



Specification

LED COB Strip Light

WINFLY378-24V Series

Version: 01

Client Approval

| Reviewed by | Approved by |
|-------------|-------------|
| | |

Supplier Approval

| Reviewed by | Approved by | Prepared by |
|-------------|-------------|-------------|
| | | |

1. Basic Parameter

| | |
|-----------------|----------------------|
| Input voltage | DC24V |
| Input Current | 0.416A/1m & 2.08A/5m |
| Power Type | 10W/1m & 50W/5m |
| Maximum Watt | 50W |
| IP Rating | IP20 |
| Standard Length | 5M |
| Bandwidth | 8mm |
| TA | -20~+60°C |
| TC | -40~+60°C |
| Humidity | 40-70%RH |
| Warranty | 5 years |
| Certificate | CE ROHS FCC |
| Beam Angle | 180° |
| CRI | >90 |

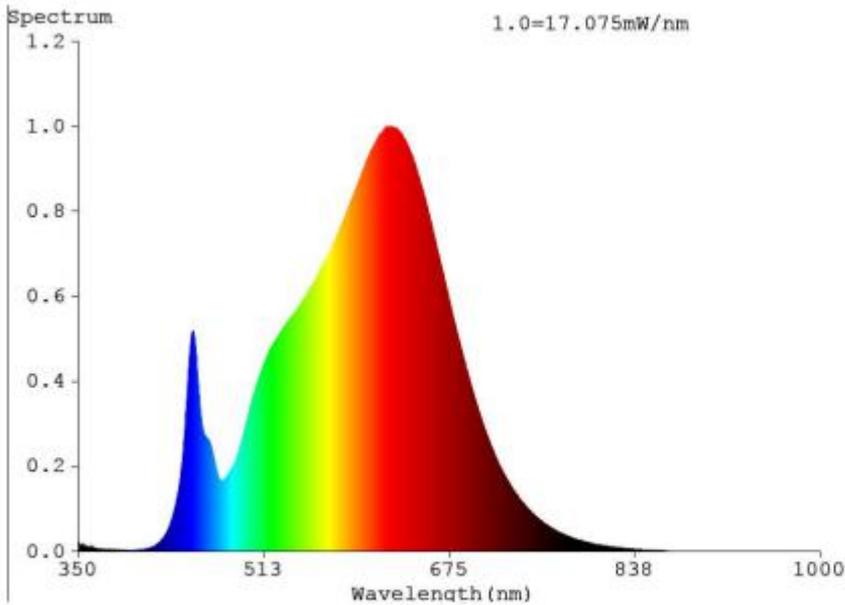


2. Features and advantages

- (1) 24V constant voltage
- (2) Multi optional CCT, 2700、3000、4000 and 6500K, SDCM \leq 5, high color saturation.
- (3) 3M backside adhesive tape, convenient to assemble on various surfaces.
- (4) Customized design on height to cut on different applications.
- (5) System solution in combination with WINFLY constant voltage LED driver (fixed output)
- (6) COB led Chips

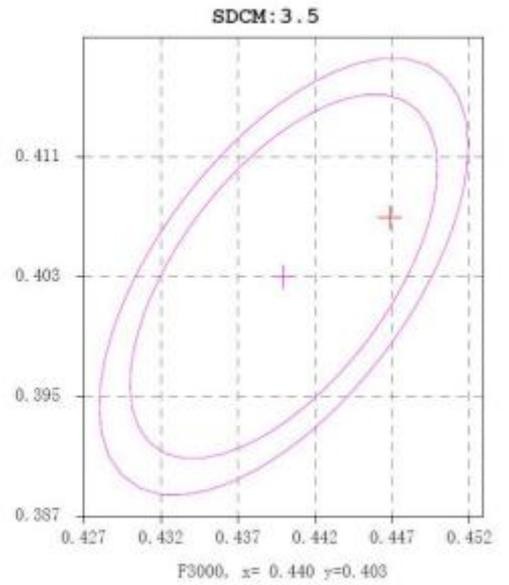
WINFLY378 LED-Flexible COB Strip Light

3. Light Spectrum Feature curved/Color Tolerance/White light grading /chromaticity diagram



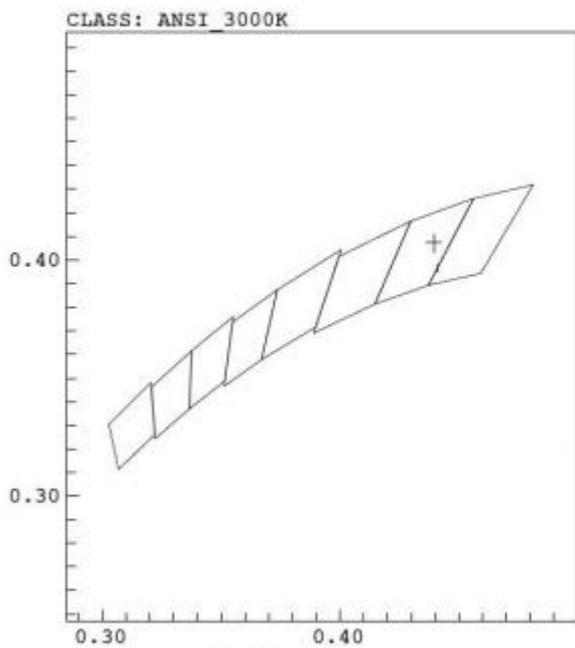
(光谱特性曲线图)

Light Spectrum Feature curved Diagram)



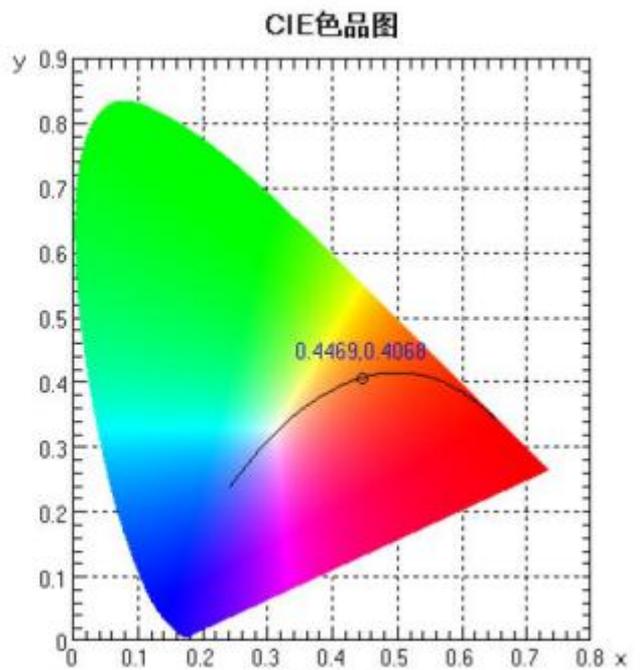
(色容差图)

(Color Tolerance Diagram)



(白光分级图)

(White light grading Diagram)

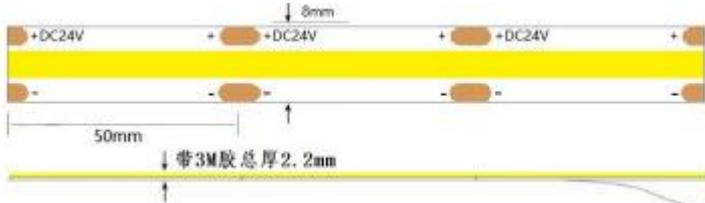


(色品图CIE)

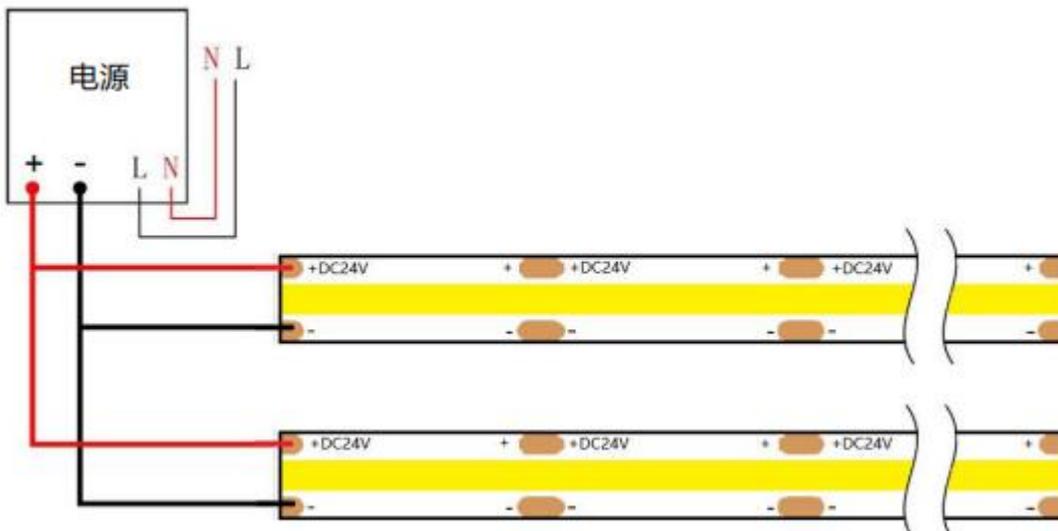
(chromaticity diagram CIE)

4. Diagram (Unit: mm)

378chips/m 24V



5. Installation Diagram:



6. Instruction

- 1> This product applies to 12V DC, exclude protection of short circuit, overloaded or over heated. To avoid mentioned risk above, it is necessary to protect it on adopting electric stable power.
- 2> 3MM double sides adhesive tapes which is easy to assemble. Clean and clear surface is requested. Installation board requested to be enough structure integrity. Notice to remove all the protection back cover. Press the strip light tightly when it is ready. White wire is negative pole, grey wire is positive pole. Wrong poles connection will cause to fail on lighting up, but will not damage the strip light, only need to correct the right poles.
- 3> Bared wires needed to be cut off, isolated by isolated adhesive tape or wire connecting cap.
- 4> Installation of LED strip light (with power) must consider the appliances used and the safety standard. Only qualified person is allowed to operate.

WINFLY378 LED-Flexible COB Strip Light

7. Product Code Definition

Product Codes constitutes 11 parts as below :

Example: WINFLY360 - NWD12CA20-D9

| | | | | | | | | | | |
|--------|-----|---|---|---|----|---|---|----|---|---|
| WINFLY | 378 | N | W | D | 24 | E | B | 20 | D | 9 |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ |

- ① Company Name Spelling
- ② No. Of Led chips per meter
- ③ Function Features Codes
- ④ Strip Light Color
- ⑤ Voltage Type
- ⑥ Voltage
- ⑦ Constant Power
- ⑧ Size Code
- ⑨ IP Grade
- ⑩ CCT
- ⑪ CRI

| Abbr. Of company name | | qty of Led chips | | | | Functional Code | | | | Color | | Voltage type | | |
|-----------------------|-----|------------------|------|---|-----|-----------------|--------------------|----------|------|-------|----------------|--------------|-------|----|
| ① | | ② | | | | ③ | | | | ④ | | ⑤ | | |
| WINFLY | | 210 | 512 | | | N | Normal | | | W | White | | D | DC |
| | | 360 | 528 | | | C | CCT Adjustable | | | R | Red | | A | AC |
| | | 378 | 546 | | | X | RGB(X) | | | G | Green | | | |
| | | 384 | 1008 | | | W | RGB(W) | | | B | Blue | | | |
| | | 480 | 1134 | | | S | Silicone neon tube | | | Y | Yellow | | | |
| | | 504 | 320 | | | | | | | U | Unconventional | | | |
| Input Voltage | | Power | | | | Bandwidth | | IP Grade | | CCT | | CRI | | |
| ⑥ | | ⑦ | | | | ⑧ | | ⑨ | | ⑩ | | ⑪ | | |
| 12 | 12V | A | 16W | F | 55W | A | 5MM | 20 | IP20 | X | COLOR | X | COLOR | |
| 24 | 24V | B | 20W | G | 60W | B | 8MM | 65 | IP65 | H | 2700K | 8 | Ra80+ | |
| 5 | 5V | C | 30W | H | 75W | C | 10MM | 67 | IP67 | G | 3000K | 9 | Ra90+ | |
| | | D | 45W | I | 80W | D | 12MM | | | E | 3500K | | | |
| | | E | 50W | J | 90W | | | | | D | 4000K | | | |
| | | | | | | | | | | C | 5000K | | | |
| | | | | | | | | | | A | 6500K | | | |



WINFLY378LED-Flexible COB Strip Light

8. Product Parameter

8.1、 Chip 378 White Light Strip Light

| Model No | CCT | luminous efficacy (lm/w) | luminous efficacy (lm/w) m/w) | Chip No. | Cutting Length | Power |
|--------------------------|-------|--------------------------|-------------------------------|----------|----------------|--------|
| WINFLY378 - NWD24EB20-H9 | 2700K | 940 lm/m | 94 lm/w | 378 | 50mm | 10W /m |
| WINFLY378 - NWD24EB20-G9 | 3000K | 960 lm/m | 96 lm/w | 378 | 50mm | 10W /m |
| WINFLY378 - NWD24EB20-D9 | 4000K | 980 lm/m | 100 lm/w | 378 | 50mm | 10W /m |
| WINFLY378 - NWD24EB20-A9 | 6500K | 1000 lm/m | 110 lm/w | 378 | 50mm | 10W /m |

8.2、 Chip 378 Colorful Light Strip Light

| Model No | Color | Wave Length | luminous efficacy (lm/w) m/w) | Chip No.s | Cutting Length | Power |
|--------------------------|--------|-------------|---------------------------------|-----------|----------------|--------|
| WINFLY378 - NRD24EB20-XX | Red | 620-630nm | 15 lm/m | 378 | 50mm | 10W /m |
| WINFLY378 - NRD24EB20-XX | Green | 520-530nm | 76 lm/m | 378 | 50mm | 10W /m |
| WINFLY378 - NRD24EB20-XX | Blue | 450-460nm | 16 lm/m | 378 | 50mm | 10W /m |
| WINFLY378 - NRD24EB20-XX | Yellow | 585-595nm | 57 lm/m | 378 | 50mm | 10W /m |

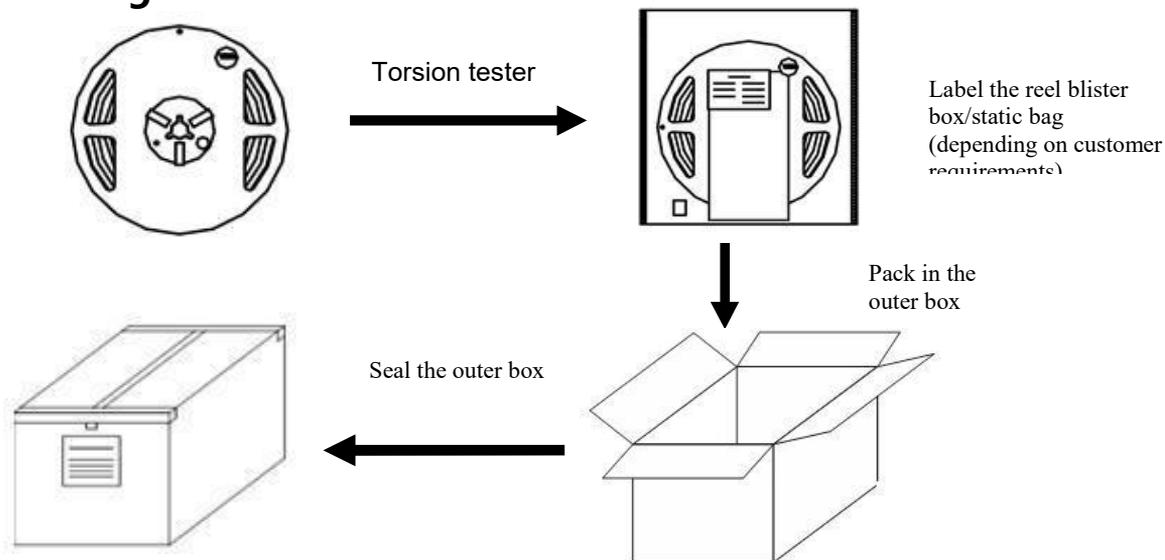
Remarks

- 1、 Data differentiates tolerance 15%
- 2、 Output date in line with IES TM-30-15
- 3、 IP Rating will effect the change of size, CCT and Luminous Flux.

9. Reliable test standard

| Criteria | Test qty | Test conditions | Criteria | Test equipment |
|--------------------------|----------|--|--|---------------------------------|
| Hot/Cold impact | 10 | -40 °C 15min , then 105°C 15min, Conversion time: 30s, total 100Cycle | No cracked glue or dead light | Cold and hot shock chamber |
| Normal temperature aging | 10 | 25±3°C, rated voltage /1000hr; 168H test the photoelectric parameters once every 168hr. | No cracking glue, no dead lamp, light decline ≤10% | Normal temperature aging holder |
| High temperature aging | 10 | 85±3°C, rated voltage /1000hr; 168H test the photoelectric parameters once | No cracking glue, no dead lamp, light decline ≤10% | High temperature aging chamber |
| Torsion test | 10 | 1m LED strip, initial tension value of torsion meter 0.5kg-1.0kg, forward 3 turns, reverse 3 turns, 200cycle | No crack glue, no dead lamp | Torsion tester |

10. Packing



The packaging information is for reference only, and the physical packaging shall prevail

| QTY per CTN(Roll) | QTY per CTN(Roll) | Length per roll (m) | Total (Kg) | Carton Measurement (mm) | | |
|-------------------|-------------------|---------------------|------------|-------------------------|-------|--------|
| | | | | Length | Width | Height |
| IP20 | 80 | 5 | 8.5 | 368 | 300 | 402 |