





Think all street lights are made equal?

think again

Our most comprehensive range of LED street lighting yet. Need performance? Minimal whole life cost? Precise lighting control? Think Kirium Pro. Available in five sizes and with 23 standard optical solutions, it's the most innovative, forward-thinking, and future-proof product we've ever developed.



Key advantages:

- 5 sizes for true flexibility
- 23 optical solutions to suit any project requirement
- · With Diamond+ optic technology for the ultimate in precise lighting control
- · Exceptional thermal management for optimised performance and product life
- · Impressive energy efficiency delivering a minimal whole life cost solution
- · Flexible drive current for tailored performance and accurate lighting levels
- · Choice of control options for even greater energy
- Tool-free access via quick-release latches mean easy installation and maintenance
- · Safety first; with automatic electrical disconnect
- 2700K/3000K/3500K/4000K
- ENEC approved
- · Suitable for international markets with operating temperature range -45°C to +50°C





Design features Surge protection device Maximises the lifetime value and prevents down-time due to storms, lightning strikes etc.

Lift-off head*



Cooling fins

To dissipate heat and extend LED lifetime

Cool Zone™ exceptional thermal management

Air void and thermal barrier that assists in delivering a long lifetime

Hinged opening



Automatic electrical disconnection* Safety feature; cuts power to the luminaire when opened **Tool-less entry** Quick-release latches for speedy

installation and maintenance.

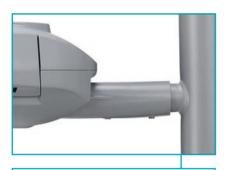
CLO: Constant Light Output

Fully programmable



Safety tether

Supplied with an integral dampening safety tether, and an external fail-safe device as standard (Kirium Pro 3 only)



Flexible mounting

Direct post [Ø60mm / Ø60-76mm] Side entry [Ø34-42mm / Ø60mm] Direct post/side entry inclination:



Optical control

Featuring Diamond+

23 standard optical distributions for ultimate flexibility and precise lighting control.

An evolution of our award-winning and patented Diamond Optic® reflector technology, Diamond+ gives you the ability to create widely different lighting distributions from a single luminaire.

Choose Diamond+ for refined lighting distribution

Diamond+ A Optic



Options: A1, A2, A3, A4, A5 Typical applications: Wide roads and dual

carriageways (M classes)

Diamond+ C Optic



Options: C1, C2, C3, C4, C5 Typical applications: Area applications

Diamond+ D Optic

B1, B2, B3, B4, B5

Typical applications:

Narrow roads and footpaths

Diamond+ B Optic



Options:

Options: D1, D2, D3, D4, D5 Typical applications: Standard roads and wide footpaths

Diamond+ Z Optic



Options: ZL, ZR or ZF Typical applications: Zebra and pedestrian crossings



Control options

From simple factory-set dimming to full CMS: enhance your luminaire through intelligent, connected sensors and control systems.

Benefits of smart control

- Reduced energy consumption
- Reduced carbon footprint
- · Longer luminaire life
- · Lower capital, maintenance and energy costs
- · Ability to collect data



Installation and maintenance



Tool-less quick-release latches for speedy access



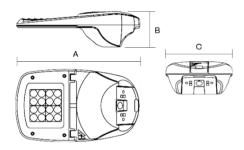
Hinged opening



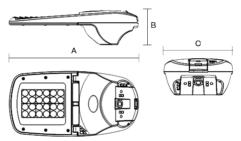
Lift-off head, with automatic electrical disconnect (available on Kirium Pro 1, 2 and 3 only)

Dimensions

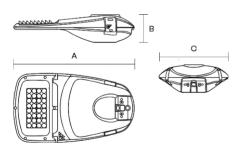
Kirium Pro Mini



Kirium Pro Midi

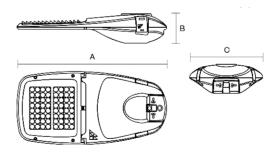


Kirium Pro 1

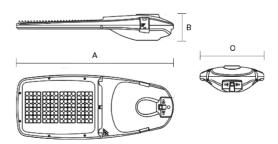


	Dime	nsions	(mm)	Weight	Windage		
	Α	В	С	(kg)	(m²)		
Kirium Pro Mini	390	110	227	3.6	0.032 (CxS = 0.021)		
Kirium Pro Midi	451	119	227	5.0	0.034 (CxS = 0.026)		
Kirium Pro 1	610	140	350	7.1	0.054 (CxS = 0.029)		
Kirium Pro 2	720	140	350	9.5	0.059 (CxS = 0.034)		
Kirium Pro 3	1010	167	415	17.5	0.094 (CxS = 0.056)		

Kirium Pro 2



Kirium Pro 3





Unequalled flexibility. Unequalled choice

Product

Kirium Pro Mini

(16 LED)

2,710lm @ 17W



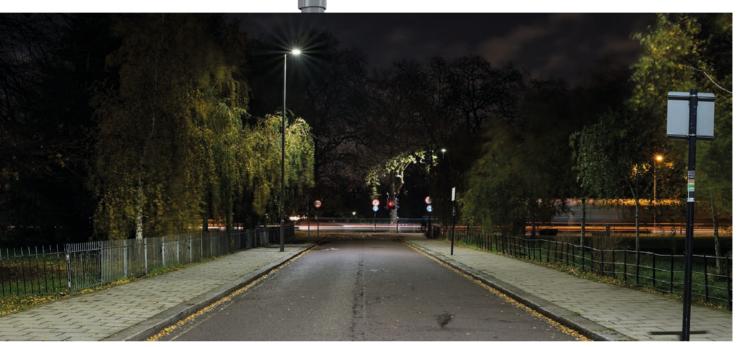
Replaces

70W SON-T

80% energy saving

Typical applications

Footpaths / cycleways / residential



Product

Kirium Pro Midi

(24 LED)

5,485lm @ 33W

Replaces

100W SON-T

73% energy saving

Typical applications

Footpaths / cycleways / residential



Product

Kirium Pro 1

(32 LED)

5,185lm @ 31W



Typical applications

100W SON-T



Road / car parks / rail





Product

Kirium Pro 2

(64 LED)

8,905lm @ 50W

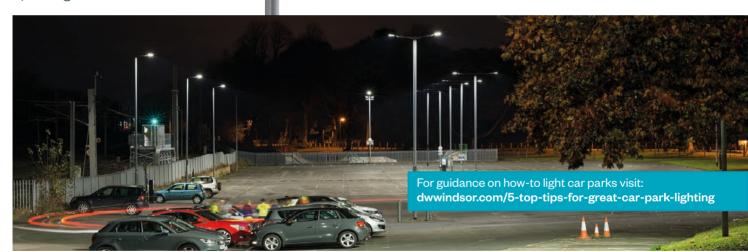
Replaces

Typical applications

150W SON-T

Road / car parks / rail





Product

Kirium Pro 3

(128 LED)

19,462lm @ 148W

Replaces

Typical applications

250W SON-T

Road / motorways



61% energy saving



Technical specification

Product lumen packages and wattages matrix

The table below provides base lumen packages for the new Kirium Pro range. Calculations based on 4000K with no LOR applied. Due to continuous development of LEDs the figures within this table are subject to change at any time.

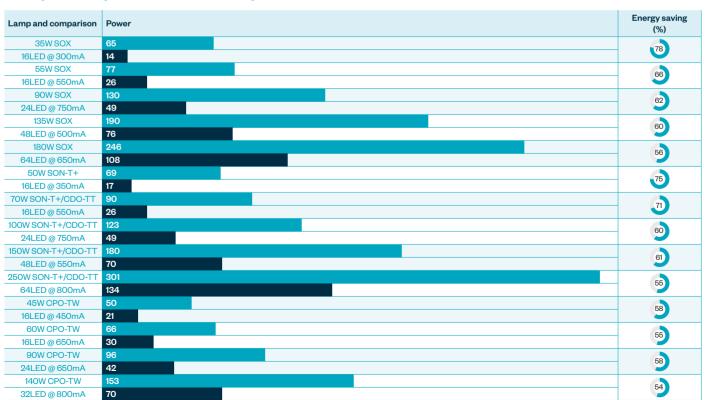
Model	Num	ber	Drive o	current ((mA)														
wodei	of LE	EDs	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
Kining Day Mini	4	lm	385	484	578	669	759	844	930	1012	1095	1172	1249	1323	1399	1470	1540	1606	1674
Kirium Pro Mini	4	W	3	4	5	5	6	7	7	8	9	9	10	11	11	12	13	14	15
Kirium Pro Mini	ni 8	lm	770	967	1156	1337	1517	1687	1858	2024	2189	2343	2497	2648	2798	2939	3080	3214	3348
Kirium Pro 1	0	W	6	7	8	9	10	11	12	14	15	16	18	19	20	22	23	25	26
Kirium Pro Mini	16	lm	1516	1890	2263	2616	2969	3303	3637	3961	4285	4586	4887	5128	5477	5753	6028*	6291*	6554*
Kirium Pro 1	10	W	10	12	14	17	19	21	23	26	28	30	33	35	37	40	42*	45*	47*
Kirium Pro Midi	24	lm	2314	2885	3455	3993	4531	5024	5217	5985	6475	6896	7338	7750	8160	8757	8944	9294	9642
Kirium Pro 1	24	W	14	17	20	23	27	30	33	36	39	42	46	49	53	56	60	63	67
Kirium Pro 1	32	lm	2901	3615	4330	5005	5680	6320	6958	7578	8198	8775	9351	9915	10480	11008	11535	12037	12540
Kirium Pro 2	32	W	19	23	27	31	35	39	43	48	52	56	61	65	70	75	79	84	89
Kirium Pro 2	48	lm	4382	5462	6541	7561	8581	9546	10511	11447	12383	13254	14125	14978	15830	16628	17424	18183	18942
Kiriuiii Pio 2	40	W	27	33	39	45	51	57	64	70	76	82	89	95	102	109	116	123	131
Kirium Pro 2	64	lm	5793	7218	8645	9995	11343	12618	13893	15125	16369	17521	18671	19798	20925	21978	23031	24035	25038
Kirium Pro 3	04	W	35	42	50	58	66	74	82	91	99	108	116	125	134	142	151	160	168
	80	lm	6977	8696	10414	12040	13664	15200	16735	18227	19719	21106	22493	23850	25208	26476	27744	28953	30162
	80	W	45	55	65	75	86	96	106	117	127	138	149	160	171	182	193	205	216
Kirium Pro 3	96	lm	8173	10186	12199	14102	16006	17806	19604	21351	23098	24724	26348	27938	29528	31015	32500	33916	35332
	90	W	53	65	77	89	101	113	126	139	151	164	177	190	203	216	229	242	255
	128	lm	17841	22235	26629	27766	28903	30138	31372	32712	34052	35506	36960	38539	40117	41181	42911	44554	46109
	126	W	70	85	101	116	132	148	164	181	197	214	231	248	265	282	300	317	335

^{*}only applies to Kirium Pro 1 (16LED)

Colour temperature

CCT	Light output reduction factor	S/P ratio
2700K	0.76	1.2
3000K	0.84	1.3
3500K	0.9	1.4
4000K	1.0	1.5

Comparable products for HID replacement schemes



Ordering details

You may find the following product codes helpful for ease of specification and ordering:

					Code	Exampl				
Model										
Kirium Pro Mini					KPM					
	Kirium Pro Midi				KPMD					
		Kirium Pro 1			KP1	KP2				
			Kirium Pro 2		KP2					
				Kirium Pro 3	KP3					
LED quantity										
4 LED					004					
8 LED		8 LED			008					
16 LED		16 LED			016					
	24 LED	24 LED			024					
		32 LED	32 LED		032					
			48 LED		048	048				
			64 LED	64 LED	064					
			OTELD	80 LED	080					
				96 LED	096					
				128 LED	128					
Mounting		D 0)								
	ntry (not available on Kiriu	m Pro 3)			S					
Ø76mm Direct post	D	D								
	/ Direct post adapter				1					
Colour temperatur	re									
2700K					27					
3000K		30	30							
3500K		35	30							
4000K		40								
Distribution										
Wide road - Diamor	nd+ A Optic (A1 / A2 / A3 /	'A4/A5)			A1/A2/A3/A4/A5	4/B5				
	d+ B Optic (B1 / B2 / B3 / B				B1/B2/B3/B4/B5					
	Optic (C1/C2/C3/C4/				C1/C2/C3/C4/C5					
Standard road - Dia	D1/D2/D3/D4/D5									
	ZL/ZR/ZF	_								
	g - Diamond+ Z Optic (ZL	/ ZR / ZF)			ZL/ZR/ZF					
Drive current										
					0200/0250/0300/					
					0350/0400/0450					
Drive currents from	n 200mA to 1000mA are a	vailable in 50mA increr	ments.		0500/0550/0600	0550				
Insert drive current	value in 4-digit format (eg	g250mA = 0250).			0650/0700/0750/	0550				
					0800/0850/0900					
					0950 / 1000					
Clazina										
Glazing					50					
Toughened glass	FG	FG								
	ium Pro Mini, Kirium Pro M	ıdı & Kirium Pro 1 only)			RA					
Product colours										
RAL 7046 Mid grey	CF									
RAL 7035 Light gre	29	29								
RAL 9005 Black					10					
Control										
No photocell					N					
Photocell 35 lux (1:0	U									
Part night switching	A4									
Photocell 35 lux (1:0	D8									
3 pin NEMA										
	E 02									
5 pin NEMA	C3	U								
7 pin NEMA	D2									
4 pin Zhaga socket					Z4					
					IUC					
	Integral CMS - Telensa									
					ITE					
	flower				IMA					

 $[\]hbox{\it ``Available as standard subject to further information being provided at time of order.}$

Kirium Pro



IP66 | IK10 | CLASS I | CLASS II

Key features

Our most comprehensive range of LED road lanterns, available in 5 sizes

Extensive optical solutions; introducing Diamond+ the ultimate in flexible, precise lighting control. 23 standard optical solutions available

Simple, speedy and safe installation and maintenance via tool-free, quick-release latches. Lift-off head and automatic electrical disconnect

Emergency option available (Kirium Pro 1, 2 and 3 only)

Environmentally tested to BS EN 60068-2-6 2008

New: Complementary bollard and wall luminaire available, visit www.dwwindsor.com/kirium-pro

Options

Kirium Pro Mini (4 / 8 / 16 LEDs) for mounting at 4-6 metres

Kirium Pro Midi (24 LEDs) for mounting at 4-8 metres

Kirium Pro 1 (8 / 16 / 24 / 32 LEDs) for mounting at 5-8 metres

Kirium Pro 2 (32 / 48 / 64 LEDs) for mounting at 6-10 metres

Kirium Pro 3 (64 / 80 / 96 / 128 LEDs) for mounting at 8-15 metres

Optical control

Wide road - Diamond+ A Optic (A1, A2, A3, A4, A5)

Footpath - Diamond+ B Optic (B1, B2, B3, B4, B5)

Area - Diamond+ C Optic (C1, C2, C3, C4, C5)

Standard road - Diamond+ D Optic (D1, D2, D3, D4, D5)

Pedestrian crossing - Diamond+ Z Optic (ZL, ZR, ZF)

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

L90 lifetime prediction

In excess of 100,000 hours

Total luminaire lumens

Kirium Pro Mini: 320-5734lm

Kirium Pro Midi: 2314-9642lm

Kirium Pro 1: 639-12284lm

Kirium Pro 2: 2372-24315lm

Kirium Pro 3: 4762-46109Im

Colour temperature

2700K

3000K

3500K

4000K

Colour rendering index

70Ra (4000K / 3500K / 3000K)

80Ra (3000K / 2700K)

Total measured luminaire efficacy

Up to 174lm/W

Drive current

200mA - 1000mA (in 50mA increments)

Mounting

Direct post [Ø60mm / Ø60-76mm]

Side entry [Ø34-42mm / Ø60mm]

Direct post/side entry inclination: -15° -10° -5° 0° +5° +10° +15°

Adaptors available for various spigot diameters

Control

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

Smart City ready: Able to support Smart City equipment and Zhaga compliant connectors

Switch: On/Off through conventional PEC, Miniature or NEMA

Dim: Factory set dimmed / customer specified dimming

CMS: Compatible with all available CMS systems

Product colours

RAL 9005 Black

RAL 7046 Mid grey

RAL 7035 Light grev

Other RAL colours on request

Materials

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

Glazing: Toughened glass / Polycarbonate for IK10

Seals: Silicone

Finish: Polyester powder coat

Installation and maintenance

Available with various cable tail options prefitted

Short form UMSUG codes available on the website

Operational temperature range: -45°C to +50°C

Surge protection: 10kV

Kirium® Pro 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

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