



EMPIRE LED SOLUTIONS CANADA
An A.L Global Canada Inc. Company

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Product Specification

MODEL NUMBER: ELS-SWRGBW840F012W24-COB-0302W+0201R

SERIES:



ELEMENT

Confirmation	Approval.	Audit	Date	Version
	E.L	N/A	12.01.2021	3.0

Features

Using mini 0402 LED and flip chips as a primary light source. Glue is embedded on the surface, providing a uniform solid build.

Up to 840 LEDs each meter, only 3.57mm distance between same color LEDs.

Double layer FPC, balancing the voltage dropping, heat dissipation and flexibility.

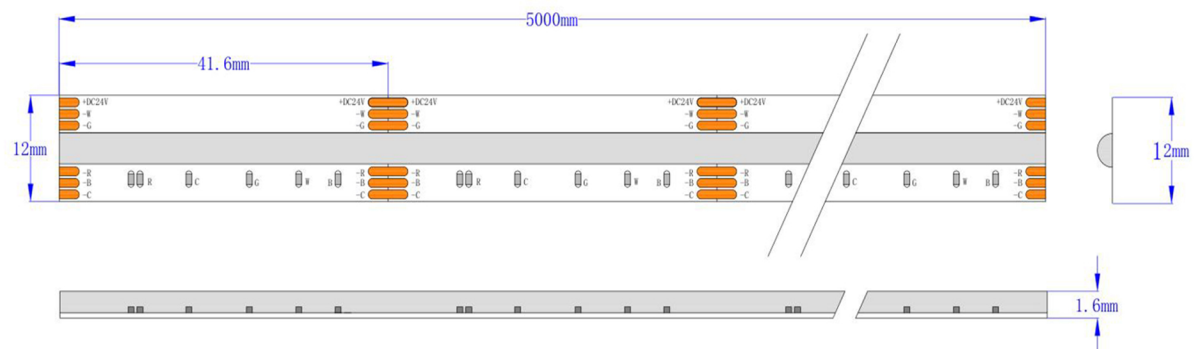
Compatible with most of the RGB controllers in the market

3M Extra strength providing a much more installation

Picture



Dimensions



Specifications

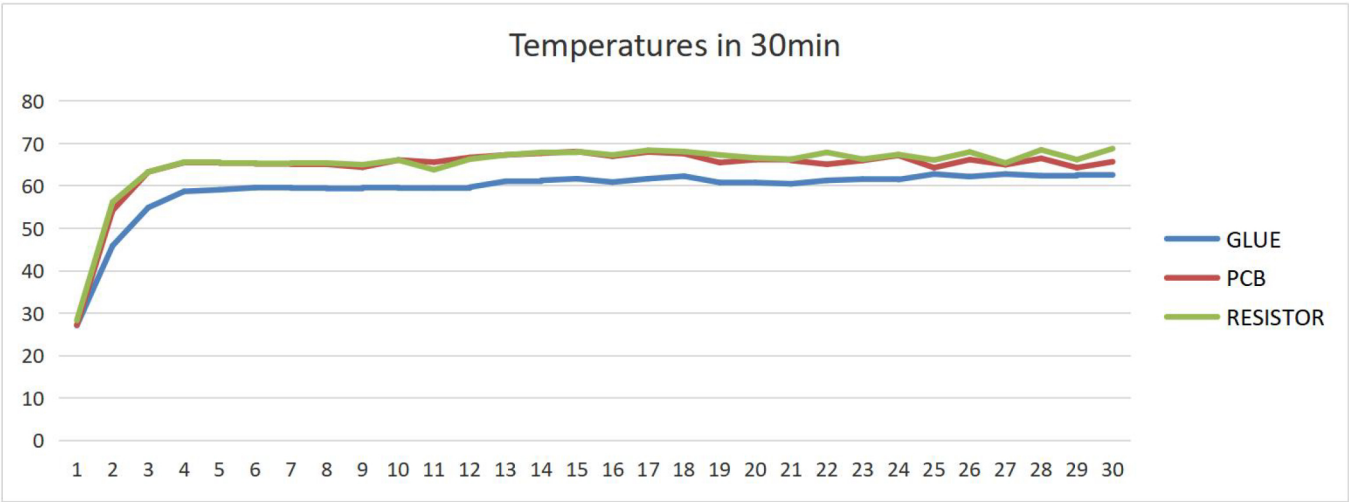
The given electrical data reflect typical values, each can vary up to 10%

Item NO.	 ELEMENT ELSCOB840212-RGBCCT RGBCCT Strip Only Bring Out The Artist In You					
Input Voltage	24V DC					
PCB	12mm Strip Width / 5M Length					
Colors	R	G	B	2700K	6500K	MIX
LED Chip/Meter	168	168	168	168	168	840
Power W/M	4.5	2	3	3.2	3.2	16
Efficiency	20 Lm/W	100 Lm/W	15 Lm/W	75 Lm/W	70 Lm/W	45 Lm/W
Brightness	90 Lm/M	200 Lm/M	45 Lm/M	240 Lm/M	224 Lm/M	720 Lm/M

Length	5 meters
Size	Width: 12mm
Cutting Length	50mm
Lifespan	50,000 H
Working Temperature	-20°C - 40°C
Storage Temperature	-20°C - 45°C
Warranty	3 Year

* The above measurements of watts, brightness and efficiency allowance tolerance $\pm 10\%$.

* The above measurements are based on IP20.



* The above curves shows the components' temperatures changes according to the time, after **powering** within 30 minutes.

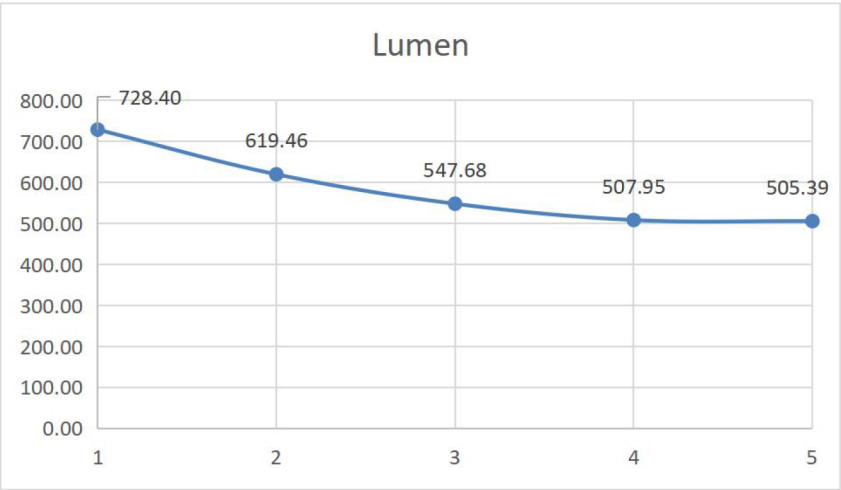
* The x-axis shows the time from 1st min to 30th min.

* The y-axis shows the changes of Resistor, PCB, Glue and Room.

Brightness Consistency

The following charts shows the voltage, lumen and brightness drop on each meter.

Brightness Consistency

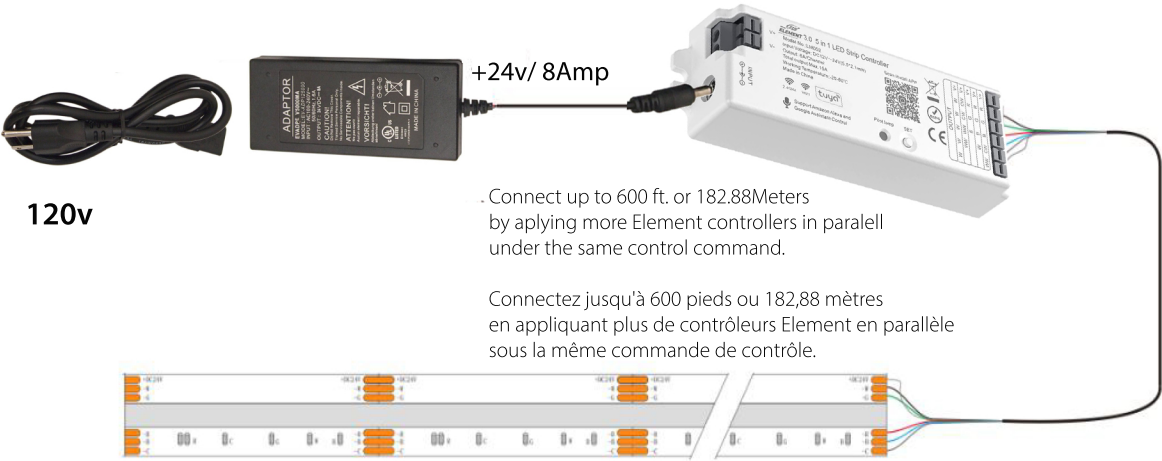


- * The above curve shows the lumen on each meter, and the length of tested led strip is 5 meters.
- * Based on above data, the recommended length is 5m by one-end power for better brightness consistency.

Waterproof Option

Waterproof Ways	IP Rating	Details
	IP65	Injected with Silicone Tube + \$29.99CAD

Installation Ways



- * For powering on one side, the recommend running length is10meters, for over11meters please connect in parallel.
Pour alimenter d'un côté. La longueur de course recommandée est de10mètres. Tout ce qui dépasse11 mètres est suggéré de se connecter en parallèle.
- * Make sure that the total wattage of the COB strip light is less that 80% of the power supply's max. output
Assurez-vous que la puissance totale de la bande lumineuse COB est inférieure à 80% de la puissance maximale de l'alimentation. sortir
- * Match the polarities according to the marks in the PCB while connecting.
Faites correspondre les polarités selon les marquages dans le PCB lors de la connexion