



STREET HIGHWAYS FLOOD AMENITY BOLLARD HANDRAIL SURVEILLANCE SUBWAY CANOPY PERIMETER SECURITY TUNNEL LOW LEVEL HIGH MAST RAIL

ELITE EXTERIOR LIGHTING COLLECTION

LIGHTING GALLERY

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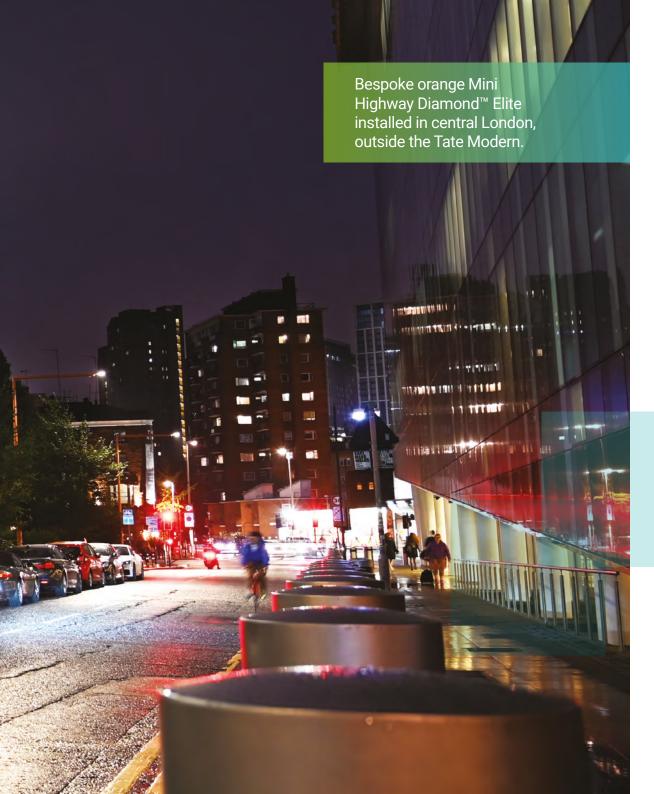
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MINI HIGHWAY DIAMOND[™] ELITE See page 20-21



DISCOVER YOUR LED LIGHTING...

FOR ALL YOUR EXTERIOR LED LIGHTING PROJECT **REQUIREMENTS, THERE IS A SOLUTION FOR YOU.**

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HIGHWAY DIAMOND[™] ELITE A COMPLETE FAMILY OF LUMINAIRES IDEAL FOR ANYTHING FROM A FOOTPATH, TO A MOTORWAY



SMARTWATCH™ LUMINAIRE INTEGRATED SECURITY & SURVEILLANCE CAMERAS

ENSO™ COLLECTION

360° LED LIGHTING COLLECTION OF AMENITY

LUMINAIRES

STEALTH ELITE A ROBUST HIGH PERFORMANCE EXTERIOR WALL MOUNTED LUMINAIRE



LITEHOUSE BOLLARD A STYLISH ROOT OR SURFACE MOUNTED

BOLLARD IDEAL FOR DEFINING ROUTES



A STYLISH YET FUNCTIONAL LED ILLUMINATED HANDRAIL SYSTEM

INVINCIBLE A ROBUST CORNICE LUMINAIRE SUITABLE FOR SUBWAYS, HIGH DEPENDENCY AND SECURITY



TITAN HIGH EFFICIENCY ANTI-VANDAL LUMINAIRE, SUITABLE FOR EXTERNAL SUBWAYS & PUBLIC WALKWAYS

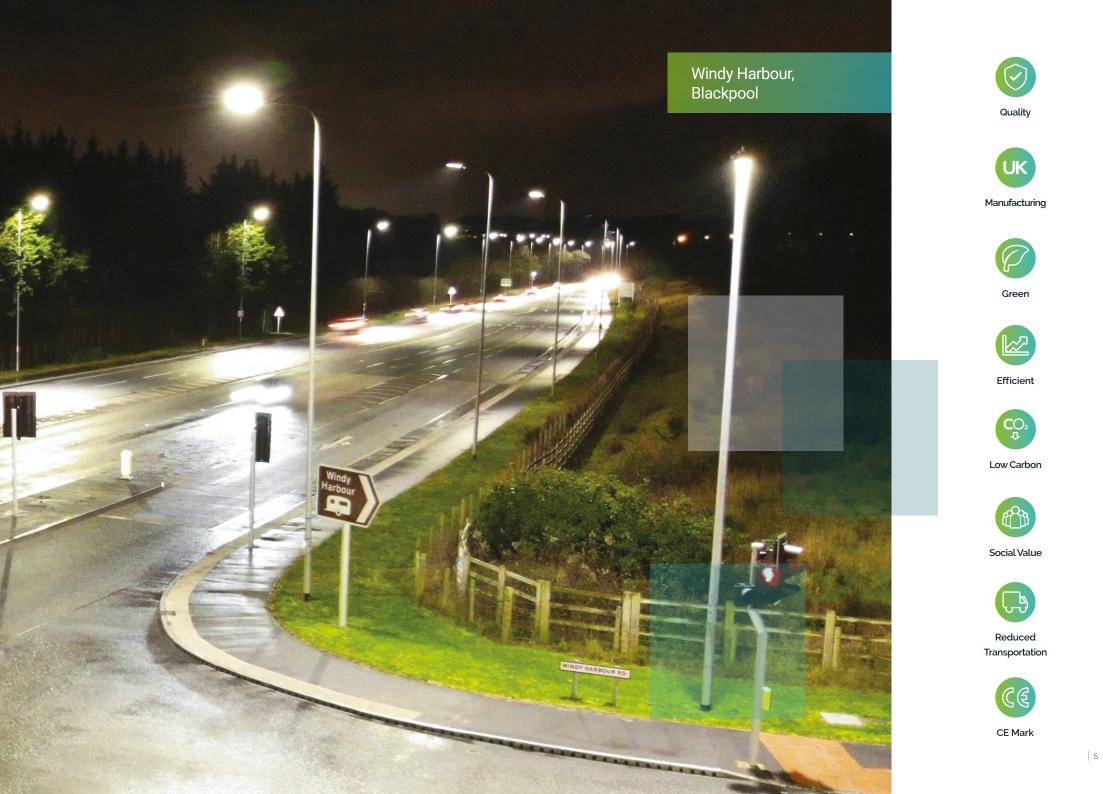
ASD LIGHTING

CHECK OUT SOME OF OUR LATEST FACILITIES.

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MAXI HIGHWAY DIAMOND™ ELITE See page 24-25 THE R. P. LEWIS CO., No. 7 LANSING MADE

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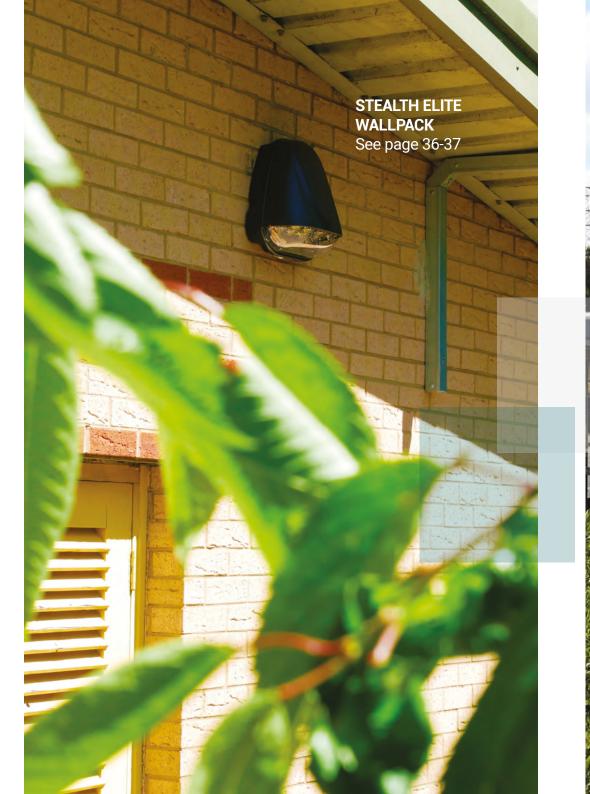


LIGHTING GALLERY

MICRO HIGHWAY DIAMOND[™] ELITE See page 18-19

SMARTWATCH[™] PTZ CAMERA

Pan-tilt-zoom camera integrated in the Midi Highway Diamond[™] Elite. See page 26-28



SMARTWATCH™ DISCREET CAMERA See page 26-29









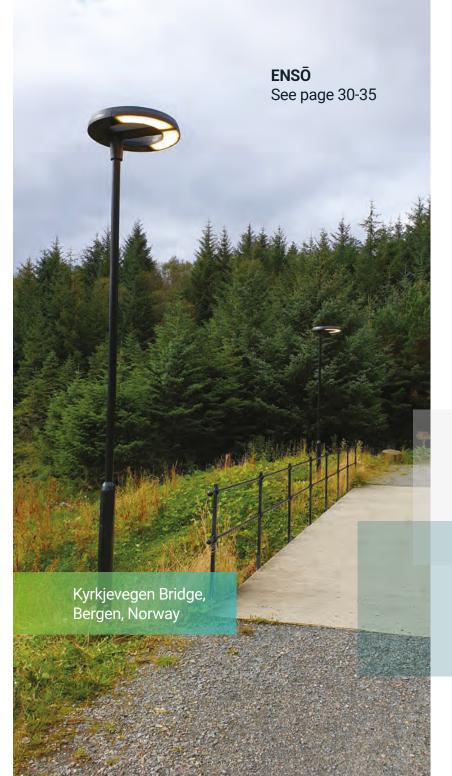




TITAN LED

SEE PAGE 44-45





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Tiverton Parkway Railway Station

> VIPERRAIL[™] ILLUMINATED HANDRAIL SYSTEM SEE PAGE 40-41

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The Highway Diamond™ Elite range by ASD Lighting offers a complete family of luminaires with an unsurpassed flexibility of lumen outputs, optical distributions and specification features.

It is suitable for use in a multitude of locations, from rural villages through to modern 24 hour smart cities, main roads, motorways and infrastructure projects.

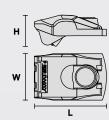
Four body sizes with modern sympathetic styling to ensure architects, planners and designers can follow an integrated design with a homogenous family of luminaires.

- UK Manufactured.
- High Specification.
- High Efficacy.
- Tool Free Access.
- IP66.
- IK10.
- CE.
- ENEC.
- 10 Day Delivery.

Technical Data	Standard Features	Additional Detail
LED	✓	Designed solely for an LED light source
Driver	✓	DALI Programmable, CMS Compatible
Driver Current	Various	200 - 700 mA
Dimming	✓	Multiple Step / Part Night
Constant Light Output	\checkmark	
Photometric Lens Options	✓ (Multiple)	Inc. Narrow / Medium / Wide / Extra Wide / Pedestrian Crossing
Luminaire Materials	LM6 Marine Grade Die-Cast Aluminium	Housing / Spigot / Fixing Clip
RAL Colours	Black / Light Grey	RAL 9005 / 9006
Correlated Colour Temperature	Various	Warm White / Neutral White / Cool White
Colour Rendering	> 80 > 72	Warm White Neutral White / Cool White
Ingress Protection Rating	IP66	Gear & LED Compartments
Impact Protection Rating	IK10	Optical Cover
Optical Cover	✓ Flat Cover	UV Stable Polycarbonate
Entry to Gear Compartment	Tool Free	Simple fixing clip
Driver Gear Tray Replacement	Tool Free (Excluding Micro Highway Diamond™)	Completely replaceable without tools required
Inbuilt Anti-Tamper Facility	\checkmark	Instructions provided in the luminaire
Protection Class	Class 1	
Warranty Period	Standard 5 Years	Extended Warranties Available
Specification	√(Various)	Inc. CE Certification / ENEC Mark
Design Life	100,000 hr	> L90, < F10
Mains Voltage	220-240 V / 50-60 Hz	
Operating Temperature Range	-40 to +55°c	Based on ambient external temperature
Surge Protection	Inbuilt Driver	10 kV (1 pulse) / 8 kV
Vibration Tested	√	Certificates - EN 60068-2-6 & EN 60068-2-64





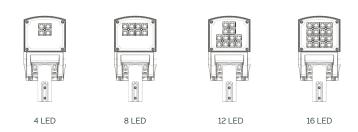


Size	
Length	255mm
Width	165mm
Height	111mm

Technical Data

LED Configuration	4/8/12/16
System power watts	4 – 37 W
Delivered lumens	300 - 4000 lm
Weight (Excluding Spigot)	3.1kg
Weight (Including Spigot)	3.5kg
Windage	< 0.02m ²
Mounting Options	Post Top (Ø 76 mm - Ø 60 mm) Side Entry (Ø 76 mm - Ø 60 mm) Side Entry (Ø 42 mm - Ø 28 mm)
Mounting Options Tilt - Post Top	Side Entry (Ø 76 mm - Ø 60 mm)
	Side Entry (Ø 76 mm - Ø 60 mm) Side Entry (Ø 42 mm - Ø 28 mm)

All features previously listed in the Highway Diamond™ Elite Range (pages 16 & 17) apply to this product.



The Micro Highway Diamond[™] is the smallest luminaire in the family. It is a high specification, high efficacy, UK manufactured luminaire delivering up to approximately 4,000 lumens.



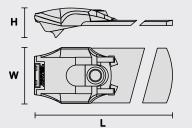
Code Builder	
HWD2/ HWD2P/ HWD2S/	60 - 76mm spigot 60 - 76mm (Set as post top pre-wired only) 28 - 42mm spigot
Colour Finish	
B	Black (RAL 9005) Light Grey (RAL 9006)
Correlated Colour Temperature	
3 4 57	3000K 4000K 5700K
LED Quantity	
LED4 LED8 LED12 LED16	4 LED 8 LED 12 LED 16 LED
Drive Current (200 - 700mA)	
20 30 35 40 50 60 70	200mA 300mA 350mA 400mA 500mA 600mA 700mA
Switching (Only if requested)	
C NS 7NS	Mini Cell NEMA Socket 7 Pin NEMA Socket Other switching systems available on request NFC driver available on request.
Optics	
-S4 As above Insert optic code required	S4 Optic S0 / S1 / S2 / S3 / S5 / S6 / S7 / S8 / M1 / M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0 / F1 / F2 / F3 / F4 / A1 / A2 / A3 / A4 / A5
Pre-wired (Only if requested)	
W8 2W8	8 metre Pre-wired 3 core flex (1.5mm) 8 metre Pre-wired 3 core flex (2.5mm)

Code Example

HWD2/B4LED835C-S1-W8

Micro Highway Diamond[™] Elite 60-76mm spigot, Black Finish, 4000K, 8 LED, 350mA, Mini Cell, S1 Optic, 8m Pre-wired 1.5mm flex.



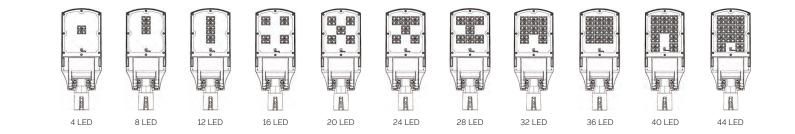


Size	
Length	476mm
Width	233mm
Height	116mm

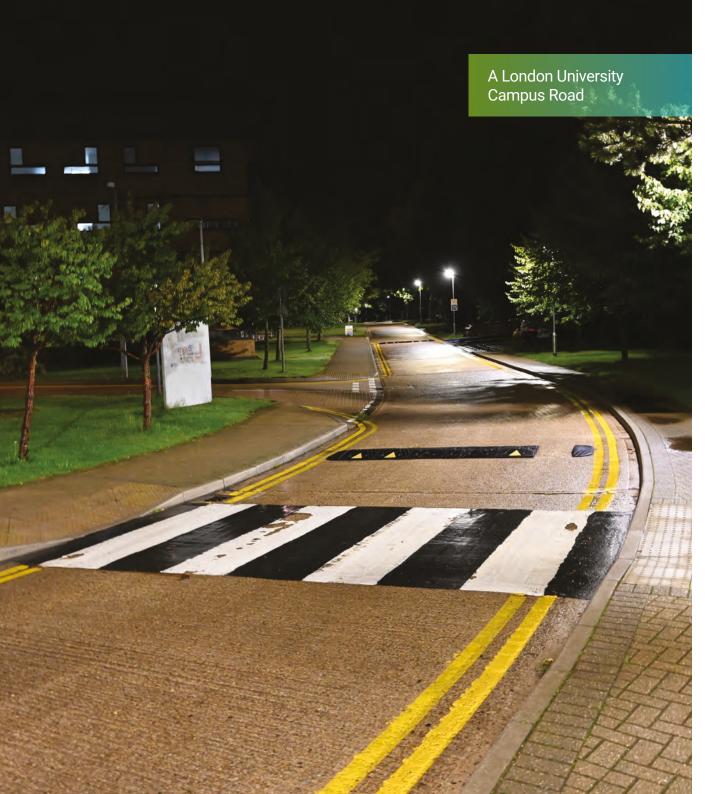
Technical Data

4 / 8 / 12 / 16 / 20 / 24 / 28 / 32 / 36 / 40 / 44
4 - 95 W
300 - 11044 lm
4.27kg (4 – 16 LED) 4.47kg (16 – 44 LED)
4.57kg (4 – 16 LED) 4.97kg (16 – 44 LED)
< 0.04m2
Post Top (Ø 76 mm - Ø 60 mm) Side Entry (Ø 76 mm - Ø 60 mm) Side Entry (Ø 42 mm - Ø 28 mm)
0° / 5° / 10° / 15°
-10° / -5° / 0° / 5° / 10°

All features previously listed in the Highway Diamond™ Elite Range (pages 16 & 17) apply to this product.



The Mini Highway Diamond[™] is the original luminaire in the family. It is a high specification, high efficacy, UK manufactured luminaire delivering up to 11,000 lumens.



HWDS/ 28 - 42mm spigot Colour Finish B B Light Grey (RAL 9005) J Light Grey (RAL 9006) Correlated Colour Temperature 3 3 3000K 4 4000K 57 5700K LED Quantity LED LED4 4 LED LED5 8 LED LED12 12 LED LED20 20 LED LED3 28 LED LED3 28 LED LED3 28 LED LED3 28 LED LED4 44 LED Derive Current (200 - 700mA) 20 200mA 20 200mA 30 300mA 30 300mA 30 300mA 30 300mA 30 300mA 50 500mA 60 600mA 70 700mA Switching (Only if requested) Viter available on request. NFC driver available on request.	iwd/	60 - 76mm spigot
Colour Finish B Black (RAL 9005) J Light Grey (RAL 9006) Correlated Colour Temperature 3 3000K 4 4000K 57 5700K LED Quantity LED Quantity LED		60 - 76mm (Set as post top pre-wired only)
B Black (RAL 9005) Light Grey (RAL 9006) Correlated Colour Temperature 3 3000K 4 4000K 57 5700K LED Quantity LED4 4LED LED4 4LED LED8 8LED LED16 16LED LED2 20LED LED24 24LED LED28 28LED LED28 28LED LED28 28LED LED36 36LED LED44 44LED Drive Current (200 - 700mA) 20 200mA 30 300mA 35 350mA 40 400mA 50 500mA 60 600mA 70 700mA Switching (Only if requested) C Mini Cell NEMA Socket 7NS 7Pin NEMA Socket 7NS 7Pin N		28 - 42mm spigot
J Light Grey (RAL 9006) Correlated Colour Temperature 3 3000K 4 4000K 57 5700K LED Quantity LED4 4 LED LED8 8 LED LED12 12 LED LED20 20 LED LED34 24 LED LED32 32 LED LED34 36 LED LED35 36 LED LED36 36 LED LED36 36 LED LED36 36 LED LED36 36 LED LED44 44 LED Drive Current (200 - 700mA) 200mA 20 200mA 30 3000mA 35 350mA 40 4000mA 50 500mA 60 600mA 70 700mA Switching (Only if requested) Mini Cell NEM Socket 7 Pin NEMA Socket 7NS 7 Pin NEMA Socket <		
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20 200mA 30 300mA 35 350mA 40 400mA 50 500mA 60 600mA 70 700mA Switching (Only if requested) C NS 700mA Switching (Only if requested) C NEMA Socket 7 Pin NEMA Socket 7 Pin NEMA Socket 0 Other switching systems available on request. Optics -S4 As above Insert optic code required S4 Optic S4 Optic S5 Of S7 / S8 / M1 M2 / M4 / M5 / M6 / M7 / M8 / FO	ED44	44 LED
30 300mA 35 350mA 40 400mA 50 500mA 60 600mA 70 700mA Switching (Only if requested) C NS 70 700mA C NEMA Socket NS 7Pin NEMA Socket Other switching systems available on request. Optics -S4 As above Insert optic code required S4 Optic As above Insert optic code required	Prive Current (200 - 700mA)	
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40 400mA 50 500mA 60 600mA 70 700mA Switching (Only if requested) C NS 7 Pin NEMA Socket 7NS 7 Pin NEMA Socket Other switching systems available on requ NFC driver available on request. Optics -S4 As above Insert optic code required S4 Optic S0 / S1 / S2 / S3 / S5 / S6 / S7 / S8 / M1 M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0		
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C NEMA Socket NS 7 Pin NEMA Socket 7NS Other switching systems available on request. Optics -54 As above Insert optic code required S0 / S1 / S2 / S3 / S5 / S6 / S7 / S8 / M1 M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0	witching (Only if requested)	
NS TNS TNS Physics S4 As above Insert optic code required S4 Motion S4		
7NS 7 MIN NEMA Socket Other switching systems available on requ NFC driver available on request. Optics -S4 As above Insert optic code required S4 Optic S0 / S1 / S2 / S3 / S5 / S6 / S7 / S8 / M1 M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0		
Other switching systems available on required Optics -S4 As above Insert optic code required S0 / S1 / S2 / S3 / S5 / S6 / S7 / S8 / M1 M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0		
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	s above Insert optic code required	S0/S1/S2/S3/S5/S6/S7/S8/M1/
/ F2 / F3 / F4 / A1 / A2 / A3 / A4 / A5		M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0 / F2 / F3 / F4 / A1 / A2 / A3 / A4 / A5
Pre-wired (Only if requested)	re-wired (Only if requested)	
W8 8 metre Pre-wired 3 core flex (1.5mm)	(/8	8 metre Pre-wired 3 core flex (1.5mm)

Code Example

HWD/B4LED835C-S1-W8

Mini Highway Diamond™ Elite 60-76mm spigot, Black Finish, 4000K, 8 LED, 350mA, Mini Cell, S1 Optic, 8m Pre-wired 15mm flex.

For more detailed specifications & code, contact ASD Lighting.



Technical Data

LED Configuration	44 / 52 / 60 / 68 / 76 / 84 / 92 / 100
System power watts	48 - 211 W
Delivered lumens	4,832 - 24,341 lm
Weight (Excluding Spigot)	< 11.5kg (44 – 100 LED*)
Weight (Including Spigot)	< 12.5kg (44 – 100 LED*)
Windage	< 0.11m2
Mounting Options	Post Top (Ø 76 mm - Ø 60 mm) Side Entry (Ø 76 mm - Ø 60 mm) Side Entry (Ø 42 mm - Ø 28 mm)
Tilt - Post Top	-5° / 0° / 5° / 10° / 15°
Tilt – Side Entry	-10° / -5° / 0° / 5° / 10° / 15°
Auto Disconnect	✓ Switches unit off upon opening

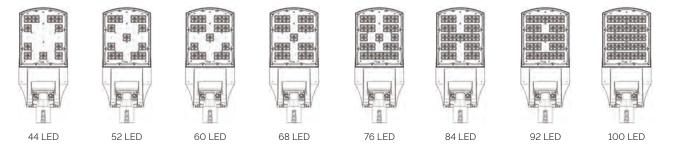
All features previously listed in the Highway Diamond™ Elite Range (pages 16 & 17) apply to this product.

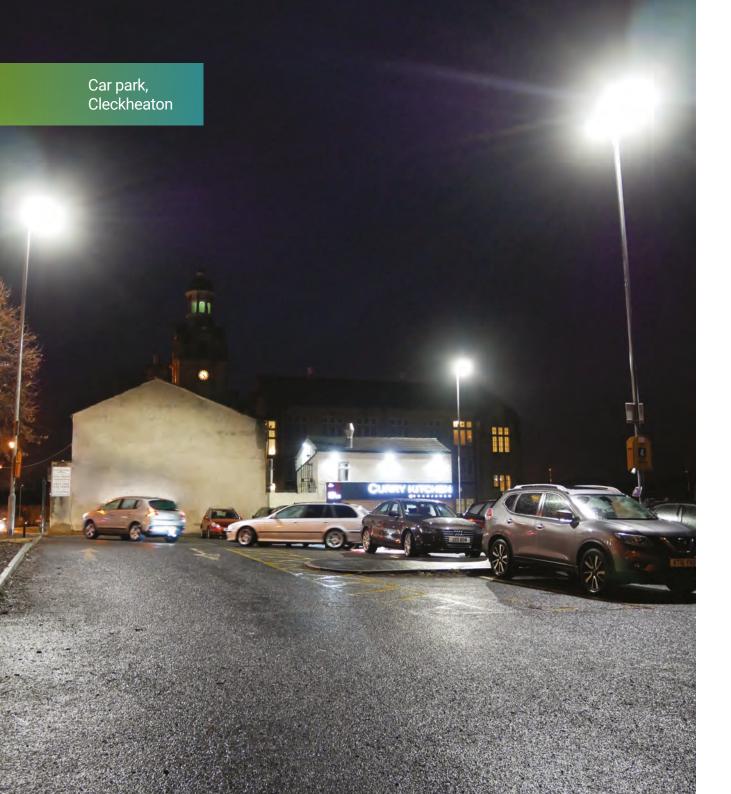
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*Weight varies dependent on driver configuration.

The Midi Highway Diamond[™] is a new edition to the Highway Diamond[™] Elite range with enhanced high specification features. It is a high efficacy, UK manufactured luminaire delivering up to 25,000 lumens.





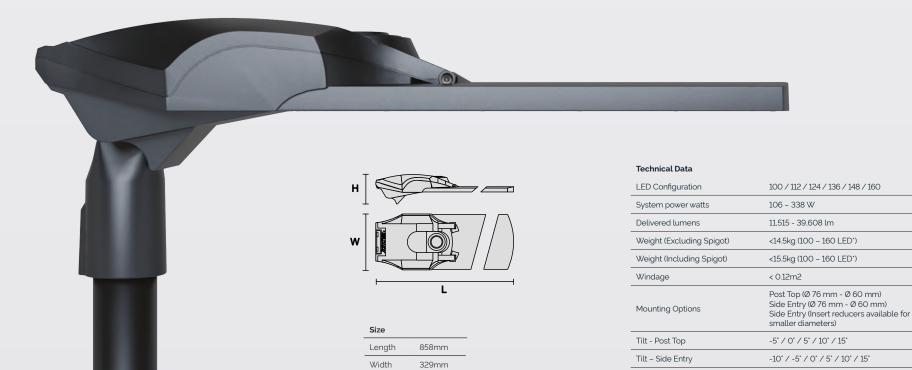
HWD6/ HWDP6/	60 - 76mm spigot 60 - 76mm (Set as post top pre-wired only)
Colour Finish	00 - 70mm (Set as post top pre-wired only)
В	Black (RAL 9005)
J	Light Grey (RAL 9006)
Correlated Colour Temperature	
3K	3000K
4K 57K	4000K 5700K
LED Quantity	
44	44 LED
52	52 LED
60	60 LED
68	68 LED
76	76 LED
84	84 LED
92	92 LED
	100 LED
Drive Current (200 - 700mA)	
20	200mA
30	300mA
35	350mA
40	400mA
50	500mA
60	600mA
70	700mA
Switching (Only if requested)	
с	Mini Cell
NS	NEMA Socket
7NS	7 Pin NEMA Socket
	Other switching systems available on reques
	NFC driver available on request.
Optics	
-S4	S4 Optic
As above Insert optic code required	S0 / S1 / S2 / S3 / S5 / S6 / S7 / S8 / M1 /
	M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0 / F / F2 / F3 / F4 / A1 / A2 / A3 / A4 / A5
Pre-wired (Only if requested)	
W10	10 metre Pre-wired 3 core flex (1.5mm)
2W10	10 metre Pre-wired 3 core flex (2.5mm)

Code Example

HWD6/B4K6850-M1-W10

Midi Highway Diamond™ Elite 60-76mm Spigot, Black Finish, 4000K, 68 LED, 500mA, M1 Optic, 10m Pre-wired 1.5mm flex.

For more detailed specifications & code, contact ASD Lighting.



173mm

Height

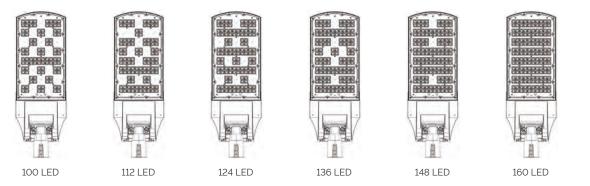
All features previously listed in the Highway Diamond Elite Range (pages 16 & 17) apply to this product.

✓ Switches unit off upon opening

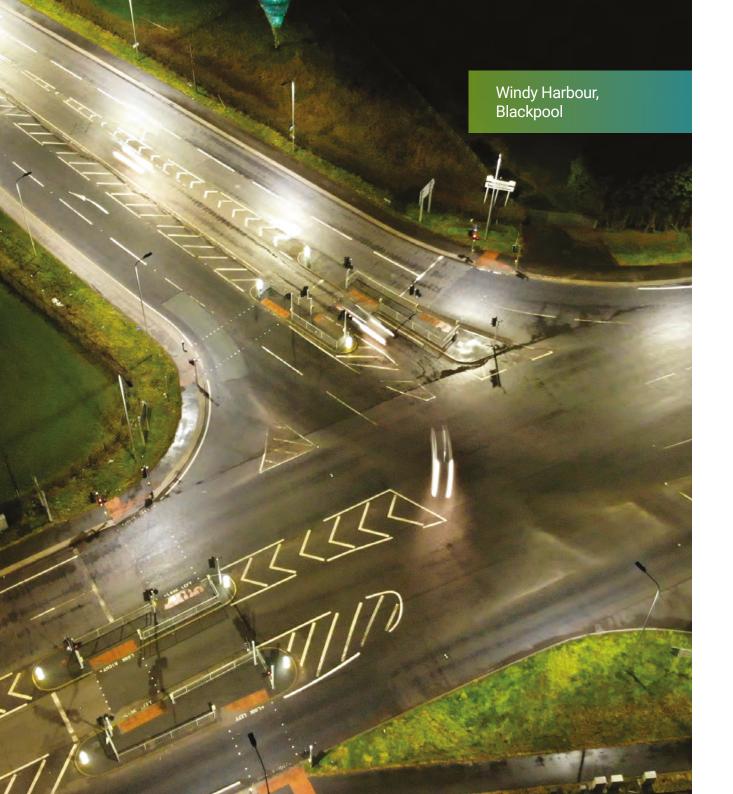
*Weight varies dependent on driver configuration.

Auto Disconnect

The Maxi Highway Diamond[™] is the largest member of the Highway Diamond[™] Elite family, with the same enhanced high specification features. It is a high efficacy, UK manufactured luminaire delivering up to 40,000 lumens.



24



HWD8/	60 - 76mm spigot
HWDP8/	60 - 76mm (Set as post top pre-wired only)
Colour Finish	
В	Black (RAL 9005)
J	Light Grey (RAL 9006)
Correlated Colour Temperature	
ЗК	3000K
4K	4000K
57K	5700K
LED Quantity	
100	100 LED
112	112 LED
124	124 LED
136	136 LED
148	148 LED
160	160 LED
Drive Current (200 - 700mA)	
20	200mA
30	300mA
35	350mA
40	400mA
50	500mA
60	600mA
70	700mA
Switching (Only if requested)	
0	Mini Cell
C	NEMA Socket
NS	7 Pin NEMA Socket
7NS	Other switching systems available on request
	NFC driver available on request.
Optics	
-S4	S4 Optic
As above Insert optic code required	S0/S1/S2/S3/S5/S6/S7/S8/M1/
	M2 / M3 / M4 / M5 / M6 / M7 / M8 / F0 / F1 / F2 / F3 / F4 / A1 / A2 / A3 / A4 / A5
Pre-wired (Only if requested)	7127137147A17A27A37A47A3
W15	15 metre Pre-wired 3 core flex (1.5mm)
2W15	15 metre Pre-wired 3 core flex (2.5mm)

Code Example

HWD8/B4K16050-M1-W15

Maxi Highway Diamond™ Elite 60-76mm Spigot, Black Finish, 4000K, 160 LED, 500mA, M1 Optic, 15m Pre-wired 1.5mm flex.

For more detailed specifications & code, contact ASD Lighting.



- Reduced Capital Cost By utilising the lighting columns and cabling it reduces the requirement for
 additional CCTV columns, trenching & cabling.
- Retro-Fit ability Allows clients to add surveillance cameras in to locations where they do not currently
 have it without needing for an expensive re-wire or civils work.
- No shadowing on images Because the light source is mounted in the same location as the camera, there
 is no shadowing on recorded images. Conventionally cameras and lighting would be mounted in different
 locations which would create issues with shadowing and poor facial pickup.
- Connectivity The wide range of connectivity options that we have developed for the SmartWatch[™] system really does create a solution for any application and budget.

- Maintenance features With clever product design we have been able to offer additional maintenance benefits when integrating lighting and camera technology. The components within the luminaire head are separated on to separate gear trays, lighting components on one gear tray and camera components on a separate gear tray. Each gear tray is independently removable and replaceable meaning that for future maintenance, lighting contractors only need to touch the lighting gear tray and camera contractors only need to touch the camera gear tray.
- Speed of deployment Deployment for new CCTV locations is days not weeks with SmartWatch™.
- **Planning** No additional planning needed to install CCTV on existing column infrastructure. Planning would be need to install new columns.



- Functionality This is where the SmartWatch[™] system and Axis cameras come in to their own, offering additional functionality to clients on top of basic video surveillance. These are tailored solutions based around an individual clients requirements and intended uses. These tailored solutions would require commissioning and potential licensing costs. The below are some common examples but the possibilities are endless;
- PIR function All camera versions can be used to replace a PIR and activate corridor function up and down when it detects movement. Eg. On Perimeter fences at armed forces bases.
- ANPR (number plate recognition) All the cameras are capable of ANPR to detect number plates, useful for places like car parks for allowing access and also monitoring time on site etc.
- Facial Recognition All of the cameras are capable of Facial Recognition to allow automatic access or alert to the presence of watch list individuals when detected.
- People & Traffic counting All of the camera are capable of this function for statistical analysis or to adjust lighting levels dependent on level of traffic at any given time.
- Temperature / Gritting A thermal camera that can be used to monitor the temperature of a surface eg. Roadway / car park. When the temperature hits a specified temperature it can send an automated alert. Eg. When a road surface hits 4°C it can send an automatic notification to a gritting contractor to grit the car park. This has the potential to significantly reduce the liability to end users from accident claims on ice.
- Listening Function A specialist camera that can be used with inbuilt microphone to listen for keywords or noises such as gun shots or screaming. Can be programmed to send automatic alerts upon detection.

Connectivity Options



Internal Storage (all data stored on 128gb SD Card in the luminaire)



Hard Wired (ethernet)



Wi-Fi (accessed remotely within Wi-Fi Range)



4G / LTE (accessed remotely from any location)

SMARTWATCH[™]



Discreet Camera	
Lens	Fixed
Resolution	1080р
Horizontal Field of view (in 1080p)	113° (per camera)
Vertical Field of view (in 1080p)	62° (per camera)
Dust Resistant	√ (IP66)
Moisture Resistant	√ (IP66)
Frame Rate	50/60 fps (50/60Hz)
Operating Temperature Range	-30°C to +55°C
Warranty	3 years
Wide Dynamic Range Enabled	√ (with F44 unit)
Quad View	√ (with F44 unit)
Zipstream	\checkmark
Two Way Audio Enabled	\checkmark
Alarm in-/outputs enabled	\checkmark
Pan / Tilt / Zoom	x
Lightfinder	x
Speed Dry (rain removal)	×
Auto Image Stabilisation	x
Auto-Tracking	×



- Sharpdome technology.
- Speed Dry function.
- Lightfinder technology.
- Axis Zipstream technology.
- Pan performance 700° per second.
- Up to 22,000 lumen output.

PTZ Camera	
Lens	Adjustable
Resolution	720р
Horizontal Field of view (in 1080p)	58.3°-2.1°
Vertical Field of view (in 1080p)	34.9°-1.3°
Dust Resistant	√ (IP66)
Moisture Resistant	√ (IP66)
Frame Rate	up to 25/30fps or 50/60 fps (50/60Hz)
Operating Temperature Range	-40°C to +70°C
Warranty	3 years
Wide Dynamic Range Enabled	Dynamic Capture
Quad View	×
Zipstream	✓
Two Way Audio Enabled	×
Alarm in-/outputs enabled	×
Pan / Tilt / Zoom	"Pan 360° endless, 0.05'-700°/s Tilt +20 to -90°, 0.05'-500°/s Zoom 30 x optical, 12 x digital = total 360 x zoom"
Lightfinder	✓
Speed Dry (rain removal)	✓
Auto Image Stabilisation	✓
Auto-Tracking	✓



- Outdoor-ready and IK10 vandal-resistance.
- Up to 22,000 lumen output. .

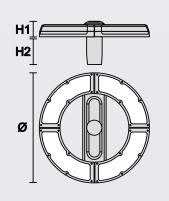
Dome Camera	
Lens	Adjustable
Resolution	1080p
Horizontal Field of view (in 1080p)	84°-30°
Vertical Field of view (in 1080p)	63°-22°
Dust Resistant	√ (IP66)
Moisture Resistant	√ (IP66)
Frame Rate	"2MP - 30fps / 3MP - 20fps / 5MP - 12fps"
Operating Temperature Range	-40°C to +55°C
Warranty	3 years
Wide Dynamic Range Enabled	✓
Quad View	×
Zipstream	✓
Two Way Audio Enabled	√
Alarm in-/outputs enabled	√
Pan / Tilt / Zoom	Digital
Lightfinder	x
Speed Dry (rain removal)	×
Auto Image Stabilisation	x
Auto-Tracking	✓



Bullet Camera	
Lens	"Varifocal Remote focus"
Resolution	1080p
Horizontal Field of view (in 1080p)	96°-33°
Vertical Field of view (in 1080p)	50°-18°
Dust Resistant	√ (IP66)
Moisture Resistant	√ (IP66)
Frame Rate	50/60 fps (50/60Hz)
Operating Temperature Range	-30°C to +50°C
Warranty	3 years
Wide Dynamic Range Enabled	Forensic Capture
Quad View	×
Zipstream	\checkmark
Two Way Audio Enabled	×
Alarm in-/outputs enabled	✓
Pan / Tilt / Zoom	Digital
Lightfinder	✓
Speed Dry (rain removal)	×
Auto Image Stabilisation	×
Auto-Tracking	×

$\text{ENS}\bar{\text{O}} \text{ COLLECTION}$





Size	
Height 1 (head)	96mm
Height 2 (with spigot)	266mm
Diameter	670mm

- An extensive range of photometric distributions and customisable sections.
- Tool-less entry, auto-disconnect & quick release gear-tray features.
- Central or offset, post-top mounting. Suspension options also available.
- IP66 protection using bespoke poured gaskets.
- IK10+ impact resistance, marine grade, LM6 aluminium and polycarbonate body.
- 1000+ hours salt spray using environmentally friendly Metavate pre-treatment.
- Powder coat finish available in black, and white, and RAL9006.
- Maximum weight 13kg, including spigot.
- Windage (m²): 0.06.
- Mini Cell, Nema and PIR available.
- 3K, 4K and 5,700K options.
- 5 year warranty.









+D+ +D+

20

22

10.0% 10.0%

-

220

Configuration Examples



16 LED, offset mount, 2 adjacent quadrants.



24 LED, centre mount, 2 opposite quadrants.



40 LED, offset mount, 1 adjacent quadrants.



32 LED, 4 quadrant.



48 LED, 4 quadrants.



80 LED, 4 quadrants. Spigot Location

$\text{ENS}\bar{\text{O}} \text{ COLLECTION}$

Orientation & Optics







Symmetrical Orientation.

Asymmetrical Orientation.

Bisymmetrical Orientation.



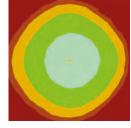


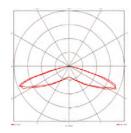


Symmetrical Distributions

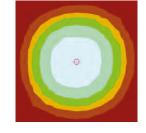
A vast array of lens are available, and can be applied to the various orientations to provide tailored solutions. The examples below are common optics, in a symmetrical orientation.

A1 Optic

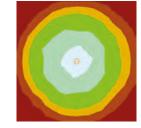




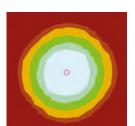
M1 Optic

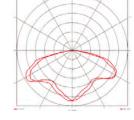


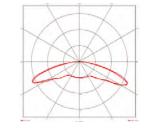


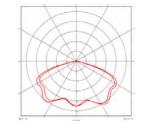


SO Optic





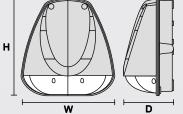




ENP	Post Top
Mounting	
C	Centre Mount
o O	Offset Mount
Quadrants	
2Q	2 Quadrants
4Q	4 Quadrants
Configuration (2 Quadrant	ts only)
4	Adjacent Quadrants
	Opposite Quadrants
Colour Finish	
B W	Black White
J	Light Grey
Correlated Colour Temper	rature
3K	3000K
4K	4000K
57K	5700K
LED Quantity (Variable de	pending on Quadrant)
LED16	16 LED (2Q)
LED24 LED32	24 LED (2Q) 32 LED (4Q)
LED32 LED40	40 LED (2Q)
LED48	48 LED (4Q)
_ED80	80 LED (4Q)
Drive Current (Variable de	pending on LED Quantity)
50	500mA
60	600mA
70	700mA
Switching (Only if request	ed)
NS	3 Pin NEMA Socket
7NS	7 Pin NEMA Socket
C	Photocell
>	PIR
Lens Orientation	
В	Bi-Symmetrical
Д	Asymmetrical
S	Symmetrical
Optics	
-SO	S4 Optic
-S1	S1 Optic
-A1	A1 Optic
-M1 -M2	M1 Optic M2 Optic
Pre-wired (Only if request	
-W5	
-W5 -W6	5 metre pre-wired 6 metre pre-wired
-W10	10 metre pre-wired
-	

Enső Offset Mount, 2 Quadrant Adjacent, Black Finish, 4000K, Clear Diffuser, 40 LED, 600mA, NEMA Socket, Bi-Symmetrical S1 Optic, 5 metre pre-wired. For more detailed specifications & code, contact ASD Lighting.





Size		
Width	330mm	
Height	343mm	
Depth	176mm	

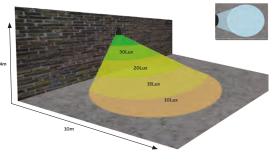
- Wall mount.
- Black and titanium colour finishes available.
- Flood, wide and T beam angle distribution available.
- Die cast aluminium (powder coated).
- Clear / opal diffuser options.
- DALI Driver as standard (requires different wiring than standard product in order to use DALI).
- 10KV Surge Protection.
- Integrated Over Voltage Protection.
- Standby Power less than 0.5W.
- High operation temperature version available.
- ULOR as low as 0.6%.

- Standard specification paint finish passes 1000 hours Salt Spray Test
 in accordance with BS EN ISO 9227:2006.
- > 100k hrs L90-B10.
- Latest generation of LED chips.
- IP65 / IK10.
 - 5 Year LED guarantee.
- Emergency option available.
- PIR / Photocell options available.
- 3000 K available on request.
- Step Dim (Additional PIR required).
- Astro Dim (Additional Photocell required).
- Presence Detection (Additional PIR required).





Flood Beam Angle



Wide Beam Angle



T-Beam Angle



Code Builder	
SEL/ SEG/	Stealth Elite Clear Diffuser Stealth Elite Glass Diffuser
Colour Finish	
B X	Black Titanium
Correlated Colour Tempe	rature
3 4	3000К 4000К
LED Package	
LED1500 LED2000 LED3000 LED3500 LED4000 LED4000	13W 16W 22W 27W 30W 43W
Beam Angle	
-S0 -M1 -T	Flood Beam Angle Wide Beam Angle T-Beam Angle
Options	
M C P	3 Hour Maintained Emergency Photocell PIR

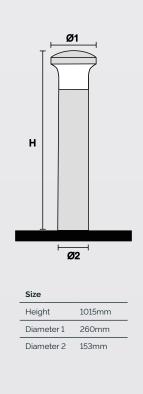
Code Example

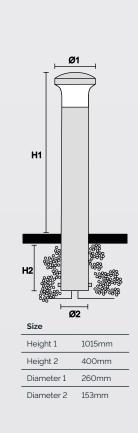
SEL/B4LED3000-S0

Stealth Elite Clear Diffuser, Black, 4000K, 22W, 2807 lm, Flood Beam Angle











Access Door (Galvanized steel version only) LHR/_G

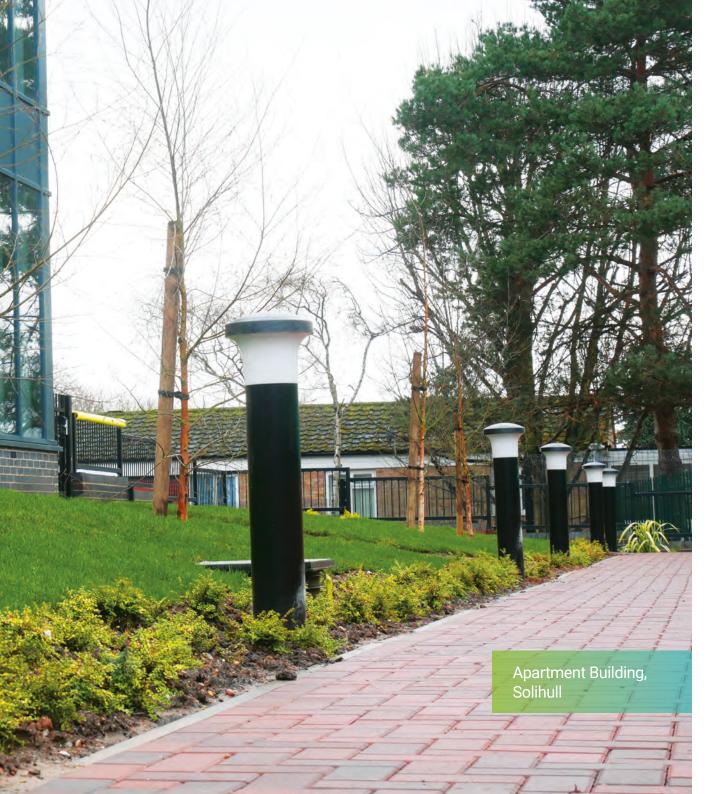
The ASD LiteHouse bollard provides a stylish, robust and efficient unit for illuminating pedestrian areas, pathways & carparks and defining routes and edges within designated areas.

- Root mount & surface mount versions.
- Black and titanium colour finishes available.
- Bollard column available in high impact PVC or powder coated aluminium.
- Maximises downward light & minimises upward light.
- Diffuser available in opal and Fresnel prismatic.
- Adjustable ground trim / kick plate (optional).
- Root mount first fit kit.

.

- PVC shaft option simplifies earthing requirements + removes touch potential.
- Galvanized steel with door access.

- 60,000 hours to L70.
- IP65 / IK10.
- 5 Year LED guarantee.
- Emergency option available.
- Photocell option available.
- 3000 K available on request.
- Access door option available in galvanized steel version only.
- Fluorescent options available.



Code Builder		
LHR/ LHS/	Litehouse Root Mounted Litehouse Surface Mounted	
Colour Finish		
B X	Black Titanium	
Height		
1	1 Metre	
Material		
P A G	High Impact PVC Aluminium Column Galvanized steel	
Diffuser		
L F	Premium Opal Louvre	
Drive Current		
LED35 LED50	350mA 500mA	
Options		
M C	3 Hour Maintained Emergency Photocell	

Code Example

LHR/B1PFLED50C

Litehouse Bollard, Black, High Impact PVC, Louvre diffuser, LED, 500mA, Photocell.



This luminaire is a high performance bespoke engineered handrail with integral IP65 LED lighting units for the illumination of stairs, walkways & bridges.

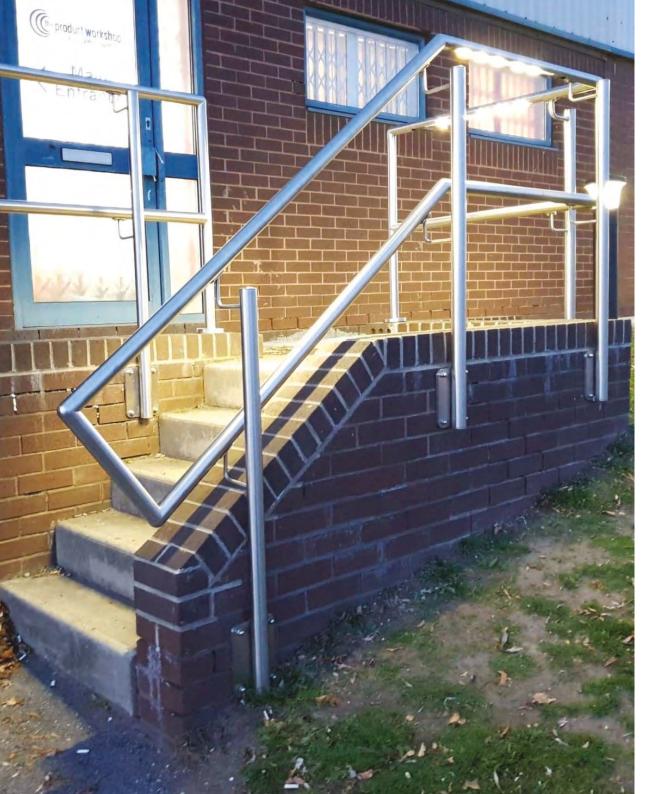
The ViperRAIL[™] LED system is the ideal solution where stairs and walkways need to be illuminated in a Discreet and uniform method.

Available with either brushed stainless, powder coated or warm-touch finishes. This handrail is suitable for both internal and external use.

The striking design features and the use of LED light, allows it to architecturally enhance the environment where it is installed. At the same time the ViperRAIL[™] LED provides the essential safety requirements for pedestrians.

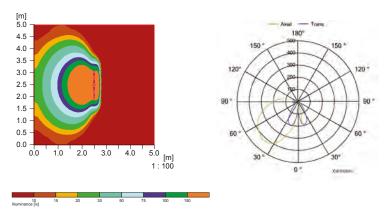
- Project specific LED handrail system.
- Handrail manufactured from 316 stainless steel.
- Super tough IK10 polycarbonate luminaire optics and anodised aluminium heat sink.
- Symmetrical / asymmetric distributions available.
- 48mm diameter handrail.
- In excess of 100,000 hours to L85 B10.
- Class III luminaire SELV compliant.
- Warm to touch coating available if required.
- 4000 K CRI 75 light source as standard other colours available.
- Full range of rail end terminations and supports available.

- Dimming available as an option.
- Can be connected to static inverter / ups to offer emergency operation.
- LED module lengths available: 300, 600, 900 and 1200mm.
- Can be used for compliance with building regulations
 Part K, BS5395, DDA.
- Single and twin circuit wiring available.
- Available in any paint colour.



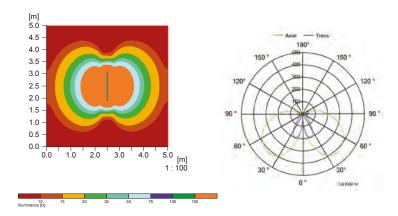
Asymmetric

Asymmetric provides illumination to walkways or gives an ambient glow to walls, highlighting the route of travel without the need for lamp posts.



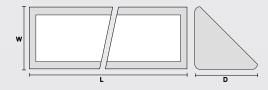
Bi-Asymmetric

Bi-Asymmetric provides even illumination from the rail to either side of it, ideal for divider rails and a modern alternative to lamp posts.









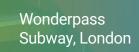
Size	
Width	673mm
Height	158mm
Depth	158mm

High efficiency cornice luminaire providing a robust vandal resistant and energy efficient option for high dependency and security applications.

Cornice mount.

- White colour finish.
- Steel body & vandal resistant 4mm thick prismatic GE lexan
 polycarbonate diffuser.
- 600mm, 1200mm & 1500mm lengths available.
- IP20 + IP66.
- 150 Joules of impact resistance (IK16).
- 'F' Mark.
- CE.

- BS EN 60598.
- 5 Year LED guarantee.
- Emergency option available.
- Night light option available.
- DSI / DALI Dimmable available.
- Microwave on / off available.
- e-Motion[™] Corridor available.
- Fluorescent options available.





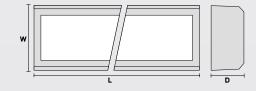
Code Builder		
IV6/ IV12/ IV15/	Invincible LED 673mm Invincible LED 1273mm Invincible LED 1573mm	
Colour Finish		
W	White	
Diffuser		
К	Prismatic	
Correlated Colour Temperature		
3 4	3000K 4000K	
LED Quantity		
LED3000 LED6000 LED7500	LED 3000 LED 6000 (Excluding 673mm body) LED 7500 (Excluding 673mm body)	
Options		
M -CFP -CFS -9 -DDD -DA -DA -DD -CLED3	3 Hour Maintained Emergency e-Motion™ Microwave Master Dim e-Motion™ Microwave Slave Dim Microwave On/Off DALI / DSI Dim Analogue Dim Switch Dim Night Light	

Code Example

IV12/WK4LED3000M

Invincible LED 1273mm, White, Prismatic, 4000K, LED 3000, Emergency.





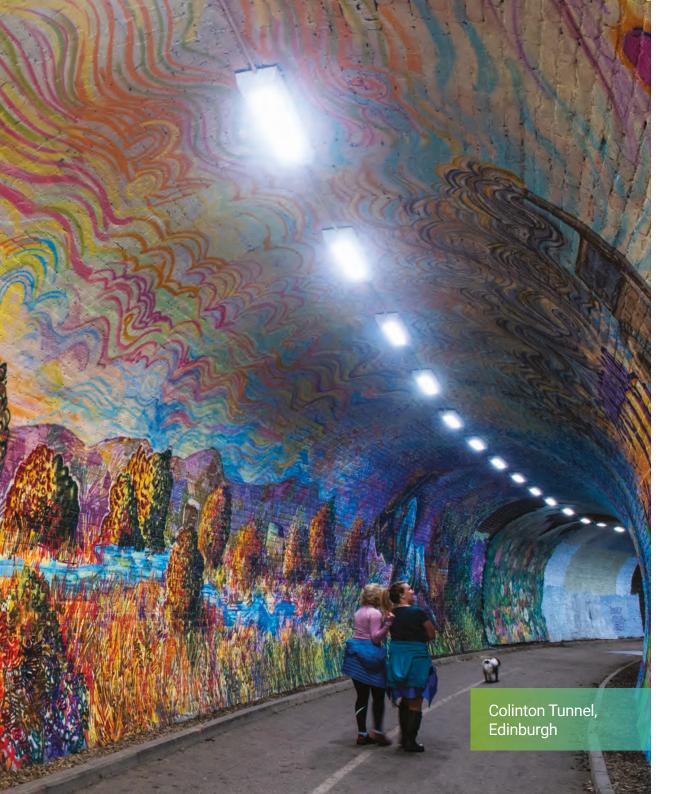
Size	
Width	673mm
Height	254mm
Depth	92mm

High efficiency anti-vandal luminaire, suitable for healthcare, secure units, external tunnels and public walkways.

- Surface mounted (Wall or ceiling).
- White colour finish.
- 1.2mm mild steel body & vandal resistant 4mm thick prismatic GE lexan polycarbonate diffuser.
- 600mm, 1200mm & 1500mm lengths available.
- 60,000 hours to L70/B50 (5 x the life of fluorescent lighting).
- IP20 + IP66.
- 150 Joules of impact resistance (IK16).
- 'F' Mark.

.

- CE.
- BS EN 60598.
- 5 Year LED guarantee.
- Emergency option available.
- Night light option available.
- DSI / DALI Dimmable available.
- Microwave on / off available.
- e-Motion[™] Corridor available.
- Fluorescent options available.



Code Builder		
TT6/ TT12/ TT15/	Titan LED 673mm Titan LED 1273mm Titan LED 1573mm	
Colour Finish		
W	White	
Diffuser		
К	Prismatic	
Correlated Colour Temperature		
3 4	3000K 4000K	
LED Quantity		
LED3000 LED6000 LED7500	LED 3000 LED 6000 (Excluding 673mm body) LED 7500 (Excluding 673mm body)	
Options		
M -CFP -CFS -9 -DDD -DA -DA -DD -CLED3	3 Hour Maintained Emergency e-Motion™ Microwave Master Dim e-Motion™ Microwave Slave Dim Microwave On/Off DALI / DSI Dim Analogue Dim Switch Dim Night Light	

Code Example

TT12/WK4LED3000-9

Titan LED 1273mm, White, Prismatic, 4000K, LED 3000, Microwave On / Off.











Facility photos from our head office & factory in Rotherham.







Mangham Road, Barbot Hall Industrial Estate, Rotherham, S61 4RJ, United Kingdom

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asdstreetlighting.com

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