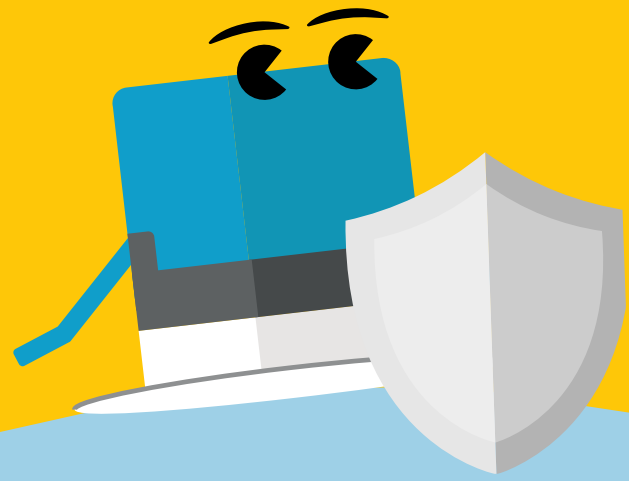


Fred

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° 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



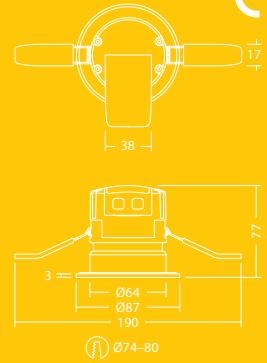
Schools and
universities



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
Accessories		
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 15° WALL WASH		FRLNSWW
Spare parts		
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.thorneco.com



Five year guarantee