5020±50mm	10±0.5mm	4.5±0.5mm	6.5±1mm	11±0.5mm	12±0.5mm
	12.4±0.39in	φ0.236±0.008in	197.6±1.97in	0.394±0.02in	0.177±0.02in	0.256±0.04in	0.43±0.02in	0.472±0.02in





Circuit Diagram



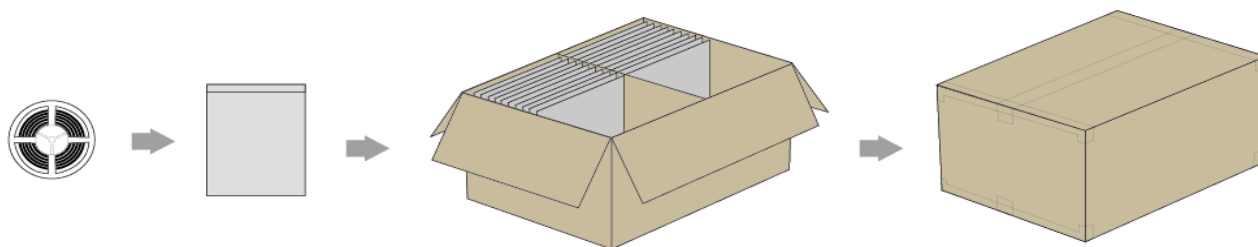
Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Density
E 20	/	/	/	/	/
	/	/	/	/	/
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (8mm)	8mm Type F Waterproof strip
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102R-CW (8mm)	8mm Type R Waterproof strip
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	

Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Density
E 20	Quick Connector	2PIN Quick Connector		WW-F2B-P0P2T-08(COB)	/
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-0WP2T-08(COB)	/
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-PWP2T-08(COB)	/
E 20	Quick connector	2PIN Multifunction Connector		WW-FLS102B-MUCN-08	/
E 20	Quick Connector	2PIN Quick Connector		WW-F2B-P0P2T-08(COB)-C	/
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-0WP2T-08(COB)-C	/
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-PWP2T-08(COB)-C	/
F 65	Quick Connector	2PIN Quick Connector		WW-F2R-P0P2T-08(COB)	/
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-0WP2T-08(COB)	/
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-PWP2T-08(COB)	/
R 67	Quick Connector	2PIN Quick Connector		WW-F2R-P0P2T-08(COB)	/
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-0WP2T-08(COB)	/
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-PWP2T-08(COB)	/











Packaging Diagram




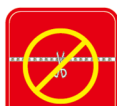















Packaging Information


Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
B 20	160*190*0.14mm	/	/	410*410*260mm	100	6.0KG ±10%	9.18KG ±10%	0.0437m ³
	6.30*7.48*0.006in	/	/	16.14*16.14 *10.24in	100	13.23Lbs ±10%	20.24Lbs ±10%	1.543ft ³
F 65	250*270*0.14mm	/	/	440*400*260mm	40	7.48KG ±10%	11.67KG ±10%	0.04576 m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24in	40	16.49 Lbs ±10%	25.73Lbs ±10%	1.616 ft ³
R 67	270*300*0.14mm	/	/	520*370 *300mm	36	8.86KG ±10%	13.07KG ±10%	0.0577m ³
	10.63*11.81*0.0056 in	/	/	20.47*14.57 *11.81 in	36	19.53Lbs ±10%	28.81Lbs ±10%	2.038ft ³


 **Cautions**

IP20	IP54	IP65	IP67	IP68
				
Do not press the surface of LED	Pay attention to high temperature environment	Do not use in strong water waves environment	Resist strong water waves impact	Can apply to underwater do not deeper than 1m
				
Pay attention to damp-proof and dustproof	Do not apply to rainy environment	Can be applied to rainy environment	Do not apply to underwater environment for a long time	No direct sunlight

							
Do not tie a knot	Do not winding	Do not twist	Do not cut when it is working	Recommended the continuous working time do not exceed 12 hours daily	-20°C~+45°C (-4°F~+113°F)	0°C~+60°C (32°F~+140°F)	Operated by professionals
							
Pay attention to the application environment	IP Level will change after cutting	Do not pull and crash	Connected to power supply every 5 meters	Power supply must be connected to ground(GND)	The minimum bending diameter > 60mm	Power supply retain > 20%	Note the positive and negative poles

 For cutting LED strip operation, it is necessary to use the standard accessories provided by Dilux (e.g. DC wire, end-cap, front-cap, adhesive, etc.), and according to the correct cutting and connecting method for the installation.

 For avoiding LED get vulcanized, LED strip should be installed in the environment where does not has oil and corrosive substances. Such as these substances which contain Sulphur, Bromine, Iodine and Chlorine. Some other chemical elements which will cause Aromatic hydrocarbons releasing(such as: methylbenzene, xylene, methyl acetoacetate Ethyl acetate etc.),The environment in which includes strong acid and strong base.

 During the warranty period, only defective products are acceptable to be replaced by the factory. Factory is not responsible for other expenses because of replacement, such as transportation fee, installation fee, etc..

**** If you do not follow the above "Cautions" to operate and result in damaging the product, the factory will not accept maintenance and return.**
****The right of final interpretation is owned by Dilux.**