LED LINEAR & SYSTEMS
LUMINAIRES

advanced systems

STRATEGIC LIGHTING GROUP
LIGHTING WITH PURPOSE

XACOTO
TECHNICAL SPECIFICATION DATA

XACOTO
single colour & RGB - circuit controlled

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Colour Consistency :
1 MacAdam Ellipse <100K

IP68

IP67

LED CONSTANT VOLTAGE
DEDICATION

CV CONSTANT VOLTAGE

Energy Saving
Technology

Green Energy
Technology

LED | Lamp Type
Technology
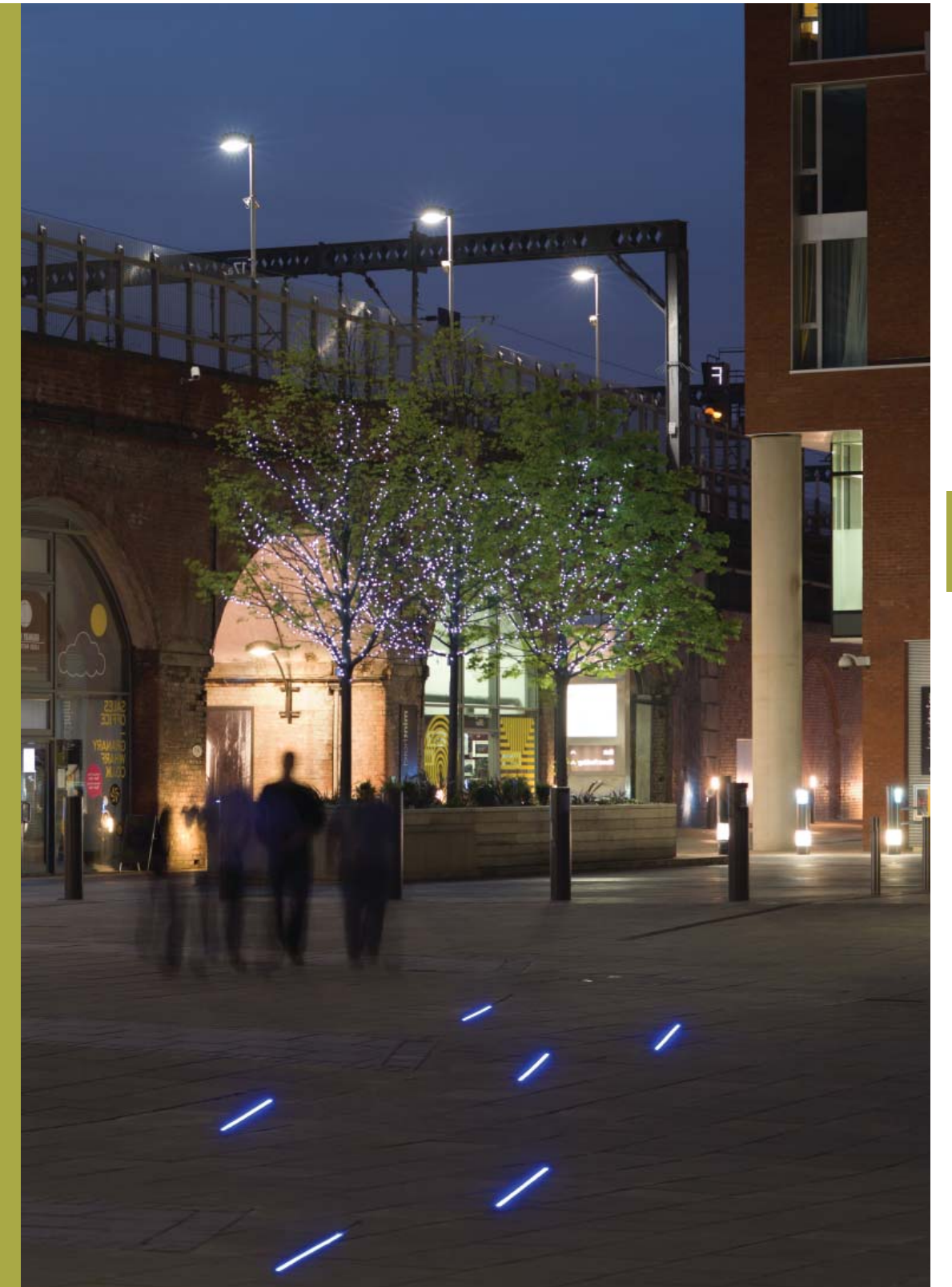
3.5W | 6W | Wattage - per linear metre
single / RGB colour change

24V | Voltage
dc - direct current only

Gear | PSU
Remote

65 | Lumens / Watt
value - based on warm white

nm | CRI - Index
see RGB nm values

IP67 | IP Rating
Exterior

Insulation Class
3 - SELV

IK 08 | IK Vandal Rating

5J | Impact Rating
joules

3000Kg | Stress Load
Kg - Driver to 3 metric Tonnes - 30mph

1Kg | Product Weight
kilograms/unit -

ENEC
compliance

CE
mark

F - mark
fire safe rating

Environmental
Technology

Product Purpose & Meaning
• The XACOTO is a 30mm width inground paver marker continuum and is founded on its solid construction and ability to be mounted seamlessly with perfect uniformity.
• The name "XACOTO" [Sa-Coat-Oo] was a quirk name used from the first project at Schiphol International Airport - Amsterdam.

Product Summary
• Robust IK08 and high IP68 with IP67 plug & play connectors with high light transmission segmentation.
• Based on the latest highest bin quality OSRAM SMD TopLED's in strong mechanically protected solid polyurethane resin.
• Warm & Cool White, Single Monochromatic Colours in Royal Blue, Red, Green and Amber, plus full RGB colour change.
• Dimmable using most signal protocols.
• Wide smooth distributions.
• Professional system, ideal for straightline architecture.
• Using easy bulk 24Vdc remote PSU's .
• Suitable for connection to every 20 metre for monochromatic colours & 10 metre for RGB run lengths.
• Available in 0.4m , 1.0m & 2.0 metre standard lengths. Module configurable in any length but with lit sections configurable every 200mm. [max. shadow gap of 99mm]

Applications
• Straight line architectural details.
• Exterior and Interior ground work delineation.
• Ground Troughs & Channels.
• Under Glass.Walls
• Straight run underbenches and with cast or ston walls

Performance
Lamp Type   approx.0.1W mono / 0.2W RGB
LED Qty   35 per metre [7 per 200mm section]
Lamp Source   OSRAM SMD Signal TopLED
Lumen Output   33/58lms - Per Watt Warm/Cool White
Lamp CRI   see nm range for colours
LED Life   20.000hrs plus.
Optic Beams   Wide 120°,
LED Colours   Warm 3000K , Cool 6500K, Whites
                 Red, Green, Blue, Amber
                 RGB - Colour Change

Electrical Data
Voltage   24Vdc input
Load Watt   approx.3.5W mono / 6W RGB per metre
Load Current   100mA
Remote Gear   24Vdc Power Supply Unit [PSU]
Configuration   CV [Constant Voltage]
                 PCB on board CC [current controller]
Control   Dimming & Control via Interface Output.
                 [Interface required]
Data Protocol(s) DALI, 0-10V & DMX 512

Description
A professional OSRAM TopLED based linear straight in-ground paver marker with the latest SMD high output signalLED's. Ideal 30mm width section for continuous jointing abutment and seamless light transmission. Plug and link sections to 20 metres on monochromatic. Solid robust construction in durable polyengineering resin and marine grade stainless steel. Available in 3.5W or less per metre. Single monochromatic colours including warm & cool whites and 6W full colour RGB option. Made for quick & easy connection with IP67 screw thread joint connectors between peices. Supplied with solid stainless pre-install sleeve. Slide and lock system and packing peice possible. No joint made for direct abutment for maximum light transmission. Corner peices and bespoke lengths possible. Remote safe 24Vdc powering. Ideal for internal & external applications. Smooth seamless transmission and uniformity togther with solid strength and urban durability.

Construction & Finishes
• Engineered polymer continuum in white opal moulded resin.
• Folded marine grade stainless steel body and sleeve.
Extruded with PCB in-layed and sealed to IP67
• Standard End joints to IP65 or Cast Resin Joint to IP68.

Main Features
• Benefits long marker lengths of 20 metre runs with 1 power feed [10 metres for RGB].
[thereafter new parallel power joint connection required].
• Bulk 30 metre+ remote 24Vdc PSU powering.
• Easy quick Install with plug connectors.
• Dimming via any protocol language .
• Custom angles and joints.

Mounting
• Mounting is via pre-installed sleeve in ground detail.
• Slide & lock system in sleeve for easy use & install.
• Push & screw fit IP67 connectors for linking sections.
Mono with Live [Red] & Neutral [Black] power feeds. RGB with 4 core where RGB acts as the -VE negative neutral terminal.
[All cables in power, meaning dimming & load through an interface with PWM [pulse width modulation]

Connection Diagram 6.1 & 6.2
• Connection is for CV - Constant Voltage for use with remote 24Vdc PSU & dimming & RGB Interfaces.
See Connection Diagrams page 124.

Standard Colours
• Warm White - 3000K - CRI = 90%
• Intmd White - 4000K - CRI = 85%
• Cool White - 6500K - CRI = 80%
• Royal Blue - 469nm
• Red - 617nm
• Green - 525nm
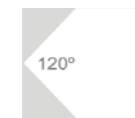• Amber - 587nm

• RGB Colour Change

Xacoto - coding as supplied per 2 metre section. In-ground marker light with open LED wide to approx. 120° beam, opal profile viewing angle to near 180°. Available in LED colours below, with 3 versions white and powerful RGB option. For versions with other lengths see post-fix option codes below;

120°

Product Order Codes

Code	Colour		Watt		Optic
XAC.3.2M	Warm White	3000K	3.5W/m -109lm/m		No Optic - 120°
XAC.4.2M	Interm. White	4000K	3.5W/m -109lm/m		No Optic - 120°
XAC.6.2M	Cool White	6500K	2.2W/m -127lm/m		No Optic - 120°
XAC.B.2M	Blue	460nm	0.8W/m - 13lm/m		No Optic - 120°
XAC.R.2M	Red	620nm	3.3W/m - 36lm/m		No Optic - 120°
XAC.G.2M	Green	530nm	2.5W/m - 111lm/m		No Optic - 120°
XAC.A.2M	Amber	600nm	1.5W/m - 14lm/m		No Optic - 120°
XAC.RGB.2M	RGB	DMX	512	6W	No Optic - 120°

POST-FIX OPTION CODES
For codes with
LENGTHS - 1.0 metre substitute postfix ".2M" for ".1M", for 400mm subsitute postfix ".2M" for ".400"
FOR CUSTOM LENGTHS - use postfix and length then consult with our technical sales team.

+175°
Marker

30
100
80
1.0M / 2.0M

Accessories
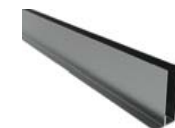
Stainless Ground Sleeve
An exterior grade stainless steel housing box / sleeve for pre-cast or bedded in ground works.

Code	Type	Part	Length	Note
XAC.GS.2M	Mono & RGB	Ground Sleeve	Length - 2.0 metre	c/w Lock & Slide
XAC.GS.1M	Mono & RGB	Ground Sleeve	Length - 1.0 metre	c/w Lock & Slide
XAC.GS.400	Mono & RGB	Ground Sleeve	Length - 400mm	c/w Lock & Slide

End Cap
End cap to finish end of run length on profile.

Code	Type	Part	Material	
XAC.EC	Universal Part	End cap	Stainless Steel	316

Power Feed
This is the main lead connector on to the system, supplied with special 'start' plug.

Code	Type	Part	Length	Core
XAC.MON.10M	Mono	Connector	10 metre length	2-core
XAC.RGB.10M	RGB	Connector	10 metre length	4-core

Joint Connector
This is the joint connector on to the system, supplied with special 'IP67' connection plugs.

Code	Type	Part	Length	Core
XAC.JC.200	Mono	Joint Connector	200mm length	2-core
XAC.JC.200	RGB	Joint Connector	200mm length	4-core
XAC.JC.1M	Mono	Joint Connector	1 metre length	2-core
XAC.JC.1M	RGB	Joint Connector	1 metre length	4-core

Split Connector
This is the 2-way split joint connector for connecting two Joint Connectors

Code	Type	Part	Type	Core
XAC.SC.2W	Mono	Split Connector	2-Way T	2-core
XAC.SC.2W	RGB	Split Connector	2-Way T	4-core

XACATO
single colour & RGB - circuit controlled

Project : Schiphol International Airport - Amsterdam - Netherlands.
Europes 5th Busiest Airport.

LED LINEAR SYSTEMS
product pages start page 73   retail & leisure

LED LINEAR SYSTEMS
retail & leisure   product pages start page 105
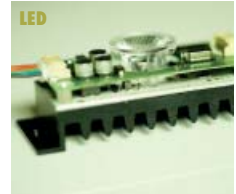
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NEON TYPE

MONO - 5W   Page 133   RGB - 5W-11W   Page 133

NEON LEDLINE - **mono**   NEONLEDLINE - **RGB**

TUBULAR

Page 134 SIGNAL°1WPOWER   Page 103   LED - 20W/m

SCORRENTE   AMBIENTALE

LINKS & CHAINS

POWERLED   Page 119   RGB - 5.3W   Page 113   MONO - 3W   Page 107

ARCHILED LINKS - Chaser   ARCHILED LINKS - RGB   ARCHILED LINKS - mono
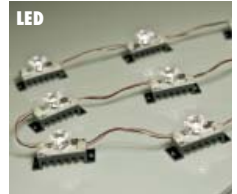
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MUSEUMS   GROUND RECESSES   ATRIA & STAIRWELLS   FOOTBRIDGES   FASCIAS

FLEXIBLE CONTINUOUS

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STRIPLED FLEXI - mono   STRIPLED FLEXI - RGB   SIDELED mono & RGB

Page 125   Page 130   Page 131   Page 130   Page 123

GLASS SHELVING   BAR   LANDSCAPE   CEILING ALCOVES   RGB COLOUR CHANGE

IN-GROUND MARKER

Page 139   3.5W MONO   Page 141   6W - RGB

XACOTO   AIRPORT FLOORING