

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 1ftP/N MAR-90570007
- Exterior Linear Pro COVE CTC 4ftP/N MAR-90570009

RELATED ITEMS

- Martin Companion CableP/N MAR-91616091
- Martin Companion Cable
(for firmware update over DMX): Free download from
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 pcsP/N MAR-90570025
- Flange bracket EL Pro 10 pcsP/N MAR-90570026
- Quick mount bracket EL Pro 10 pcs.....P/N MAR-90570027
- Junction Box Power DMX to PDP/N MAR-91700019
- Power DMX Cable PD PD 0.2M EUP/N MAR-91700004
- Power DMX Cable PD PD 1M EUP/N MAR-91700005
- Power DMX Cable PD PD 2.5M EUP/N MAR-91700006
- Power DMX Cable PD PD 5M EUP/N MAR-91700007
- Power DMX Cable PD PD 10M EUP/N MAR-91700008
- Power DMX Cable 100M Roll EUP/N MAR-91700009
- Power DMX Cable PD PD 0.2M USP/N MAR-91700010
- Power DMX Cable PD PD 1M USP/N MAR-91700011
- Power DMX Cable PD PD 2.5M USP/N MAR-91700012
- Power DMX Cable PD PD 5M USP/N MAR-91700013
- Power DMX Cable PD PD 10M USP/N MAR-91700014
- End termination cap PD.....P/N MAR-91700015
- Power DMX Cable 100M Roll USP/N MAR-91700016
- Field installable connector PD female.....P/N MAR-91700017
- Field installable 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) 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 ² per ft
Protection rating	IP66
IK rating	IK08
Corrosion resistance	C5 High (ISO 12944-6)
Vibration resistance	1.0g, Sinusoidal (IEC 60068-2-6), 0.7g RMS Random (IEC 60068-2-64), 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

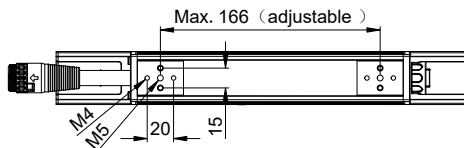
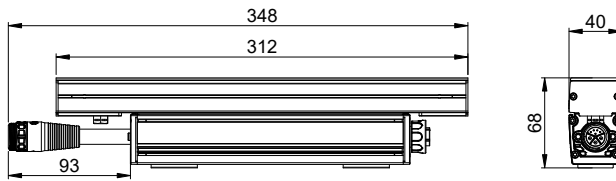
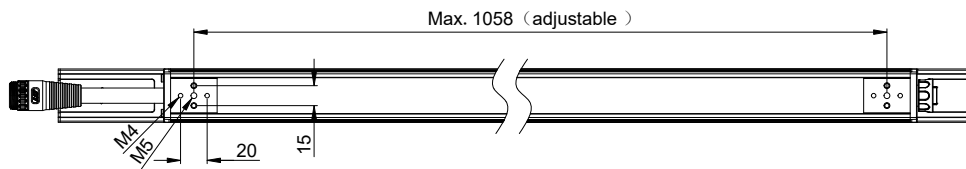
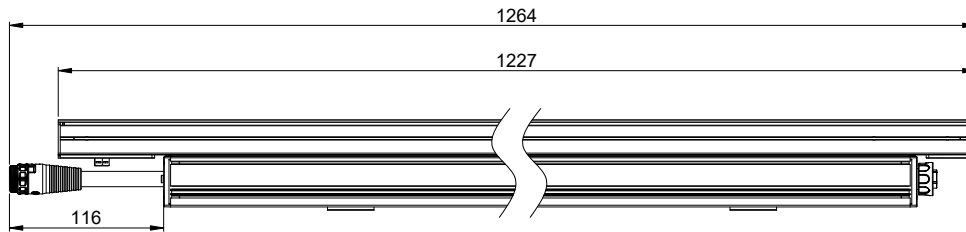
ENVIRONMENTAL

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*