EXTERIOR LINEAR™ CTC

320 CTC GRAZE / 320 CTC COVE / 1220 CTC GRAZE / 1220 CTC COVE

HIGHLIGHTS

• Linear color temperature controlled LED fixture with high output color mixing
• Robust outdoor-rated fixture available in two lengths
• Easy installation with integrated power supply

OVERVIEW

The Exterior™ Linear CTC is a series of high output LED color temperature controlled (2700K – 6500K) fixtures in a robust outdoor-rated housing. Available in cove and graze light versions in different sizes for perfect fitting, the series is designed to illuminate walls and any other type of linear structure and features uniform light distribution. The graze version is available at four different beam angles, ideal for highlighting textured surfaces. The Cove version features a uniform light distribution at a beam angle of 105°, suitable for a wide range of indirect lighting applications such as cove lighting in ceilings, decorative wall lighting and other structures. An integrated universal power supply makes installation a breeze and the DMX controllable fixture is easy to daisy chain using a combined power and data connector.

KEY MESSAGES

NARROW BEAM CONTROL

Color temperature control based on Warm, neutral and cool White Cree XP-E2 LEDs. The Exterior Linear CTC Graze offers a narrow beam angle configuration and optimum brightness for large-scale graze lighting applications.

WEATHERIZED, STURDY DESIGN

The Exterior Linear CTC is designed for permanent outdoor installation. IP 66-rated, it is efficiently protected against intrusion of dust and water, while its IK08-classification ensures great protection against external mechanical impacts.

SIMPLE INFRASTRUCTURE

The Exterior Linear CTC features a built-in power supply which auto-ranges 100-277 V, allowing for long fixture runs of up to 25 x 4 ft fixtures (100 ft at 230 V). The IP-rated hybrid connector ensures hassle-free, fast installation with no extra control boxes required.
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FEATURES

- Robust, outdoor IP-66 rated linear fixture
- Discreet warm, neutral and cool white LED for 2700K-6500K color temperature control
- Available in 1 and 4 ft versions to fit structural elements
- End-to-end connection or via connection cables
- Internal power supply for long fixture runs
- Easy installation due to hybrid power/data cable
- DMX control either as complete fixture or segment (1 ft) control
- 0-100% intensity control
- Remote Device Management (RDM) for remote reading of run hours and parameter setting
- Magnetic tool for fast local diagnostics
- Graze version with four beam angle options, including narrow for impressive graze effects
- Dedicated cove version for maximum spread of light
- Accessory glare shield available for improved glare control
- Low power consumption (max 20 W/ft)
- No extra control boxes required—connects directly to line voltage and DMX
- Automatic thermal management for full protection of LEDs and components

ORDERING INFORMATION

**GRAZE VERSIONS**

- Exterior Linear 320 CTC Graze, Narrow ..................... P/N 90356988
- Exterior Linear 320 CTC Graze, Medium .................... P/N 90356975
- Exterior Linear 320 CTC Graze, Wide ....................... P/N 90356974
- Exterior Linear 320 CTC Graze, Asymmetric ............... P/N 90356973
- Exterior Linear 1220 CTC Graze, Narrow .................. P/N 90356989
- Exterior Linear 1220 CTC Graze, Medium .................. P/N 90356985
- Exterior Linear 1220 CTC Graze, Wide ..................... P/N 90356984
- Exterior Linear 1220 CTC Graze, Asymmetric ............. P/N 90356983

**COVE VERSIONS**

- Exterior Linear 320 CTC Cove.................................. P/N 90356977
- Exterior Linear 1220 CTC Cove............................... P/N 90356978

**ACCESSORIES**

- Glare Shield 300, Set of 4..................................... P/N 91611752
- Glare Shield 1200, Set of 4.................................... P/N 91611753
- Lead-in Cable, 2 M, EU ...................................... P/N 91611754
- Lead-in Cable, 10 M, EU ..................................... P/N 91611156
- Extension Cable, 0.2 M, EU................................. P/N 91611758
- Extension Cable, 1 M, EU................................. P/N 91611760
- Extension Cable, 5 M, EU................................. P/N 91611762
- Extension Cable 10 M, EU................................. P/N 91611764
- Lead-in Cable, 2 M, US................................. P/N 91611755
- Lead-in Cable, 10 M, US................................. P/N 91611157
- Extension Cable, 0.2 M, US................................. P/N 91611759
- Extension Cable, 1 M, US................................. P/N 91611761
- Extension Cable, 5 M, US................................. P/N 91611763
- Extension Cable 10 M, US................................. P/N 91611765
- End Termination Cap ................................. P/N 91611766
## TECHNICAL SPECIFICATIONS

### DYNAMIC EFFECTS
- Intensity: 0 - 100%
- Color temperature control: 2700K - 6500K
- Control: 1 ft segments or as one fixture

### CONTROL AND PROGRAMMING
- Control systems: DMX, RDM
- Control resolution: 8-bit DMX individual color control
- DMX channels: 2 - 12 depending on model and mode
- User interface: Magnetic switch to call up fixture status and diagnostics
- DMX compliance: USITT DMX12/1990
- RDM compliance: ANSI/ESTA E1.20

### OPTICS
- Light source: 3 W Cree XP-E2 LEDs
- LED manufacturer: Cree
- Minimum LED lifetime: 50,000 hours (to >70% luminous output)*

*Figure obtained under manufacturer's test conditions

### BEAM ANGLE (COVE MODEL)
- Beam angle: 105°

### BEAM ANGLE (GRAZE MODEL)
- Narrow: 12°
- Medium: 18°
- Wide: 70°
- Asymmetric: 12.5° x 74°

### PHOTOMETRICS
- **320 Grazing**
  - Total luminous output: 1100 lumens
  - Warm white output: 270 lumens
  - Neutral white output: 330 lumens
  - Cool white output: 440 lumens
- **1220 Grazing**
  - Total luminous output: 3040 lumens
  - Warm white output: 1080 lumens
  - Neutral white output: 1320 lumens
  - Cool white output: 1760 lumens

### PHOTOMETRICS
- **320 Cove**
  - Total luminous output: 846 lumens
  - Warm white output: 299 lumens
  - Neutral white output: 370 lumens
  - Cool white output: 491 lumens
- **1220 Cove**
  - Total luminous output: 1480 lumens
  - Warm white output: 1196 lumens
  - Neutral white output: 1830 lumens
  - Cool white output: 2484 lumens

### CONSTRUCTION
- Housing: Aluminum
- Finish: Clear anodized (standard) or white (optional)
- Front: Clear polycarbonate with diffuser
- Protection rating: IP66
- IK rating: IK08
- Corrosion resistance: C5-M (very high corrosivity/marine, ISO 12944)
- RoHS compliant
- Surge protection: 4 kV

### INSTALLATION
- Orientation: Any
- Minimum distance to illuminated surfaces: 0.1 m / 0.3 ft.

### ELECTRICAL
- Power/data in/thru: 8-pin custom connectors
- AC power: 100-277 V nominal, 50/60 Hz
- Power supply unit: Auto-ranging electronic switch-mode
- Maximum total length of fixtures: 19.24 m / 50 ft. (at 120 V)
- Maximum total length of fixtures: 30.5 m / 100 ft. (at 240 V)
- Maximum total length of fixtures: 36.5 m / 120 ft. (at 277 V)
- Maximum total cable length: 70 m / 230 ft. (at 120 V)
- Maximum total cable length: 100 m / 328 ft. (at 240/277 V)
- Typical half-cycle RMS inrush current: 310 model 0.3 A, 1210 model 0.7 A

### TYPICAL POWER AND CURRENT
- 100-240 V, 50/60 Hz: 20 W per foot +/- 1 W, PF 0.95 +/- 0.05
- 277 V, 50/60 Hz: 20 W per foot +/- 1 W, PF 0.90 +/- 0.05
- Figures are typical, not maximum. Measurements made at nominal voltage with all LEDs at full intensity.

### THERMAL
- Cooling: Convection
- Maximum ambient temperature: 45°C (113°F)*
- Minimum ambient temperature: -30°C (-22°F)
- Total heat dissipation: 70 BTU/hr. per foot

*Above this temperature, the fixture regulates output to protect from overheating

### APPROVALS
- EU Safety: EN 60598-2-1, EN 60598-2-1, [EN 60598-1], EN 60471, EN 60493 EU EMC: EN 55015, EN 55032 [EN 55103-1], EN 55103-2, EN 61547, EN 61000-3-2, EN 61000-3-3
- Canadian Safety: CSA C22.2 No. 250.0
- Australia/NZ: RCM
**DIMENSIONS**

**PHYSICAL**

**320 series (1 ft.) fixtures**
- Length: 305 mm / 12 in.
- Width: 72 mm / 2.8 in.
- Height, Graze: 96 mm / 3.8 in. incl. bracket
- Height, Cove: 89 mm / 3.5 in. incl. bracket
- Weight, Graze: 1.5 kg / 3.4 lbs.
- Weight, Cove: 1.6 kg / 3.6 lbs.

**1220 series (4 ft.) fixtures**
- Length: 1219 mm / 48 in.
- Width: 72 mm / 2.8 in.
- Height, Graze: 96 mm / 4.1 in. incl. bracket
- Height, Cove: 89 mm / 3.5 in. incl. bracket
- Weight, Graze: 6.0 kg / 13.3 lbs.
- Weight, Cove: 6.4 kg / 14.2 lbs.