



# **Refined performance**



# **Designed to perform, built to last**

Offering exceptional performance, easy maintenance and a low total cost of ownership, Kirium Pro S is a high quality lighting solution optimised for road lighting applications.

Developed to support operators as they work to lower energy consumption and cut carbon emissions, Kirium Pro S is highly efficient and built to last, helping to lower running costs and deliver a quick return on investment and substantial longterm savings.

### **Key advantages**

- Highly efficient solution delivering up to 208lm/W to support substantial long-term savings
- Extremely reliable luminaire with an outstanding service life of over 100,000 hours
- Multiple LED configurations and flexible drive currents for tailored performance
- A wide range of Diamond+® light distributions, optimised for road lighting applications
- Easy to install using Universal Entry, for quick switching from direct post to side entry on-site
- Hassle-free maintenance thanks to flat glass glazing and toolless entry
- Futureproofed design using industry-standard platforms and a range of connectivity options
- Zhaga D4i compliant luminaire able to
   accommodate compatible control devices







# DarkSky® Approved

DarkSky is a globally recognised authority on light pollution, offering third-party certification through its DarkSky Approved program for lighting products that don't pollute the night sky.

The DarkSky Approved seal shows that Kirium Pro S has passed certification by the DarkSky technical lighting team and has demonstrated that it does not cause light pollution.



# Flexible lighting for a changing world

Designed to offer comfort and safety without overlighting, Kirium Pro S is a highly efficient lighting solution offering tailored performance thanks to a wide range of precision optics and drive current settings. In addition, multiple LED packages are available across three luminaire sizes which feature a uniform design, providing a consistent appearance across schemes.







## **Kirium Pro S Mini**

<b>Lumen Range</b> 1,210 – 3,945 lm	
Power Range 7 – 28 W	
LED Quantity 8	
<b>Mounting Height</b> 4 - 6 m	
Typical Applications Footpaths / Cycleways / Residential	

## **Kirium Pro S1**

<b>Lumen Range</b> 2,350 – 14,175 lm	
Power Range 12 – 96 W	
LED Quantity 16 / 24 / 32	
Mounting Height 6 - 8 m	
Typical Applications Residential / Railway Platforms	

## Kirium Pro S2

Lumen Range 4,350 - 32,150 lm Power Range 23 - 187 W LED Quantity

32 / 48 / 64 / 80 Mounting Height

8 - 12 m

Typical Applications Car Parks / Roads / Pedestrian Crossings / Motorways



## Minimal energy use

Kirium Pro S has been optimised for low energy usage over it's 100,000+ hour life, ensuring a low total cost of ownership. Lighting controls can further minimise consumption, helping to increase long term savings.



# **Targeted illumination**

By offering a choice of precise optics, Kirium Pro S can produce widely different distributions to ensure light is placed just where it's needed, helping to protect local wildlife and the surrounding environment.



# A lightweight solution

Kirium Pro S has been engineered to use the minimum amount of raw materials possible to reduce its overall weight, helping to lower transportation emissions and reduce its overall carbon footprint.



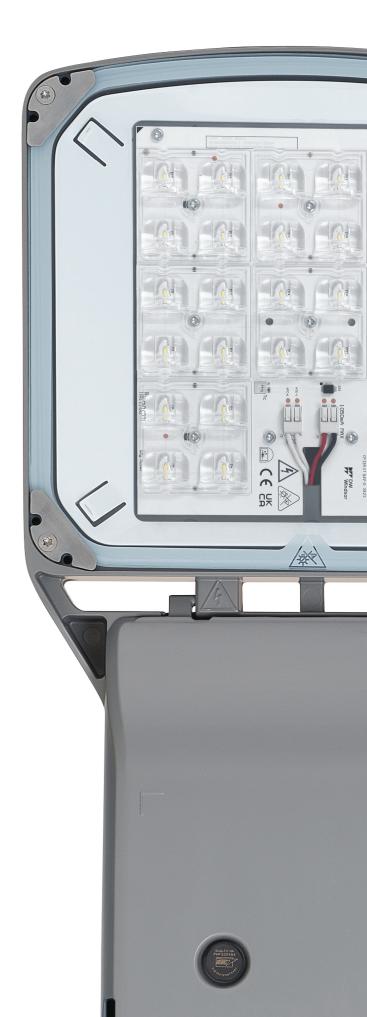
# **Circular by design**

Designed with circularity in mind, Kirium Pro S is constructed using durable materials for increased longevity, while mechanical fixings and replaceable components reduce waste and maximise service life.



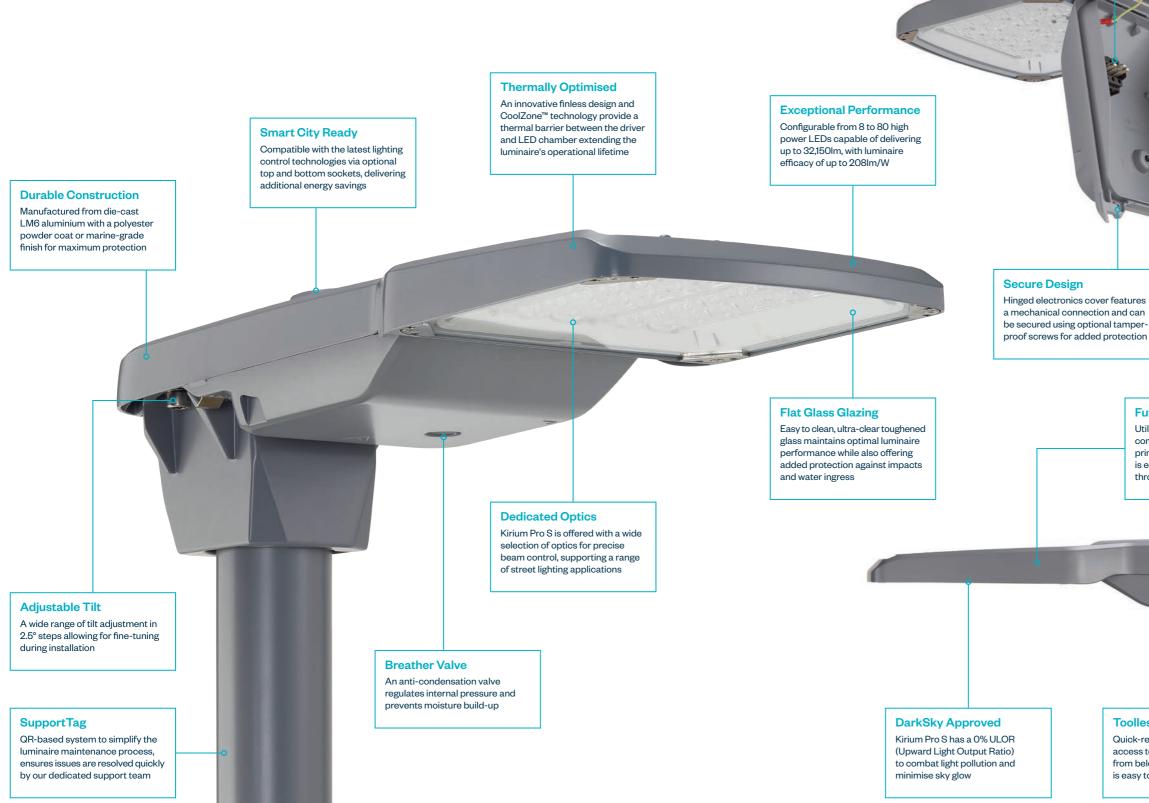
## Easy to maintain

Control gear is easy to access from below without the need for tools using quick-release spring clips, while the optional electrical auto-disconnect feature ensures maintenance can be conducted safely.



# **Design features**

Kirium Pro S is a feature-packed, professional lighting solution designed to support a range of applications now, and in the future.



Auto-Disconnect Option Automatically disconnects the power supply when the luminaire cover is opened, providing added safety during maintenance

### Easy Installation

Hassle-free installation thanks to Universal Entry. Quickly switch between direct post and side entry mountings on-site

#### **Futureproofed Solution**

Utilises Zhaga industry-standard components and circular economy principles to ensure the luminaire is easy to maintain and upgrade throughout its service life

#### **Toolless Entry**

Quick-release spring clips provide access to internal components from below, ensuring the luminaire is easy to install and maintain

# **Onsite flexibility**

We understand that the ability to make last minute changes and adjustments on-site is crucial for a successful installation programme. This is why we have developed Kirium Pro S to be our most versatile street light to date.

Kirium Pro S can be supplied pre-wired, making the optional Universal Entry a game changer in the ability to have on-site switching from side entry to direct post entry without the need to disconnect the flex. Kirium Pro S also has quick and easy tilting functionality enabling delicate on-site adjustments to the luminaire.

# Take control of your lighting

Lighting controls help save energy, extend luminaire life and provide light only when it's needed, ensuring that areas are lit at the right times while also helping to protect our natural environment.

Kirium Pro S can be controlled in a variety of ways, from simple factory-set dimming to full CMS. In addition, Kirium Pro S can be specified with both NEMA and Zhaga sockets mounted in top and bottom locations, helping to future-proof the luminaire.

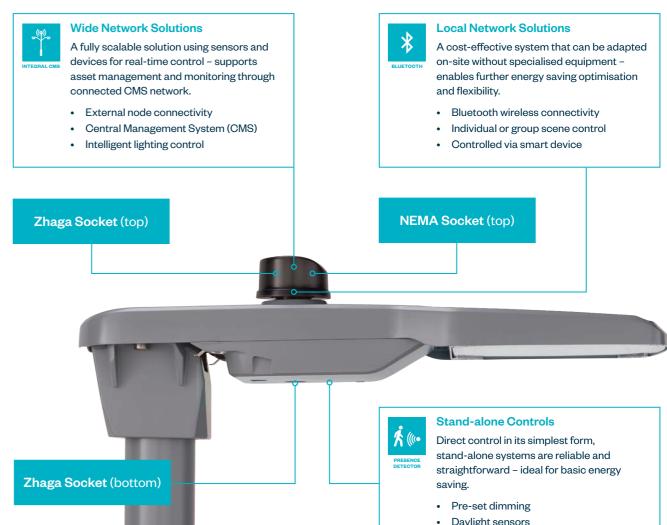
## **Universal entry**



**Direct post** Universal Entry allows Kirium Pro S to accept columns between 60mm to 76mm in diameter for direct post mountings.



Side entry Universal Entry allows Kirium Pro S to accept bracket arms between 34mm to 60mm in diameter for side entry mountings.



## Easy to install and maintain



Adjustable tilt Quickly adjust inclination angle in 2.5° step increments to ensure a level lighting plane regardless of ground elevation



**Toolless access** 

Quick-release spring clips provide easy access to control gear and wiring from below to simplify installation and maintenance



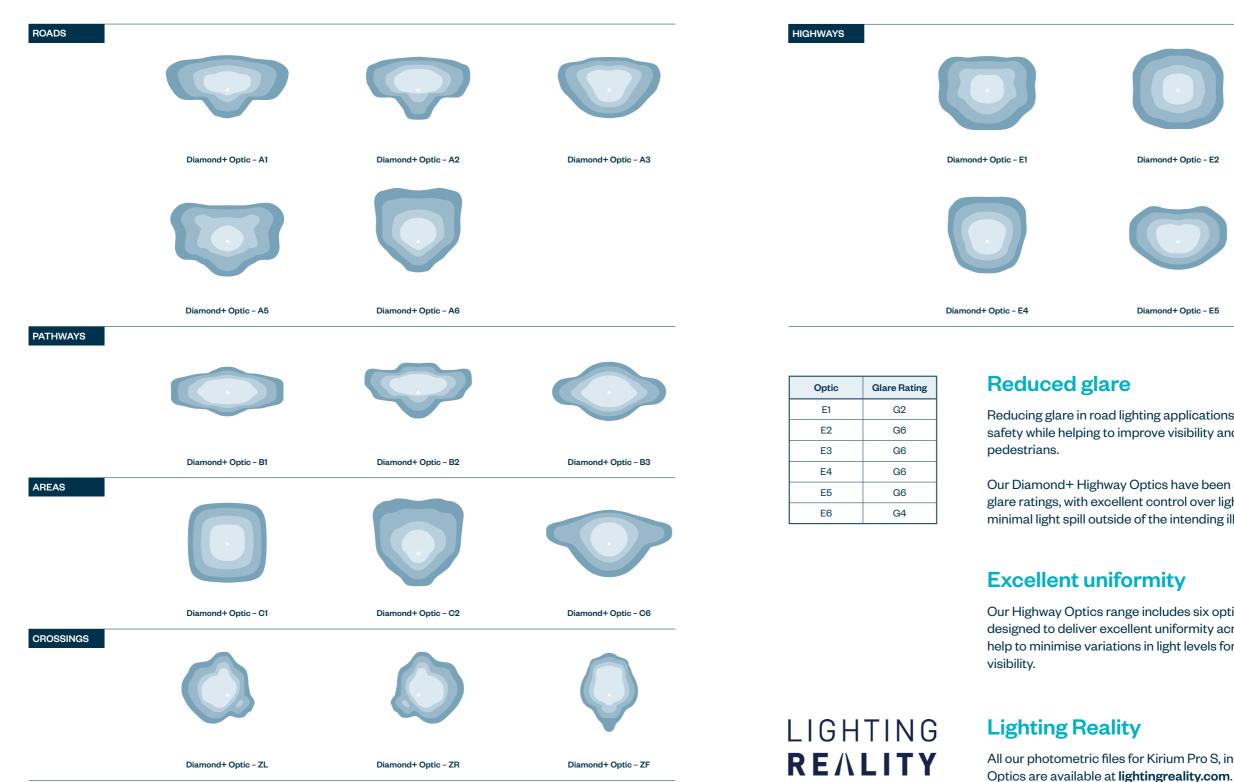
- · Daylight sensors
- Motion detectors

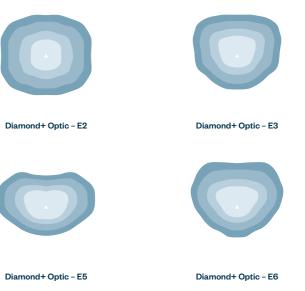
# **Diamond+ optics**

To ensure the most efficient lighting designs, Kirium Pro S is offered with our Diamond+ optics. Choose from 14 different distributions to ensure light is only placed where needed.

# **Highway lighting**

To deliver improved photometric performance for high M and C class lighting applications, Kirium Pro S2 80 LED can be specified with our Diamond+ E optics, optimised for highway lighting.



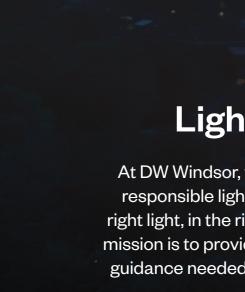


Reducing glare in road lighting applications is crucial for enhancing safety while helping to improve visibility and comfort for drivers and

Our Diamond+ Highway Optics have been optimised to offer high glare ratings, with excellent control over light distribution and minimal light spill outside of the intending illumination area.

Our Highway Optics range includes six optimised light distributions designed to deliver excellent uniformity across wide spacings and help to minimise variations in light levels for enhanced safety and

All our photometric files for Kirium Pro S, including our Diamond+ E



A47 Longthorpe 1800K scheme National Highways / Mott MacDonald

# Light Responsibly®

At DW Windsor, we're committed to supporting responsible lighting practices by delivering the right light, in the right place, at the right time. Our mission is to provide specifiers with the tools and guidance needed to eliminate light pollution and help protect biodiversity.

Learn more at dwwindsor.com/light-responsibly

### Kirium Pro S lumen packages and wattages matrix

Model	No LE		250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
Kirium Pro S Mini	8	lm	1,211	1,431	1,644	1,851	2,051	2,245	2,432	2,612	2,786	2,953	3,114	3,269	3,417	3,558	3,694	3,823	3,945
Kindin Pro S Mini	°	w	7	8	9	10	12	13	14	16	17	18	20	21	22	24	25	27	28
	16	lm	2,352	2,780	3,194	3,596	3,984	4,360	4,724	5,074	5,412	5,737	6,049	6,349	6,637	6,912	7,175	7,425	7,663
Kini wa Davi Ol	10	w	12	15	17	19	22	24	26	29	31	34	36	39	41	44	47	49	52
Kirium Pro S1		lm	3,370	3,983	4,577	5,152	5,710	6,248	6,769	7,271	7,755	8,221	8,668	9,098	9,510	9,904	10,281	10,640	10,981
	24	w	17	20	24	27	30	34	37	41	44	48	51	55	58	62	66	69	73
Kirium Pro S1		lm	4,350	5,141	5,908	6,651	7,370	8,066	8,737	9,385	10,010	10,612	11,190	11,745	12,276	12,785	13,271	13,735	14,175
Kirium Pro S2	32	w	23	27	31	36	40	44	49	53	58	63	67	72	77	81	86	91	96
	40	lm	6,673	7,886	9,062	10,201	11,304	12,371	13,401	14,395	15,353	16,272	17,162	18,013	18,829	19,610	20,355	21,065	21,741
	48	w	36	43	50	57	64	71	78	85	92	99	107	114	122	129	137	145	153
		lm	8,341	9,857	11,327	12,751	14,130	15,463	16,751	17,994	19,191	20,344	21,453	22,517	23,536	24,512	25,443	26,332	27,176
Kirium Pro S2	64	w	44	52	61	69	78	86	95	104	113	122	131	140	149	159	168	177	187
		lm	10,839	12,880	14,874	16,820	18,717	20,567	22,368	24,121	25,825	27,480	29,085	30,642	32,148	-	-	-	-
	80	w	52	62	72	83	94	104	115	127	138	149	161	172	184	-	-	-	-

Lumen data based on 4000K with A2/E4 optic and no Light Output Reduction (LOR) factor applied. Data provided as indication of performance. Please refer to photometric files for individual optic results.

### Luminaire dimensions

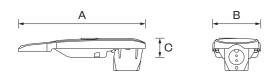
	D	imensi	ons (mr	n)	Weight	Windage	
	Α	в	с	D	(kg)	(m²)	
Kirium Pro S Mini	532	200	80	378	4.8	0.039	
Kirium Pro S1	632	246	80	432	5.5	0.053	
Kirium Pro S2	704	320	80	478	7.2	0.059	

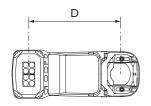
### **CCT details**

	Light Output Reduction Factor	S/P Ratio
4000K	1.00	1.5
3000K	0.93	1.4
2700K	0.86	1.3

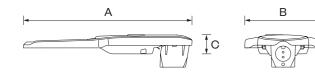
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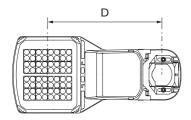
### Kirium Pro S Mini



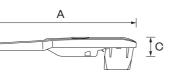


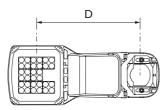
#### Kirium Pro S2





### Kirium Pro S1





#### **Product codes**

				Code	Exam
Family					
Kirium Pro S Mini	1/1: D 01			KPSM	
	Kirium Pro S1			KPS1	KPS1
		Kirium Pro S2		KPS2	
ight Engine					1
8 LED	-	-	-	8	-
-	16 LED	-	-	16	-
-	24 LED	-	-	24	-
-	32 LED	32 LED	-	32	24
-	-	48 LED	-	48	
-	-	64 LED	-	64	
-	-	-	80 LED	80	
lousing					
Full die-cast aluminium				A	A
Die-cast aluminium with polycar	rbonate lower cover			н	<u> </u>
Mounting					
Universal entry preset for direct	post			Α	A
Universal entry preset for side e	ntry			В	<b>^</b>
Colour Temperature					
2700K	2700K	2700K	-	27	
3000K	3000K	3000K	3000К	30	30
4000K	4000K	4000K	4000K	40	
Drive Current				1	
Drive currents from 250mA to 10 Insert drive current value (eg 750 <u>Note</u> : Kirium Pro S2 80 LED = 85		rements		250 / 300 / 350 400 / 450 / 500 550 / 600 / 650 700 / 750 / 800 850 / 900 / 950 1000 / 1050	700
ight Distribution					
Roads - Diamond+ A Optic	Roads - Diamond+ A Optic	Roads - Diamond+ A Optic	-	A1/A2/A3/A5/A6	
Pathways - Diamond+ B Optic	Pathways - Diamond+ B Optic	Pathways - Diamond+ B Optic	-	B1/B2/B3	1
Areas - Diamond+ C Optic	Areas - Diamond+ C Optic	Areas - Diamond+ C Optic	-	C1/C2/C6	A1
Crossings - Diamond+ Z Optic	Crossings - Diamond+ Z Optic	Crossings - Diamond+ Z Optic	-	ZL/ZR/ZF	1
-	-	-	Highways - Diamond+ E Optic	E1/E2/E3/E4/E5/E6	-
Colour Finish					
RAL 7046 Mid grey				CF	1
RAL 7035 Light grey				29	-
RAL 9005 Black				10	CF
Other RAL colour [on request]				RAL [specify]	-
Paint Finish					
Polyester powder coat				PP MG	PP
Marine-grade coating				ING	
Connectivity & Control					
No connectivity or control				N	-
Miniature photocell 20 lux (1:1)		and the state of 1		U20	-
	op] with 4-pin Zhaga Book 18 soc	Ket [bottom]		U20Z	-
Miniature photocell 35 lux (1:0.5)				U35	-
-	[top] with 4-pin Zhaga Book 18 so	ocket [bottom]		U35Z	
6-pin NEMA socket				B1	U20
7-pin NEMA socket				D2	-
7-pin NEMA socket [top] with 4-	pin Zhaga Book 18 socket [botton	n]		D2Z	_
4-pin Zhaga Book 18 socket [top	b]			Z4	
4-pin Zhaga Book 18 socket [bot	ttom]			Z4A	
4-pin Zhaga Book 18 socket [top	and bottom]			Z4B	
(nife Switch (optional)					
Knife switch (electrical disconne	ection block)			KS	-
amper-Proof Screws (optional	)				
Tamper-proof screws on toolles				ТР	-
Emergency (optional)					
3-hour emergency version				EM	-
			Example Code: KP	s1 24 A A 30 700 A1 (	OF PP

Code

Example

	Kirium Pro S1				1
				KPS1	KPS1
		Kirium Pro S2		KPS2	
ight Engine					
8 LED	-	-	-	8	
-	16 LED	-	-	16	
-	24 LED	-	-	24	
-	32 LED	32 LED	-	32	24
-	-	48 LED	-	48	-
-	-	64 LED	-	64	
-	-	-	80 LED	80	-
lousing					
Full die-cast aluminium				Α	
	arbanata lawar aavar			н	Α
Die-cast aluminium with polyc	arbonate lower cover			п	
Nounting					
Universal entry preset for dire				A	A
Universal entry preset for side	entry			В	
Colour Temperature					
2700K	2700K	2700K	-	27	
3000K	3000K	3000K	3000К	30	30
4000K	4000K	4000K	4000K	40	
Drive Current					
Drive currents from 250mA to Insert drive current value (eg 7 <u>Note</u> : Kirium Pro S2 80 LED =		rements		250 / 300 / 350 400 / 450 / 500 550 / 600 / 650 700 / 750 / 800 850 / 900 / 950 1000 / 1050	700
ight Distribution					
Roads - Diamond+ A Optic	Roads - Diamond+ A Optic	Roads - Diamond+ A Optic	-	A1/A2/A3/A5/A6	A1
Pathways – Diamond+ B Optic	Pathways - Diamond+ B Optic	Pathways - Diamond+ B Optic	-	B1/B2/B3	
Areas - Diamond+ C Optic	Areas - Diamond+ C Optic	Areas - Diamond+ C Optic	-	C1/C2/C6	
Crossings – Diamond+ Z Opti	c Crossings - Diamond+ Z Optic	Crossings - Diamond+ Z Optic	-	ZL/ZR/ZF	-
-	-	-	Highways - Diamond+ E Optic	E1/E2/E3/E4/E5/E6	-
Colour Finish			Inginayo bianona zopio		
				CF	
DAL 7046 Mid grou					-
RAL 7035 Light grey				29	CF
RAL 7035 Light grey RAL 9005 Black				10	CF
RAL 7035 Light grey RAL 9005 Black Other RAL colour [on request]	1				CF
RAL 7035 Light grey RAL 9005 Black Other RAL colour [on request]	1			10	CF
RAL 7035 Light grey RAL 9005 Black Other RAL colour [on request] <b>raint Finish</b>	1			10	
RAL 7035 Light grey RAL 9005 Black Other RAL colour [on request] <b>aint Finish</b> Polyester powder coat				10 RAL [specify]	- CF - PP
RAL 7035 Light grey RAL 9005 Black Other RAL colour [on request] Paint Finish Polyester powder coat Marine-grade coating				10 RAL [specify] PP	
RAL 7046 Mid grey RAL 7035 Light grey RAL 9005 Black Other RAL colour [on request] Paint Finish Polyester powder coat Marine-grade coating Connectivity & Control No connectivity or control				10 RAL [specify] PP	
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RAL 7035 Light grey RAL 9005 Black Other RAL colour [on request] <b>Paint Finish</b> Polyester powder coat Marine-grade coating <b>Connectivity &amp; Control</b> No connectivity or control Miniature photocell 20 lux (1:1)		ket [bottom]		10 RAL [specify] PP MG N	
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### **Key Features**

Highly efficient luminaire available in three sizes and multiple LED configurations to support a wide range of road lighting applications

Offered with our full range of Diamond+ Optics to ensure light is placed only where its needed for improved comfort and safety

Quick to install using Universal Entry which allows for easy switching between direct post and side entry on-site, with cable fitted

Easy and safe to maintain thanks to flat glass glazing and toolless entry via hinged cover plus electrical auto-disconnect option

Futureproofed design using standardised components and a range of connectivity options in top and bottom locations

Zhaga D4i compliant luminaire able to accommodate compatible control devices

#### Options

Kirium Pro S Mini: (8 LEDs) for mounting at 4-6 metres	
Kirium Pro S1: (16 - 32 LEDs) for mounting at 6-8 metres	
Kirium Pro S2: (32 - 80 LEDs) for mounting at 8-12 metres	

#### **Optical Control**

Diamond+ A Optic: Roads (A1 / A2 / A3 / A5 / A6)
Diamond+BOptic: Pathways (B1 / B2 / B3)
Diamond+C Optic: Areas (C1 / C2 / C6)
Diamond+Z Optic: Crossings (ZL / ZR / ZF)
Diamond+ E Optic: Highways (E1 / E2 / E3 / E4 / E5 / E6)

### Lifetime

>100,000 hours L90 B10

#### **Total Luminaire Lumens**

Kirium Pro S Mini: 1,210 - 3,945 lm
Kirium Pro S1: 2,350 - 14,175 lm
Kirium Pro S2: 4,350 - 32,150 lm

#### **Colour Temperature**

2700K / 3000K / 4000K

#### **Colour Rendering Index**

70Ra

#### **Luminaire Efficacy**

Up to 208lm/W





## DW Windsor is part of the Luceco Group

#### **Drive Current**

250mA - 1050mA (in 50mA increments)

#### Mounting

Universal Entry (direct post): Ø60 - 76mm					
Universal Entry (side entry): Ø34 - 60mm					
Inclination (direct post): -10° -to +15° in 2.5° increments					
Inclination (side entry): -15° -to +10° in 2.5° increments					

### Control

<b>CLO:</b> Constant Light Output enabled - for energy savings and dependable light throughout the lifetime of the luminaire
Switch: On/off through conventional miniature or NEMA photocell
Dim: Factory set pre-programmed dimming profiles
CMS: Compatible with all available CMS systems
Smart City Ready: Supports Smart City equipment and Zhaga compliant connectors
Colours

#### Colours

RAL 9005 Black (smooth finish) RAL 7046 Mid grey (smooth finish) RAL 7035 Light grey (smooth finish) (Other RAL colours available on request)

#### **Materials**

 Body:
 High-pressure die-cast aluminium (LM6)

 Glazing:
 Toughened glass

 Seals:
 Silicone

 Finish:
 Polyester powder coat / Marine-grade coating

#### Accessories

Optional obtrusive light shield(s) available and can be fitted after installation without opening the luminaire

#### Installation & Maintenance

Available with various cable tail options prefitted

Includes SupportTag® for easy luminaire maintenance

Operational temperature range: -40°C to +40°C

Surge protection: 10kV

\* Class II on request

#### DW Windsor

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#### DW Windsor is a Carbon Neutral company

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Due to continuous product development the details within this document are subject to change at any time. For the more up-to-date information please visit dwwindsor.com.

