

RICOMAN



TUNABLE WHITE
LED DOWNLIGHTS

CENTORIO



Fire rated IP65 dimmable downlight that changes colour temperature from warm to cool white. A wall switch can be used to change Kelvins between 3000K-4000K-5000K and dim down to night mode. A remote control is also available to smoothly dim and change from 3000K through to 5000K colour temperatures. Centorio is high quality aluminium, features an opal diffuser and comes with three different bezels to choose as standard.

R3



The epitome of a fire rated IP65 all-in one downlight. R3 gives user the freedom to choose between tunable or fixed colour temperature. A wall switch can be used to change colour temperature and dim the light. The same remote control as Centorio can also smoothly dim and change from 3000K through to 5000K colour temperatures. R3 offers an amazing variety of four different bezels suitable for a range of different decorative installations.



Designed for Human Centric Lighting

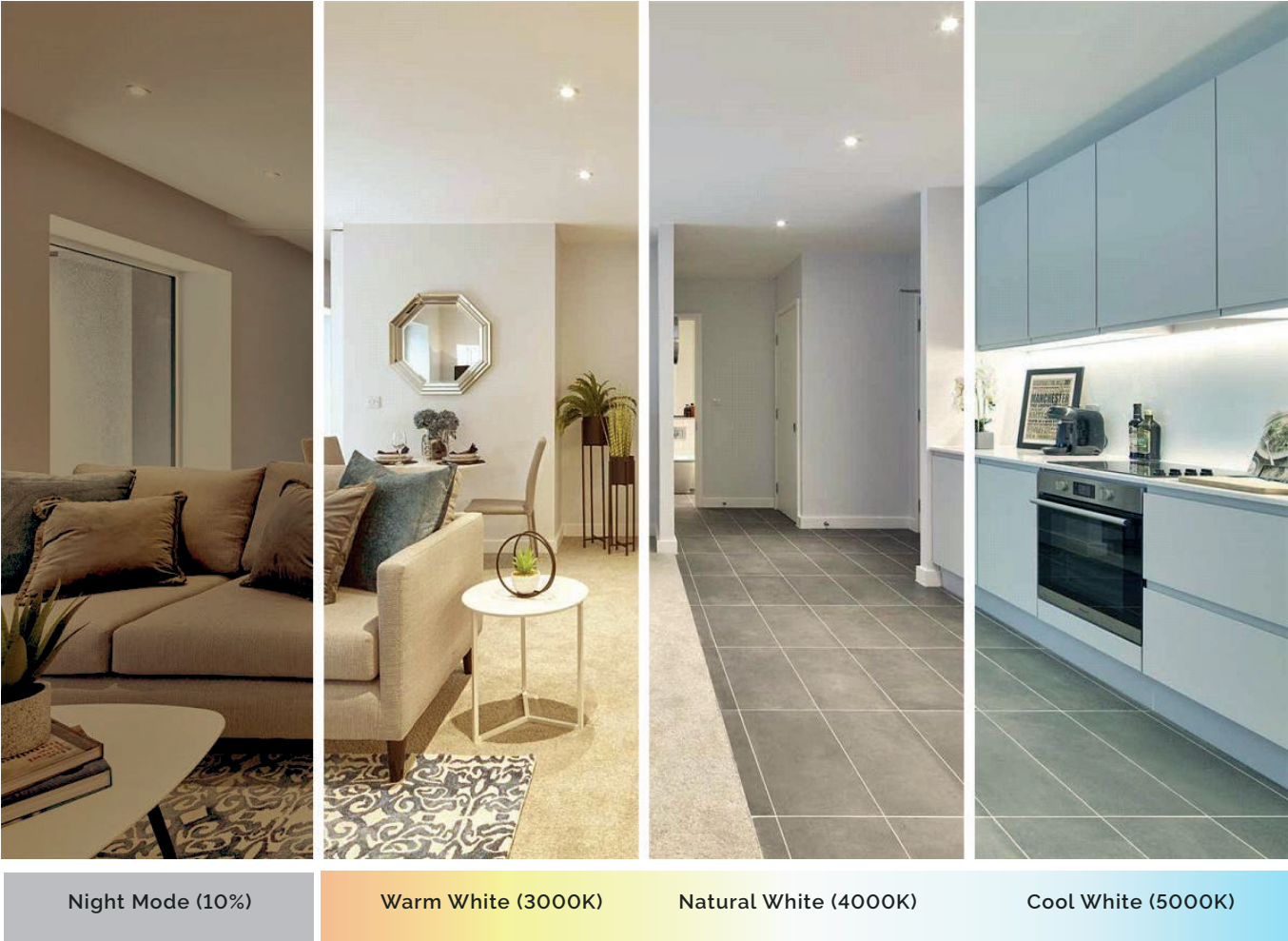
Circadian, also known as human centric lighting is the type of lighting that considers the circadian rhythm, which is the biological processes regulating the sleep-wake cycle in the human brain. A circadian lighting system is designed to be able to control the colour and intensity of the light during the day. For example, blue wavelengths that boost attention, are beneficial during daylight hours, but appear to be disruptive at night.

With RICOMAN's all in one downlights, the user can easily tune both the colour temperature (blue/yellow light) and the intensity of the light (dimming), adapting to the circadian rhythms.

There are a lot of benefits from applying the principles of circadian lighting both in a domestic and in a workplace environment:

- Improved sleep
- Improved mood
- Reduced hyperactivity
- Faster cognitive processing
- Reduction in errors and accidents
- Increased alertness in the morning
- Productivity and concentration improvements

Tunable White and Dimmable



Night Mode (10%)

Warm White (3000K)

Natural White (4000K)

Cool White (5000K)

Whether you prefer to operate R3 and Centorio via your standard existing wall switch or the dedicated RICOMAN remote control, it is the same user friendly:



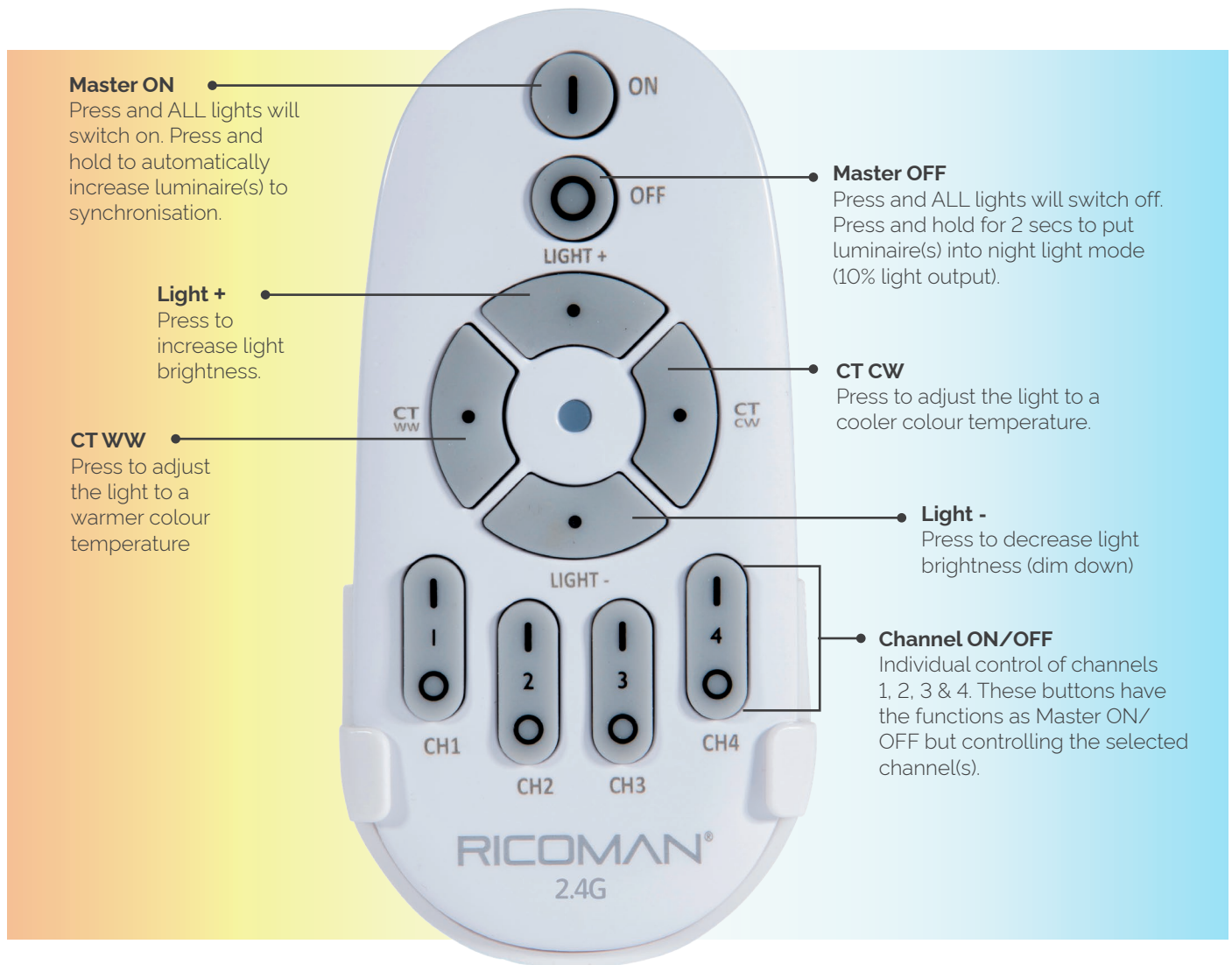
Turning the wall switch on/off in quick succession, will change the colour temperature and dimming. The cycle order is: 3000K, 4000K, night light and then 5000K.



Remote can control 400 downlighters in 4 individually switched circuits; up to 100 downlighters per channel from up to 15m. The control is easy to sync and operate.

Two Downlights, One Remote

Centorio and R3 Downlights share the same remote control to maximise options to the end user. Remote is easy to use and sync, coming with a wall mounted holder as standard.



To use with Centorio & R3 Downlights

Colour temperature range: 3000K-5000K

Dimming range 10% - 100%

Can operate up to 100 downlights per channel

4 channels available (4 rooms or 4 sections in a room)

Maximum sensing range 15 metres at 2.4GHz

Luminescent keypad

3-year warranty

Work



Relax



Tunable or Fixed Colour Temp

Centorio is tunable white as standard and R3 offers the choice for a tunable or switchable version to maximise possibilities and compatibility with users' systems and preferences.

CENTORIO

Tunable white



Beam Angle



LEDs by

EPISTAR

R3

Tunable white
OR
Fixed colour temp



Beam Angle



LEDs by

EPISTAR
(Tunable)

SAMSUNG

(Fixed Kelvin)



- Change colour temperature: 3000K | 4000K | 5000K
- Dim down to night mode (10%) -not intermediate stages



- Change colour temperature: 3000K- 5000K (all intermediate values)
- Smooth dim from 100% to nightmode (10%) - all intermediate values
- Group downlights and manage 4 separate groups



- Only compatible with R3 fixed Kelvin version (suffixes /3K and /4K)
- Smooth dimming 100%-0%



Robust. Reliable. Easy.

All in one downlights are fully fire rated and up to IP65 for peace of mind and compatibility with environments such as bathrooms and kitchens.



Centorio and R3 are both 30/60/90 min fire rated, designed to comply with the 2014 building regulations. Construction material ensures that flames won't enter the ceiling void, creating a complete barrier in the event of a fire. Both feature a TP(a) rated diffuser.



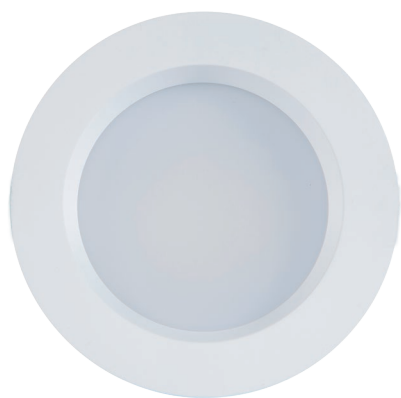
Centorio features an IP65 front and IP54 back. R3 downlight is fully IP65. Ingress protection makes the all in one downlights suitable for bathrooms and interior areas of high humidity.



Interchangeable Bezels

CENTORIO

White not removable bezel and two extra options included as standard with clip-on mechanism.



Polished
Chrome



Satin
Nickel

R3

White bezel as standard and three options to be ordered as add-ons. Easy magnetic clip-on mechanism.



Chrome



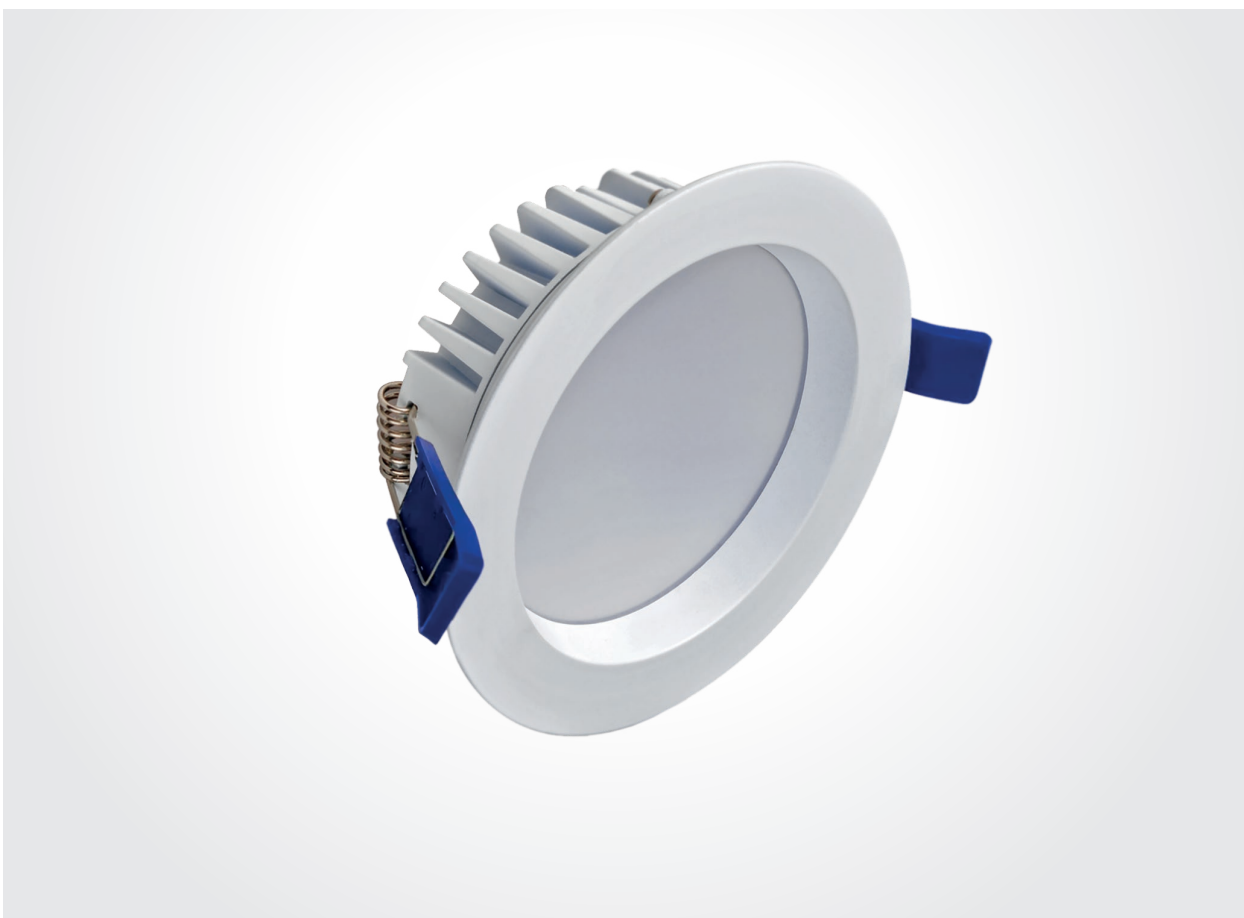
Brushed
Chrome



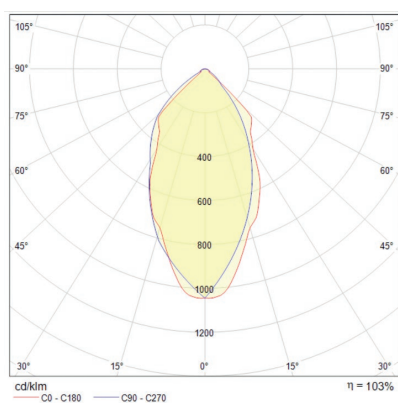
Black

Centorio

Technical standard specification



Light distribution



Key features

- Colour temperature changing: 3000K-5000K
- Control via standard on/off switch or optional remote – No APP required
- High energy savings with dimming down to 10% night mode
- 30/60/90 minute fire rated
- Fast and easy installation
- 12W delivering up to 960 lumens
- Versatile with easy click-on bezel mechanism
- All bezels included: white | polished chrome | satin nickel
- High ingress protection: IP65 front, IP54 back
- Standard emergency or remote control testing emergency available

Product

Part Code	R098802
Warranty	3 years
Applications	Interior
Certification(s)	UKCA, CE, RoHS

Physical

Colour Finish	White, polished chrome, satin nickel (all bezels included, white not removable)
Luminaire Fixing	Recessed
Construction Material	Die cast aluminium
Diffuser Type	Polycarbonate -TP(a) rated
Unit Weight (Kg)	0.26

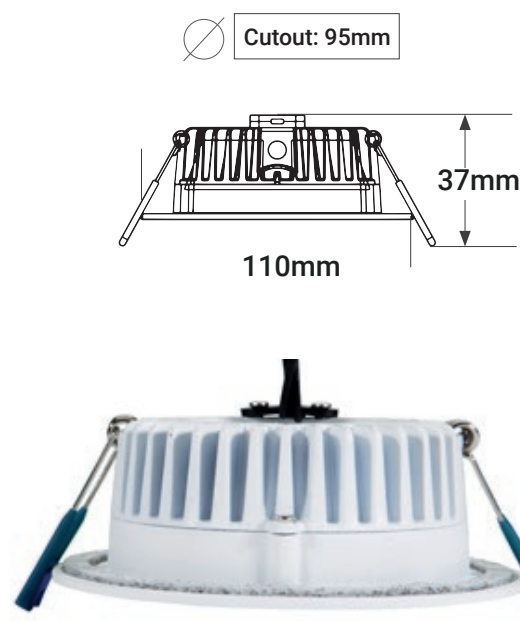
Electrical

Voltage Range	AC180-240V
Power Factor	>0.90
Inrush Current	<10A
Running Current	DC350mA
Protection Class IEC	Class II

Performance

Wattage	12W
Kelvin	3000K 4000K 5000K (with on/off switch) 3000K-5000K (with remote)
Lumens	840 (3000K) 860 (4000K) 960 (5000K)
Efficacy	~70-80 Lm/W
Dimming	Dimmable down to 10% (by wall switch or remote)
Operating Temperature	-20°C to +45°C (0°C to 40°C for emergency)
Beam Angle	80°
Operating Hours	>50000
CRI	>80 Ra
IP Rating	IP65 front IP54 back
IK Rating	IK08
Macadam Ellipse	≤4 sdc
L70 B50	70,000 hours
L80 B50	50,000 hours
L90 B50	25,000 hours

Dimensions



Add on items

Part Code

R09-882	R3 & Centorio Remote Control
R095-CB	Connection Plug and Socket
R10-03E(CN)	3h Emergency Pack
R10-03E(CN)/DDPRO	DALI Addressable Emergency Pack
R10-03E(SM)/Z10	Z10 Remote Control Emergency Kit (manual or advanced self-test)
R10-Z10	Z10 Emergency Remote Control

To specify

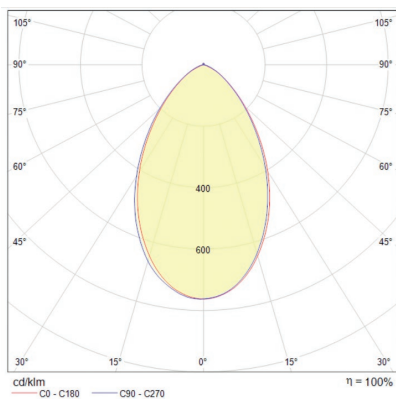
12W interior LED downlight tunable white colour temperature 3000K to 5000K, dimmable down to 10%. Available in white, polished chrome or satin nickel options – as RICOMAN's Centorio.

R3

Technical standard specification



Light distribution



Key features

- Option for tunable white 3000K-5000K or fixed colour temperature 4000K | 3000K
- Control via standard on/off switch or optional remote
- Easy to sync and use remote control
- High energy savings with dimming down to 10% night mode
- 30/60/90 minute fire rated with a TP(a) rated diffuser
- Fast and easy installation
- Magnetic clip-on bezel mechanism
- Excellent colour rendering index, CRI>90 Ra
- 6W delivering 591 lumens
- Lightly recessed optics for optimum glare control
- White finish as standard with additional bezels to choose from
- IP65 protection against humidity and dust

Product

Part Codes	R095601/TW (Tunable White) R095601/3K (3000K) R095601/4K (4000K)
Warranty	5 years
Applications	Interior
Certification(s)	UKCA, CE, RoHS

Physical

Colour Finish	White as standard, options as add-ons
Luminaire Fixing	Recessed
Construction Material	Die cast aluminium
Diffuser Type	Polycarbonate -TP(a) rated
Unit Weight (Kg)	0.35

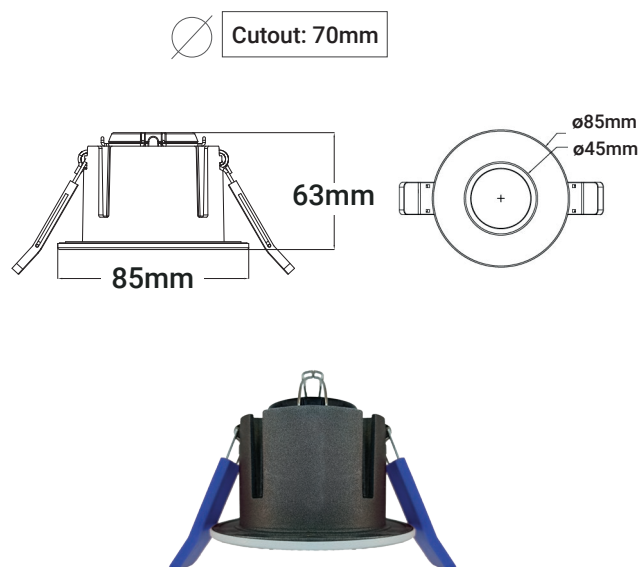
Electrical

Voltage Range	AC220-240V
Power Factor	>0.90
Inrush Current	<60A
Running Current	DC200mA
Protection Class IEC	Class II

Performance

Wattage	6W
Kelvin	Tunable: 3000K-5000K Fixed: 3000K 4000K
Lumens	591 (at 4000K)
Efficacy	~99 Lm/W
Dimming	Tunable White: Dimmable down to 10% (by wall switch or remote) Fixed Kelvin: mains dimmable
Operating Temperature	-20°C to +45°C (0°C to 40°C for emergency)
Beam Angle	55°
Operating Hours	>50000
CRI	>90 Ra
IP Rating	IP65
IK Rating	IK08
Tunable Fixed Kelvin	
Macadam Ellipse	≤4 sdcM ≤3 sdcM
L70 B50	70,000 hours 100,000 hours
L80 B50	50,000 hours 90,000 hours
L90 B50	25,000 hours 42,000 hours

Dimensions



Add on items

Part Code	
R095-01	R3 Chrome Bezel
R095-02	R3 Brushed Chrome Bezel
R095-03	R3 Black Bezel
R09-882	R3 & Centorio Remote Control
R10-03E(CN)	3h Emergency Pack (Tunable)
R10-03E(CN)/DDPRO	DALI Addressable Emergency Pack (Tunable)
R10-03E(SM)	3h Emergency Pack (Fixed Kelvin)
R10-03E(SM)/DDPRO	DALI Addressable Emergency Pack (Fixed Kelvin)



To specify

6W interior LED fire rated IP65 downlight tunable white 3000K to 5000K, or fixed colour temperature 3000K or 4000K, dimmable down to 10% via wall switch or remote control. Available in white, black, chrome, or brushed chrome options – as RICOMAN's R3.



R3 is the evolution of our popular R2 downlight that was used in a number of residential projects. Trinity, a luxury gated community complex situated in Manchester City Centre, was one of them. The all-in one downlight was ideal for all the room areas, combining an excellent design aesthetic with a proven long lifetime to reduce the frequency of replacement. Speak to one of our lighting designers to find out how we can transform your space.

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Notes



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www.ricoman.com