

CENTRIC HOME™ LED Strip Lights for Home & Residential - 24V

PN 3004.27 | 3004.30

Waveform Lighting's CENTRIC HOME™ LED strip lights feature ultra-high light quality that truly replicates incandescent and halogen lighting in a versatile and modern LED strip form factor.

Available in 2700K or 3000K with the industry's highest color rendering, objects will appear warm yet vivid, all the while consuming just a fraction of the energy.

Flexible and cuttable to length in 2 inch increments, these LED strips are an excellent option for high-end residential and hospitality lighting applications.

PRODUCT FEATURES

- Available in both 2700K (incandescent) or 3000K (halogen)
- 95+ CRI and R9 > 90
- 450 lumens per foot (1500 lumens per meter)
- Ultra-high density of 37 LEDs per foot (120 LEDs per meter)
- 4 oz copper circuitry for reduced voltage drop
- 3M™ VHB™ double-sided adhesive pre-applied on backside
- UL listed (E508810), for indoor use only

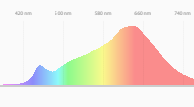
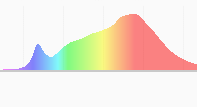
ELECTRICAL SPECIFICATIONS

Input type:	DC Constant Voltage
Input voltage:	24V DC
Current draw per ft:	225 mA @ 24V DC
Current draw per reel:	3.8 A @ 24V DC
Power draw per ft:	5.5 W @ 24V DC
Power draw per reel:	90 W @ 24V DC
Max run:	32.8 ft (10 meters)

MECHANICAL SPECIFICATIONS

Length:	16.43 ft (5008 mm)
Width:	0.394 in (10 mm)
Height:	0.067 in (1.7 mm)
LED Density:	37 per ft (120 per m)
LED Spacing (OC):	0.327 in (8.3 mm)
Cut-line spacing:	1.968 in (50 mm)
PCB copper thickness:	4 oz
Wire leads (both ends):	16 AWG, 13.78 in (350 mm)

PHOTOMETRIC SPECIFICATIONS

Light output per ft:	450 lumens
2700K CCT:	2700K ± 50K
3000K CCT:	3000K ± 50K
2700K Duv:	0.0000 ± 0.0008
3000K Duv:	0.0000 ± 0.0008
2700K CIE xy:	(0.4598, 0.4106)
3000K CIE xy:	(0.4371, 0.4040)
Beam angle:	120°
CRI Ra:	95+
CRI R9:	90+
CRI R13:	90+
TM-30-15 Rf/ Rg:	90+/100
2700K Spectrum:	
3000K Spectrum:	

EXTENDED CRI VALUES (TYPICAL)

R1	99
R2	99
R3	97
R4	97
R5	99
R6	98
R7	98
R8	98
R9	94
R10	98
R11	95
R12	92
R13	100
R14	97
R15	100

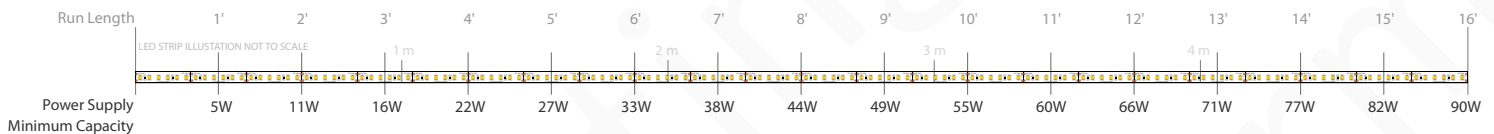
LIFETIME INFORMATION

Warranty period:	36 months (3 years)
Lifetime (L90):	45,000 hours
Lifetime (L70):	54,000+ hours

Lifetime data are based on LED case temperatures (T_c) of 185°F (85°C) using LM-80 and TM-21 calculation methods at 9k hours of actual test data. L90 refers to 90% lumen maintenance (10% light loss), and L70 refers to 70% lumen maintenance (30% light loss).

POWER SUPPLY REQUIREMENTS

The amount of power needed to operate the LED strip lights depends on the total length of the LED strip run. Ensure that any third-party power supplies have sufficient power capacity to operate the LED strip configuration using the chart below.



COMPATIBLE ACCESSORIES

Power Supplies:	3094.096, 3102, 3104, 3092 [†]
Connectors:	3070, 3071, 3072, 7098, 7094 [‡] , 7095 [‡]
Dimmers:	3081, 3094.096 + TRIAC wall-dimmers [§]
Aluminum Channels:	3060, 3061

[†] Requires PN 7094 or equivalent adapter to connect
[‡] Requires connection to wires pre-installed on reel ends, or PN 3070
[§] See tested dimmer list under PN 3094 for additional details

THERMAL MANAGEMENT

Max Ambient Temp (T_A):	125°F (50°C)
Max Case Temp (T_c*):	185°F (85°C)
Typical temp rise:	Δ54°F (Δ30°C)

These LED strip lights are designed to be operated without the need for any additional thermal management. Aluminum channel accessories may assist somewhat in dissipating heat away from the LED strip lights, but are not necessary.

*T_c refers to the temperature of the solder joint between the LED and circuitboard. For non-typical installations where power or thermal density may be higher, monitor this T_c temperature point and verify that the LED solder joints remain below 185°F (85°C) after the system reaches thermal stability.

PART NUMBERS AND ORDERING

2700K:	3004.27
3000K:	3004.30

For DC 12V versions, see PN 3003.27 and 3003.30. For 4000K and 5000K versions, see PN 3004.40 and 3004.50

CERTIFICATIONS



CAUTION: USE ONLY WITH CLASS 2 POWER UNIT. SUITABLE FOR USE UNDER CABINET OR SURFACE MOUNT. SUITABLE FOR DRY LOCATION USE ONLY. UNCOIL LED REELS BEFORE APPLYING POWER.