

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



roadways



Footpaths & cycle routes





Housing developments





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.



WEEE Compliance

DW Windsor has a long-standing partnership with Lumicom to manage the disposal of our products once they reach the end of their service life.





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





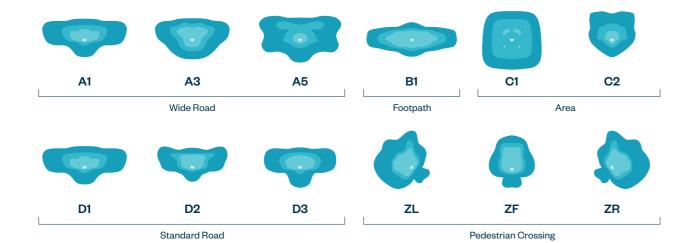
Watch our Daytona video to learn how easy it is to replace light engines.



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+ distributions.







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

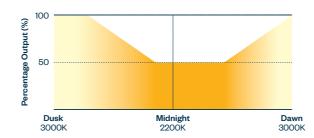
- Dynamic system provides a sense of security whilst improving visual comfort
- Two transition options 3000K 2200K and 4000K - 2700K
- Cooler colour temperatures provide better visibility during peak activity hours
- Warmer colour temperatures and low intensities minimise the impact on wildlife

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

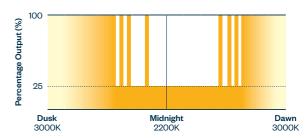


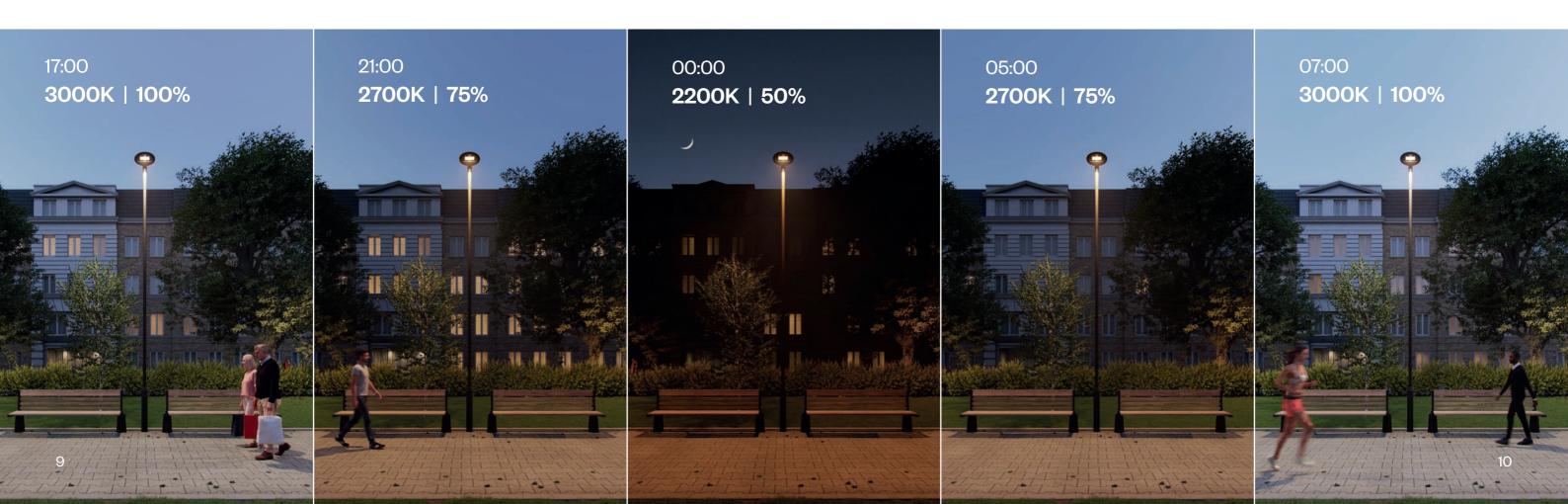
Profile 2 - Dynamic Lighting

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

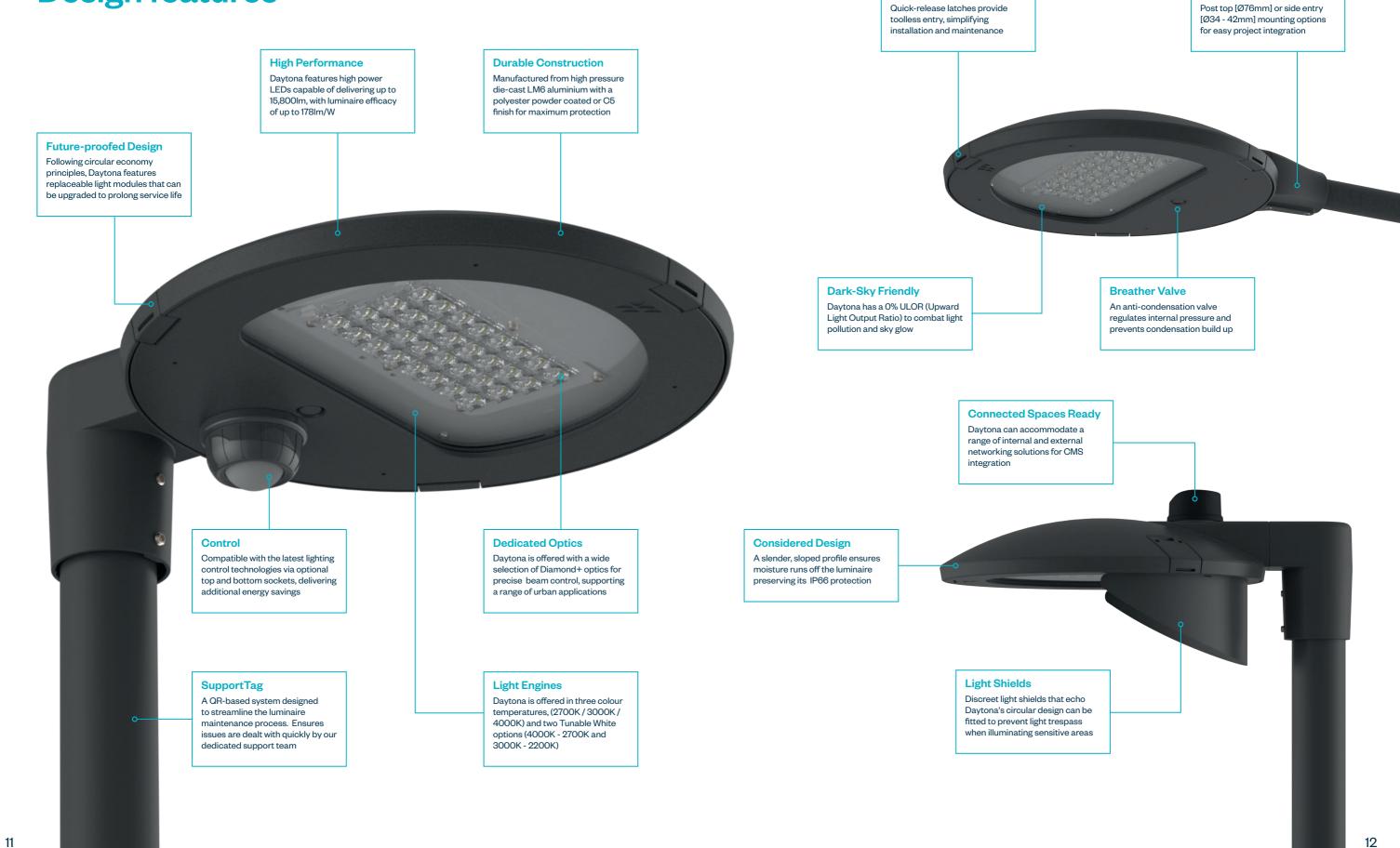
What to order: Tunable White option / Bluetooth control / photocell / miniature presence detector







Design features



Toolless Entry

Flexible Mounting



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.





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



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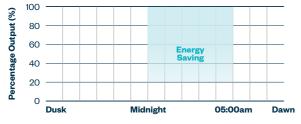
Control options

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.

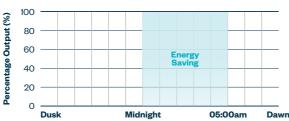
Photocells and part night dimming

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 preprogram the driver to any regime for tailored energy savings.

Part Night Dim



Part Night Switch



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:











Technical specification

Daytona lumen packages and wattages matrix

Drive Curre	ent (mA)	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
	lm	1263	1330	1640	1940	2240	2530	2810	3080	3350	3600	3850	4080	4310	4530	4740	4940	5130	5310
12 LED	w	10	10	11	13	14	16	17	19	21	23	24	26	28	30	32	34	36	38
	lm/W	126	133	149	149	160	158	165	162	160	157	160	157	154	151	148	145	143	140
	lm	2498	2630	3240	3840	4430	5000	5560	6090	6620	7120	7610	8080	8530	8960	9370	9770	10140	10500
24 LED	w	16	17	20	24	27	31	35	38	42	46	50	54	57	61	65	69	73	77
	lm/W	156	155	162	160	164	161	159	160	158	155	152	150	150	147	144	142	139	136
	lm	4579	4820	5720	6600	7460	8290	9110	9890	10660	11400	12110	12800	13460	14090	14700	15270	15820	
36 LED	w	26	28	33	37	42	47	52	57	62	67	73	78	84	90	95	101	107	
	lm/W	176	172	173	178	178	176	175	174	172	170	166	164	160	157	155	151	148	

Calculations based on 4000K with no LOR applied

Glare ratings

Optic	Rating
A1	None
A3	G3
A5	G3

Optic	Rating
B2	G3
C1	G3
C2	G3

Optic	Rating
D1	G2
D2	None
D3	G3

	Optic	Rating
	ZL	G6
	ZR	G6
	ZF	G6

CCT details

	Light output reduction factor	S/P Ratio
4000K	1.00	1.5
3000K	0.91	1.4
2700K	0.89	1.3

Equivalent LED specifications for HID replacement schemes

Lamp and LEI	D Equivalent	Power (W)	Energy Saving (%)
	35W SOX	65	75
	12 LED @ 450mA	16	75
sox	55W SOX	74	QE.
SUX	12 LED @ 750mA	26	65
	90W SOX	130	65
	24 LED @ 650mA	46	000
SON-T+	50W SON-T+	69	75
3011-17	12 LED @ 500mA	17	10
	70W SON-T+ / CDO-TT	78	67
	12 LED @ 750mA	26	67
SON-T+/	100W SON-T+ / CDO-TT	112	63
CDO-TT	24 LED @ 600mA	42	3
	150W SON-T+ / CDO-TT	165	56
	36 LED @ 700mA	73	30
	45W CPO-TW	52	63
	12 LED @ 550mA	19	3
	60W CPO-TW	66	55
CPO-TW	12 LED @ 850mA	30	
3.3	90W CPO-TW	96	60
	24 LED @ 550mA	38	
	140W CPO-TW	164	59
	36 LED @ 650mA	67	

Product codes		Code	Example	
Family Daytona		DAY	DAY	
Mounting		DAT	DAT	
Ø76mm Direct post		D		
Ø34 - 42mm Side entry		S	D	
· · · · · · · · · · · · · · · · · · ·		3		
Light Engine Static White				
		10		
12LED 24LED		12 24	24	
			24	
36 LED	Torrest Land Market	36		
	Tunable White	T)4/		
<u> </u>	32 LED	TW		
Colour Temperature				
2700K		27		
3000K		30		
4000K		40	30	
-	Tunable White (3000K - 2200K)	TW30		
-	Tunable White (4000K - 2700K)	TW40		
ight Output				
Drive currents from 200mA to 1050mA are available in 50mA increments	(supplied at full output)	200 / 250 /300 350 / 400 / 450 500 / 550 / 600 650 / 700 / 750 800 / 850 / 900 950 / 1000 / 1050	750	
ight Distribution				
Diamond+ A Optic - A1 (Wide Road)		A1/A3/A5		
		B1		
Diamond+ B Optic - B1 (Footpath)				
Diamond+ C Optic - C1 (Area)		C1/C2	A1	
Diamond+ D Optic - D1 (Standard Road)		D1/D2/D3		
Diamond+ Z Optic - ZL (Pedestrian Crossing)		ZL/ZR/ZF		
Blazing		Г		
Toughened glass (IKO8) [standard option]		FG	FG	
Polycarbonate (IK10)		RA		
Colour Finish			1	
RAL 9005 Black		10		
RAL 7046 Mid grey		CF	10	
RAL 7035 Light grey		29		
DB 703 Metallic dark grey		DB		
Other RAL colour		RAL [specify]		
aint Finish				
Polyester powder coat [standard option]		PP		
Marine-grade C5 coating		C5	PP	
Connectivity				
No control	No control	N		
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	U20	
Zhaga Book 18 socket - 4-pin (top)	_	Z4		
Zhaga Book 18 socket – 4-pin (bottom) [can be combined with top 3/7-pin NEM	A or miniature photocell]	Z4A Z4B		
	Zhaga Book 18 socket – 4-pin (top and bottom)			
Zhaga Book 18 socket - 4-pin (top and bottom)		BLU		
Zhaga Book 18 socket – 4-pin (top and bottom) Control Bluetooth [can be combined with a 3-pin NEMA or miniature photocell]		BLU		
Zhaga Book 18 socket - 4-pin (top and bottom) Sontrol Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS - Urban Control (AC node with puck antenna)			-	
Zhaga Book 18 socket - 4-pin (top and bottom) Control Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS - Urban Control (AC node with puck antenna) Integral CMS - Urban Control (DC node with puck antenna)		UAC	-	
Zhaga Book 18 socket - 4-pin (top and bottom) Fontrol Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS - Urban Control (AC node with puck antenna) Integral CMS - Urban Control (DC node with puck antenna) Integral CMS - Telensa (with monopole antenna)		UAC	-	
Zhaga Book 18 socket – 4-pin (top and bottom) Control Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS – Urban Control (AC node with puck antenna) Integral CMS – Urban Control (DC node with puck antenna) Integral CMS – Telensa (with monopole antenna) Integral CMS – Mayflower (with stub antenna)		UAC UDC ITE	-	
Zhaga Book 18 socket – 4-pin (top and bottom) Bontrol Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS – Urban Control (AC node with puck antenna) Integral CMS – Urban Control (DC node with puck antenna) Integral CMS – Telensa (with monopole antenna) Integral CMS – Mayflower (with stub antenna) Integral CMS – Betector		UAC UDC ITE IMA	-	
Zhaga Book 18 socket – 4-pin (top and bottom) Control Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS – Urban Control (AC node with puck antenna) Integral CMS – Urban Control (DC node with puck antenna) Integral CMS – Telensa (with monopole antenna) Integral CMS – Mayflower (with stub antenna) Integral CMS – Betector Miniature presence detector		UAC UDC ITE	-	
Zhaga Book 18 socket – 4-pin (top and bottom) Control Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS – Urban Control (AC node with puck antenna) Integral CMS – Urban Control (DC node with puck antenna) Integral CMS – Telensa (with monopole antenna) Integral CMS – Mayflower (with stub antenna) Presence Detector Miniature presence detector Emergency		UAC UDC ITE IMA	-	
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Zhaga Book 18 socket – 4-pin (top and bottom) Control Bluetooth [can be combined with a 3-pin NEMA or miniature photocell] Integral CMS – Urban Control (AC node with puck antenna) Integral CMS – Urban Control (DC node with puck antenna) Integral CMS – Telensa (with monopole antenna) Integral CMS – Mayflower (with stub antenna) Presence Detector Miniature presence detector Emergency Integral 3 hour emergency [DALI versions only] Accessories		UAC UDC ITE IMA PD	-	
Zhaga Book 18 socket - 4-pin (top and bottom)		UAC UDC ITE IMA	-	

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IP66 | IK10 | CLASS I or CLASS II

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

12 LED: up to 5,300lm

24 LED: up to 10,500lm

36 LED: up to 15,800lm

Tunable white light engine available

Optical Control

Diamond+ A Optic: Wide Road (A1 / A3 / A5)

Diamond+ B Optic: Footpath (B1)

Diamond+ C Optic: Area (C1 / C2)

Diamond+ D Optic: Standard Road (D1 / D2 / D3)

Diamond+ Z Optic: Pedestrian Crossing (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

200mA - 1050mA (in 50mA increments)

¹Luminaire specifications rated up to 50°C available on request





DW Windsor is part of the Luceco Group

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 (IKO8) / Polycarbonate (IK10)

Seals: Silicone

Finish: Polyester powder coat / Marine grade C5 coating

Mechanical Details

Dimensions (mm): 460 (Ø) x 170 (h)

Weight (kg): 8.7

Windage (m^2): 0.052 ($C \times S = 0.027$)

Accessories

Light shield - one side

Light shield - two sided

Installation & Maintenance

Available pre-wired

Includes Support Tag for easy luminaire maintenance

Surge protection: 8kV

Operational temperature range: -20°C to +40°C1

DW Windsor

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