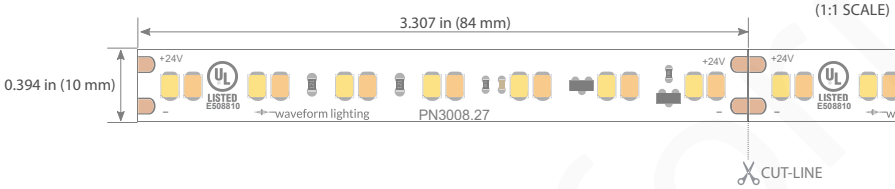
DynaWhite™ Dim-to-Warm LED Flexible Strip - 4000K

PN 3008.40

Waveform Lighting's DynaWhite™ Dim-to-Warm LED strip lights feature cutting-edge integrated chips that lower the light's color temperature as it dims. This dynamic color temperature adjustment allows the LED strip light to exhibit dimming performance that closely matches incandescent bulbs in both brightness and color change.

Configured to emit 4000K at full brightness, the light strip smoothly and gradually reduces its color temperature down towards 3000K as it approaches the 0% dimmer setting. Our industry-leading 95 CRI color quality is maintained throughout the dimming curve.

MECHANICAL DIMENSIONS
(1:1 SCALE)



MECHANICAL DIMENSIONS
(1:4 SCALE)

PRODUCT FEATURES

- Color temperature of 4000K at max brightness, lowers to 3000K as it dims
- 95+ CRI and R9 > 90 throughout dimming range
- Compatible with PWM-based dimmers @ 30kHz
- Optimized chip design for ultra-smooth dimming
- Carefully calibrated LED chromaticity to eliminate pink hues during dimming
- 450 lumens per foot (1500 lumens per meter)
- 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)

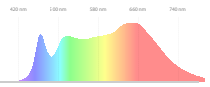
MECHANICAL SPECIFICATIONS

Length:	16.43 ft (5008 mm)
Width:	0.394 in (10 mm)
Height:	0.067 in (1.7 mm)
LED Density:	52 per ft (168 per m)
Cut-line spacing:	3.307 in (84 mm)
PCB copper thickness:	4 oz
Wire leads (both ends):	16 AWG, 13.78 in (350 mm)

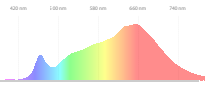
PHOTOMETRIC SPECIFICATIONS

Light output per ft:	450 lumens
4000K CCT:	4000K ± 50K
3000K CCT:	3000K ± 50K
4000K Duv:	0.0000 ± 0.0008
3000K Duv:	0.0000 ± 0.0008
4000K CIE xy:	(0.3806, 0.3768)
3000K CIE xy:	(0.4371, 0.4040)
Beam angle:	120°
CRI Ra:	95+
CRI R9:	80+
CRI R13:	90+
TM-30-15 Rf/ Rg:	90+/100

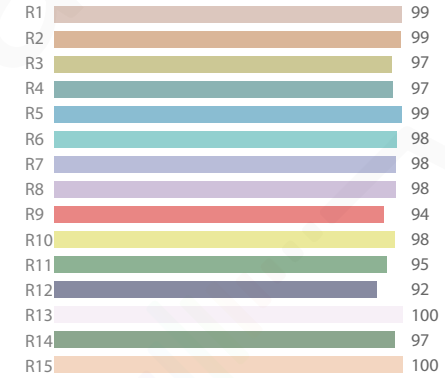
4000K Spectrum:



3000K Spectrum:



EXTENDED CRI VALUES (TYPICAL)



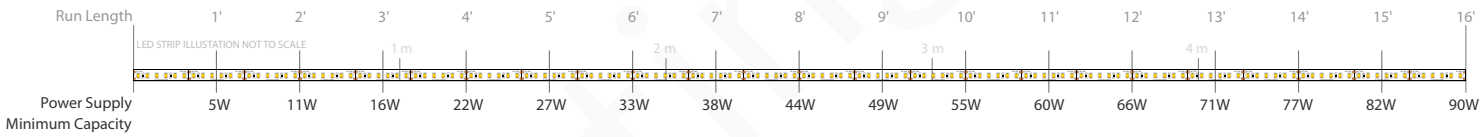
LIFETIME INFORMATION

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

4000K:	3008.40

2700K version also available; please reference PN 3008.27

CERTIFICATIONS

LOW VOLTAGE LUMINAIRE
E508810

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.

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