

INTRODUCTION

Wamco **F-LED 125** is an LED illumination system for front-lit or back-lit channel letter signage as well as indoor and outdoor decorative lighting. **F-LED 125** is typically used in small stroke width channel letter illumination applications. **F-LED 125** provides many advantages including brilliant white light output, significant energy savings and reduced maintenance costs.



FEATURES

- Energy efficient (up to 80% energy efficiency over neon)
- Long service life (up to 30,000 hours)
- Easy installation and maintenance
- 100% waterproof (IP67)
- Safety due to low voltage operation (12VDC)
- 3 year warranty



APPLICATIONS

- Signage (small stroke channel letters)
- Indoor & outdoor lighting decorations

CERTIFICATIONS

- UL (E258512), CE, RoHS



MATERIALS

- CASE : PBT (UL Recognized), WIRE : AWG 20 (80°C)

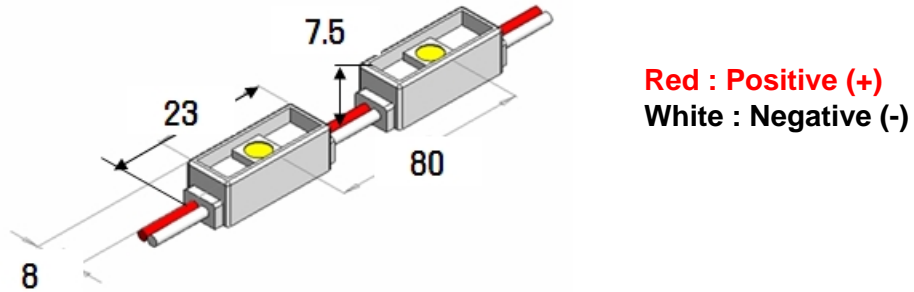
SPECIFICATIONS

- Operating Temp. : -20°C~+70°C

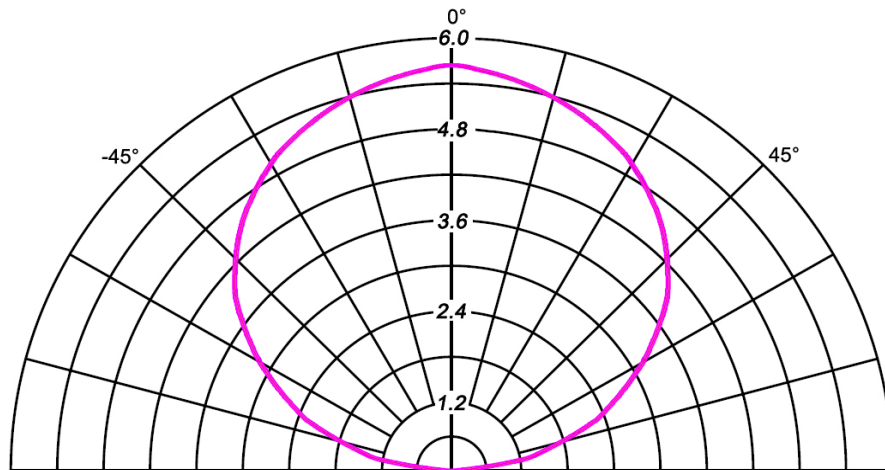
Color	White
Model	WL-BFL125-DW12
Input Voltage	12VDC
Operating Current	0.02A (Max.)
Power Consumption	0.24W (Max.)
Dimensions	23mm(L) x 8mm(W) x 7.5mm(H)
Viewing angle	120°
Luminous Flux (Typ.)	13lm
Wavelength Color Temp.	8,200K~15,000K 6,000K~8,200K



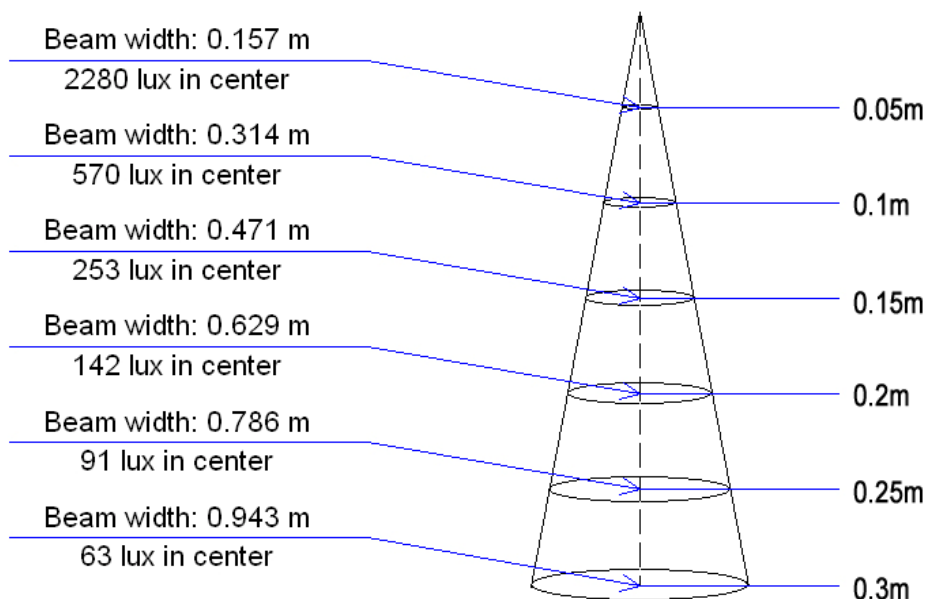
PHYSICAL SPECIFICATION (Unit : mm)



LUMINOUS INTENSITY DISTRIBUTION (WHITE, Unit : cd)



ILLUMINATION DISTRIBUTION (WHITE, Unit : lx)



LUMINOUS FLUX RANK

Ta=25°C

Rank		White
O	11~14(lm)	●

* Measurement allowance is ± 10%

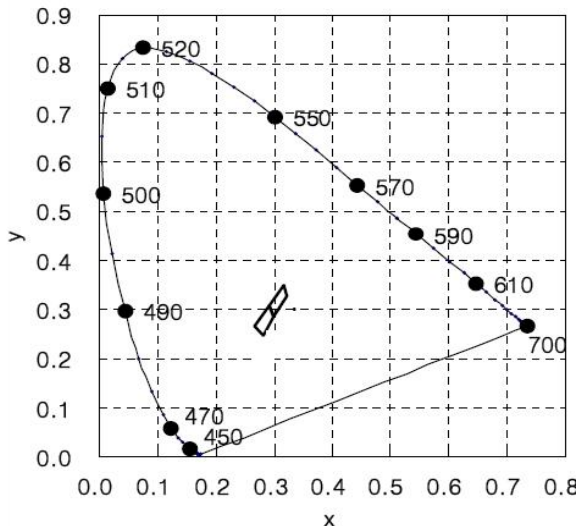
COLOR RANK

Ta=25°C

Rank		Color Coordinates				CCT	
A	x	0.2805	0.2896	0.2833	0.2725	10,200K~ 15,000K	
	y	0.2465	0.2648	0.2763	0.2564		
C	x	0.2725	0.2833	0.2783	0.2655		
	y	0.2564	0.2763	0.2854	0.2650		
B	x	0.2896	0.2995	0.2951	0.2833		8,200K~ 10,200K
	y	0.2648	0.2849	0.2981	0.2763		
D	x	0.2833	0.2951	0.2919	0.2783		
	y	0.2763	0.2981	0.3077	0.2854		
G	x	0.2951	0.3065	0.3046	0.2919	7,000K~ 8,200K	
	y	0.2981	0.3192	0.3285	0.3077		
E	x	0.2976	0.3081	0.3065	0.2951		
	y	0.2906	0.3110	0.3192	0.2981		
H	x	0.3065	0.3178	0.3165	0.3046		6,000K~ 7,000K
	y	0.3192	0.3401	0.3480	0.3285		
F	x	0.3081	0.3190	0.3178	0.3065		
	y	0.3110	0.3322	0.3401	0.3192		

* Measurement allowance is ± 0.01

<Serial No.>

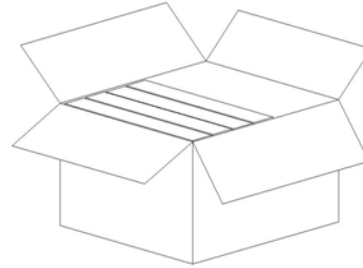
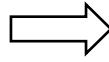


H 7 OG W	
H	Manufacturing year - 2001 : A,2008 : H.....
7	Month - 1~9 : 1~9 Ex) July. - "7" - 10 : "X" - 11 : "Y" - 12 : "Z"
OG	Rank (O : Luminous flux rank , G : Color rank)
W	LED Color



PACKAGE

1 pack = 50 modules



1000 modules

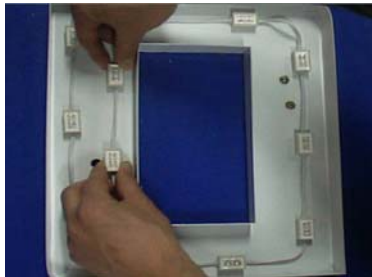


INSTALLATION

- Determine number of modules, pitch and power supplies needed based on channel depth, stroke, cover materials, total power consumption of the modules, etc.



1) Clean inside the channel letters.



2) Remove VHB tape on the backside of the modules and attach modules according to the layout determined. For secure mounting, use screws or silicone.



3) Connect modules in series or parallel with wire nuts or electric tape after considering the maximum number of modules in series. Cap all unused wires. Place silicone in the wire nuts for maximum outdoor protection.

⚠ Caution :

Check polarity. All connections must be Red (+ : Positive) to Red and White (- : Negative) to White.



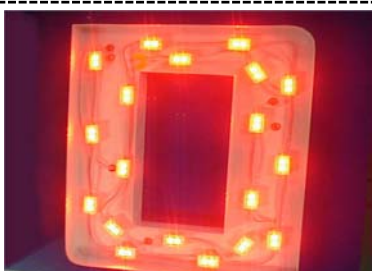
4) Drill holes at the bottom or side of the letters for the wire connection to DC power supplies, place bushings into the holes and thread wires out of the letters.



5) Connect DC wires from the letters to DC power supplies and AC wires from input power source to DC power supplies. Check DC polarity (+ : Positive, - : Negative) and AC connection (L, N, FG : 1 phase, 100~240VAC, 50/60Hz).

⚠ Caution :

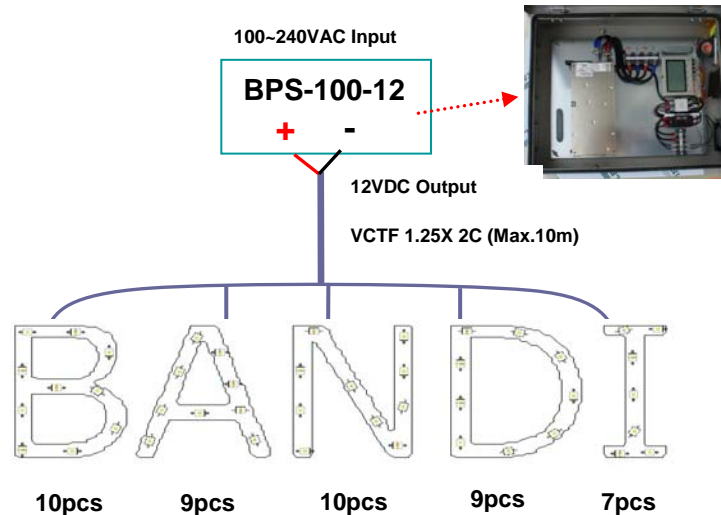
Electric power should be off when DC and AC wires are connected to DC power supplies.



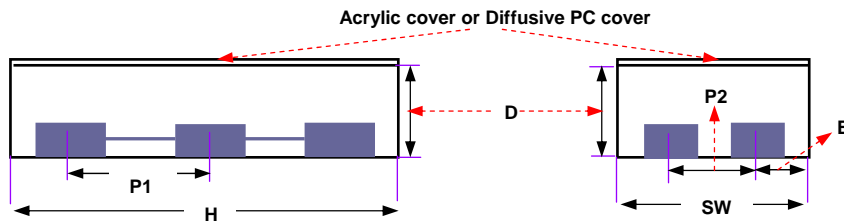
6) Turn on electric power and check all modules for illumination. Review all installation steps above if F-LED 125 fails to light.

INSTALLATION

- Recommended channel depth : **70mm~90mm** (less than 70mm depth, some dots may be seen through the cover)
- Recommended installation pitch between centers of the modules : **50mm~60mm at 70mm~90mm depth**
- Maximun number of modules connected in series : **50 modules**
- Installation layout (example) : Channel height-200mm, Channel depth-80mm, Stroke width-20mm



Total 45 modules (11W power consumption)



H	Channel Letter Height	
D	Channel Letter Depth	70mm~90mm
SW	Channel Letter Stroke Width	
E	Distance between the center of the LED module to the edge of the Channel letter	
P1	Installation pitch in a row	50~60mm
P2	Installation pitch in a column	

■ Primary DC Cable Specification Table

Module Number connected	Cable Specification
~200 modules	VCTF 1.25X2C
~300 modules	VCTF 2.0X2C
~500 modules	VCTF 3.5X2C
~700 modules	VCTF 5.5X2C

■ Power Supply Capacity Table

Power Supply	Max. Module Number connected
BPS-020-12 (20W,Outdoor)	60 modules
BPS-040-12 (40W Outdoor)	120 modules
BPS-060-12 (60W Outdoor)	180 modules
BPS-100-12 (100W,Indoor)	300 modules
BPS-300-12 (300W,Indoor)	900 modules

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