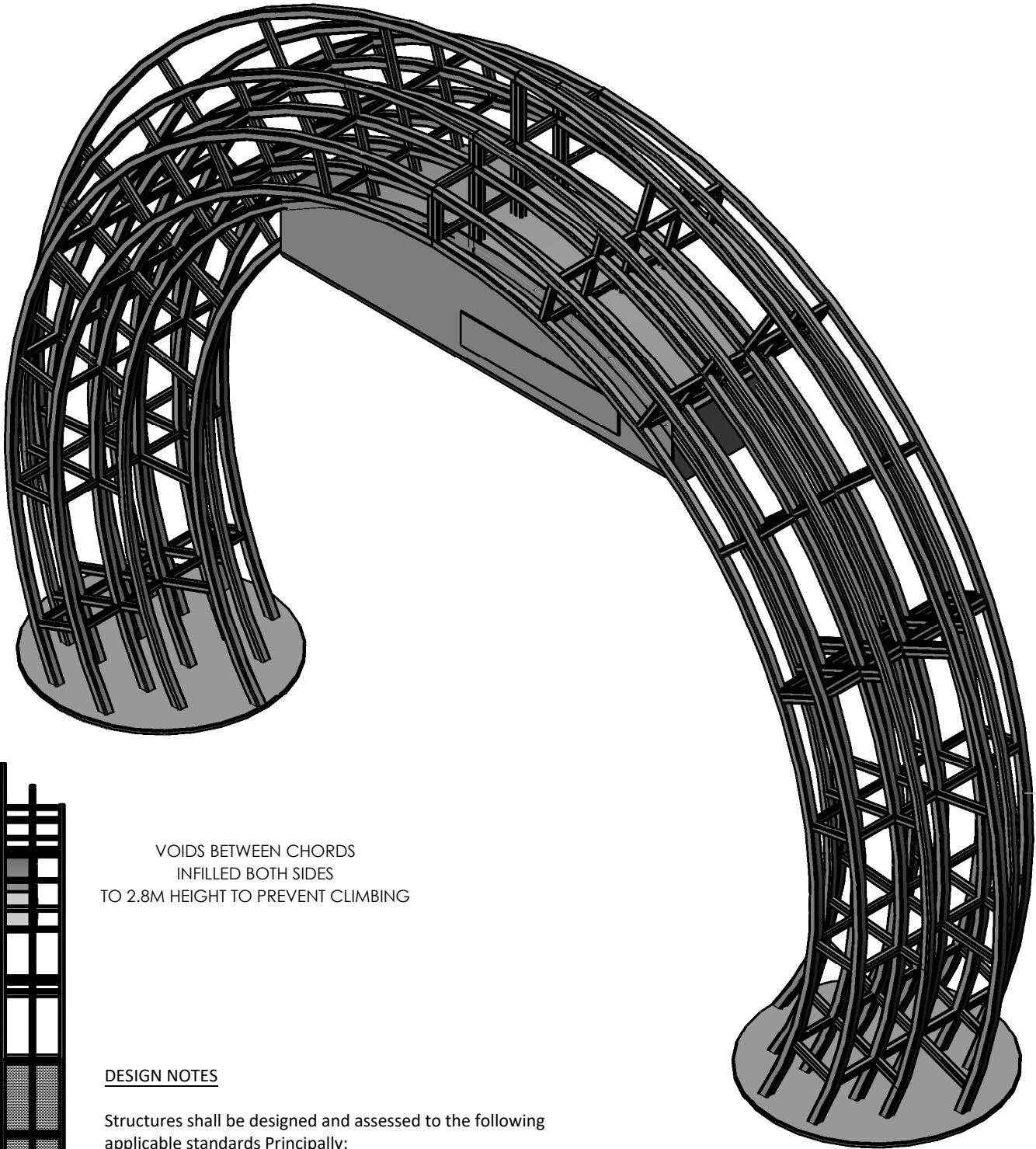
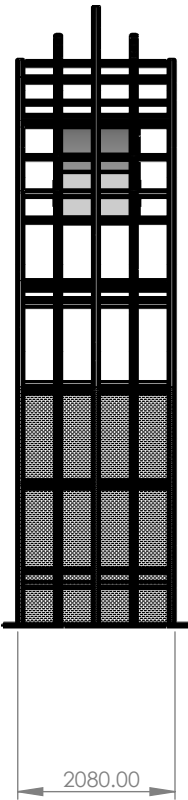
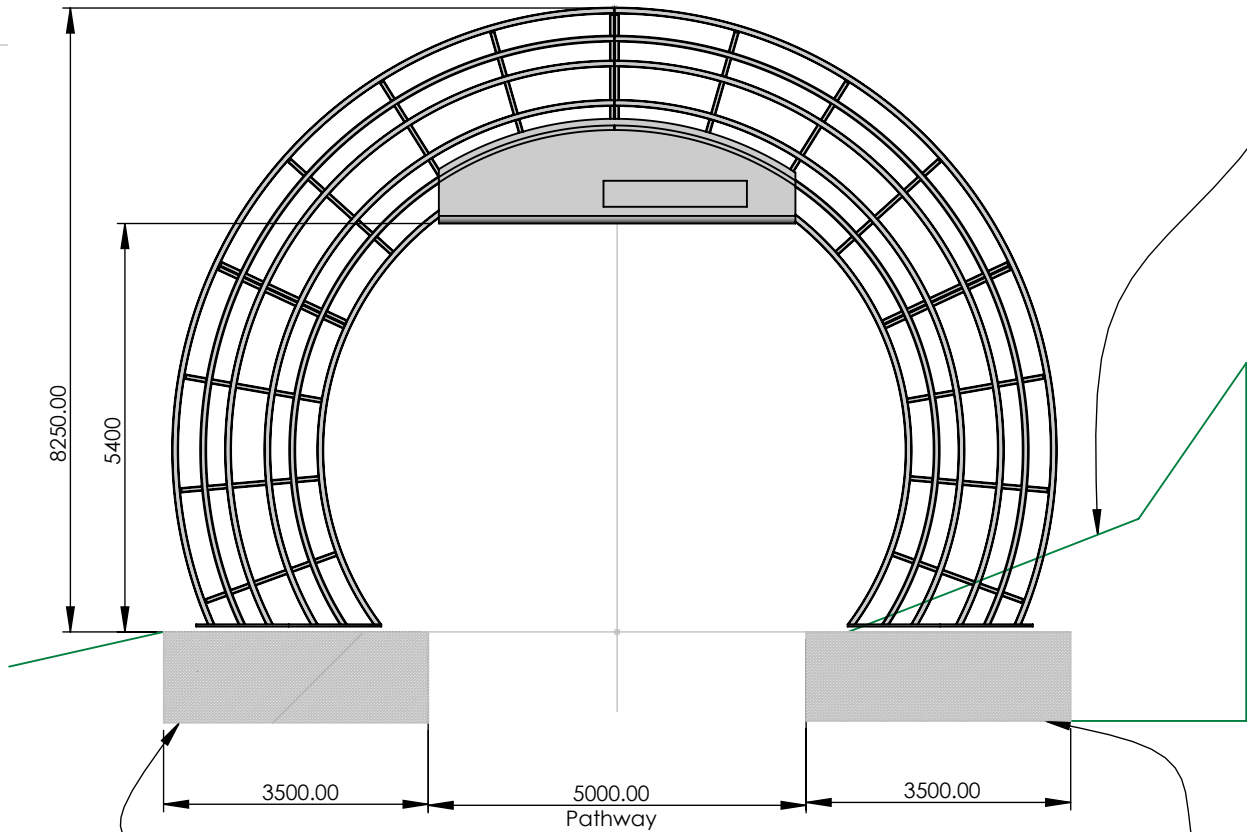


ALL STEEL WORK GRADE S355 OR
SIMILAR FINISH TO C3 CORROSION
SPECIFICATION



PRINCIPLE STRUCTURAL CHORDS ONLY
BRACING SCHEME / PERSPEX NOT SHOWN

BASIN TO BE EXCAVATED IN CURRENT
GRASSED AREA



VOIDS BETWEEN CHORDS
INFILLED BOTH SIDES
TO 2.8M HEIGHT TO PREVENT CLIMBING

DESIGN NOTES

Structures shall be designed and assessed to the following
applicable standards Principally;

- Eurocode 0: Basis of structural design (EN 1990)
- Eurocode 1: Actions on structures (EN 1991)
- Eurocode 3: Design of steel structures (EN 1993)
- Eurocode 7: Geotechnical design (EN 1997)
- Eurocode 9 : Design of aluminium structures (EN 1999)

As detailed in EN1990
Core structural elements will be designed with an indicative
design working life as shown below

Table 2.1 - Indicative design working life		
Design working life category	Indicative design working life (years)	Examples
1	10	Temporary structures ⁽¹⁾
2	10 to 25	Replaceable structural parts, e.g. gantry girders, bearings
3	15 to 30	Agricultural and similar structures
4	50	Building structures and other common structures
5	100	Monumental building structures, bridges, and other civil engineering structures

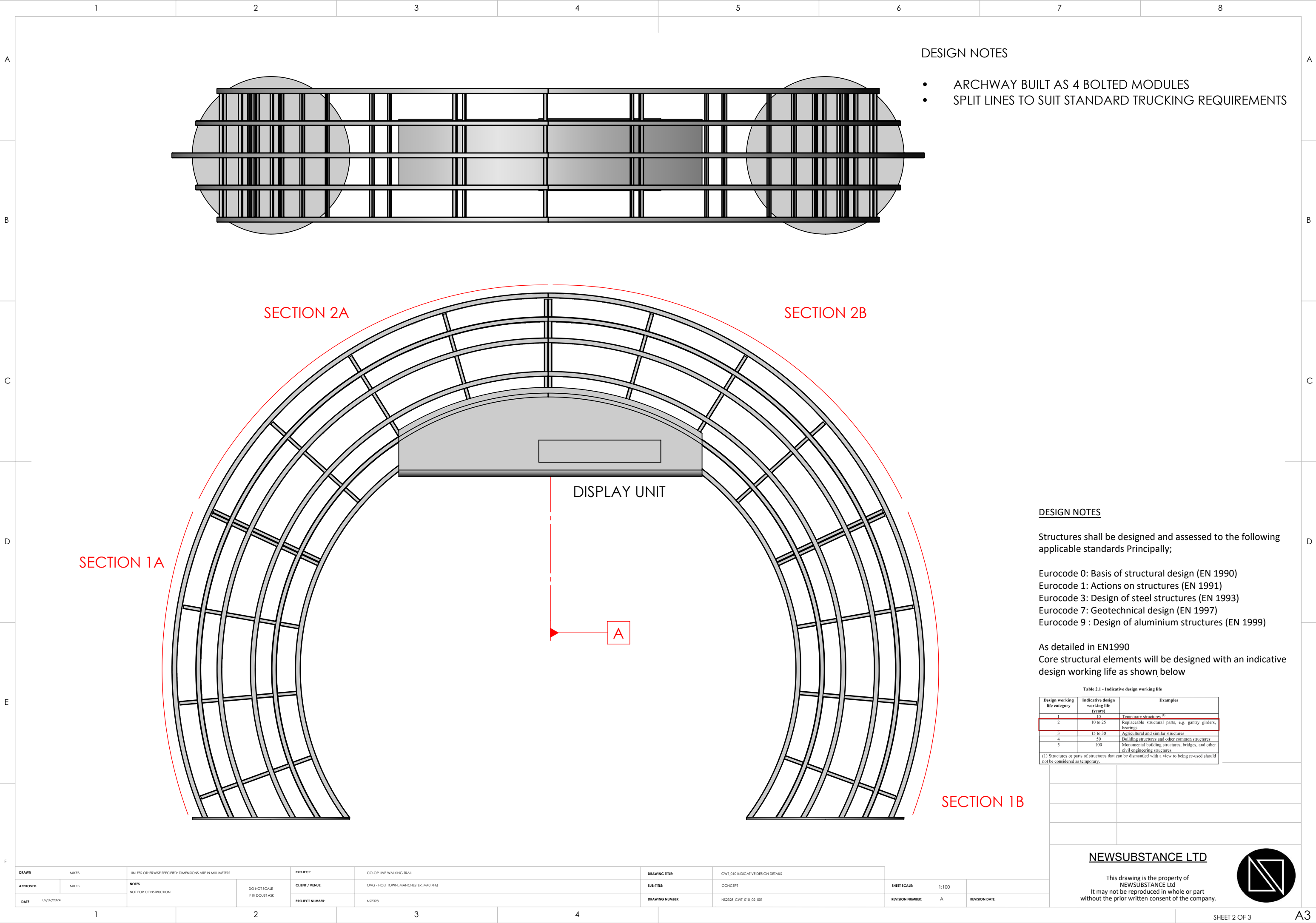
(1) Structures or parts of structures that can be dismantled with a view to being re-used should not be considered as temporary.

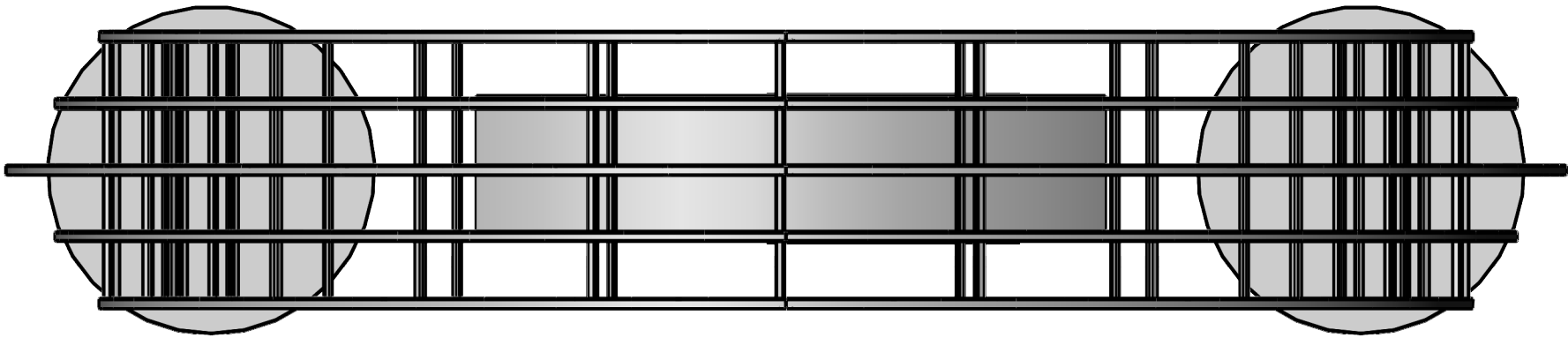
DRAWN	MIKES	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	PROJECT:	CO-OP LIVE WALKING TRAIL	DRAWING TITLE:	CWT_010 INDICATIVE DESIGN DETAILS	SHEET SCALE:	1:100	REVISION DATE:
APPROVED	MIKES	NOTES NOT FOR CONSTRUCTION	CLIENT / VENUE:	OWG - HOLT TOWN, MANCHESTER, M40 7TQ	SUB-TITLE:	CONCEPT	REVISION NUMBER:	A	
DATE	02/02/2024	DO NOT SCALE IF IN DOUBT ASK	PROJECT NUMBER:	NS2328	DRAWING NUMBER:	NS2328_CWT_010_02_001			

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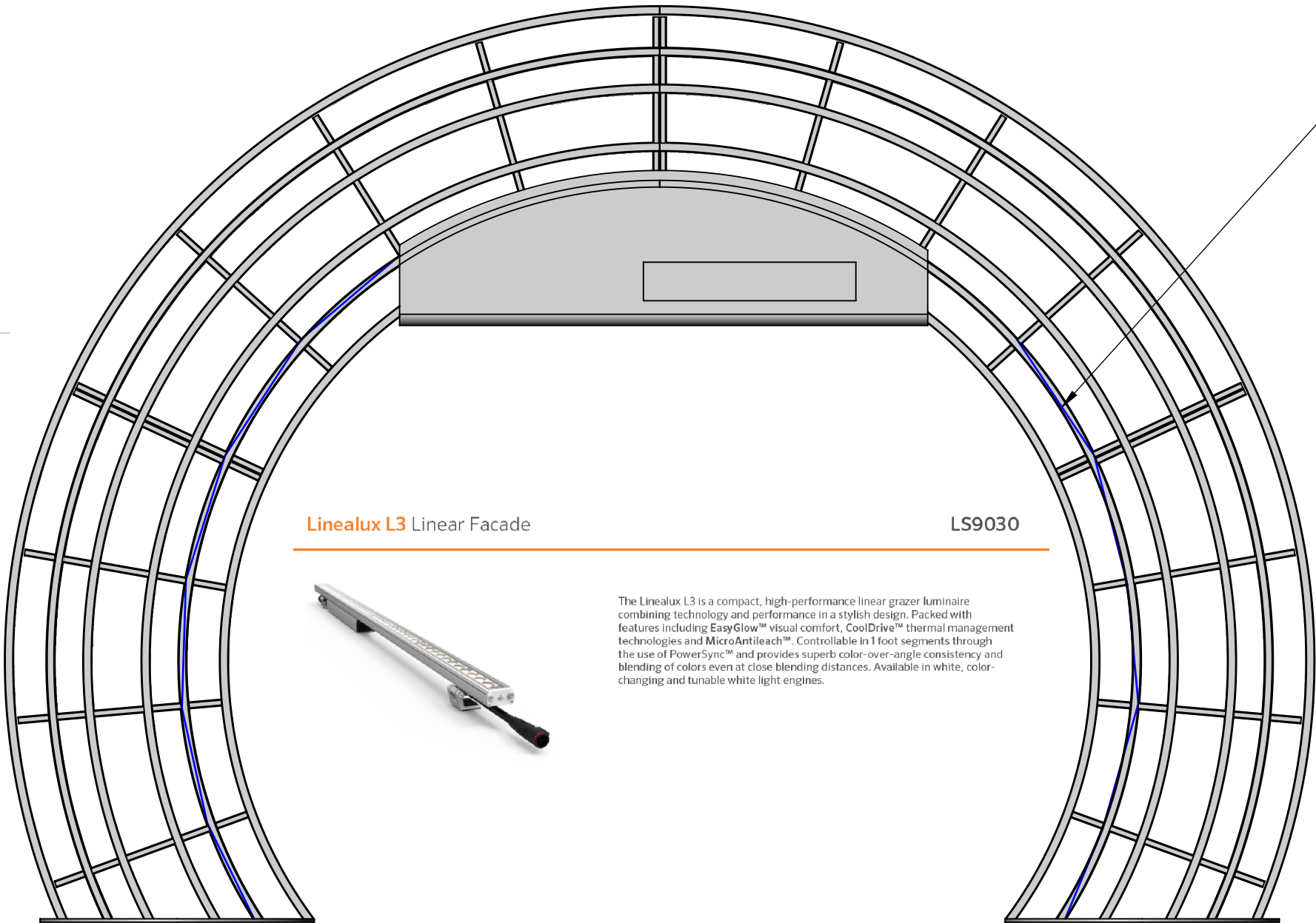
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LIGHTING BATTENS TO RUN
BETWEEN STRUCTURAL MEMBERS

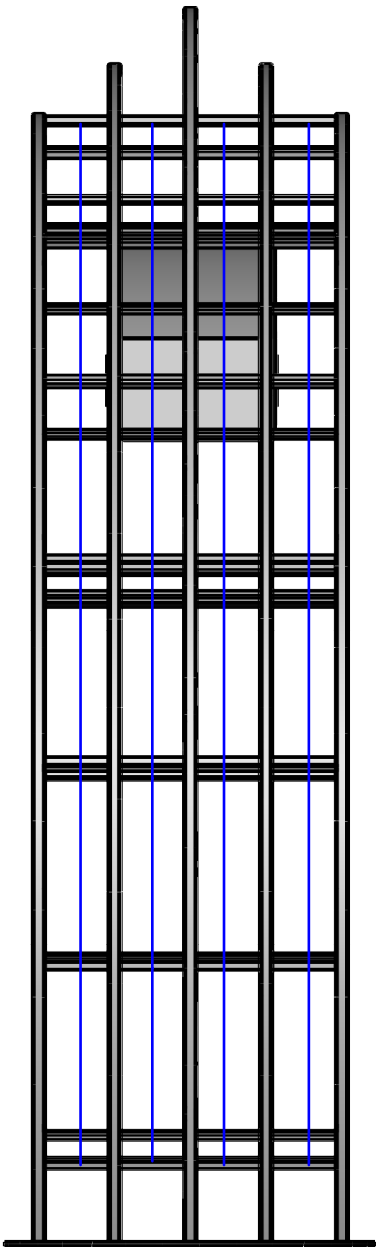


Linealux L3 Linear Facade

LS9030



The Linealux L3 is a compact, high-performance linear grazer luminaire combining technology and performance in a stylish design. Packed with features including EasyGlow™ visual comfort, CoolDrive™ thermal management technologies and MicroAntileach™. Controllable in 1 foot segments through the use of PowerSync™ and provides superb color-over-angle consistency and blending of colors even at close blending distances. Available in white, color-changing and tunable white light engines.



DESIGN NOTES

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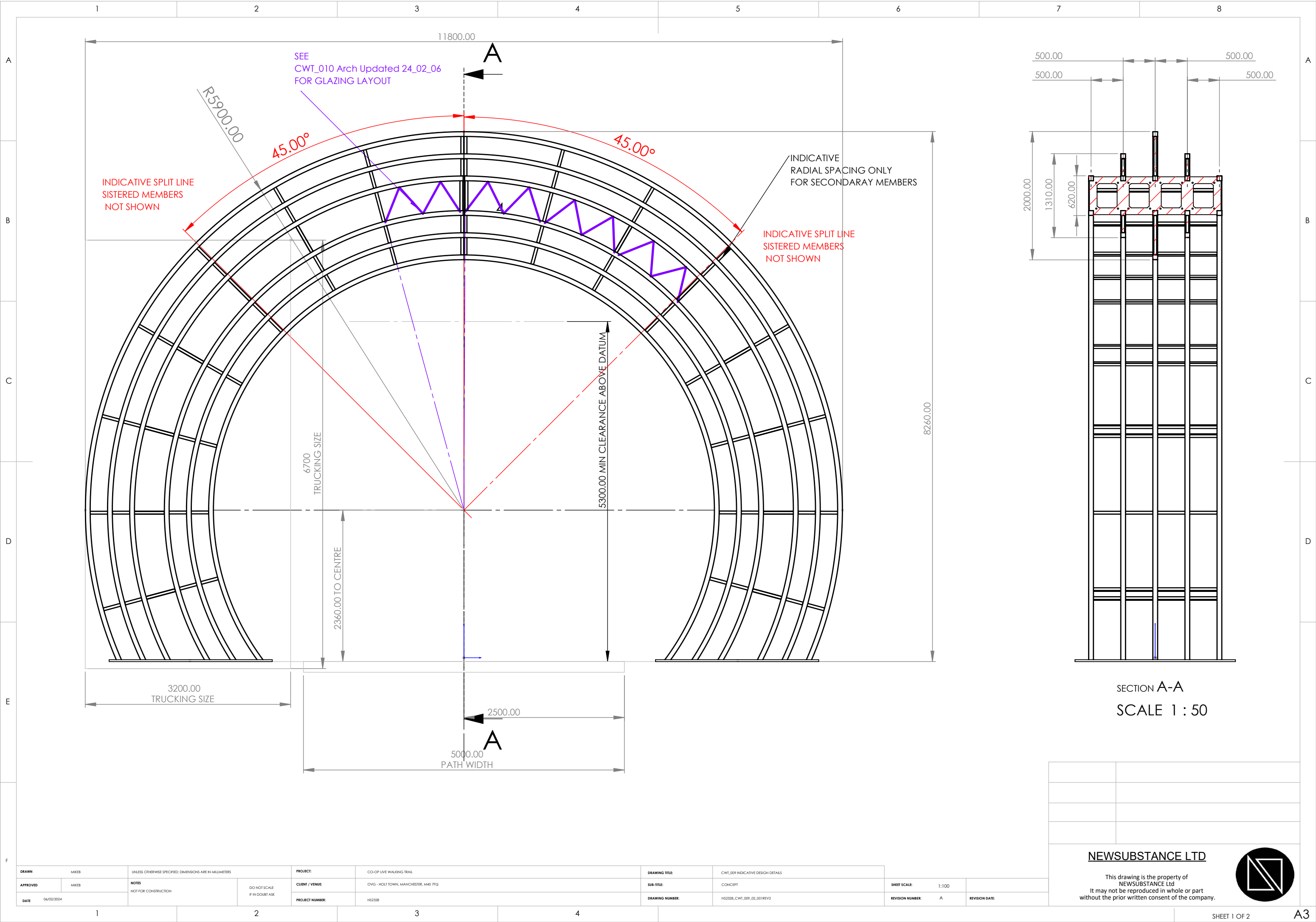
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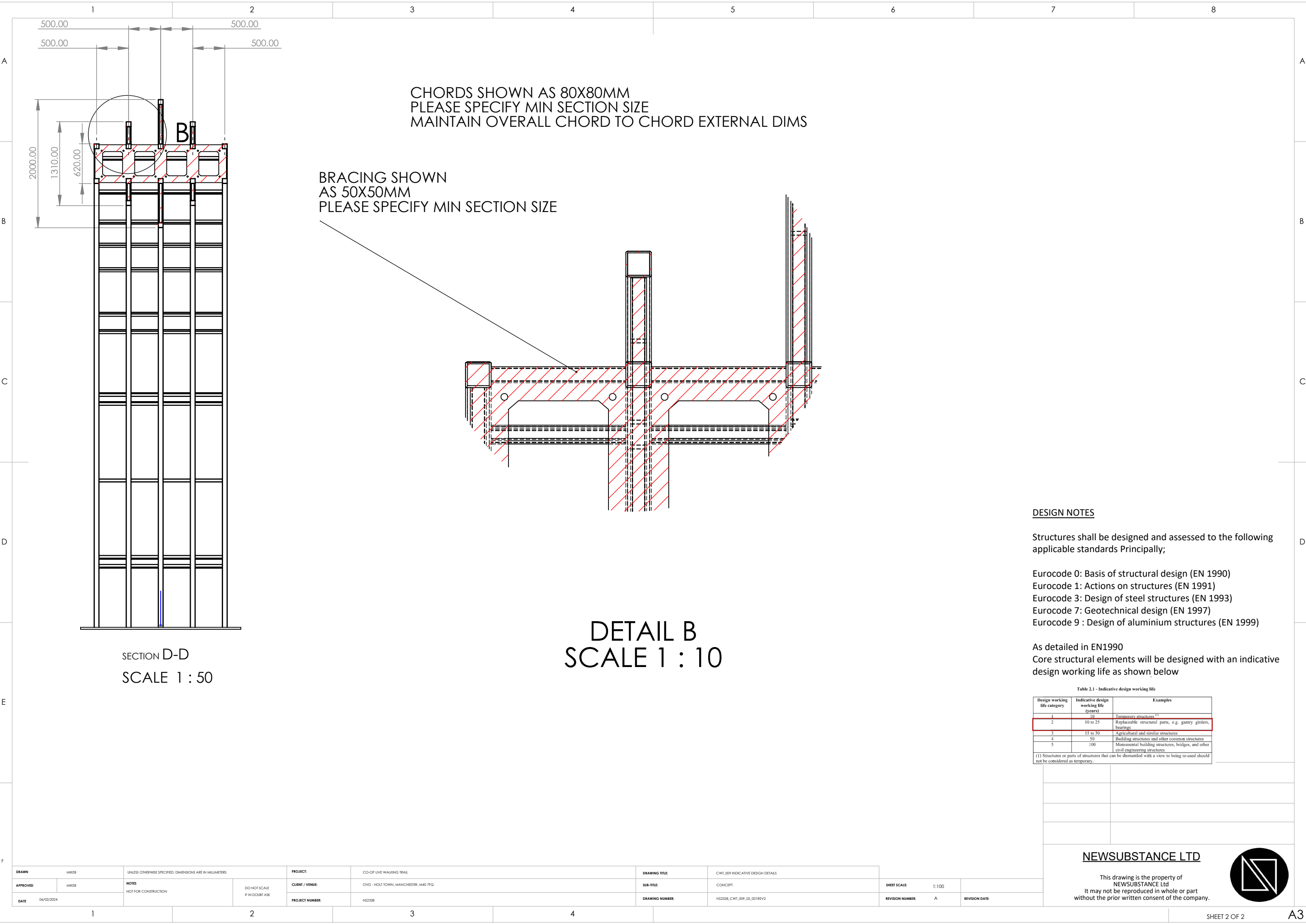
DRAWN	MIKES	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		PROJECT:	CO-OP LIVE WALKING TRAIL	DRAWING TITLE:	CWT_010 INDICATIVE DESIGN DETAILS		
APPROVED	MIKES	NOTES	DO NOT SCALE IF IN DOUBT ASK	CLIENT / VENUE:	OWG - HOLT TOWN, MANCHESTER, M40 7YQ	SUB-TITLE:	CONCEPT	SHEET SCALE:	1:100
DATE	02/02/2024	NOT FOR CONSTRUCTION		PROJECT NUMBER:	NS2328	DRAWING NUMBER:	NS2328_CWT_010_02_001	REVISION NUMBER:	A

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CHORDS SHOWN AS 80X80MM
PLEASE SPECIFY MIN SECTION SIZE
MAINTAIN OVERALL CHORD TO CHORD EXTERNAL DIMS

BRACING SHOWN
AS 50X50MM
PLEASE SPECIFY MIN SECTION SIZE

DETAIL B
SCALE 1 : 10

SECTION D-D
SCALE 1 : 50

DESIGN NOTES

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Performance

Static White & Color ¹	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K (80 CRI)	4,680	88	172,400
● 3,000 K (80 CRI)	4,880	92	179,800
○ 3,500 K (80 CRI)	5,280	99	194,500
● 4,000 K (80 CRI)	5,280	99	194,500
● 5,000 K (70 CRI)	4,880	92	179,800

¹ Lumen output values are based on a 12 W/ft, 4 ft luminaire with 6° lens

Dynamic Color ²	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● RGBA	-	-	-
● RGBW (4000 K) with Royal Blue*	3,370	58	126,600

² Lumen output values are based on a 12 W/ft, 4 ft luminaire with 6° lens

Tunable White ³	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
● 2,700 K – 6,500 K	4,980	94	183,500

³ Lumen output values are based on a 12 W/ft, 4 ft luminaire with 6° lens

Beam Angles	6°, 10°, 15°, 30°, 45°, 60°, 10° x 40°, 20° x 40°, 10° x 60°, 20° x 60°, 100°, Asymmetric
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* NOTE:

The default RGBW colors have recently changed to the RGBW with Royal Blue (4BW code). These colors will not match existing products with the earlier RGBW with Mid-Blue (4CW code). Contact Lumascape for custom LED Colors.

powersync® easyglow™ cooldrive™ microantileach™



Products and specifications are subject to change without notice.
LS9030-221118

Electrical

LED Power	12 W/ft, 8 W/ft and 5 W/ft (ASHRAE)
Power Consumption	15.1 W/ft (12 W/ft LED power)
Lifetime	>60,000 hrs (B10, L70, TM21)
Input Voltage	International 220-240 Vac, 50 Hz North America 120/277 Vac, 60 Hz
Earth Leakage	0.2 mA @ 120 Vac, 0.42 mA @ 240 Vac, 0.24 mA @ 277 Vac
Thermal Management	CoolDrive™ onboard thermal monitoring and control

Control

Interface	Lumascap PowerSync®
Protocols¹	DMX/RDM, Artnet, PWM ² , 0-10 V (sink or source) ²
PWM Frequency	1.6 kHz flicker-free dimming to 0.1%
Control Resolution	1 ft resolution (300 mm) and full luminaire Configurable via RDM
RDM Functionality	PowerSync enabled Lumascap luminaires are shipped with a default RDM personality which provides smooth dimming control. For different dimming characteristics or to enable other special functionalities, the default personality can be changed through industry standard DMX/RDM.
Systems	Range of third-party controllers

¹ Some protocols require additional hardware. For more information and other available protocols contact Lumascap.

² Not available for color-changing or tunable white

Physical

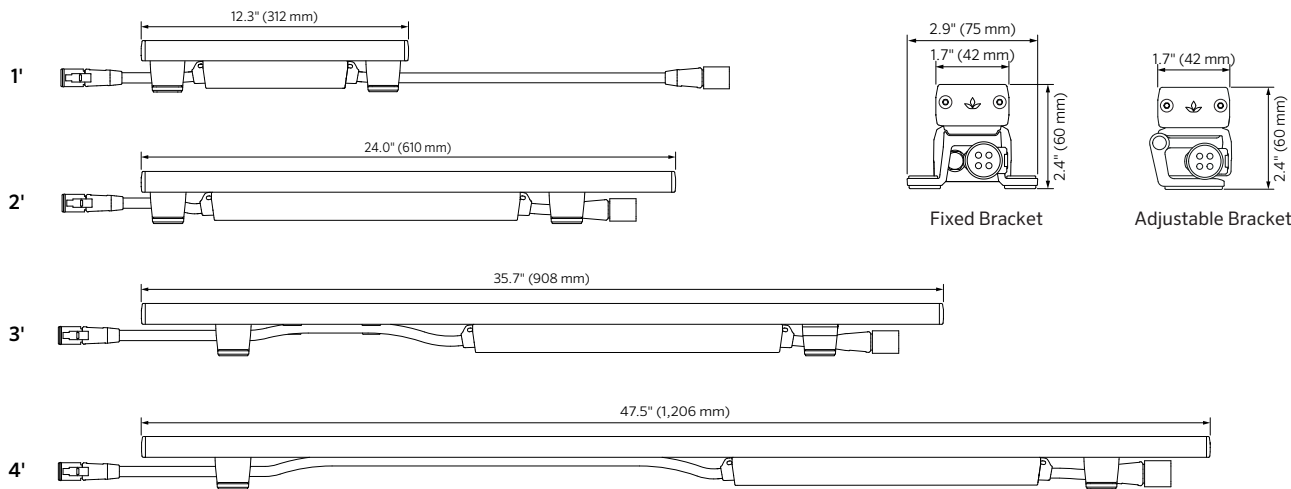
Housing	Marine-grade extruded aluminum, tempered glass lens
Finish	Superior 9-step powder-coating process, including marine-grade epoxy undercoat and polyester top coat
Installation	Surface-mounted with included galvanic isolator
Adjustable	Multi-positional, reversible constant torque locking bracket
Ambient Operating Temperature	-40°F to 122°F (-40°C to 50°C)
Surface Temperature	≤122°F (50°C)
Weight	6.2 lbs (2.8 kg) for 4 ft section
Effective Projected Area	0.5 ft ² (0.05 m ²) for 4 ft section

Certification & Compliance

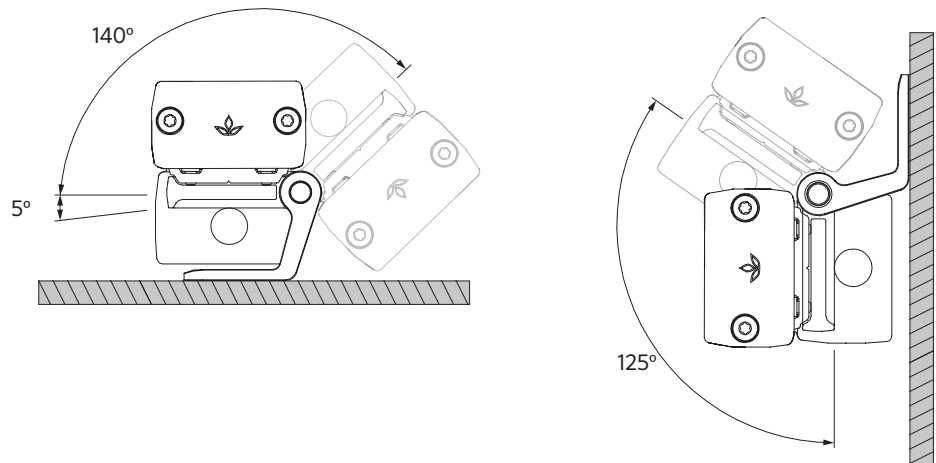
IP Rating	IP66 / IP67 (Passes IP68 Tests)
IK Rating	IK6 construction; IK10 accessories available on request ¹
Vibration Resistance	3G Rating (ANSI C136.31)
Environment	Dry, Damp, Wet locations
Certifications	ETL, CE, RCM

¹ IK10 is not the standard configuration, some restrictions apply. Contact Lumascap for more information.

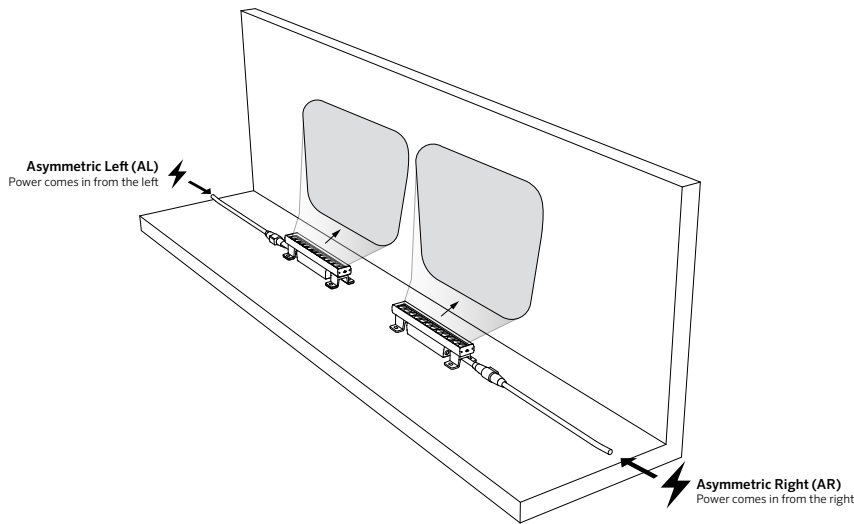
Dimensions



Luminaire Rotation



Asymmetric Optics





Q-2 POI

RGBW LED Wash Light



Description

The Q-2 POI is a bright and powerful IP66-rated outdoor LED wash light, ideally suited for small to medium sized applications such as building facades, landscapes and trees, signage, and architectural features. Besides sharing some of the key features of the larger Q-7 POI, like color calibration and wide angle lighting coverage, the Q-2 also includes the benefits of three-segment pixel mapping control and low power consumption.

Features and benefits

- ✓ High-performance color LED wash light
- ✓ Ideal application: building facades, landscape and trees, signage, and architectural features
- ✓ Superior RGBW color mixing
- ✓ 5-year warranty in corrosion class C5-M (marine)
- ✓ 110° wide-angle coverage
- ✓ Rugged and ultra-compact construction in only 6kg (13.2lbs.)
- ✓ Flicker-free operation with 100% smooth dimming performance
- ✓ IP66-rated with a patented built-in dehumidifier for a maintenance free operation

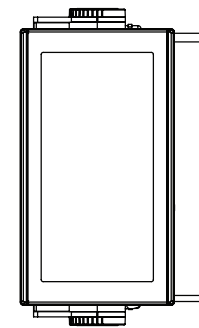
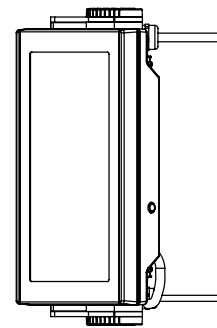
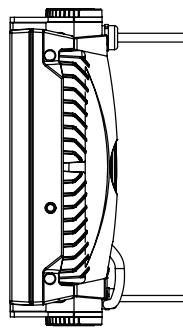
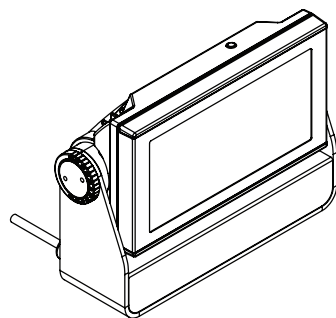
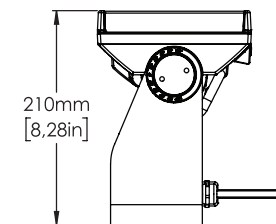
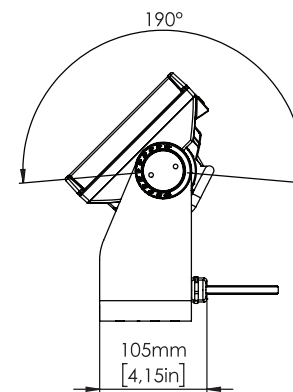
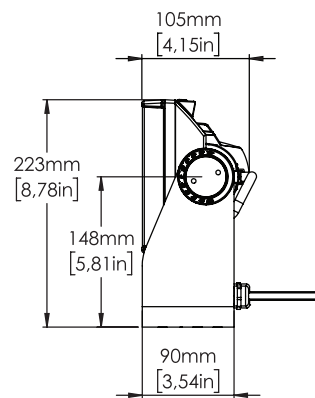
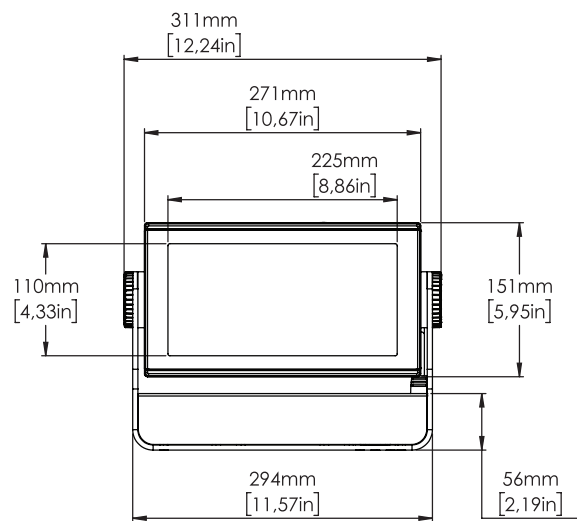
Certifications & classifications

IP66
INGRESS

RoHS
COMPLIANT

CE





Specification

Optical Data	LED expected lifetime	50,000 hours
	Lightsources	864 x RGBW SMD LEDs (5,700K)
	Native lens options	110°
	Optional filters	Extra medium angle soft diffusion, Q, internal Extra wide angle soft diffusion, Q, internal Elliptical horizontal effect, Q, internal Elliptical vertical effect, Q, internal
Photometric	Color temperature range	2000K - 10000K
	Efficacy	46 lm/W
	Light output all LEDs on	9000 lm
	Light output blue	562 lm
	Light output green	2250 lm
	Light output red	1379 lm
	Lumen per kilogram	1500 lm / Kg
	Lux @ 10m	35 lux
	Lux @ 5m	141 lux
	Native beam angle(s)	107° (with 110° lens)
Physical	Color options	Black - RAL 9004 Custom color - Any RAL White - RAL 9010
	Corrosion class	C5 (ISO 12944:2018)
	Effective Projected Area	0.96 Square ft
	IK rating	IK05
	IP class	IP66
	Lens material	Tempered glass front
	Material	Aluminium
	Net dimensions L x H x W	334 x 223 x 105 mm
	Net dimensions L x H x W (inches)	13.2 x 8.8 x 4.1 inches
	Net weight	6 kg (13.2 lbs)
Features	Color calibration	SGM proprietary, full color calibration
	Dehumidifier	Head
	Dimming	2 Smooth fade in, DMX-controllable curves: gamma corrected, and linear
	Filters	Optional internal spread angle filters (factory assembled)

	LED panel	3 individually controllable segments
	Power / DMX indicator	Head
	Strobe	Ultra-high-speed strobe effects Pixel strobe feature (up to 3 segments)
	Tilt	0 - 190°
	Tilt locking system	POI Locking system with pignose bolts and angle indicator
Electrical	Electrical protection	Overload protection
	Input voltage, absolute max. rating	90 - 305 VAC; 50 / 60 Hz
	Input voltage, nominal	100 - 277 VAC; 50 / 60 Hz
	Max inrush current 230VAC	75 A
	Max power consumption	265 W
	Power factor	0.96 PF (230 V)
	Power Supply Unit	Inbuilt IP 67 Auto-ranging electronic switch-mode
	Standby power consumption	5 W
Programming and Control	16-bit control	Dimmer, Red, Green, Blue, White
	DMX channels	3, 6, 9, 12, 15 or 22
	DMX modes	6
	Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A Wireless RDM RDM ANSI E1.20
	Setting and addressing	RDM ANSI E1.20
	Wireless DMX	Lumen Radio with RDM
Connections	Data cable diameter	6,5 mm +/- 0,2 mm
	DMX data in/out	5 meter cable for DMX In and DMX Thru (permanently wired)
	Power	Power cable 5 meter with bare ends (permanently wired)
	Power cable diameter	8,5 mm +/- 0,3 mm
Installation	Mounting point	2 M-10 locking points (suitable for one optional POI Omega bracket)
	Orientation	Any
	Rigging possibilities	Hanging / horizontal mounted
	Safety features	Bottom mount for safety wire Minimum distance to combustible materials: 0.3 meter (11 in).

Thermal	Cooling	Active, Forced Air, Temperature-regulated
	Humidity (max.)	98 %
	Temperature range, operating	-40°C to 50°C
	Temperature range, operating max	50 °C
	Temperature range, operating min	-40 °C
	Temperature range, start-up	-20°C to 50°C
	Temperature range, storage	-40°C to 80°C
	Thermal protection	Automatic overtemperature protection
	Total heat dissipation, max power	904.2 BTU per hour
	Total heat dissipation, standby	17.1 BTU per hour
Included items	Included items	POI Pignose-lock Key with magnet Safety instructions and installation quick guide 2 M-10 screws
Conforms To	CE - 2014/30/EU: EMC Directive	EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 EN 55032 EN 55035
	CE - 2014/35/EU: Low Voltage Directive	EN 60598-1 EN 60598-2-17 EN 62471 EN 60529
	RoHS2 Directive	2011/65/EU
	UL	UL Std. 1573
Certified To	CSA	CSA-E598-2-17-98, Ed: 1 CSA E60598-1, Ed: 3