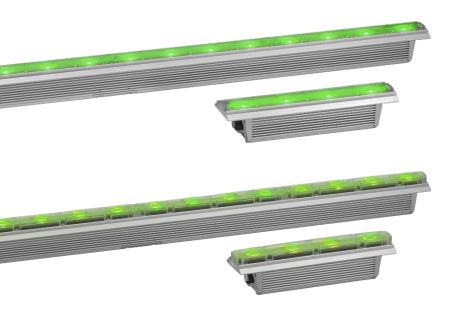
310 QUAD GRAZE / 310 QUAD COVE / 1210 QUAD GRAZE / 1210 QUAD COVE

SPEC SHEET



HIGHLIGHTS

- Linear LED fixture with QUAD color uniform color mixing
- Robust outdoor-rated fixture available in two lengths
- Easy installation with integrated power supply

OVERVIEW

The Exterior™ Linear QUAD is a series of high output LED pre-mixed color-changing 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 superbly premixed colors and uniform light distribution at three different beam angles, ideal for highlighting textured surfaces.

Producing superior color mixing directly at the lens, the QUAD-color LEDs efficiently prevent multi-colored shadows, and improve the looks and aesthetics of the fixture in direct view installations. 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

QUAD COLOR MIXING

The Exterior Linear QUAD features powerful QUAD color LEDs, which, combined with a large diameter lens, provide great color mixing within the lens while still maintaining a narrow beam, which is important for graze lighting applications.

WEATHERIZED, STURDY DESIGN

The Exterior Linear QUAD 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.

A high-durability and ISO 12944-6 certified C5 M-classified marine surface coating allows for installation in extremely corrosive coastal environments, and its automatic thermal management system offers full protection of LEDs and components at excessive temperatures.

SIMPLE INFRASTRUCTURE

The Exterior Linear QUAD 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 has-sle-free, fast installation with no extra control boxes required.



310 QUAD GRAZE / 310 QUAD COVE / 1210 QUAD GRAZE / 1210 QUAD COVE

SPEC SHEET

FEATURES

- Robust, outdoor IP-66 rated linear fixture
- · QUAD color LEDs for uniform color mixing direct out of the fixture
- 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 three beam angle options, including narrow for impressive graze effects
- Dedicated cove version for maximum spread of light
- Accessory glare shield and louvre 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
- Automatic power management for highest possible light output at any color



ORDERING INFORMATION

GRAZE VERSIONS

•	EXTERIOR LINEAR 310 GRAZE, NAR, QUAD:	P/N 90356990
•	EXTERIOR LINEAR 310 GRAZE, WIDE, QUAD:	P/N 90356991
•	EXTERIOR LINEAR 310 GRAZE, ASYM, QUAD:	P/N 90356992
•	EXTERIOR LINEAR 1210 GRAZE, NAR, QUAD:	P/N 90356993
•	EXTERIOR LINEAR 1210 GRAZE, WIDE, QUAD:	P/N 90356994
•	EXTERIOR LINEAR 1210 GRAZE, ASYM, QUAD:	P/N 90356995

COVE VERSIONS

•	EXTERIOR LINEAR 310 COVE, QUAD:	P/N 90356997
•	EXTERIOR LINEAR 1210 COVE, QUAD:	P/N 90356996

ACCESSORIES

ACCESSORIES	
• GLARE SHIELD 300, SET OF 4	P/N 91611752
• GLARE SHIELD 1200, SET OF 4	P/N 91611753
• LOUVRE, QUAD GRAZE 1FT, SET 0F 4	P/N 91611850
• LEAD-IN CABLE, 2 M, EU	P/N 91611754
• LEAD-IN CABLE, 2 M, US	P/N 91611755
• LEAD-IN CABLE, 10 M, EU	P/N 91611156
• LEAD-IN CABLE, 10 M, US	P/N 91611157
EXTENSION CABLE, 0.2 M, EU	P/N 91611758
EXTENSION CABLE, 0.2 M, US	P/N 91611759
EXTENSION CABLE, 1 M, EU	P/N 91611760
EXTENSION CABLE, 1 M, US	P/N 91611761
EXTENSION CABLE, 5 M, EU	P/N 91611762
EXTENSION CABLE, 5 M, US	P/N 91611763
EXTENSION CABLE 10 M, EU	P/N 91611764
EXTENSION CABLE 10 M, US	P/N 91611765
END TERMINATION CAP	P/N 91611766



310 QUAD GRAZE / 310 QUAD COVE / 1210 QUAD GRAZE / 1210 QUAD COVE

SPEC SHEET

TECHNICAL SPECIFICATIONS

DV	A 1.4	B 4				OTC
UYI	NΑ	м	IL	ᆫᆫ	FE	CTS

Intensity	0 - 100%
Color control	RGBW
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	.4-16 depending on model and mode
User interface	. Magnetic button to call up fixture status and diagnostics
DMX compliance	.USITT DMX512/1990
RDM compliance	. ANSI/ESTA E1.20

OPTICS

Light source	OSTAR S2W LEDs (4 LEDs/ft)
LED manufacturer	. Osram
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	15°
Medium	60°
Asymmetric	17° x 67°

PHOTOMETRICS	310 Graze	1210 Graze
Total luminous output	. 515 lumens	2060 lumens
Red output	. 200 lumens	800 lumens
Green output	. 315 lumens	1260 lumens
Blue output	. 76 lumens	304 lumens
White output	. 466 lumens	1864 lumens

PHOTOMETRICS	310 Cove	1210 Cove
Total luminous output	. 579 lumens	2316 lumens
Red output	. 225 lumens	900 lumens
Green output	.354 lumens	1416 lumens
Blue output	.85 lumens	340 lumens
White output	. 523 lumens	2092 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	. 15.24 m / 50 ft. (at 120 V)
Maximum total length of fixtures	.30.48 m / 100 ft. (at 240 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. Allow for a deviation of +/- 10%. 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%)	70 BTU/hr. per foot

APPROVALS

EU Safety	.EN 60598-2-5, EN 60598-2-1,	
•	(EN 60598-1), EN 62471, EN 62493	
	EU EMC: EN 55015, EN 55032	
	(EN 55103-1), EN 55103-2, 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	
Specifications subject to change without notice.		



310 QUAD GRAZE / 310 QUAD COVE / 1210 QUAD GRAZE / 1210 QUAD COVE

SPEC SHEET

DIMENSIONS

PHYSICAL

310series (1 ft.) fixtures

 Length
 305 mm / 12 in.

 Width
 72 mm / 2.8 in.

 Height, Graze
 104 mm / 4.1 in. incl. bracket

 Height, Cove
 95 mm / 3.8 in. incl. bracket

 Weight, Graze
 1.5 kg / 3.4 lbs.

 Weight, Cove
 1.6 kg / 3.6 lbs.

1210 series (4 ft.) fixtures

 Length
 1219 mm / 48 in.

 Width
 72 mm / 2.8 in.

 Height, Graze
 104 mm / 4.1 in. incl. bracket

 Height, Cove
 95 mm / 3.8 in. incl. bracket

 Weight, Graze
 6.0 kg / 13.3 lbs.

 Weight, Cove
 6.4 kg / 14.2 lbs.

