

# EXTERIOR LINEAR PRO COVE CTC

OUTDOOR LINEAR COVE FIXTURE WITH COLOR TEMPERATURE CONTROL

SPEC SHEET

## HIGHLIGHTS

- Warm, neutral and cold white LED color temperature control
- Selectable segment modes
- Selectable power consumption and integrated multi-range power supply unit for long fixture runs
- Hybrid power and data connector for easy daisy-chained configurations
- Rugged IP66 housing designed for permanent outdoor installations
- Low weight - 0.8 kg/ft (1.9 lbs/ft)
- Compact design - 40mm (1.57 inch) width



## OVERVIEW

Martin Exterior Linear Pro Cove CTC outdoor fixtures are compact, LED-based architectural fixtures, available in 1 and 4 foot lengths making them easier to integrate into architectural elements. Delivering uniform light distribution at a 100 degree beam angle, they are ideal for illuminating high walls, linear structures and textured surfaces in permanent indoor/outdoor locations while maintaining intensity. CTC Cove models feature color temperature control (2700K, 4000K, 6500K), a high color rendering index (CRI) and 12 LEDs/ft delivering robust outputs of 600 lm/ft. They are ideal for achieving striking, indirect lighting for coves and ceilings or any application for an even flood light is required.

## KEY MESSAGES

### EASE OF INSTALLATION

The slim design makes them easier to integrate into architectural elements discreetly and with less structural requirements. A smart mounting plate design allows for a variety of standard or custom bracket solutions.

### SMART INFRASTRUCTURE

Fixtures are DMX-controllable and easy to install due to their integrated universal power supply. They can also be daisy-chained using a combined power and data connector, which enables long fixture runs for simpler infrastructures.

### SUPERIOR COLOR TEMPERATURE CONTROL

Cold, neutral, and warm LEDs are included for precise color temperature control from 2700K to 6500K at high efficacy with 12 LEDs/ft. They also feature a high color rendering index (CRI) for accurate reproduction of colors.

### EFFICIENT OPERATION

With more than 60 lm/W, Exterior Linear Pro CTC fixtures are highly efficient. Multiple power modes (12W/10W/5W, including ASHRAE compliance) can be set via Remote Device Management (RDM) to reduce power consumption as needed.

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## FEATURES

- Warm, neutral and cold white LED color temperature control (2700K, 4000K, 6500K) (12 LEDs/ft)
- 100° beam angle for indirect lighting applications
- Selectable segment modes (1, 4 or 8 segments)
- Selectable power consumption (12W/10W/5W) per foot
- Integrated multi-range power supply unit (PSU) 100-277V for long fixture runs
- Hybrid power and data connector for easy daisy-chained configurations
- DMX and RDM control
- Integrated magnetic switch for local diagnostics
- Rugged IP66 housing designed for permanent outdoor installations
- Low weight 0.8 kg/ft (1.9 lbs/ft)
- Compact design - 40mm (1.57 inch) width



Glare Shield 4FT



Installable Connectors



End Termination Cap



Power DMX Cable 10m



Power DMX Cable

## ORDERING INFORMATION

- Exterior Linear Pro COVE CTC 1ft .....P/N MAR-90570007
- Exterior Linear Pro COVE CTC 4ft .....P/N MAR-90570009

### RELATED ITEMS

- Martin Companion Cable .....P/N MAR-91616091
- Martin Companion Cable  
(for firmware update over DMX): ..... Free download from  
[www.martin.com](http://www.martin.com)

### ACCESSORIES

- Glare shield, EL Pro 1ft set of 4.....P/N MAR-90570022
- Glare shield, EL Pro, 4ft set of 4.....P/N MAR-90570023
- Adjustable bracket EL Pro 10 pcs .....P/N MAR-90570025
- Flange bracket EL Pro 10 pcs .....P/N MAR-90570026
- Quick mount bracket EL Pro 10 pcs.....P/N MAR-90570027
- Junction Box Power DMX to PD .....P/N MAR-91700019
- Power DMX Cable PD PD 0.2M EU .....P/N MAR-91700004
- Power DMX Cable PD PD 1M EU .....P/N MAR-91700005
- Power DMX Cable PD PD 2.5M EU .....P/N MAR-91700006
- Power DMX Cable PD PD 5M EU .....P/N MAR-91700007
- Power DMX Cable PD PD 10M EU .....P/N MAR-91700008
- Power DMX Cable 100M Roll EU .....P/N MAR-91700009
- Power DMX Cable PD PD 0.2M US .....P/N MAR-91700010
- Power DMX Cable PD PD 1M US .....P/N MAR-91700011
- Power DMX Cable PD PD 2.5M US .....P/N MAR-91700012
- Power DMX Cable PD PD 5M US .....P/N MAR-91700013
- Power DMX Cable PD PD 10M US .....P/N MAR-91700014
- End termination cap PD.....P/N MAR-91700015
- Power DMX Cable 100M Roll US .....P/N MAR-91700016
- Bulk connector PD female.....P/N MAR-91700017
- Bulk connector PD male.....P/N MAR-91700018

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## TECHNICAL SPECIFICATIONS

### DYNAMIC EFFECTS

|                                 |  |
|---------------------------------|--|
| Intensity .....                 | 0 - 100%                                 |
| Color temperature control ..... | 2700 K – 6500 K                          |
| Segment Control .....           | 0.5ft, 1 ft or full 4 ft fixture control |

### CONTROL AND PROGRAMMING

|                           |  |
|---------------------------|--|
| Control systems .....     | DMX, RDM   |
| Stand-alone control ..... | Up to 20 scenes with individual fade/hold times            |
| Control resolution .....  | 8-bit DMX individual color control                         |
| Dimmer resolution .....   | 16-bit DMX control of intensity                            |
| DMX channels 4ft .....    | 3/3/12/24 (standard/1 seg/4 seg/8 seg)                     |
| DMX channels 1ft .....    | 3/6/3 (standard/1 seg/2 seg)                               |
| User interface .....      | Magnetic button to call up fixture status and test fixture |
| DMX compliance .....      | USITT DMX512/1990  |
| RDM compliance .....      | ANSI/ESTA E1.20  |

### OPTICS

|                            |   |
|----------------------------|---|
| Light source .....         | White color (2700k, 4000K, 6500K)<br>LED (12 LEDs per foot) |
| Minimum LED lifetime ..... | 50 000 hours (to >70% luminous output)*                     |
| Beam angle .....           | 100°  |
| Binning .....              | Tight color and flux binning                                |
| Calibration .....          | Full Gamut Color Calibration (1 step MacAdam ellipse)       |

\*Figure obtained under manufacturer's test conditions

### PHOTOMETRICS

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| CRI (Color Rendering Index) ..... | >70 (higher CRI available on request) |
| CCT .....                         | 2700K - 6500K                         |

| Luminous output ..... | 1 FT at 12W | 4 FT at 12W |
|-----------------------|-------------|-------------|
| 2700K .....           | 540 lumens  | 2160 lumens |
| 4000K .....           | 575 lumens  | 2300 lumens |
| 6500K .....           | 600 lumens  | 2400 lumens |

\*All Photometric Data measured in steady state (30 minutes warm-up time) at 25°C ambient.

### CONSTRUCTION

|                                      |   |
|--------------------------------------|---|
| Housing .....                        | Aluminum  |
| Finish .....                         | Clear anodized or optional colors on request  |
| Front .....                          | Clear polycarbonate   |
| Effective Projected Area (EPA) ..... | 0.04 m <sup>2</sup> per ft  |
| Protection rating .....              | IP66  |
| IK rating .....                      | IK08  |
| Corrosion resistance .....           | C5 High (ISO 12944-6)   |
| Vibration resistance .....           | 1.0g, Sinusoidal (IEC 60068-2-6),<br>0.7g RMS Random (IEC 60068-2-64),<br>3.0g (ANSI C136-31) |

### 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  |
| Idle power consumption .....                          | 1ft length :1.54 W, 4ft length: 2.30W (steady state, all LEDs at zero intensity) |
| Max earth leakage .....                               | 1ft length: 0.15 mA, 4ft length: 0.21 mA   |
| Surge protection .....                                | 4KV  |
| Maximum connected 4ft fixtures* .....                 | 42 pcs (52 m / 169 ft) @ 230V-277V   |
| Maximum total string length (cable + fixtures)* ..... | 150 m / 328 ft   |
| Typical half-cycle RMS inrush current .....           | 0.35 A   |

\* Refer to system diagram for details on fixture run limitations

### TYPICAL POWER AND CURRENT

#### 12W mode:

|                      |   |
|----------------------|---|
| 100-240 V, 50/60 Hz: | 12 W per foot +/- 1 W, PF 0.95 +/- 0.05 |
| 277 V, 50/60 Hz:     | 12 W per foot +/- 1 W, PF 0.90 +/- 0.05 |

#### 10W mode:

|                      |   |
|----------------------|---|
| 100-240 V, 50/60 Hz: | 10 W per foot +/- 1 W, PF 0.95 +/- 0.05 |
| 277 V, 50/60 Hz:     | 10 W per foot +/- 1 W, PF 0.90 +/- 0.05 |

#### 5W mode:

|                      |   |
|----------------------|---|
| 100-240 V, 50/60 Hz: | 5 W per foot +/- 0.5W, PF 0.90 +/- 0.05 |
| 277 V, 50/60 Hz:     | 5 W per foot +/- 0.5W, PF 0.70 +/- 0.05 |

Power figures are typical, not maximum. Measurements made at nominal voltage. Allow for +/- 10% deviation. PF = Power factor.

### THERMAL

|  |                     |
|--|---------------------|
| Cooling .....                                      | Convection          |
| Maximum ambient temperature .....                  | 45° C (113° F)*     |
| Minimum ambient temperature .....                  | -30° C (-22° F)     |
| Total heat dissipation (calculated, +/- 10%) ..... | 41 BTU/hr. per foot |

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

### APPROVALS

|                                     |   |
|-------------------------------------|---|
| EU Safety .....                     | EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493                     |
| EU EMC .....                        | EN 55015, EN 55032, EN55035, EN 61547, EN 61000-3-2, EN 61000-3-3 |
| US Safety .....                     | ANSI/UL 1598  |
| US EMC .....                        | 47 CFR Part 15 Class B  |
| Canadian Safety .....               | CSA C22.2 No. 250.0   |
| Australia/NZ .....                  | RCM   |
| Global CB Certification/IECEE ..... | IEC 60598-2-5 (IEC 60598-1)                                       |
| India .....                         | BIS IS 10322[Part5/section5]                                      |

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## TECHNICAL SPECIFICATIONS

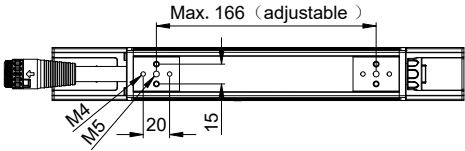
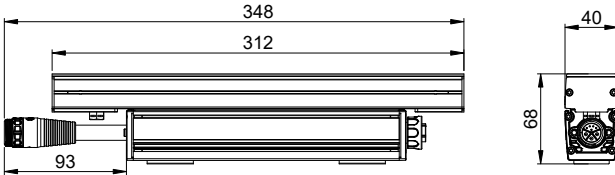
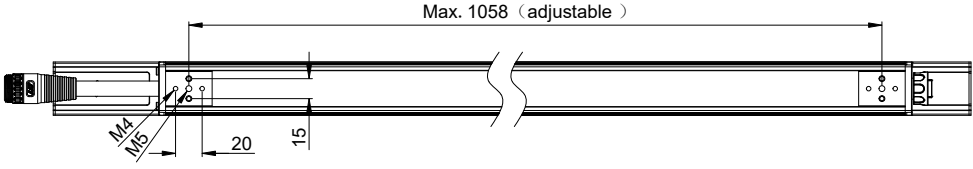
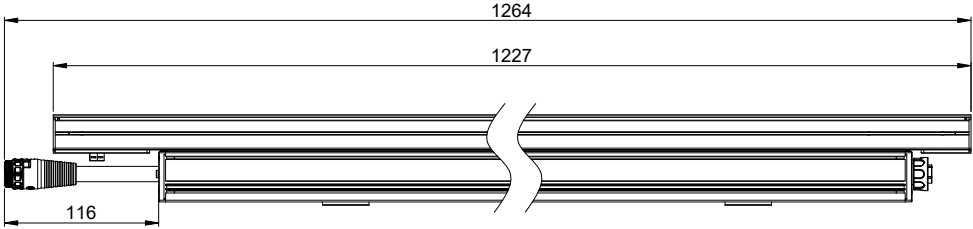
### ENVIRONMENTAL

|                      |   |
|----------------------|---|
| RoHS .....           | Compliant                                     |
| REACH .....          | Compliant                                     |
| WEEE .....           | Compliant                                     |
| Proposition 65 ..... | Compliant                                     |
| FSC .....            | Certified cardboard inlay and outer packaging |

## DIMENSIONS

### PHYSICAL

|                             |                    |
|-----------------------------|--------------------|
| Length - 1 ft Version ..... | 312mm (1 ft)       |
| Length - 4 ft Version ..... | 1227mm (4 ft)      |
| Width .....                 | 40 mm (1.57 inch.) |
| Height .....                | 68 mm (2.67 inch)  |
| Weight - 1 ft Version ..... | 0.85 kg ( 1.9 lbs) |
| Weight - 4 ft Version ..... | 2.8 kg (6.2 lbs)   |



*Brackets must be ordered separately  
All measurements in mm*