

KASKARA

IP66 | IK08 | CLASS I



Features:

- Performance LED floodlight, up to 128lm/W
- Unique indirect reflectors for low glare and a well-defined cut-off
- Lumen output: 81W to 161W (10360lm to 19040lm)
- Exceptional thermal management
- CMS compatible, supporting switching, dimming and Photocell control
- Energy saving

Options

Wall or column mounted

Kaskara 3 (3 CoB) For mounting at 8-12 metres

Kaskara 2 (2 CoB) For mounting at 6-10 metres

Optical control:

Narrow

Wide

Optional obtrusive light shield(s)

Light Source:

LEDs: Latest generation Citizen CoB (chip on board)

L80 lifetime prediction:

In excess of 100,000 hours

Total circuit watts:

81-161W - see lumen output table for full details

Colour temperature:

4000K (neutral white)

Other colour temperatures available on special request

Colour rendering index:

> 70Ra (4000K)

Luminaire efficacy:

Up to 128 lm/W

Driver current:

700 & 1000mA options available

Upward light output ratio (ULOR):

0% (at 0° inclination)

Mounting:

Post top (60-76mm Ø)

Stirrup bracket for horizontal and vertical mounting (please see tilt increments diagram for full details)

Gear, switching and control:

External Switch: Time clock or PIR

Internal Switch: On/off through conventional PEC or NEMA Photocell

Dim: Factory set dimmed / customer specified dimming

CMS: Compatible with all available CMS

Colours:

RAL 9005 Black

RAL 7046 Grey

RAL 7035 Light Grey

RAL 9016 White

Other RAL colours available on special request

Materials

Body: High pressure die cast aluminium

Glazing: Toughened glass

Seals: Silicone

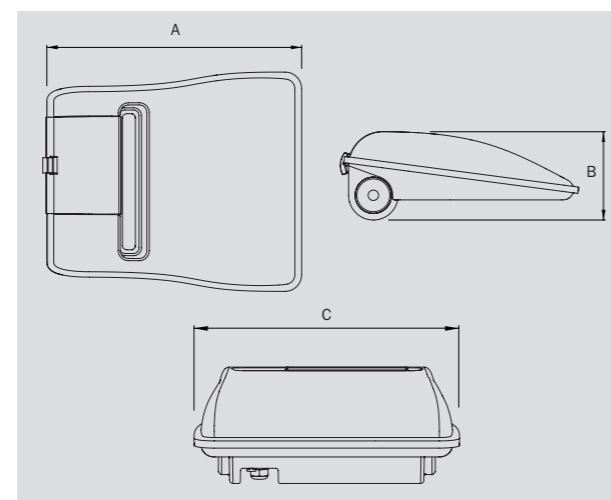
Finish: Fine texture polyester powder coat

Installation and maintenance

Operational temperature range: -25°C to +30°C

Tool-less entry and maintenance

Surge Protection: 10kV as standard



	Dimensions (mm)			Weight (kg)	Windage m ²
	A	B	C		
Kaskara	585	220	500	12.6	0.08

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: dwwindsor.com

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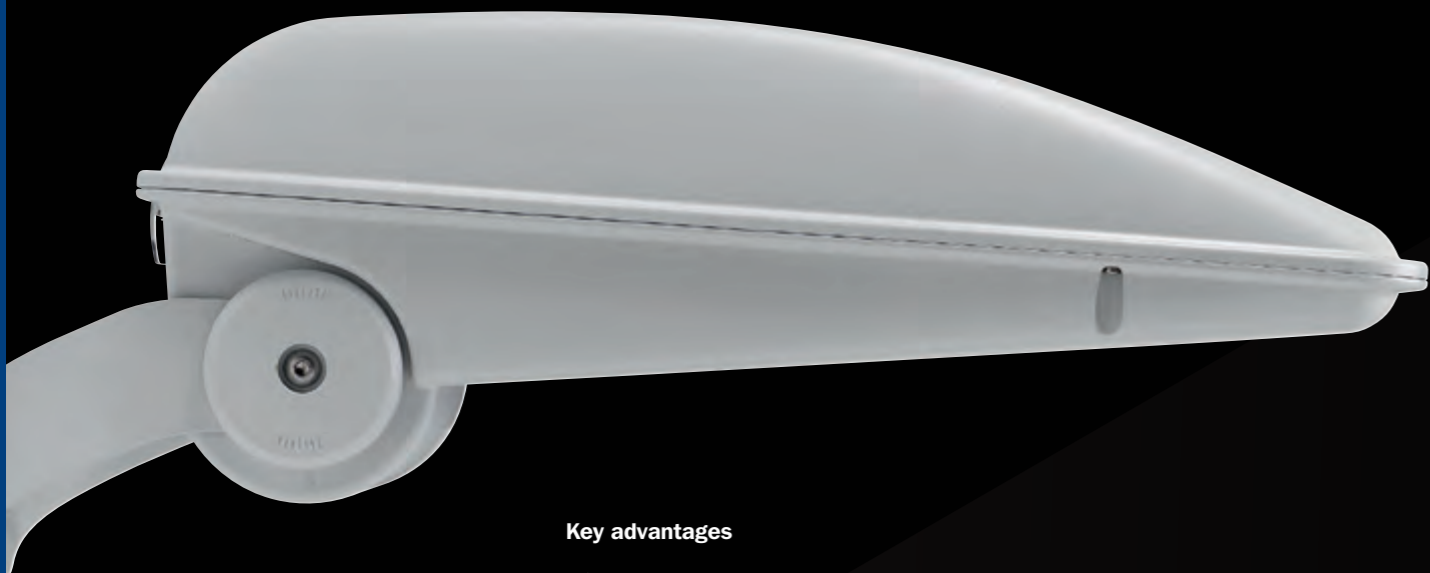
NEW PERFORMANCE LED FLOODLIGHT

KASKARA

Kaskara has been specifically designed to bring the benefits of Chip on Board LED technology to area and floodlighting applications.

With unique indirect reflectors to provide performance asymmetric floodlighting with low glare, 0% ULOR and a well-defined rear cut-off, Kaskara offers a precise lighting solution with significant energy savings (up to 66% compared to traditional metal halide). Providing a flexible, professional and highly efficient LED floodlight with excellent thermal management.

Simple and easy to install Kaskara requires little to no maintenance.



Key advantages

- Suitable for exterior or covered (indoor) applications
- Variable lumen packages, one size body
- High efficacy, up to 128lm/W
- Excellent thermal management
- Cool-Zone™ feature, inherent to DW Windsor LED product design, thermally isolates LEDs from temperature sensitive electronics to ensure product longevity
- Instant light and hot restrike
- Energy savings, up to 66% achievable (compared to HID light sources)
- Choice of control options for further energy savings
- Dimmable
- Tool-less contractor-friendly entry

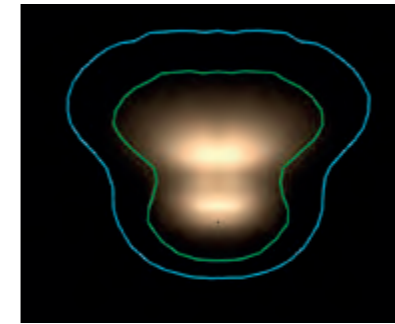
Applications

- Recreational sports facilities
- Car parks
- Industrial areas
- Building facades
- Level crossings & platform lighting

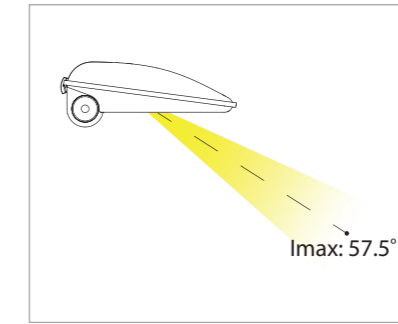
OPTIONS

Optical Distribution

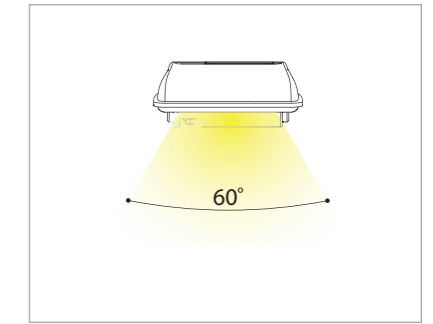
Wide Flood



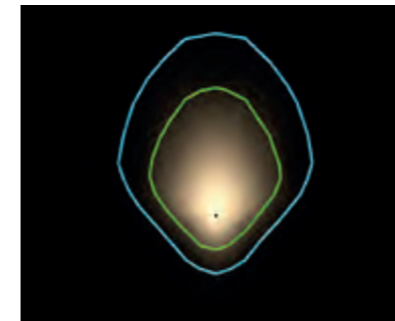
Beam Angle



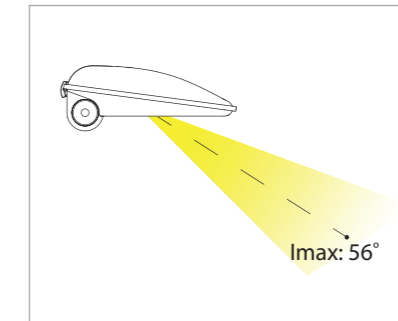
Beam Width



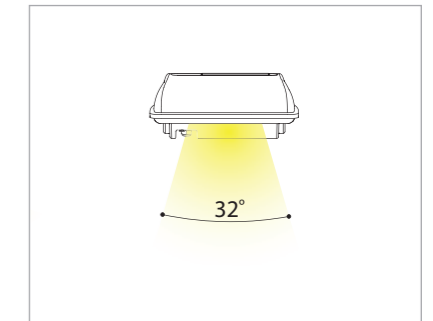
Narrow Flood



Beam Angle



Beam Width



Lumen output

Kaskara 4000K

Drive Current		700mA	1000mA
2 CoB	lumen output (lm)	10,360lm	12,693lm
	connected load (W)	81W	108W
	efficacy (lm/w)	128lm/w	118lm/w
3 CoB	lumen output (lm)	15,540lm	19,040lm
	connected load (W)	121W	161W
	efficacy (lm/w)	128lm/w	118lm/w

All values are measured actual luminaire output data

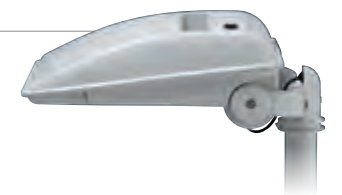
CONTROL

Intelligent Energy Management

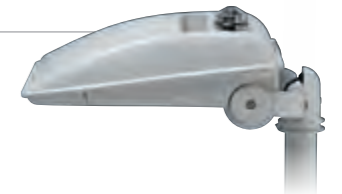
Control type	Description	Potential saving
Photocell	Standard control option, switching light on/off at predetermined light levels. Further reductions achievable through trimming (reducing lux switch/off levels)	0
Part Night Switching	Using intelligent controls and control gear. Luminaires are switched off during hours of low traffic	Up to 50%
Part Night Dimming	Using intelligent controls and control gear. Luminaires are dimmed during hours of low traffic. Dimmed levels can change through the night to minimise the effect.	Up to 40%
Full CMS	A number of luminaires can be controlled from a central system. Dimming and switching regimes can be designed to suit individual situations. Luminaires can also feedback information on power consumption, operating conditions and life expectancy	Up to 50%

Through the use of intelligent control systems, additional energy and cost savings and carbon reduction can be achieved. For energy saving calculations and advice please contact +44 (0)1992 474600.

Kaskara with miniature photocell

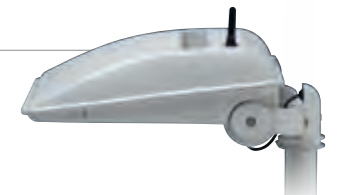


Kaskara with Nema photocell



Kaskara with CMS antenna

Full CMS/remote monitoring functionality. Compatible with all leading Central Management Systems



KASKARA

Thermal Management

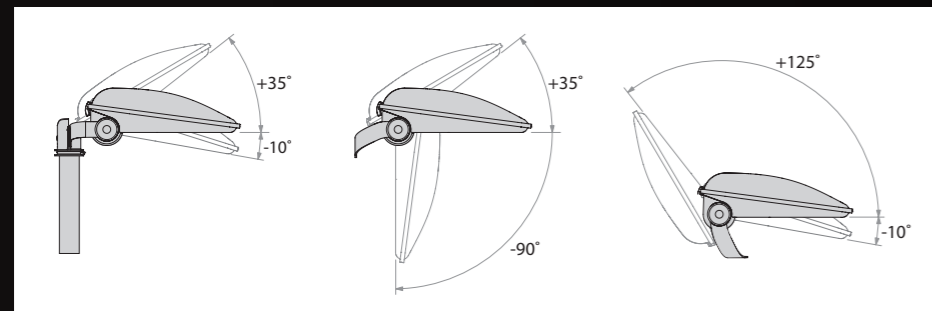
Kaskara has been engineered from its conception to provide exceptional thermal performance. Its superior thermal capabilities have been developed using advanced thermal simulation (CFD software) and validated through extensive testing.



Cool-Zone™ thermal isolation

An air void between the LEDs and gear acts as an extremely effective thermal barrier, protecting the temperature-sensitive electronics. Separated from the heat source (LEDs) the electronic components operate significantly below permitted temperatures resulting in improved long-term performance and increased life expectancy of the driver. It is widely regarded that a 10°C reduction in the temperature of the driver can increase service life by approximately 50%.

Tilt increments



High efficiency, low glare reflectors

Light source:
 • Latest generation CoB (chip-on-board) LEDs
 • Choice of 2 or 3 LED version

Areas for lighting control options:
 • Fully CMS compatible
 • Room for multiple power and control entries



Flexible mounting options:
 • Post top
 • StIRRUP bracket

Air void and thermal barrier

Low-iron toughened glass, minimising light loss

Cooling fins

Tool-less entry and maintenance



Simple tilt mechanism (5° increments)

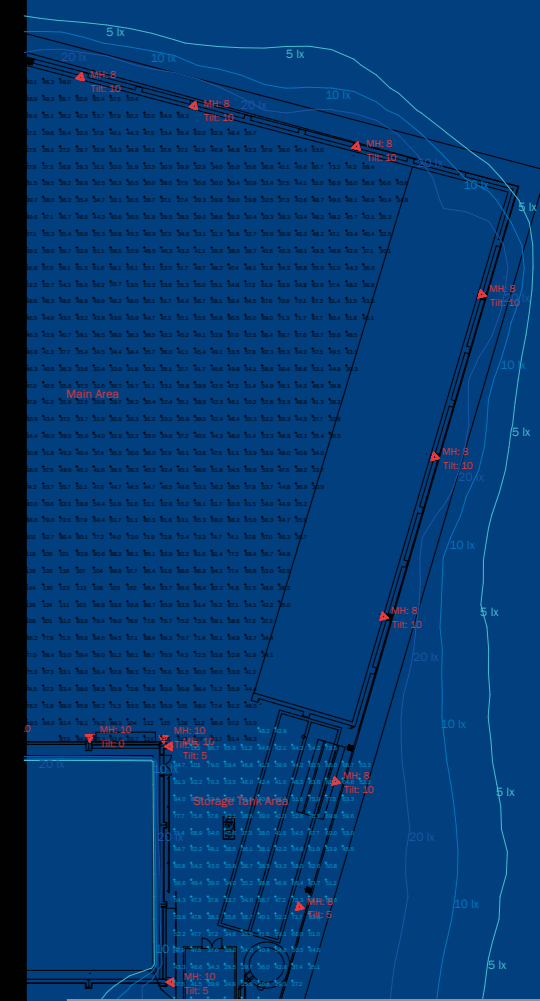
Single driver operation

Case Study

Project: Full Waste Recycling Centre

- Brief:
- Improve safety
 - Reduce maintenance
 - Increase productivity on previous unlit site

For detailed case study's please visit:
dwwindsor.com



Design Specification		
BS EN 12464-2:2014		
5.7.2 Industrial Site and Storage Areas		
50lux Av - 0.40 Uo		

	Option 1 Metal Halide	Option 2 Kaskara
Lamp	250W HQI-T 400W HQI-T	Kaskara 3 700mA
Total Luminaire Power	285W 435W	121W
Number of Units	20 3	27
Total Lumens	900,000lm	419,580lm
Total System Power	9555W	3267W
Energy Saving	N/A	66%