



COLLINGWOOD  
LIGHTING LTD

collingwoodlighting  
**fireLED™**



THE LED ALTERNATIVE TO GU10 AND  
MR16 DOWN LIGHTS

7 YEAR GUARANTEE

HIGHER LUMENS PER WATT THAN A  
50W DICHROIC

LIFE EXPECTANCY OVER 50,000 HRS  
UPTO X25 THAT OF A MR16 LAMP  
NO LAMP CHANGES REQUIRED

ZERO MAINTENANCE

STRAIGHT TO MAINS

FIRE-RATED TO 60 AND 90 MINUTES

VERY LOW POWER CONSUMPTION

LUXEON REBEL™ INSIDE



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## POWER SUPPLY

A built in 700ma LED Driver proves the perfect power. Its compact size allows for easy installation, as does the 20cm flying leads, plus the option to remove the flying leads if terminal connection is required.

## LED HEAT SINK

Collingwood's patent design allows the heat sink to remain in free air, FireLED can efficiently keep the LED chip cool ensuring long life and ultimate light output, unlike other fire rated LED fittings where the heat sink is enclosed in a fire cowl or fire hood.

## CEILING SPRINGS

Ceiling retaining springs are fully adjustable so that FireLED can be easily installed in almost all types of fire ceiling constructions, single, double or triple layer (12.5 to 38mm) ceiling construction.



## FIRE PROTECTION

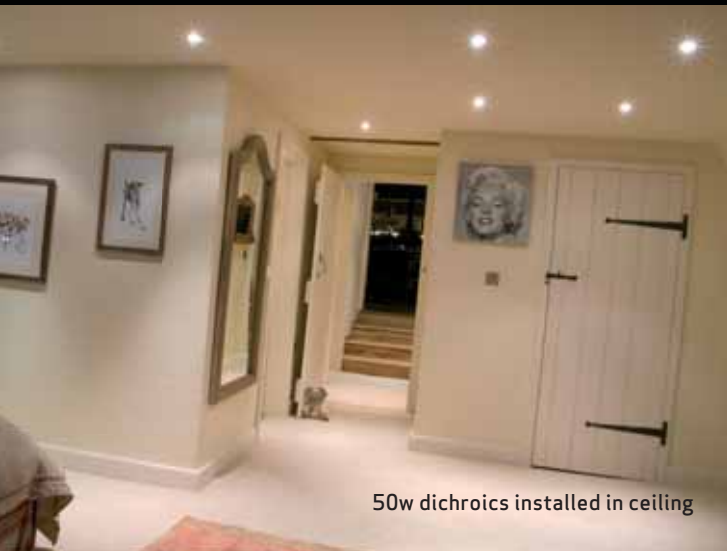
At the heart of FireLED's design is a steel fire cowl patent system for efficiently transferring heat from LED to heat sink, whilst ensuring that under fire conditions the fire rated ceiling is maintained for its full rated duration. No firehoods required, saving installation time and cost, but still ensuring optimum cooling for the LEDs.

## INSTALLATION

Being a one-piece design, FireLED™ is the easiest and most convenient means of installing downlights into a fire rated ceiling. The product dimensions have been specially designed to fit into a large range of fitting hole sizes, allowing easy replacement of existing low voltage or GU10 fittings.



FireLED™ installed in ceiling



50w dichroics installed in ceiling

## COMPLIANT

- PART B – FIRE SAFETY
- PART C – CONTAMINANTS AND MOISTURE PROTECTION
- PART E – ACOUSTIC RATING
- PART L – ENERGY CONSERVATION
- PART P – ELECTRICAL



FR 01031 F NW  
FR 03031 F NW  
IP65



FR 01011 F NW  
FR 03011 F NW



FR 01021 F NW  
(ADJUSTABLE)



## HALOGEN vs LED SAVINGS CALCULATOR

Current Bulb Wattage (W):	50w
Current Bulb Unit Cost (£):	£2.00
Utility Rate: (£)	£0.12
Number of Bulbs Currently In Use:	50
LED Replacement Lamp Wattage (W):	8w
Unit Cost of LED Lamps (£):	£77.00
Number of New LED(s) To Be Used:	50
Lifetime of LED Lamps (hours):	50,000
Average Hours of Daily Use (hours):	12

<b>SAVING RESULTS:</b>	
Investment for New LEDs Replacement (£):	£3,850.00
Current Electricity Cost Per Month (£):	£136.88
Electric Cost Using LED Per Month (£):	£21.90
Energy Saving Per Month (£):	£114.98
Total Energy Savings On Investment (£):	£13,797.00
Total Bulb Replacement Cost Savings (£):	£2,192.00
<b>PAYBACK IN YEARS:</b>	2.8
<b>SAVINGS WITH LED LAMPS(£):</b>	£15,989.00