DW Windsor

Daytona

All-round performance.
All-round confidence.

All-round performance.
All-round confidence.

Daytona balances style, efficiency and practicality to deliver a luminaire capable of maximising performance while providing outstanding service life to support the circular economy.

With its replaceable light modules, advanced control options and superior light quality, Daytona allows you to specify a high performing, future-proofed product with complete confidence.

Key advantages

- Future-proofed lighting solution with replaceable light engines to facilitate future upgrades
- Outstanding service life (100,000 hrs L90 B10) to support the circular economy
- Toolless entry for easy luminaire maintenance, saving time and lowering costs
- 2700K, 3000K and 4000K CCT options for high performance, up to 178lm/W
- Tunable White technology improves visual comfort whilst minimising the impact to wildlife
- Supports a range of NEMA and Zhaga connectivity and control options via top and/or bottom sockets
- Dark Sky friendly with a 0% ULOR rating plus optional light shields for additional light management

Applications

| Urban roadways | Footpaths & cycle routes | Car parks | Housing developments |

Enhanced urban living

Daytona's modern design, precision optics, and advanced features make it ideally suited to various urban applications, including inner city roads, footpaths and public spaces.

For sensitive locations, to address light pollution concerns, Daytona has a 0% ULOR (Upward Light Output Ratio), preserving the integrity of the night sky. Furthermore, Tunable White technology and warmer colour temperatures are available to minimise the effects on wildlife and biodiversity.

A circular solution

To support the industry's ongoing efforts towards circularity, we have built Daytona to last. Constructed for durability, it features interchangeable light engines that can be upgraded as future innovations come to market.

Toolless entry makes maintenance an easier, more desirable option than replacement, lengthening service life, and reducing waste.

Watch our Daytona video to learn how easy it is to replace light engines.

Daytona has been designed with circularity in mind, using upgradable components and recycled materials

Daytona is highly efficient, delivering increased electrical performance and lower energy consumption

Built to last, Daytona is made from durable materials and features toolless entry for easy maintenance

Daytona has been designed with mechanical fixings for easy disassembly at the end of its service life

Precise optical control

Using the latest LEDs and dedicated optics, we have created a highly efficient light engine offering optimised energy savings with precise lighting control, perfect for an array of urban applications.

To ensure the most efficient lighting designs, Daytona is available with a range of our most popular Diamond+ optics. Choose from 14 different distributions to ensure light is only placed where needed.

Adaptable light

With Daytona, we aim to give designers the tools they need to tackle the ongoing challenges of balancing the safety of pedestrians and road users with light pollution and the impact on biodiversity.

Daytona is our first range to integrate Tunable White technology as standard, providing a flexible, dynamic solution for night-time illumination. By adjusting the luminaire's colour temperature and brightness throughout the night, the innovative system can improve visual comfort, offering a sense of security while also minimising the impact on flora and fauna.

How it works

Luminaires include LEDs with two separate colour temperatures (e.g. 3000K and 2200K). When mixed, these can produce a range of colour temperatures. The system is easily and securely configured via Bluetooth using a smart device, either by directly setting the desired CCT and brightness or creating time-based scenes to dynamically change throughout the night.

Key advantages

- Dynamic system provides a sense of security whilst improving visual comfort
- Two transition options 3000K - 2200K and 4000K - 2700K
- Cooler colour temperatures provide better visibility during peak activity hours
- Warmer colour temperatures and low intensities minimise the impact on wildlife

Profile 1 – Pre-set Lighting

Ideal for areas with higher footfall, such as town centres and housing developments.

Illumination begins with a cooler colour temperature to provide better visibility and safety, then transitions to a warmer, softer light with reduced brightness overnight and back again in the morning when traffic levels increase

What to order: Tunable White option / Bluetooth control / photocell
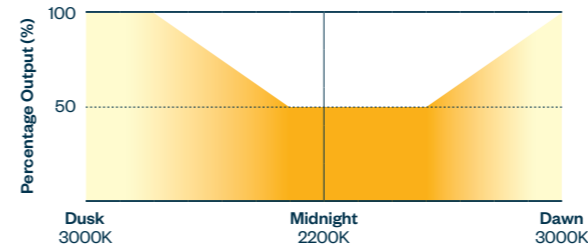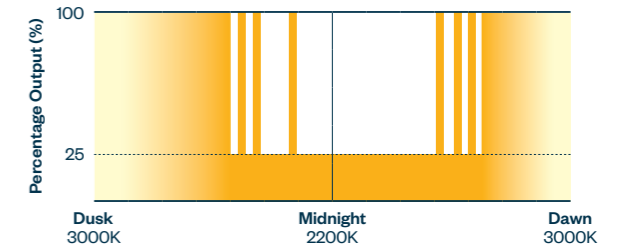

Profile 2 – Dynamic Lighting

Ideal for areas with lower footfall, such as cycle and pedestrian paths or remote car parks.

Illumination begins with a cooler colour temperature, before transitioning to a warmer colour and switching to a lower intensity. When motion is detected, the system switches to full brightness to provide improved visibility

What to order: Tunable White option / Bluetooth control / photocell / miniature presence detector

17:00
3000K | 100%

21:00
2700K | 75%

00:00
2200K | 50%

05:00
2700K | 75%

07:00
3000K | 100%

Design features

High Performance

Daytona features high power LEDs capable of delivering up to 14,175lm, with luminaire efficacy of up to 178lm/W

Durable Construction

Manufactured from die-cast LM6 aluminium with a polyester powder coat or marine-grade finish for maximum protection

Future-proofed Design

Following circular economy principles, Daytona features replaceable light modules that can be upgraded to prolong service life

Control

Compatible with the latest lighting control technologies via optional top and bottom sockets, delivering additional energy savings

Dedicated Optics

Daytona is offered with a wide selection of Diamond+ optics for precise beam control, supporting a range of urban applications

SupportTag

A QR-based system designed to streamline the luminaire maintenance process. Ensures issues are dealt with quickly by our dedicated support team

Light Engines

Daytona is offered in three colour temperatures, (2700K / 3000K / 4000K) and two Tunable White options (4000K - 2700K and 3000K - 2200K)

Toolless Entry

Quick-release latches provide toolless entry, simplifying installation and maintenance

Flexible Mounting

Post top [Ø76mm] or side entry [Ø34 - 42mm] mounting options for easy project integration

Dark-Sky Friendly

Daytona has a 0% ULOR (Upward Light Output Ratio) to combat light pollution and sky glow

Breather Valve

An anti-condensation valve regulates internal pressure and prevents condensation build up

Connected Spaces Ready

Daytona can accommodate a range of internal and external networking solutions for CMS integration

Considered Design

A slender, sloped profile ensures moisture runs off the luminaire preserving its IP66 protection

Light Shields

Discreet light shields that echo Daytona's circular design can be fitted to prevent light trespass when illuminating sensitive areas

Connectivity

To support a wide range of connectivity and control options, including a selection of sensors and networking nodes, Daytona can be specified with both NEMA and Zhaga sockets mounted in top and bottom locations.

By offering both standards, Daytona is not limited to a single product ecosystem and can adapt to new technologies as they are developed. This provides added flexibility and the opportunity to add functionality, now or in the future.

Zhaga-D4i Certified

NEMA socket (top)

An industry standard socket that provides both an electrical and mechanical connection to support numerous networking nodes and photocells. Available in 3, 5, 6 and 7-pin configurations

Zhaga socket (top)

An industry standard smart interface for outdoor lighting. The upper socket can accommodate different control devices that conform to the Zhaga Book 18 standard, such as a Bluetooth node

Zhaga socket (bottom)

An industry standard smart interface for outdoor lighting. The lower socket can accommodate different sensors that conform to the Zhaga Book 18 standard, such as a PIR motion sensor
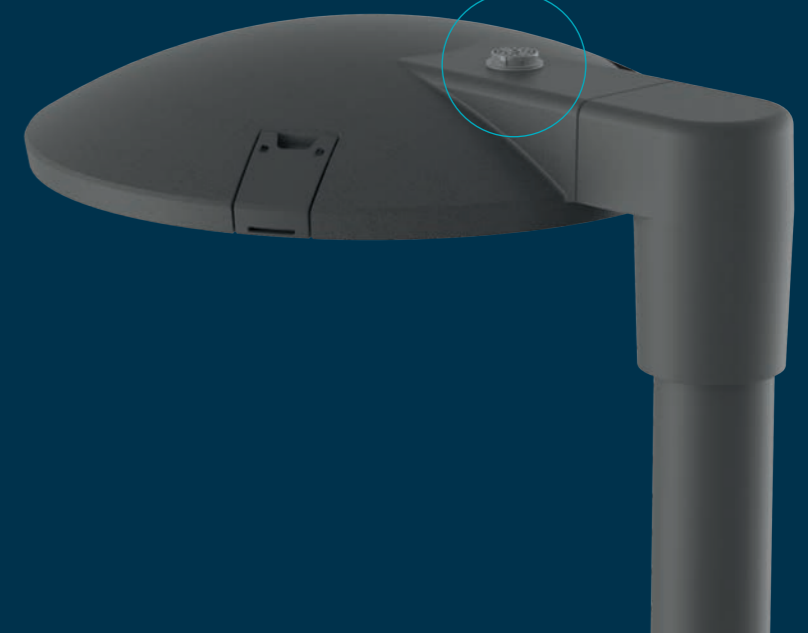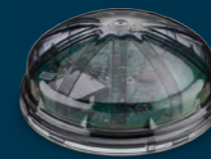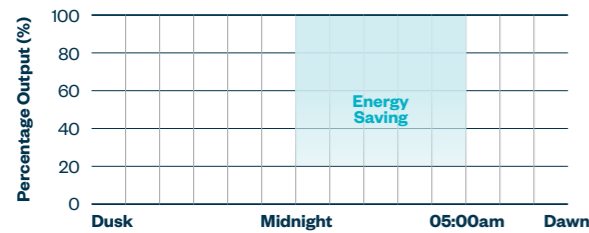
Control options

Lighting control systems offer many benefits, from increased flexibility to helping lower energy consumption. Daytona can be specified with multiple control options to suit the individual needs of your scheme.
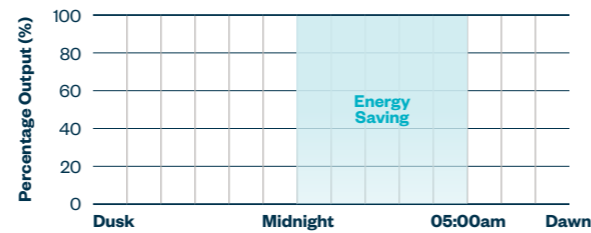
Photocells and part night dimming

For a basic control option, pair Daytona with a miniature photocell for dusk-to-dawn lighting. To trim burning hours, we recommend a 20lux photocell to limit 'on time'. To achieve greater energy savings, without the capital expenditure of a full CMS system, consider dimming your lanterns for part of the night. We can pre-program the driver to any regime for tailored energy savings.

Part Night Dim

Percentage Output (%)

100
80
60
40
20
0

Energy Saving

Dusk — Midnight — 05:00am — Dawn

Part Night Switch

Percentage Output (%)

100
80
60
40
20
0

Energy Saving

Dusk — Midnight — 05:00am — Dawn

Sensors

Daytona can accommodate a variety of sensors on the underside of the luminaire. Motion sensors can be used to provide increased energy savings by dimming when no movement is detected.

Alternatively, environmental detectors such as pollution or road temperature sensors can be integrated to report data as part of a Connected Spaces installation.

Bluetooth

Switch, dim and configure luminaires wirelessly for increased convenience and flexibility. Manage luminaires individually or in a group using scenes. Controlled directly from a smart device, no additional controls cabling required.

CMS / Connected Spaces integration

To allow our customers the greatest flexibility, we remain CMS agnostic and have supplied luminaries with all the current CMS and Connected Spaces platforms on the market.

With Daytona, we can fit internal nodes for all major systems minimising the visual impact on the lanterns aesthetic (an external aerial is still required). The following is a small selection of the control technologies we have installed in our lanterns:

urbancontrol

Telensa

mayflower
SMART CONTROL

Technical specification

Daytona lumen packages and wattages matrix

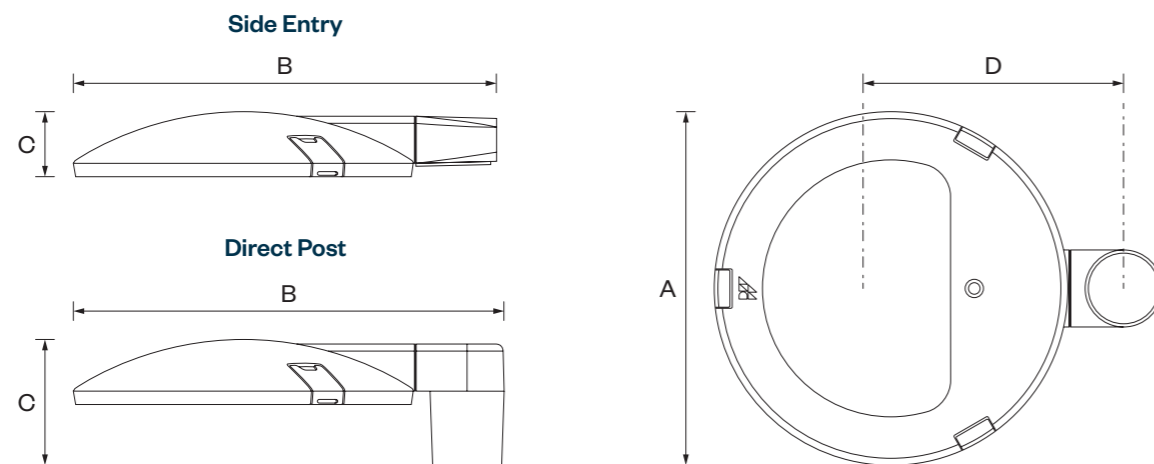| Drive Current (mA)		250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
8 LED	lm	1,044	1,234	1,418	1,596	1,769	1,936	2,097	2,253	2,403	2,547	2,686	2,819	2,947	3,069	3,185	3,297	3,402
	W	6	7	8	9	10	12	13	14	15	16	17	19	20	21	22	24	25
16 LED	lm	2,047	2,420	2,781	3,130	3,469	3,769	4,112	4,417	4,711	4,994	5,266	5,527	2,778	6,017	6,246	6,464	6,671
	W	11	13	16	18	20	22	24	27	29	31	34	36	38	41	43	46	48
24 LED	lm	2,969	3,509	4,032	4,539	5,030	5,504	5,962	6,405	6,831	7,241	7,636	8,015	8,378	8,725	9,057	9,373	9,673
	W	17	20	23	27	30	33	37	40	43	47	50	54	57	61	65	68	72
32 LED	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
	W	23	27	31	36	40	44	49	53	58	63	67	72	77	81	86	91	96

Lumen data based on 4000K with A2 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

	Dimensions (mm)				Weight (kg)	Windage (m²)
	A	B	C	D		
Side Entry	480	572	88	350	8.7	0.052
Post Top	480	582	170	350		

CCT details

	Light output reduction factor	S/P Ratio
4000K	1.00	1.5
3000K	0.93	1.4
2700K	0.86	1.3

Side Entry

Direct Post

Product codes

		Code	Example
Family			
Daytona		DAY	DAY
Mounting			
Ø76mm Direct post		D	D
Ø34 - 42mm Side entry		S	
Light Engine			
Static White			
8 LED		8	24
16 LED		16	
24 LED		24	
32 LED		32	
Tunable White			
32 LED		TW	
Colour Temperature			
2700K		27	30
3000K		30	
4000K		40	
	Tunable White (2200K - 3000K)	TW30	
	Tunable White (2700K - 4000K)	TW40	
Drive Current			
Drive currents from 250mA to 1050mA are available in 50mA increments Insert drive current value (eg 750mA - 750)	(supplied at full output)	250 / 300 / 350 400 / 450 / 500 550 / 600 / 650 700 / 750 / 800 850 / 900 / 950 1000 / 1050	750
Light Distribution			
Roads – Diamond+ A Optic		A1 / A2 / A3 / A5 / A6	A1
Pathways – Diamond+ B Optic		B1 / B2 / B3	
Areas – Diamond+ C Optic		C1 / C2 / C6	
Crossings – Diamond+ Z Optic		ZL / ZR / ZF	
Glazing			
Toughened glass (IK08) [standard option]		FG	FG
Polycarbonate (IK10)		RA	
Colour Finish			
RAL 9005 Black		10	10
RAL 7046 Mid grey		CF	
RAL 7035 Light grey		29	
DB 703 Metallic dark grey		DB	
Other RAL colour [on request]		RAL [specify]	
Paint Finish			
Polyester powder coat [standard option]		PP	PP
Marine-grade coating		C5	
Connectivity			
No connectivity or control	No connectivity or control	N	U20
Miniature photocell 20 lux (1:0.5) / 35 lux (1:0.5)	Miniature photocell 20 lux (1:0.5) / 35 lux (1:0.5)	U20 / U35	
NEMA socket – 3-pin / 5-pin / 6-pin / 7-pin	NEMA socket – 3-pin	E / C3 / B1 / D2	
Zhaga Book 18 socket – 4-pin (top)		Z4	
Zhaga Book 18 socket – 4-pin (bottom) [can be combined with top 3/7-pin NEMA or miniature photocell]		Z4A	
Zhaga Book 18 socket – 4-pin (top and bottom)		Z4B	
Control (optional)			
Bluetooth [can be combined with a 3-pin NEMA or miniature photocell]	Bluetooth	BLU	-
Integral CMS – Urban Control (AC node with puck antenna)		UAC	
Integral CMS – Urban Control (DC node with puck antenna)		UDC	
Integral CMS – Telensa (with monopole antenna)		ITE	
Integral CMS – Mayflower (with stub antenna)		IMA	
Presence Detector (optional)			
Miniature presence detector		PD	-
Emergency (optional)			
Integral 3 hour emergency [DALI versions only]		EM	-
Accessories (ordered seperately)			
Light shield – one side			-
Light shield – two sided			

Example Code: DAY D 24 30 750 A1 FG 10 PP U20

Daytona®

IP 66 | IK 10 | ⏚* | UKCA | CE | ZD⁴

Features & Benefits

Future-proofed lighting solution with replaceable light engines to support future upgrades as new innovations come to market

Outstanding service life to support the circular economy. Toolless entry for easy luminaire maintenance

Elegant design suitable to a range of urban applications, including high street & road lighting, public realm, paths & walkways, and car parks

Tunable White technology improves visual comfort for road users whilst minimising the impact on wildlife and biodiversity

Compatible with the latest lighting control technologies, supporting a range of NEMA and Zhaga devices via top and/or bottom sockets

Lumen Outputs

8 LED: up to 3,400lm

16 LED: up to 6,670lm

24 LED: up to 9,670lm

32 LED: up to 14,170lm

Tunable white light engine available

Optical Control

Diamond+ A Optic: Roads (A1 / A2 / A3 / A5 / A6)

Diamond+ B Optic: Pathways (B1 / B2 / B3)

Diamond+ C Optic: Areas (C1 / C2 / C6)

Diamond+ Z Optic: Crossings (ZL / ZR / ZF)

Lifetime

100,000 hours L90 B10

Luminaire Efficacy

Up to 178lm/W

Colour Temperature

2700K

3000K

4000K

Tunable White – 3000K - 2200K / 4000K - 2700K

Colour Rendering Index

70Ra

Drive Current

250mA - 1050mA (in 50mA increments)

Mounting

Direct post: Ø76mm

Side entry: Ø34 - 42mm

Control

Switch: On/off through conventional miniature or NEMA photocell

Dim: Factory set pre-programmed dimming profiles

CMS: Compatible with all available CMS systems

Bluetooth: Switch, dim and configure wirelessly

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

urbancontrol® ready with an internal or external CMS node solution - allows for full asset management through the urbanmaster® platform

Colours

RAL 9005 Black

RAL 7046 Mid grey

RAL 7035 Light grey

DB 703 Metallic dark grey

(Other RAL colours available on request)

Materials

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

Glazing: Toughened glass (IK08) / Polycarbonate (IK10)

Seals: Silicone

Finish: Polyester powder coat / Marine grade coating

Accessories

Light shield - one side / Light shield - two sided

Installation & Maintenance

Available pre-wired

Includes SupportTag for easy luminaire maintenance

Surge protection: 8kV

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

* Class II on request

MADE IN BRITAIN

JAN-2024-E
V1.5