

CENTRIC DAYLIGHT™ LED Strip Lights for Commercial & Industrial

PN 3004.40 | 3004.50

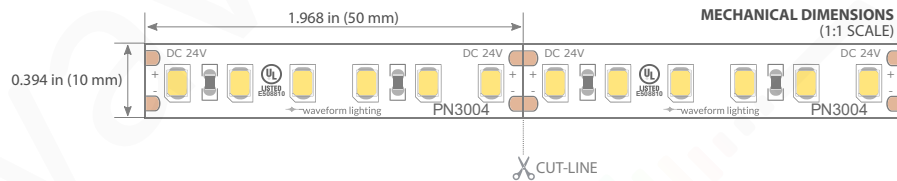
Waveform Lighting's CENTRIC DAYLIGHT™ LED strip lights are the perfect solution for color-critical lighting installations in commercial and industrial settings.

Available in 4000K or 5000K with the industry's highest color rendering, objects will appear bright and vivid, matching the color appearance of natural daylight.

The LED strips are 16.4 feet (5.0 meters) in length, and are conveniently reeled for quick and easy application, and can be cut to length every 2 inches (50 mm) with just a pair of scissors.

PRODUCT FEATURES

- Available in both 4000K or 5000K
- 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
4000K CCT:	4000K ± 100K
5000K CCT:	5000K ± 100K
4000K Duv:	0.0000 ± 0.0008
5000K Duv:	0.0020 ± 0.0010
4000K CIE xy:	(0.3806, 0.3768)
5000K CIE xy:	(0.3455, 0.3560)
Beam angle:	120°
CRI Ra:	95+
CRI R9:	90+
CRI R13:	90+
TM-30-15 Rf/ Rg:	90+/100



EXTENDED CRI VALUES (TYPICAL)

R1	96
R2	97
R3	99
R4	95
R5	96
R6	96
R7	99
R8	97
R9	90
R10	93
R11	91
R12	91
R13	96
R14	99
R15	95

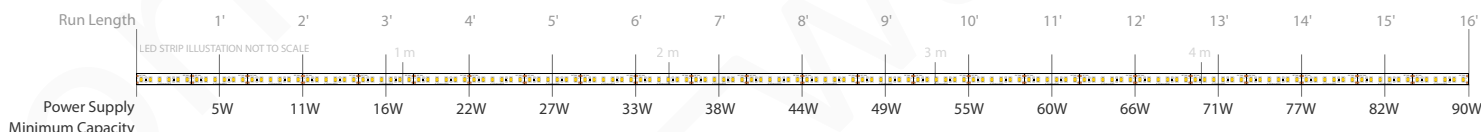
LIFETIME INFORMATION

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:	3004.40
5000K:	3004.50

For 2700K and 3000K, see PN 3004.27 and 3004.30. There is no DC12V version in 4000K and 5000K offered at this time.

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.