HOLOPHANE®

An AcuityBrands Company

THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2017



DENVER™ elite system

bollard

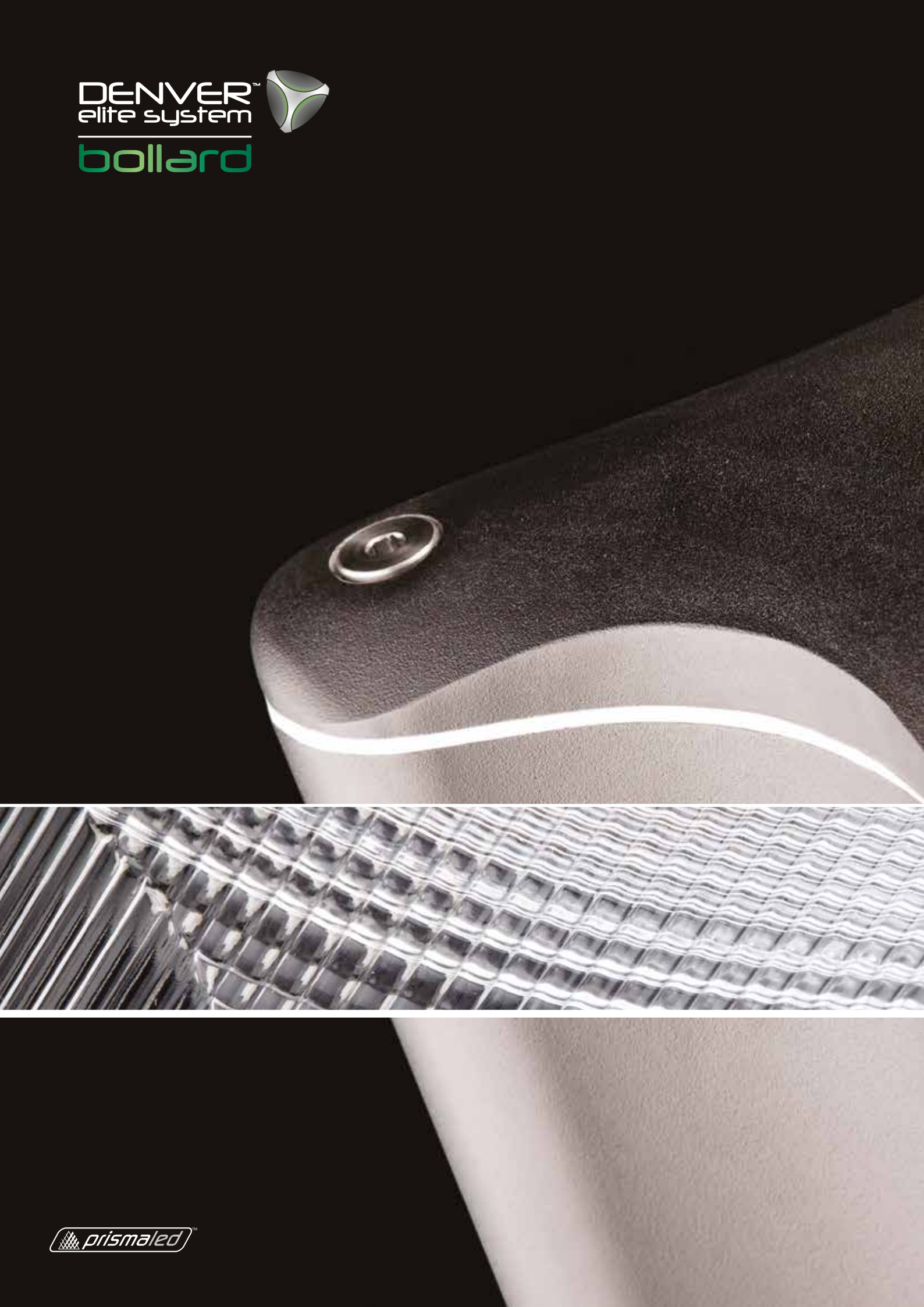
denver™ elite bollard

Patent Pending
REGISTERED EUROPEAN DESIGN

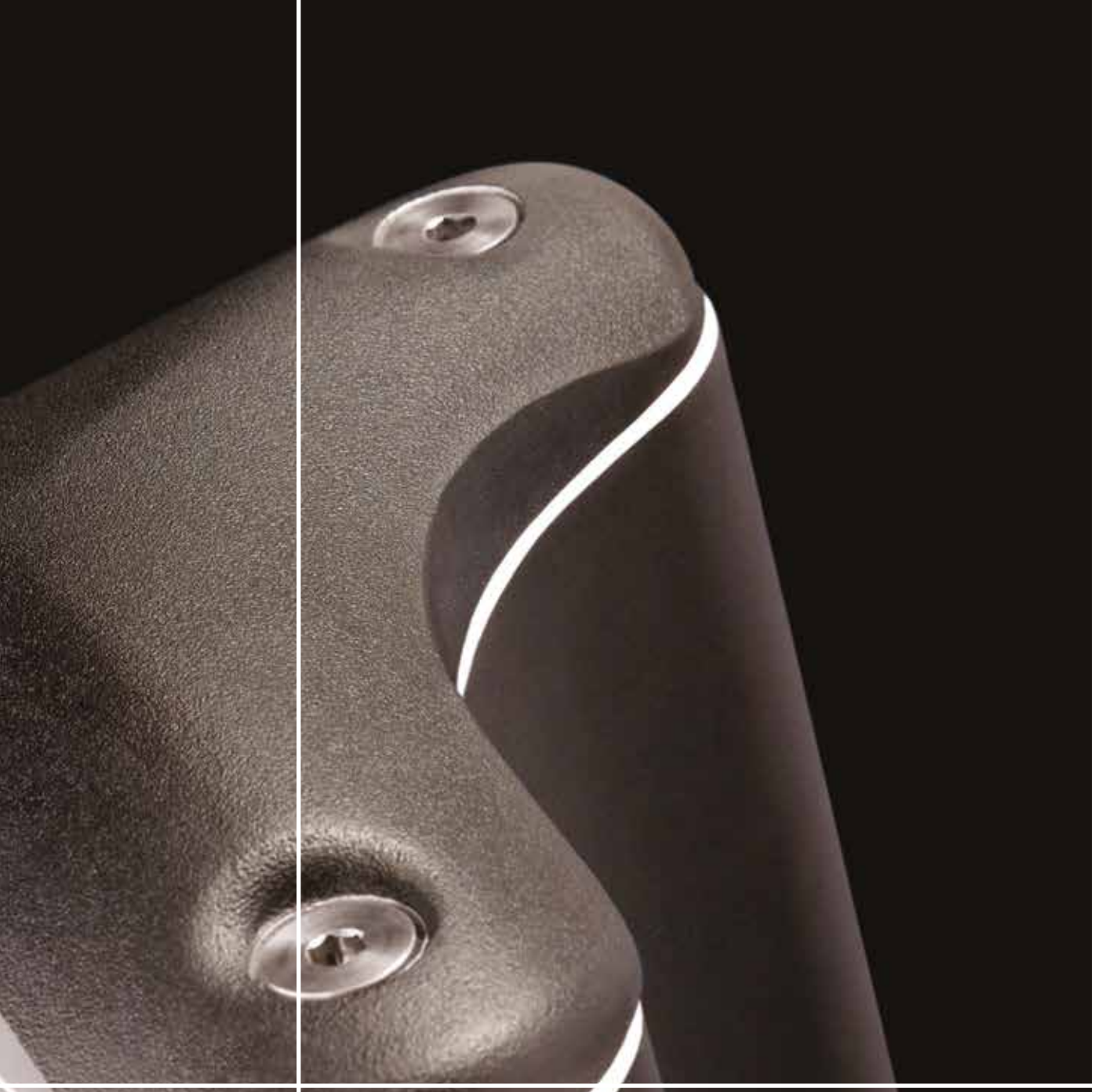
LED

DENVER™ elite system

bollard



prismaled™



bollard

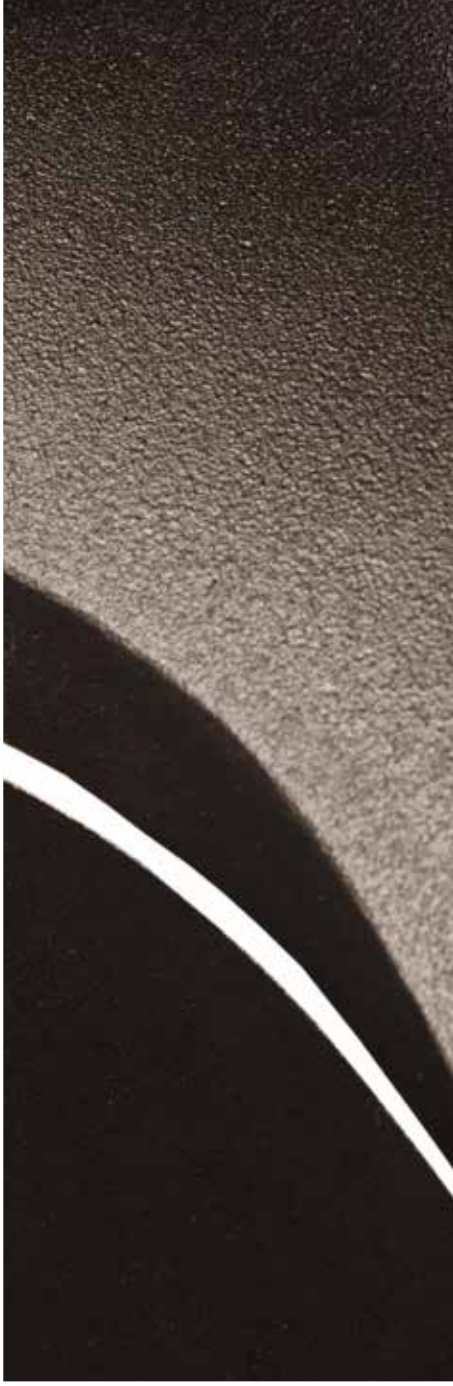
denver™ elite

DENVER™ elite system

bollard









REGISTERED EUROPEAN DESIGN



energyefficient

LED

prismaled™



Patent Pending

The **Denver™ Elite bollard** combines a palette of design variables, which include aesthetic appeal, quality, durability and performance.

The Denver™ Elite bollard is a modern aesthetic design that incorporate LEDs in addition to standard white light sources. Despite its stylised design the prismatic optical performance of the bollard is still industry leading offering a choice of distributions. The trilobe design profile with patent pending decorative light line membrane is a progression of everything we've learnt from our existing bollard whilst taking new technologies and environmental issues into consideration. Denver™ Elite Bollard is offered with electronic gear only (to help you reduce your energy costs) and the latest LED technology - offering a contemporary or conventional light source that doesn't compromise its optical performance.



The product has been designed to incorporate a heat barrier that enables a 'cool to touch' feature and ensures that the product adheres to BS ENISO 13732-1. The membrane is mounted within the cap itself ensuring that it meets the 'cool to touch' standard at all times. In addition the barrier allows us to create a unique 'light line'. Giving you a safe and stylised product in one.



specification

The luminaire shall consist of an extruded aluminium body, housing integral control gear for a LED's, metal halide, compact fluorescent and COSMO lamps. The optical arrangement shall consist of a prismatic lens or prismatic lens with louvre. The top tri-lobe gasket enabling the bollard to achieve EN60598-1 (patent pending) is secured between the top cap and body via three stainless steel nuts. Root mounted option available. The luminaire complies to EN60598 with a range of options and accessories.

lamp types

45w-60w Cosmo

35w-70w HID

26w-42w PL4

1,000 or 2,000 lumen package LED

approvals

> BS EN60598-1
> BS EN55015
> BS EN61000-3-2
> BS EN61000-3-3
> BS ENISO13732
> BS EN62031
> BS EN62384
> BS EN62560

ip rating

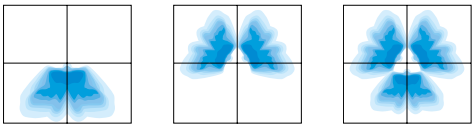
IP659



single lens | double lens | triple lens

light distribution

Symmetric single lens | Bisymmetric double lens | Symmetric triple lens



features and benefits

Contemporary styling
> Unique 'registered' tri-lobe design giving an aesthetic appeal that complements today's modern architecture

High Quality Construction
> Durable and robust design via three securing rods and nuts
> Fully weather sealed

Single, Double or Triple lens
> Unique lens layout that is suitable for a wide range of applications

Louvre with Prismatic Lens
> Gives the bollard additional uplight cut-off. A first in any bollard

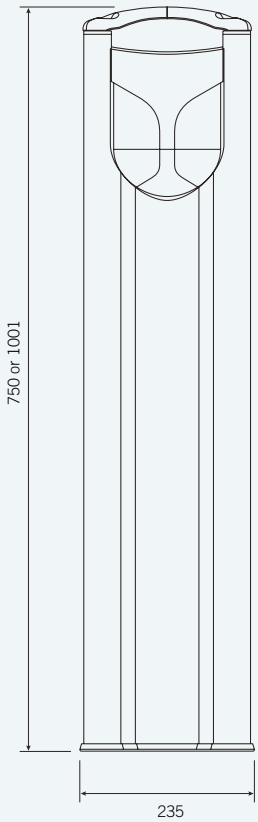
Decorative 'Patent Pending' Light Line
> Gives the product a unique style
> Cool to touch. Product complies to BS ENISO 13732-1

Available in 2 heights
> Flexibility
> Different visual effects

Vandal resistent
> Robust styling and build process.
> Patented tri-lobe design enables stability



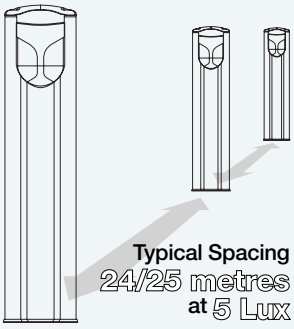
dimensions in mm



weight & thermal data (1m / 0.75m version)

Lamp Type	Weight (kg)	Min. Operating Temperature (°C)	Max. Ambient Temperature (°C)	Temp of Top(°C)
35CDMTF3	10 / 8.5	-20	40 / 35	43.8 / 53.4
70CDMT3	10 / 8.5	-20	35 / 35	43.8 / 53.4
26PL4	10 / 8.5	-5	40 / 35	43.8 / 53.4
32PL4	10 / 8.5	-10	40 / 35	43.8 / 53.4
42PL4	10* / 8.5*	-10	40 / 35	43.8 / 53.4
45CW	10 / 8.5	-20	40 / 35	43.8 / 53.4
60CW	10 / 8.5	-20	40 / 35	43.8 / 53.4
.L014	10.5 / 9	TBC	TBC / TBC	TBC / TBC
.L024	10.5 / 9	TBC	TBC / TBC	TBC / TBC

*allow 0.5kg for .EM = emergency version on compact fluorescent lamp types



ordering details

To find out more
please visit
www.holophane.co.uk

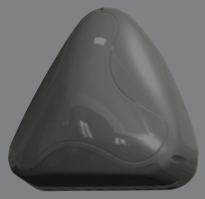
Code												
DEB	Denver™ Elite Bollard											
	Code	**Lamp Type** (required)										
	.35CDMTF3	35W Clear CDM-T 3000°K Ceramic Metal Halide lamp (G12 base)										
	.70CDMTF3	70W Clear CDM-T 3000°K Metal Halide Lamp (G12 base)										
	.26PL4	26W 4000°K Compact Fluorescent 4 Pin lamp (G24q-3 base)										
	.32PL4	32W Triple Tube 4000°K Compact Fluorescent 4 Pin lamp (GX24q-3 base)										
	.42PL4	42W Triple Tube 4000°K Compact Fluorescent 4 Pin lamp (GX24q-4 base)										
	.45CW	45W CosmoWhite lamp (PGZ12 base)										
	.60CW	60W CosmoWhite lamp (PGZ12 base)										
	.L014	LED light engine producing c.1,000 lm with a nominal 4000K										
	.L024	LED light engine producing c.2,000 lm with a nominal 4000K										
		Code	**Distribution**									
		.LYA	Louvre Asymmetric Distribution (not available with .11LED)									
		.PAY	Asymmetrical Distribution									
			Code	**Optical Enclosure**								
			.SU	Single Sided Asymmetric Distribution								
			.DO	Double Sided Bisymmetric Distribution								
			.TR	Triple Sided Symmetric Distribution								
				Code	**Head / Height**							
				.H75	750mm High							
				.H100	1000mm High							
					Code	**Colour** (required)						
					.C1	Smooth White (RAL 9016)						
					.C4	Textured Graphite (RAL 7011)						
					.C6	Smooth Grey (RAL 7035)						
					.C7	Black (RAL 9005)						
					.C9	Metallic Silver (RAL 9006)						
				.	RAL****	RAL Colour (customer choice)						
						Code	**Less Lamp**					
						.LL	Less Lamp					
						.LS	Lamp Specific					
							Code	**Paint Finish**				
							.C	Enhanced Paint Finish				
								Code	**Cut Outs**			
								.MCB	Mini circuit breaker			
									Code	**Auxiliary Circuits**		
									.TW	Through Wiring option		
										Code	**Emergency**	
										.ME1	3hr maintained emergency IP65	
											Code	**Screws**
											.V1	Vandal-resistant screws
												Code **Optics**
												.A Acrylic Prismatic Lens
Example	DEB	.26PL4	.LYA	.DO	.H75	.C9	.LL	.C	.MCB	.TW	.ME1	.V1	.A



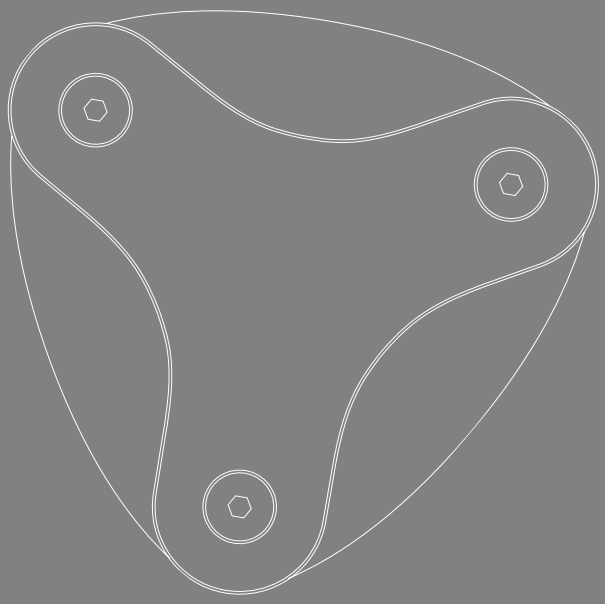
Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturers data) and luminaire power of +/- 5%.

luminaire accessories

Code	
DBL.FT	Set of 3 Bolts M10 x 100mm for Flange Base Fixing
DEB.ROOT	Root Mounting Spike to fit Flange Base Denver™ Elite Bollard
DBL.VK	Vandal key for Denver™ Elite Bollard



denver™ elite range



LED

DENVER™ elite system

bollard

Holophane Europe Limited
Bond Avenue, Bletchley, Milton Keynes MK1 1JG United Kingdom
Telephone: +44 (0) 1908 649292 UK Fax: +44 (0) 1908 367618
International Fax: +44 (0) 1908 363789
E-mail: info@holophane.co.uk

www.holophane.co.uk



THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2017

HOLOPHANE®
An AcuityBrands Company

Publication No. DEB UK 0318