

# Fred

## Fire-rated Downlight



### Meet Fred

Brave and solid, Fred is a fire-rated everyday hero

- Recessed IP65 fire-rated downlight, including white bezel and lens with 38° beam angle
- Highly efficient and economical downlight, fully fire-rated for 30, 60 & 90 minute ceilings
- Easily exchangeable bezels: swap white with chrome, satin chrome or bronze (available as accessories)
- Adapt the light distribution by exchanging the 38° lens with a 24°/45°/60° beam angle lens or a 15° wall wash optic (available as accessories)
- The fully detachable connector allows for first fix wiring and high voltage circuit testing whilst the luminaire is detached from the connector
- Tool free and fast wiring thanks to the press-fit terminal block enabling convenient loop-in loop-out
- Groove heatsink design for ideal dissipation of heat
- Integrated LED driver suitable for use with leading-edge dimmer switches from approved manufacturers
- Suitable for use in bathrooms
- Ideal one to one replacement for 35W halogen downlights and up to 90% energy saving



550 lumens at  
80 lm/W



50 000 hours  
lifetime



Dimmable



IP65 (from  
below):  
Dust tight  
and water  
resistant



Fully fire-  
rated for 30,  
60 and 90  
minute ceilings



3000 K  
warm white or  
4000 K  
neutral white

Ideal for...



Retail shops



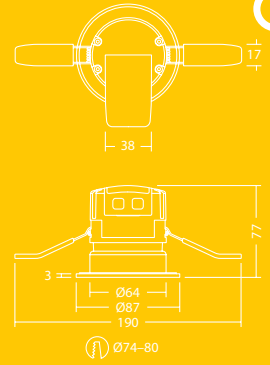
Schools and  
universities



Hotels

### Light source information

- 550 lm (7W); 80 lm/W
- Color temperature 3000K and 4000 K
- Life time 50 000 hours (@L70, Ta 25°C)
- CRI ≥ 80
- McAdam (initial): 6 step



## Cone diagram\*

Distance [m]	Cone Diameter [m]	Illuminance [lx]
0.5	0.45	E(0°) 2481
		E(C0) 24.1° 946
1.0	0.89	E(0°) 620
		E(C0) 24.1° 237
1.5	1.34	E(0°) 276
		E(C0) 24.1° 105
2.0	1.79	E(0°) 155
		E(C0) 24.1° 59
2.5	2.24	E(0°) 99
		E(C0) 24.1° 38
3.0	2.68	E(0°) 69
		E(C0) 24.1° 26

— C0 - C180 (Half-value Angle: 48.2°)

\* Cone diagram is showing the fitting with the 46° lens

## Ordering guide

Description	Wt (kg)	Cat. No.
FRED LED IP65 75 550 840	0.5	FR550Z4K
FRED LED IP65 75 550 830	0.5	FR550Z3K
<b>Accessories</b>		
FRED TRIM CHR		FRTRMC
FRED TRIM SAT		FRTRMSAC
FRED TRIM BRO		FRTRMBR
FRED TRIM GLOSSY WH		FRTRMGW
FRED TRIM MATT BLK		FRTRMB
FRED LENS 24°		FRLNS24
FRED LENS 46°		FRLNS46
FRED LENS 60°		FRLNS60
FRED LENS 15° WALL WASH		FRLNSWW
<b>Spare parts</b>		
FRED LENS 38°		FRLNS38
FRED TRIM MATT WH		FRTRMW

### Installation/Mounting

- Fred fire-rated downlight can be installed into a wide range of ceiling types.
- Mineral wool insulation can be placed directly over the top of the fitting

### Material/Finish

Body: Aluminum heat sink & steel housing  
 Bezel trim: Aluminum die-cast, white  
 Lens: PMMA  
 Cover: PC

### Specification

- Class II electrical
- IP65 (from below), IP20 (from above)
- IK04

www.thorn-eco.com



Five year warranty