

Kirium Eco

Quality needn't cost the earth





Quality Needn't Cost The Earth

Introducing the NEW Kirium Eco. Our most competitive range of LED street lighting to-date; optimised for residential applications.

Need market-leading performance (up to 185lm/W), with a minimal whole life cost?

Think Kirium Eco.

Key features - benefits:

- 4 sizes: 12, 24, 36 or 48 LEDs ideal for 1-for-1 replacement of traditional light sources
- Lumen outputs of up to 22,500lm with 10 optical ٠ solutions - perfect for a variety of applications
- Market-leading luminaire efficacy of up to 185lm/W - providing low total cost of ownership
- Choice of smart control options delivering further energy savings and enabling asset management
- · Adaptable mounting block allows for easy side entry or post top switching on-site
- Extremely lightweight for minimal column loading
- 2,200K / 2,700K / 3,000K / 4,000K warmer colour temperatures as standard for enhanced visual an environmental comfort
- BIM ready for use in Autodesk® Revit®
- WEEE compliant end of life recyclability service through our service provider, Lumicom



Low total

cost of

ownership





Easy to install

Optically enhanced for residential lighting

ready

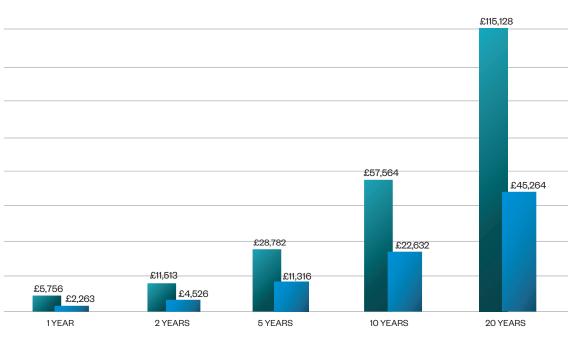


Low Total Cost Of Ownership

Compared to traditional light sources, LED technology offers immediate savings on energy consumption. Combined with lower maintenance costs and lamp replacement needs, Kirium Eco provides substantial savings on energy costs over its 100,000 hour (L90) lifetime, lowering the overall lifetime investment. Whether it's one-for-one replacement or a new installation, Kirium Eco is the smart choice for when low total cost of ownership is a key requirement for your project.

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Luminaire Comparison	100W SON-T	Kirium Eco Midi (650mA)
Total Circuit Watts	117W	46W
Luminaire Lumens	7,600lm	7,630lm
Luminaire Efficacy	65lm/W	166lm/W
Average Burning Hours per Year	4100 hours	4100 hours
Elexon Switching Regime	808	808
Annual Energy Consumption	480kW	189kW
Annual Energy Cost per Luminaire (based on energy cost p/KwH = £0.12)	£57.56	£22.63
Annual Energy Consumption Saved (per Kirium Eco)	-	71W
Annual Energy Cost Saved (per Kirium Eco)	-	£34.93
Summary of Saving (per Kirium Eco)	-	61%

Cost of Ownership (electricity)



based on 100 luminaires



Optimised For Residential Applications

Kirium Eco is suitable for P2, P3, P4 and P5 lighting class applications.



Kirium Eco Mini

Using 12 LEDs, suitable for mounting up to 6 metres. Kirium Eco Mini is a compact and extremely efficient LED lantern for footpaths, cycle ways and minor residential roads.

Luminaire lumen output: up to 5,800lm Suitable for replacing: 70W SON-T, 90W SOX



Kirium Eco Midi

Using 24 LEDs, suitable for mounting up to 8 metres. Kirium Eco Midi is recommended for residential roads, pedestrian crossings and private car parks.

Luminaire lumen output: up to 11,600lm Suitable for replacing: 100W SON-T



Kirium Eco Max

Using 36 LEDs, suitable for mounting up to 10 metres. Kirium Eco Max is a compact and extremely efficient LED lantern for minor traffic conflict areas and town centres.

Luminaire lumen output: up to 17,000lm Suitable for replacing: 135W SOX, 150W SON-T



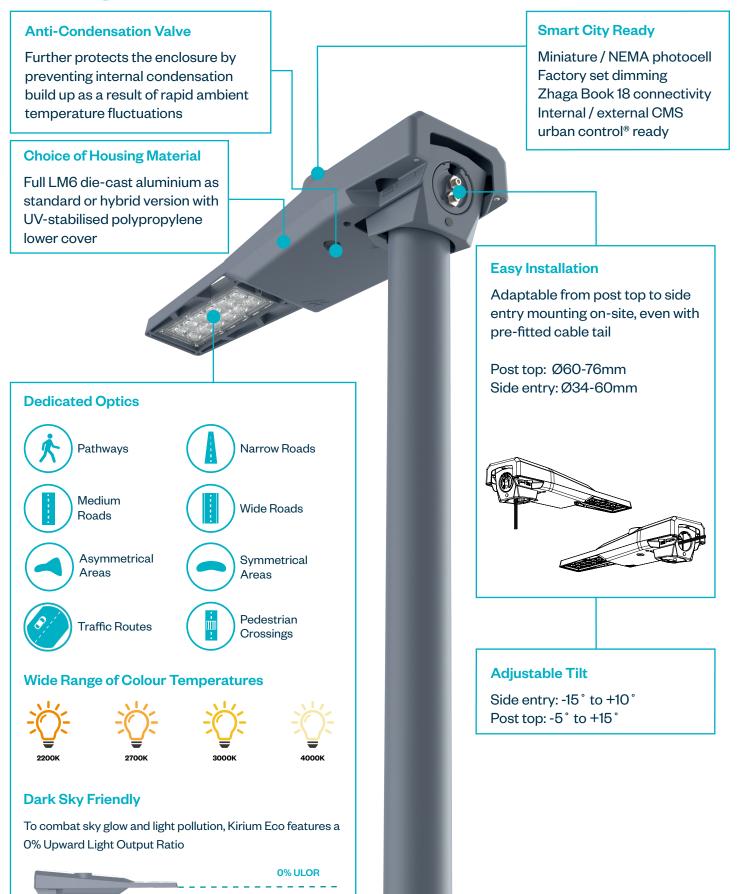
Kirium Eco Ultra

Using 48 LEDs, suitable for mounting up to 12 metres. Kirium Eco Ultra is recommended for major traffic conflict areas and car parks.

Luminaire lumen output: up to 22,500Im Suitable for replacing: 180W SOX, 250W SON-T



Design Features



100% DLOR

Controls & Connectivity

From simple photocells and factory-set dimming or switching regimes to full CMS connectivity, Kirium Eco can be enhanced through intelligent and connected sensors and control systems.

Benefits of Smart Control

- Reduced energy consumption and carbon footprint
- Longer luminaire life
- Lower capital, maintenance and energy costs
- Remote asset management and fault monitoring



Ordering Details

Specification	Code	Example				
Model						
rium Eco Mini KEM						
Kirium Eco Midi	KEMD	KEMD				
Kirium Eco Max	KEMX					
Kirium Eco Ultra	KEMU	_				
Housing Material						
Full die-cast aluminium (upper and lower - availble in Mini / Midi / Max / Ultra)	AL					
Hybrid (die cast aluminium upper housing housing with polypropylene lower cover - available in Mini / Midi)	PP					
Colour Temperature		1				
2,200K	22	-				
2,700K	27	30				
3,000K	30					
ł,000K	40					
Distribution	1					
Narrow Road - Type 1	NR1					
Narrow Road - Type 2 (also suitable for pathways)	NR2					
Nedium Road - Type 1	MR1					
Vedium Road - Type 2	MR2	-				
Vide Road - Type 1	WR1	NR2				
Vide Road - Type 2	WR2	4				
Fraffic Routes	TR	4				
Asymmetric Area	AA	4				
Symmetric Area	SA	-				
Pedestrian Crossing	PX					
Drive current		1				
Drive currents from 250mA to 1,050mA are available in 50mA increments nsert drive current value in 4-digit format (eg 250mA = 0250)	0550 / 0600 / 0650 / 0700 / 0750 / 0800 / 0850 / 0900 / 0950 / 1000 / 1050	0750				
Electrical class						
Class I (default)						
Diass II		- 1				
Product colours						
RAL 7046 Mid Grey	CF					
RAL 7035 Light Grey	29	CF				
RAL 9005 Black	10					
Pre-Programmed Dimming (optional)						
Pre-programmed dimming profile (please specify on order)	DIM [Specify]	-				
ntegrated Control (optional)		1				
	U20					
		-				
Miniature Photocell 35 lux (1:0.5)	U35	-				
Viniature Photocell 35 lux (1:0.5) Viniature Photocell 70 lux (1:0.5)	U70	- U35				
Miniature Photocell 35 lux (1:0.5) Miniature Photocell 70 lux (1:0.5) ntegral CMS - Urban Control (with puck antenna)	U70 IUC	- U35				
Viniature Photocell 35 lux (1:0.5) Viniature Photocell 70 lux (1:0.5) ntegral CMS - Urban Control (with puck antenna) ntegral CMS - Telensa (with monopole antenna)	U70 IUC ITE	U35				
Aliniature Photocell 35 lux (1:0.5) Aliniature Photocell 70 lux (1:0.5) Integral CMS - Urban Control (with puck antenna) Integral CMS - Telensa (with monopole antenna) Integral CMS - Mayflower (with stub antenna)	U70 IUC	- U35				
Viiniature Photocell 35 lux (1:0.5) Viiniature Photocell 70 lux (1:0.5) ntegral CMS - Urban Control (with puck antenna) ntegral CMS - Telensa (with monopole antenna) ntegral CMS - Mayflower (with stub antenna) External Connectivity - Top (optional)	U70 IUC ITE IMA	- U35 -				
Miniature Photocell 35 lux (1:0.5) Miniature Photocell 70 lux (1:0.5) ntegral CMS - Urban Control (with puck antenna) ntegral CMS - Telensa (with monopole antenna) ntegral CMS - Mayflower (with stub antenna) External Connectivity - Top (optional) B pin NEMA socket	U70 IUC ITE IMA E	- U35 				
Miniature Photocell 35 lux (1:0.5) Miniature Photocell 70 lux (1:0.5) ntegral CMS - Urban Control (with puck antenna) ntegral CMS - Telensa (with monopole antenna) ntegral CMS - Mayflower (with stub antenna) External Connectivity - Top (optional) 3 pin NEMA socket 5 pin NEMA socket	U70 IUC ITE IMA E C3	- U35 				
Miniature Photocell 35 lux (1:0.5) Miniature Photocell 70 lux (1:0.5) Integral CMS - Urban Control (with puck antenna) Integral CMS - Telensa (with monopole antenna) Integral CMS - Mayflower (with stub antenna) External Connectivity - Top (optional) 3 pin NEMA socket 5 pin NEMA socket 7 pin NEMA socket	U70 IUC ITE IMA E C3 D2	- U35 				
Miniature Photocell 20 lux (1:1) Miniature Photocell 35 lux (1:0.5) Miniature Photocell 70 lux (1:0.5) Integral CMS - Urban Control (with puck antenna) Integral CMS - Telensa (with monopole antenna) Integral CMS - Mayflower (with stub antenna) External Connectivity - Top (optional) 3 pin NEMA socket 5 pin NEMA socket 7 pin NEMA socket 4 pin Zhaga Book 18 socket	U70 IUC ITE IMA E C3	- U35 				
Miniature Photocell 35 lux (1:0.5) Miniature Photocell 70 lux (1:0.5) Integral CMS - Urban Control (with puck antenna) Integral CMS - Telensa (with monopole antenna) Integral CMS - Mayflower (with stub antenna) External Connectivity - Top (optional) 3 pin NEMA socket 5 pin NEMA socket 7 pin NEMA socket	U70 IUC ITE IMA E C3 D2	- U35 				

Example code = KEMD AL 30 NR2 0750 I CF U35









Kirium Eco

IP66 | IK08 | CLASS | or II

Features & Benefits

Our most competitive range of LED luminaires to date

Low total cost of ownership

Extensive optical solutions for roads, footpaths and zebra crossings

Integrated anti-condensation valve to prevent moisture build up inside the housing and protect the IP66 rating

Adaptable mounting block allows on-site switching from side entry to post top, with cable fitted

Quick and easy tilt adjustment

End of life recyclability through WEEE compliance scheme (Lumicom)

Lumen Outputs

Kirium Eco Mini (12 LED): up to 5,800lm (for mounting up to 6m) Kirium Eco Midi (24 LED): up to 11,600lm (for mounting up to 8m) Kirium Eco Max (36 LED): up to 17,000lm (for mounting up to 10m) Kirium Eco Ultra (48 LED): up to 22,500lm (for mounting up to 12m)

Optical Control

Narrow Road (Type1/Type2)
Medium Road (Type 1/ Type 2)
Wide Road (Type 1 / Type 2)
Traffic Routes
Area (Symmetric / Asymmetric)
Pedestrian Crossing
Optional obtrusive light shield(s) are available and can be fitted after

installation without opening the luminaire

Colour Temperatures

2,200K/2,700K/3,000K/4,000K

Colour Rendering Index

70Ra (80Ra on request)

Light Source

High Power LED

Lifetime

100,000 hours L90

Luminaire Efficacy

Up to 185lm/W

Driver

Fully programmable from 250mA to 1050mA (in 50mA increments)

Sensor-ready

CLO: Constant Light Output enabled - for energy savings and dependable light throughout the lifetime of the luminaire

Control & Connectivity Options

On/off through a conventional minature or NEMA photocell

Factory set pre-programmed dimming profiles

Zhaga Book 18 compliant interface for connecting a wide array of sensors or wireless communication modules

Compatible with all available central management systems (CMS)

urbancontrol® ready with an internal or external CMS node soltution -

allows for full asset management through the urbanmaster® platform

Mounting

Adaptable mounting block allowing for side entry or post top switching on-site Post Top [Ø60-76mm] [Inclination: -5° 0° +5° +10° +15°] Side Entry [Ø34-60mm] [Inclination: -15° -10° -5° 0° +5° +10°]

Installation & Maintenance

Available with various cable tail options prefitted

Short form UMSUG codes available on the website

Operational temperature range: -20°C to +25°C (please contact us for lifetime information at higher ambient temperatures)

Surge protection: Up to 10kV

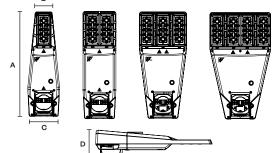
Materials

Body (Standard): Full LM6 die-cast aluminium alloy	
Body (Hybrid): LM6 die-cast aluminium alloy upper housing with a stabilised polypropylene lower cover	ι UV-
Lenses: PMMA (polycarbonate on request)	
Seals: Silicone	
Finish: Polyester powder coat	

Product Colours

RAL 7046 Mid Grey / RAL 7035 Light Grey / RAL 9005 Black

Other RAL colours on request



Model	Din	Dimensions (mm)			Weight (kg)		Windage	CxS
model	Α	В	С	D	Standard	Hybrid	(m²)	(m²)
Kirium Eco Mini	588	97	180	135	4.3	3.8	0.039	0.028
Kirium Eco Midi	588	180	180	135	4.6	4.1	0.039	0.025
Kirium Eco Max	588	261	180	139	6.0	-	0.041	0.032
Kirium Eco Ultra	588	336	180	139	7.3	-	0.041	0.026

Kirium[®] Eco is a registered design

Due to continuous product development the details within this brochure are subject to change at any time. Please contact us for the most up-to-date information or visit: www.dwwindsor.com

DW Windsor

Pindar Road, Hoddesdon, Hertfordshire, EN11 ODX T: +44 (0) 1992 474600 | E: info@dwwindsor.com dwwindsor.com







