LEDTEK®

Energy Saving LED

LED Fire Rated Dimmable Downlight

GUARANTEED 5 YEAR LONG LAMP LIFE

LEDTek is producing top quality light fittings and uses only the best parts and components, which combined create items of finest quality. Fire Rated Downlights give 90 minutes protection in the event of a fire. They ensure that the fire barrier offered by your ceiling   is not compromised   by the installation of downlights.

Features

- Integrated LED driver
- Adjustable driver position
- 2 position retaining clips
- Fire-Rated
- IP66 as standard
- Meets building regulations
- Various bezel colours and finishes
- Various lenses available
- Mains dimmable
- Flexible cut-out size
- Flying lead fitted
- Double insulated
- Soft start
- Fast return on investment

Benefits

- Straight to mains connection
- Flexibility during installation
- 6-35mm ceiling thickness
- Part B, C, E & L compliance
- For 30, 60 & 90 min ceilings
- Product fits all applications
- For all decorative requirements
- 92% efficient lens
- Wide spread of light
- 0-100% dimming control

- Fits a 64mm cut-out
- Reduced installation time
- No earthing required
- Brighter than an 50W Halogen
- Surpasses energy and efficacy requirements for part L
- 90% energy saving (non dim)
- Immediate cost saving
- Increased safety in vulnerable environments

Dimensions:

FRD12J — 300mm, 107mm, 87mm

FRD-BEZ — 7mm, 48mm, 87mm
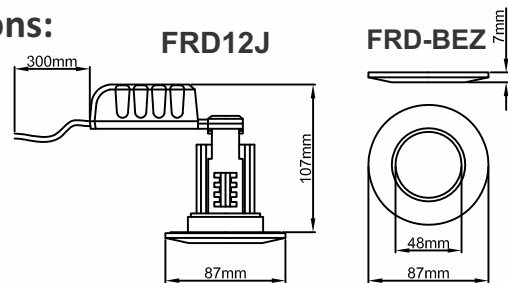
Colours available:	Warm White, Neutral White, Cool White
Power:	11W
Voltage:	85-265 VAC
Lumens:	WW - 700 lm; NW - 750 lm; CW - 800lm
Beam Angle:	50^0
Light Efficacy:	>60 lm/w
Colour Rendering Index (Ra):	>80
Power Factor:	>0.81
Dimmable:	Yes

Interchangeable Bezels & Lenses

Bezel Colour Available:
Premium White (gloss or polished), Polished Chrome, Brushed Chrome,Polished Brass, Brushed Brass, Matt Black, Piano Black (gloss or polished), Mocha, Graphite.
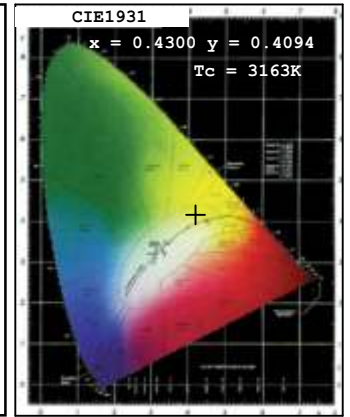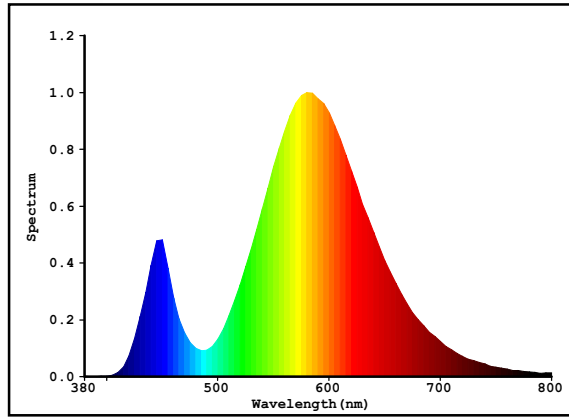
25 Deg SPOT

70 Deg

Lenses Available:

38 Deg FLOOD

50 Deg WIDE*

90 Deg
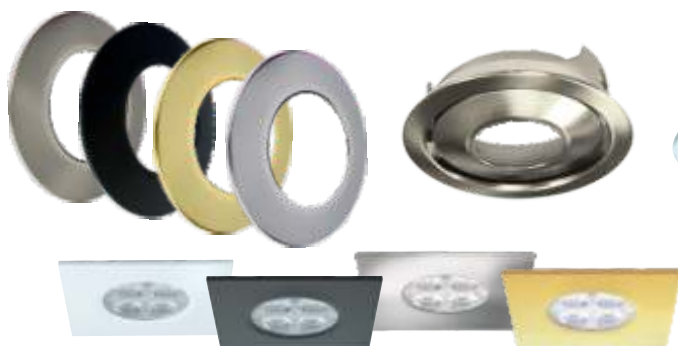
*50 Deg WIDE lenses in RGB and Yellow

LED Fire Rated Dimmable Downlight - WW

Spectrum Power Distribution Chart:

CIE1931
x = 0.4300 y = 0.4094
Tc = 3163K

Spectrum:		Electrical:	
λ (Peak WL):	580.0 nm	I(test):	0.05901 A
λ (Dominant WL):	581.0 nm	V(Positive):	240.1 V
λ (Centroid WL):	582.0 nm	Power:	12.17 W
BandWidth:	107.1 nm	Power Factor (PF):	0.8584
Colour Temp(Tc):	3163 K	Luminous Flux:	708.44 lm
Colour Coordinate (x,y):	x=0.4300 y=0.4094 (dx=0.0042; dy=0.0095)	Light Efficacy:	58.23 lm/w
Colour Coordinate (u',v'):	u'=0.2439 v'=0.5224 (duv=3.16e-03)	Render Index (Ra):	80.7
Colour Purity:	52.0%	R1 =82 R2 =77 R3 =86 R4 =72 R5 =79	
Light Power(Fe):	1.9590 W	R6 =84 R7 =80 R8 =86 R9 =15 R10 =54	
RGB Ratio:	R=20.3% G=78.3% B=1.4%	R11 =56 R12 =38 R13 =74 R14 =94 R15 =65	

LED Fire Rated Dimmable Downlight - CW

Spectrum Power Distribution Chart:

CIE1931
x = 0.3397 y = 0.3721
Tc = 5250K
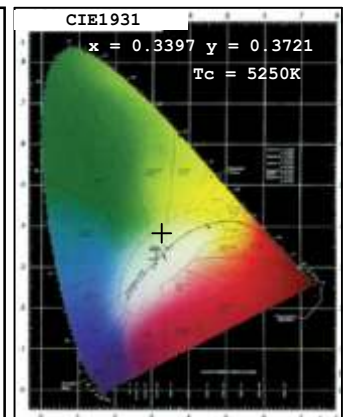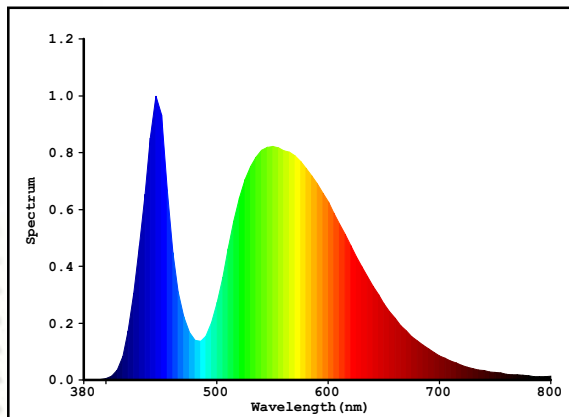
Spectrum:		Electrical:	
λ (Peak WL):	445.0 nm	I(test):	0.05821 A
λ (Dominant WL):	561.0 nm	V(Positive):	240.2 V
λ (Centroid WL):	552.0 nm	Power:	11.98 W
BandWidth:	28.1 nm	Power Factor (PF):	0.8567
Colour Temp(Tc):	5250 K	Luminous Flux:	794.52 lm
Colour Coordinate (x,y):	x=0.3397 y=0.3721 (dx=0.0012; dy=0.0259)	Light Efficacy:	66.33 lm/w
Colour Coordinate (u',v'):	u'=0.2002 v'=0.4935 (duv=1.21e-02)	Render Index (Ra):	80.3
Colour Purity:	13.6%	R 1 =79.4 R2 =84.8 R3 =88.1 R4 =79.8 R5 =78.1	
Light Power(Fe):	2.3195 W	R6 =77.3 R7 =81.5 R8 =56.3 R9 =3.5 R10 =83.5	
RGB Ratio:	R=13.8% G=83.7% B=2.5%	R11 =79.6 R12 =54.2 R13 =80.2 R14 =93.4 R15 =74.7	