

## Bulkhead Lights, 110V

As part of our growing range of Low Energy 110V lighting products, sites can now significantly reduce the energy consumed to illuminate hoardings and scaffolding through our cost effective range of bulkhead lights and accessories.

### LED Bulkheads

Minimise running costs with our new 6W 110V LED bulkheads, with clear or red polycarbonate covers. Red LEDs are fitted in red bulkheads to avoid the “pink” appearance that often occurs when standard white LEDs are fitted beneath red diffusers.

The lumen output of the clear bulkhead is 580 lumens and the output of the red bulkhead is 180 lumens (the red is intended to mark a hazard or boundary and not provide general illumination). Please see page 2 for a generic hoarding light scheme based on our clear 6W LED bulkhead.

Pre-wired bulkheads mounted on brackets are also available, which significantly reduce installation time on site. Cable ties can be used with the bracket to secure bulkheads to scaffold or the bracket can be screw fixed to hoarding.

### Emergency LED Bulkhead

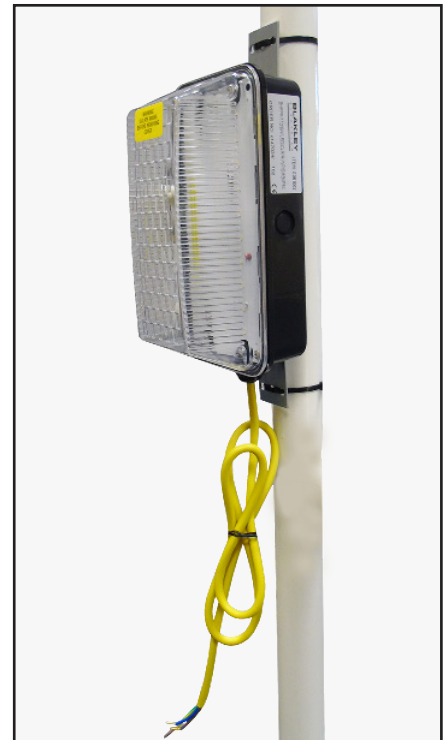
A clear bulkhead is also offered with a 6W LED array with integral 3 hour maintained emergency pack (the total consumption is 8W). The bulkhead has a 4 way incoming termination arrangement, providing the option of a switched supply to the LED display and an unswitched supply to the emergency module, enabling LED arrays to be switched OFF without discharging batteries. The emergency module can be converted on site to a non-maintained configuration. The light output in mains mode is 580 lumens and 320 lumens in emergency mode.

### Accessories

A range of accessories is available including metal guards, tee boxes and lamps for old style BC bulkheads (9W 110V BC LEDs).



LED bulkheads, red or clear polycarbonate cover

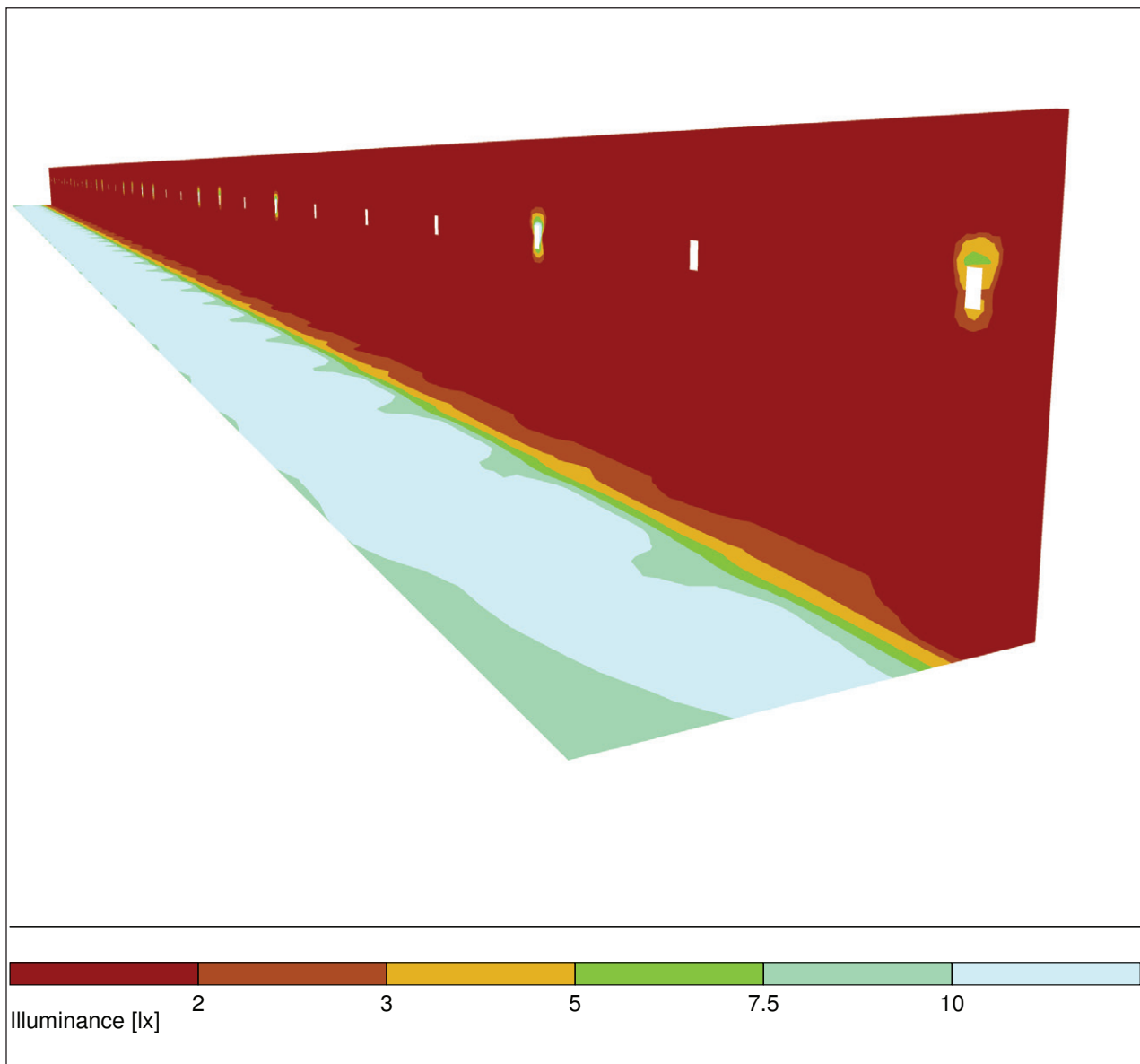


Pre-wired LED bulkhead with bracket (cable ties supplied separately)

Part Numbers for Bulkhead Fittings and Accessories	
Part No.	Description
S020465	LED bulkhead fitting, clear, 110V, 6W
S061062	As S020465 but pre-wired & with wall/scaffold bracket
S020466	LED bulkhead fitting, red, 110V, 6W
S061063	As S020466 but pre-wired & with wall/scaffold bracket
S020496	LED emergency bulkhead, clear, 8W, 3 hour maintained
S061064	As S020496 but pre-wired (4C) & with wall/scaffold bracket
S120329	LED lamp, BC, 9W, 110V for BC bulkheads
S070010	Steel guard for above LED bulkheads
S050480	Tee Box with 4 x 20mm knock-outs



S120329 9W BC LED lamp and S070010 metal guard



In the construction sector, bulkhead lights usually perform a dual purpose. Firstly to ensure hoarding and scaffolding are clearly visible to pedestrians and road users at night and, secondly, to supplement ambient light levels around these temporary structures. If higher levels of illumination are required in enclosed locations, alternative luminaires, such as anti-corrosive fittings, should be considered, as low cost, general purpose bulkheads are not intended to provide high levels of illumination.

The above scheme shows the illumination levels achieved at ground level by a Blakley S020465, clear, 6W LED, 110V bulkhead luminaire. The bulkheads are mounted at a height of 2m, at a spacing of 3m, fitted to a 100m run of hoarding alongside a pavement 3m in width. An average of 10 lux is achieved.

The average illumination levels at ground level, based on 3m spacing and a 2m mounting height but different pavement widths, are as follows:

Pavement width of 2m	-	Average illuminance = 9 lux
Pavement width of 3m	-	Average illuminance = 10 lux
Pavement width of 4m	-	Average illuminance = 9 lux
Pavement width of 5m	-	Average illuminance = 8 lux

All of the above results are based on zero ambient light, reflectance levels of 97% for the hoarding (wood painted white) and 47% for the floor / pavement (asphalt). A Maintenance Figure of 0.89 has been applied, which is calculated within Relux.