DW Windsor

Kaskara

Kaskara

Kaskara's unique indirect reflectors provide performance asymmetric floodlighting with low glare, 0% ULOR and a well-defined rear cut-off.

Providing flexible, professional and highly efficient LED floodlighting with excellent thermal management, Kaskara is simple and easy to install and 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 maintenance

Applications

Industrial

Car parks

Sports & Leisure

Rail

Building facades

Case Study

Project:

Powerday, waste recycling centre

Brief:

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

For detailed case studies 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%

Performance lighting:

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

Low-iron toughened glass, minimising light loss

Highly efficient:

- Unique indirect reflectors
- Low glare
- Well-defined cut-off

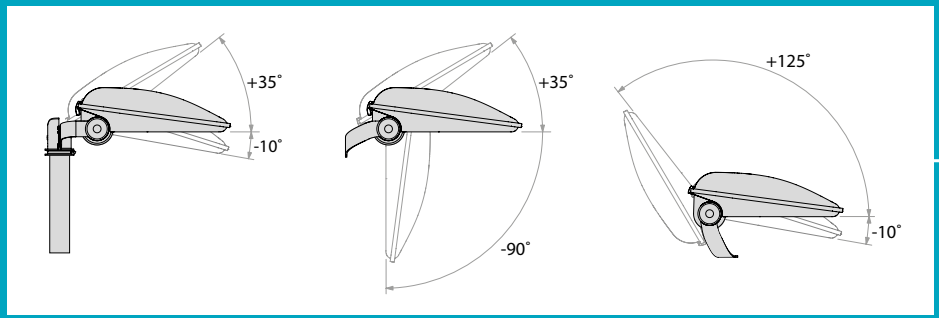
Exceptional thermal performance:

Air void and thermal barrier

Cooling fins

Single driver operation

Tilt increments



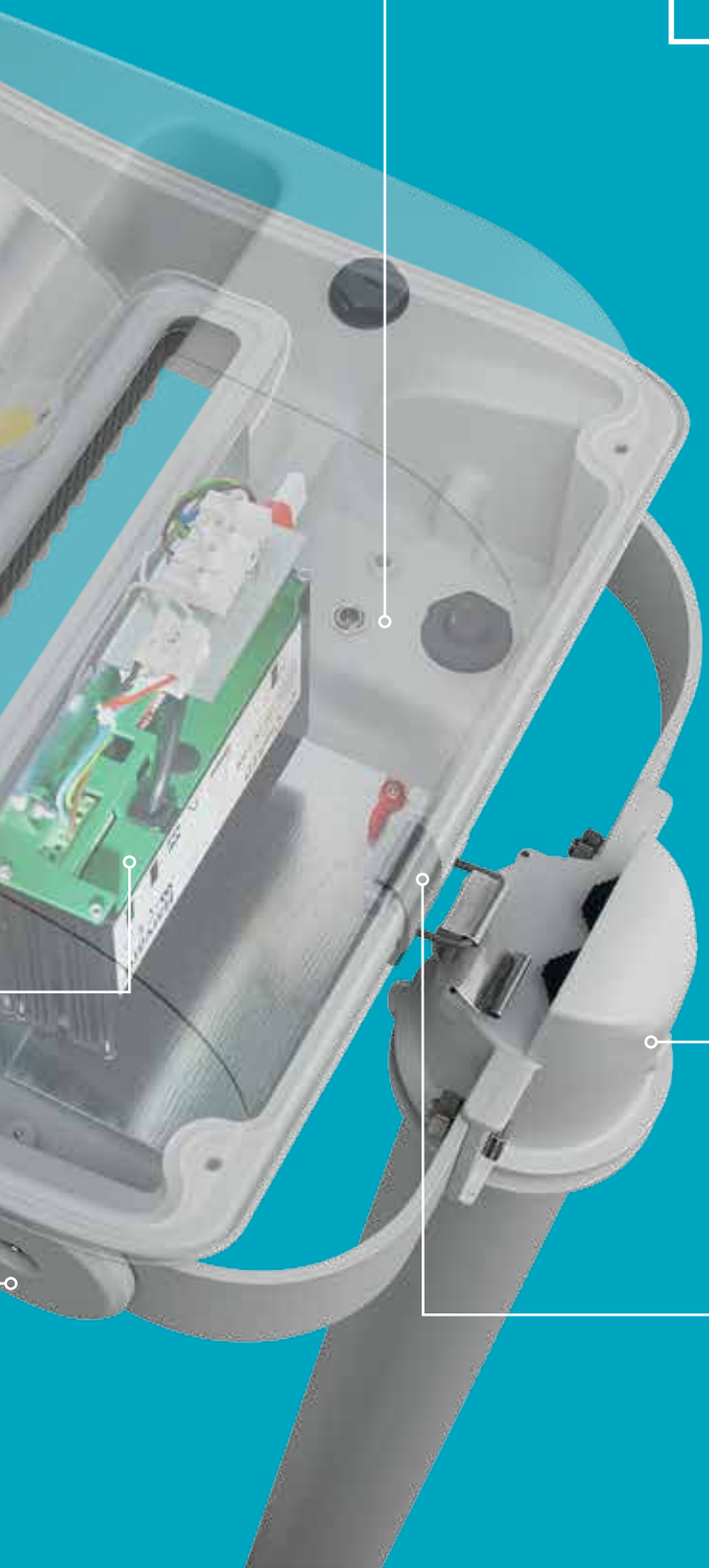
Simple tilt mechanism (5° increments)

Control:

- Fully CMS compatible
- Room for multiple power and control entries

Flexible mounting:

- Post top (see page 6)
- Stirrup bracket (supplied as standard)



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

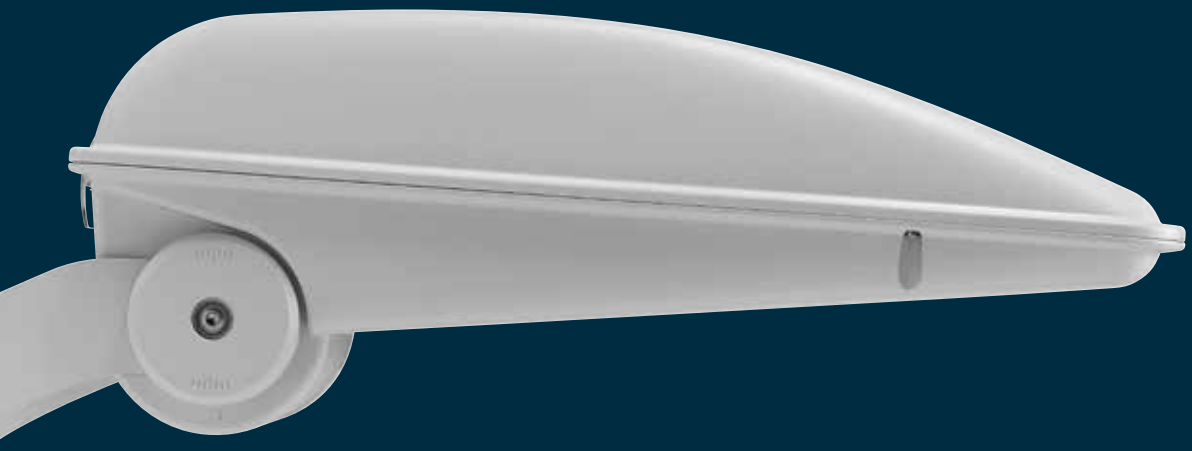
An air void between the LEDs and gear acts as an extremely effective thermal barrier, protecting the temperature-sensitive electronics. Separated from the heat source (LEDs) the electronic components operate significantly below permitted temperatures resulting in improved long-term performance and increased 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%.

Tool-less entry:

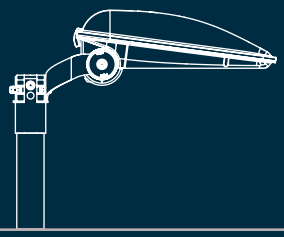
For speedy installation and maintenance

Bracket options

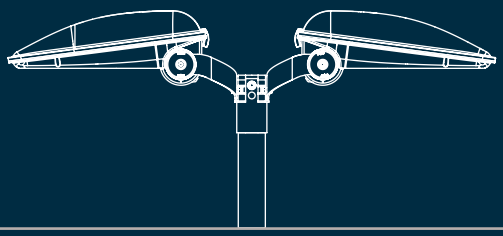
1. Stirrup Bracket – Supplied as standard



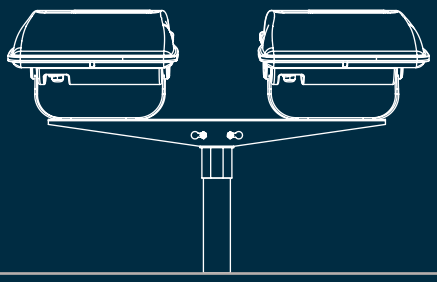
2. Post Top mounted – 1 way



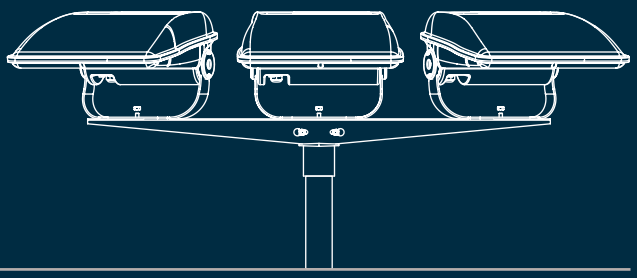
3. Post Top mounted – 2 way (back to back)



4. Post Top + linear bracket – 2 way



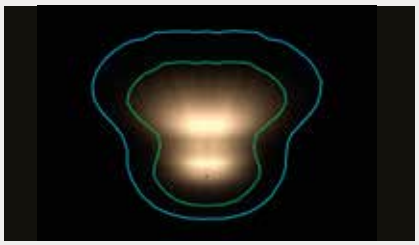
5. Post Top + linear bracket – 3 way



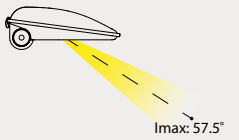
Options

Optical Distribution

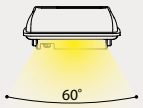
Wide Flood



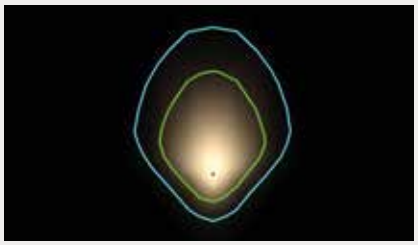
Beam Angle



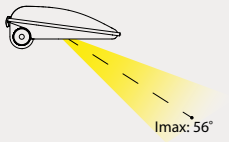
Beam Width



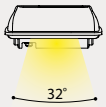
Narrow Flood



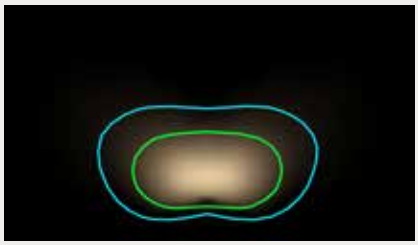
Beam Angle



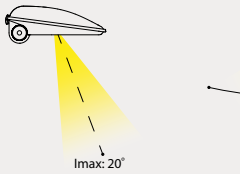
Beam Width



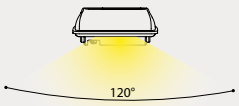
Perimeter



Beam Angle



Beam Width



Lumen output: Kaskara 4000K	Drive Current: 2 CoB		Drive Current: 3 CoB	
	700mAw	1000mA	700mA	1000mA
lumen output (lm)	10,360lm	12,693lm	15,540lm	19,040lm
connected load (W)	81W	108W	121W	161W
efficacy (lm/w)	128lm/w	118lm/w	128lm/w	118lm/w

All values are measured actual luminaire output data

Control

Intelligent Energy Management

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.

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 Switching	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%

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

IP66 | IK08 | CLASS I

Features:

- Performance LED floodlight
- Highly efficient, up to 128lm/W
- Unique indirect reflectors for low glare and a well-defined cut-off
- Lumen output: 10360lm to 19040lm (81W to 161W)
- 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 or 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

Drive current:

700 & 1000mA options available

Upward light output ratio (ULOR):

0% (at 0° inclination)

Mounting:

Stirrup bracket (standard)

Post top (60-76mm Ø)

Linear brackets (see page 6)

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:

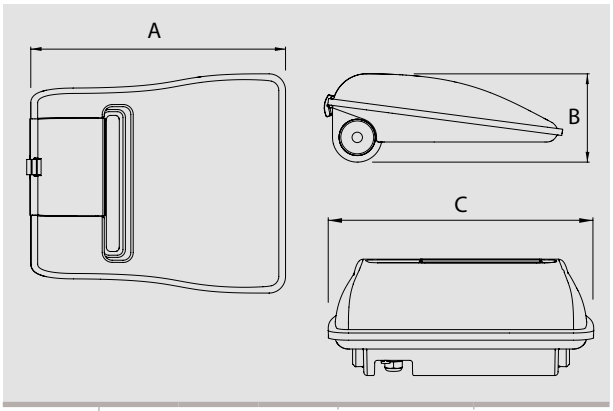
Body:	High pressure die cast aluminium
Glazing:	Toughened glass
Seals:	Silicone
Finish:	Fine texture polyester powder coat

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 m²
	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: www.dwwindsor.com

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MADE IN BRITAIN

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