

The Cosham 10W is an IP65 - IK10 rated LED bollard featuring a silver optical controller to ensure minimal upward glare and a symmetrical spread for an enhanced visual experience.

Manufactured from extruded die-cast aluminium and a transparent strong UV stabilised polycarbonate diffuser for high efficiency and vandal resistance.

Options available are Colour Temperature, DALI, 110V, 12V, Mini Photocell, AstroDIM, PIR Sensor, 3hr Emergency, 180° Spill Shield, and Surface Mount Flange Plate or Bolt-on Root Mount.

Small (Mini/Short) Bollard. To order, change CB10-xxx-xx-x to CBS10-xxx-xx-x.



Cosham 10W LED Bollard



Bollard Lighting



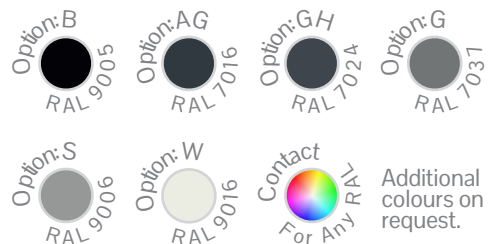
Features

- LED rating (Source lumens) 1,511Lm (4000K / 6000K), 1,307Lm (3000K) and 1,265(2700K).
- Luminaire flux (delivered lumens) 1,284Lm (4000K / 6000K), 1,111Lm (3000K) and 1,284Lm(2700K).
- Total system watts 10cW.
- Luminaire efficacy up to 128Lm/cW.
- Colour temperature options available are 2700K, 3000K, 4000K, 6000K.
- -20 to +40°C operating temperature (Emergency 0 to +40°C).
- Control options available are DALI driver, 110V driver, 12V driver, AstroDIM driver, Mini Photocell, PIR Sensor and 3hr Emergency.
- Emergency Mode BLF 100%.
- Small (Mini / Short) version available.
- Any painted RAL colour finish.
- 5 Year Manufacturer's Warranty.

Benefits

- IP65 / IK10 rated for robust durability in tough environments.
- LED Life span > 100,000hrs, L90B10.
- Osram LEDs and Osram Driver for trusted quality and reliability.
- Easy access to LED and Driver via a removable head for maintenance.
- Low glare conical diffuser for less than 0.5% upward light ratio.
- Tamper proof fixings for increased vandal resistance.
- Manufactured from extruded die-cast aluminium with strong UV stabilised polycarbonate diffuser.
- Optional Surface Mount Flange Plate or Bolt-on Root Mount (available separately) for ease of install.
- Optional 180° Spill Shield for controlled light distribution.
- Compliant with Dark Skies recommendations^{#1}.
- Bat & Insect friendly^{#2}.

Painted Options



Kelvin Options



^{#1} 3000K + DALI control / dimmable option.

^{#2} 2700K + DALI control / dimmable option.

* 5 Year Manufacturer's Warranty.

Dimensions

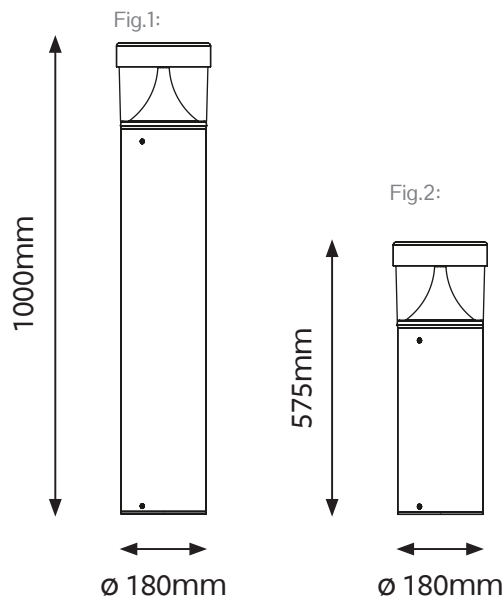
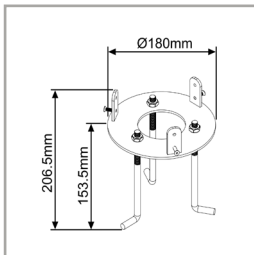


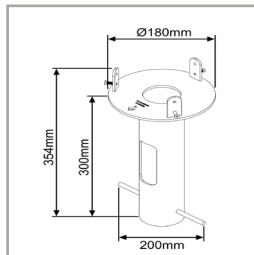
Fig.1: Regular Bollard.

Fig.2: Small (Short/Mini) Bollard.

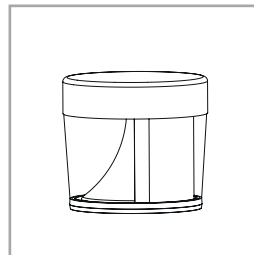
Add-Ons



Flange Plate Kit with J-bolts. To be ordered separately, code: FIX 0053.



300mm Bolt-on Root Mount. To be ordered separately, code: FIX 0054.



Factory Fitted Spill Shield. To order, change code from 'CB10' to 'CBH10'.

Applications



Prestigious Grounds



Car Parks



Parks & Gardens



Walkways

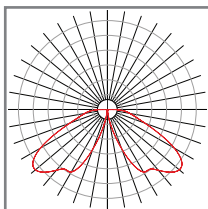


Security

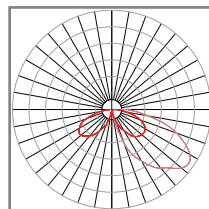
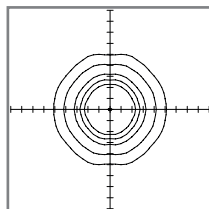


Amenity Areas

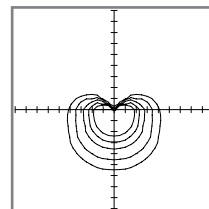
Photometric Data



Optic 1 - 360° beam for wide area lighting.



Optic 2 - 180° beam to prevent backwards light spill.



NB: photometric images are indicative.

Need a Lighting Design?

We offer a free of charge design service, contact our team today: studio@gemmalighting.com.

Specifications (Continued)													
Cosham 10W LED Bollard													
Item Number	Description	Light Source	LED Rating (Lm)	Total System Power (cW)	CCT (K)	CRI	Voltage (VAC)	LED Drive Current (mA)	Luminaire Flux (Lm)	Luminaire Efficacy (Lm/cW)	Weight (kg)	Height (mm)	Unit Colour
10W LED BOLLARD													
CB10-A1C-00-B	COSHAM-10W-LED-AC-6000K-STD-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1N-00-B	COSHAM-10W-LED-AC-4000K-STD-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1W-00-B	COSHAM-10W-LED-AC-3000K-STD-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	6.4	1000	BLACK
CB10-A1X-00-B	COSHAM-10W-LED-AC-2700K-STD-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	6.4	1000	BLACK
10W EMERGENCY LED BOLLARD													
CB10-A1C-01-B	COSHAM-10W-LED-AC-6000K-STD-E3-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1N-01-B	COSHAM-10W-LED-AC-4000K-STD-E3-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1W-01-B	COSHAM-10W-LED-AC-3000K-STD-E3-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	7.2	1000	BLACK
CB10-A1X-01-B	COSHAM-10W-LED-AC-2700K-STD-E3-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	7.2	1000	BLACK
10W MINI PHOTOCELL LED BOLLARD													
CB10-A1C-04-B	COSHAM-10W-LED-AC-6000K-STD-M/PHOTOCELL-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1N-04-B	COSHAM-10W-LED-AC-4000K-STD-M/PHOTOCELL-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1W-04-B	COSHAM-10W-LED-AC-3000K-STD-M/PHOTOCELL-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	6.4	1000	BLACK
CB10-A1X-04-B	COSHAM-10W-LED-AC-2700K-STD-M/PHOTOCELL-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	6.4	1000	BLACK
10W MINI PHOTOCELL - EMERGENCY LED BOLLARD													
CB10-A1C-10-B	COSHAM-10W-LED-AC-6000K-STD-M/PHOTOCELL-E3-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1N-10-B	COSHAM-10W-LED-AC-4000K-STD-M/PHOTOCELL-E3-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1W-10-B	COSHAM-10W-LED-AC-3000K-STD-M/PHOTOCELL-E3-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	7.2	1000	BLACK
CB10-A1X-10-B	COSHAM-10W-LED-AC-2700K-STD-M/PHOTOCELL-E3-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	7.2	1000	BLACK
10W PIR LED BOLLARD (OFF/ON VIA PRESENCE DETECTOR)													
CB10-A1C-13-B	COSHAM-10W-LED-AC-6000K-STD-PIR-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1N-13-B	COSHAM-10W-LED-AC-4000K-STD-PIR-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1W-13-B	COSHAM-10W-LED-AC-3000K-STD-PIR-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	6.4	1000	BLACK
CB10-A1X-13-B	COSHAM-10W-LED-AC-2700K-STD-PIR-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	6.4	1000	BLACK
10W PIR - EMERGENCY LED BOLLARD (OFF/ON VIA PRESENCE DETECTOR)													
CB10-A1C-14-B	COSHAM-10W-LED-AC-6000K-STD-PIR-E3-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1N-14-B	COSHAM-10W-LED-AC-4000K-STD-PIR-E3-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1W-14-B	COSHAM-10W-LED-AC-3000K-STD-PIR-E3-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	7.2	1000	BLACK
CB10-A1X-14-B	COSHAM-10W-LED-AC-2700K-STD-PIR-E3-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	7.2	1000	BLACK
10W DALI LED BOLLARD													
CB10-A1C-20-B	COSHAM-10W-LED-AC-6000K-DALI-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1N-20-B	COSHAM-10W-LED-AC-4000K-DALI-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1W-20-B	COSHAM-10W-LED-AC-3000K-DALI-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	6.4	1000	BLACK
CB10-A1X-20-B	COSHAM-10W-LED-AC-2700K-DALI-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	6.4	1000	BLACK
10W DALI - DALI EMERGENCY LED BOLLARD													
CB10-A1C-21-B	COSHAM-10W-LED-AC-6000K-DALI-DALI/E3-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1N-21-B	COSHAM-10W-LED-AC-4000K-DALI-DALI/E3-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1W-21-B	COSHAM-10W-LED-AC-3000K-DALI-DALI/E3-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	7.2	1000	BLACK
CB10-A1X-21-B	COSHAM-10W-LED-AC-2700K-DALI-DALI/E3-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	7.2	1000	BLACK

(table continued overleaf)

Specifications (Continued)

Cosham 10W LED Bollard

Item Number	Description	Light Source	LED Rating (Lm)	Total System Power (cW)	CCT (K)	CRI	Voltage (VAC)	LED Drive Current (mA)	Luminaire Flux (Llm)	Luminaire Efficacy (Llm/cW)	Weight (Kg)	Height (mm)	Unit Colour
10W DALI - Mini PHOTOCELL LED BOLLARD													
CB10-A1C-24-B	COSHAM-10W-LED-AC-6000K-DALI-M/PHOTOCELL-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1N-24-B	COSHAM-10W-LED-AC-4000K-DALI-M/PHOTOCELL-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1W-24-B	COSHAM-10W-LED-AC-3000K-DALI-M/PHOTOCELL-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	6.4	1000	BLACK
CB10-A1X-24-B	COSHAM-10W-LED-AC-2700K-DALI-M/PHOTOCELL-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	6.4	1000	BLACK
10W DALI - Mini PHOTOCELL - DALI EMERGENCY LED BOLLARD													
CB10-A1C-30-B	COSHAM-10W-LED-AC-6000K-DALI-M/PHOTOCELL-DALI/E3-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1N-30-B	COSHAM-10W-LED-AC-4000K-DALI-M/PHOTOCELL-DALI/E3-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1W-30-B	COSHAM-10W-LED-AC-3000K-DALI-M/PHOTOCELL-DALI/E3-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	7.2	1000	BLACK
CB10-A1X-30-B	COSHAM-10W-LED-AC-2700K-DALI-M/PHOTOCELL-DALI/E3-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	7.2	1000	BLACK
10W DALI - PIR LED BOLLARD (30% ON / 100% ON VIA PRESENCE DETECTOR)													
CB10-A1C-33-B	COSHAM-10W-LED-AC-6000K-DALI-PIR-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1N-33-B	COSHAM-10W-LED-AC-4000K-DALI-PIR-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1W-33-B	COSHAM-10W-LED-AC-3000K-DALI-PIR-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	6.4	1000	BLACK
CB10-A1X-33-B	COSHAM-10W-LED-AC-2700K-DALI-PIR-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	6.4	1000	BLACK
10W DALI - PIR - DALI EMERGENCY LED BOLLARD (30% ON / 100% ON VIA PRESENCE DETECTOR)													
CB10-A1C-34-B	COSHAM-10W-LED-AC-6000K-DALI-PIR-DALI/E3-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1N-34-B	COSHAM-10W-LED-AC-4000K-DALI-PIR-DALI/E3-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	7.2	1000	BLACK
CB10-A1W-34-B	COSHAM-10W-LED-AC-3000K-DALI-PIR-DALI/E3-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	7.2	1000	BLACK
CB10-A1X-34-B	COSHAM-10W-LED-AC-2700K-DALI-PIR-DALI/E3-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	7.2	1000	BLACK
10W AstroDIM - Mini PHOTOCELL LED BOLLARD (100% ON / DIM TO 30% AT NIGHT MID POINT)													
CB10-A1C-64-B	COSHAM-10W-LED-AC-6000K-ASTRO-M/PHOTOCELL-BLACK	LED	1,511	10	6000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1N-64-B	COSHAM-10W-LED-AC-4000K-ASTRO-M/PHOTOCELL-BLACK	LED	1,511	10	4000K	RA>70	220-240	175	1,284	128	6.4	1000	BLACK
CB10-A1W-64-B	COSHAM-10W-LED-AC-3000K-ASTRO-M/PHOTOCELL-BLACK	LED	1,307	10	3000K	RA>80	220-240	175	1,111	111	6.4	1000	BLACK
CB10-A1X-64-B	COSHAM-10W-LED-AC-2700K-ASTRO-M/PHOTOCELL-BLACK	LED	1,265	10	2700K	RA>80	220-240	175	1,076	108	6.4	1000	BLACK
10W 110V LED BOLLARD													
CB10-A1C-80-B	COSHAM-10W-LED-AC-6000K-110V-BLACK	LED	1,511	10	6000K	RA>70	110	175	1,284	128	6.4	1000	BLACK
CB10-A1N-80-B	COSHAM-10W-LED-AC-4000K-110V-BLACK	LED	1,511	10	4000K	RA>70	110	175	1,284	128	6.4	1000	BLACK
CB10-A1W-80-B	COSHAM-10W-LED-AC-3000K-110V-BLACK	LED	1,307	10	3000K	RA>80	110	175	1,111	111	6.4	1000	BLACK
CB10-A1X-80-B	COSHAM-10W-LED-AC-2700K-110V-BLACK	LED	1,265	10	2700K	RA>80	110	175	1,076	108	6.4	1000	BLACK
10W 12V LED BOLLARD													
CB10-DAC-00-B	COSHAM-10W-LED-DC-6000K-12V-BLACK	LED	1,511	10	6000K	RA>70	12	175	1,284	128	6.4	1000	BLACK
CB10-DAN-00-B	COSHAM-10W-LED-DC-4000K-12V-BLACK	LED	1,511	10	4000K	RA>70	12	175	1,284	128	6.4	1000	BLACK
CB10-DAW-00-B	COSHAM-10W-LED-DC-3000K-12V-BLACK	LED	1,307	10	3000K	RA>80	12	175	1,111	111	6.4	1000	BLACK
CB10-DAX-00-B	COSHAM-10W-LED-DC-2700K-12V-BLACK	LED	1,265	10	2700K	RA>80	12	175	1,076	108	6.4	1000	BLACK

Legend:

Std = Standard. E3 = Emergency. M/Cell = Integral Mini Photocell. PIR = Integral PIR Sensor. DALI = DALI Driver. DALI/E3 = DALI Emergency. Astro = AstroDIM Driver. 110V = 110V Driver. 12V = 12V Driver. X = 2700K (Extra Warm White). W = 3000K (Warm White) . N = 4000K (Neutral White). C = 6000K (Cool White).

Options:

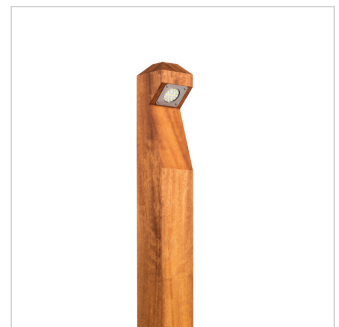
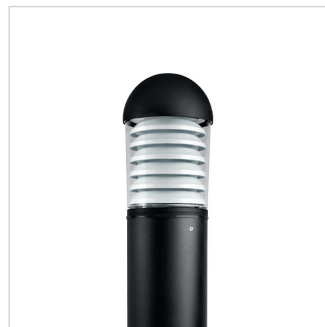
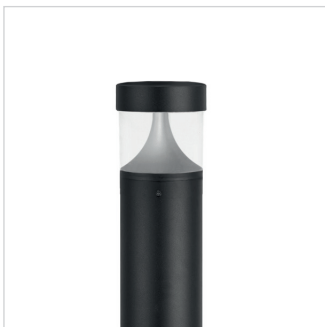
Small (Mini/Short 5Kg) Bollard = Change CB10 to CBS10.
Small (Mini/Short 5.25Kg) Bollard + Factory Fitted Spill Shield= Change CB10 to CBSH10.
AstroDIM = Default setting is 100% On / Dim to 30% at middle point of night.

Project Example



Looking for a Different LED Bollard?

We have a comprehensive collection of traditional, modern and architectural LED bollards, with a range of outputs on our website:
www.gemmalighting.com/led-bollard-lighting-manufacturer.



Disclaimer:

All figures +/-10% and specified at 25°C ambient unless stated. Due to constant product development and improvements, Gemma Lighting Ltd reserves the right to change specifications without prior notification or public announcement. Information correct at the time of publication; V250403.

Contact Us

Gemma Lighting Ltd,
Unit 3, Marshlands Spur, Farlington,
Portsmouth, Hampshire, UK, PO6 1RX.

www.gemmalighting.com



+44 (0) 2392 315 911