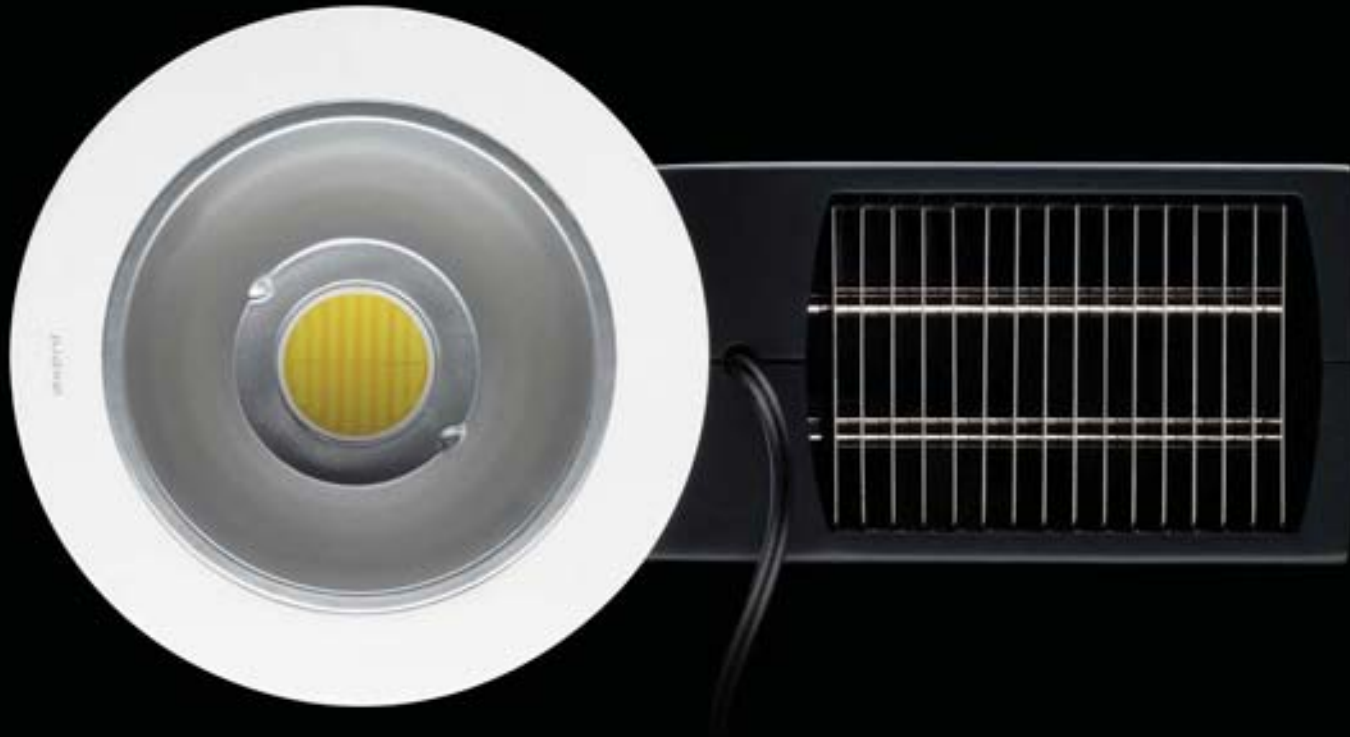


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RXD

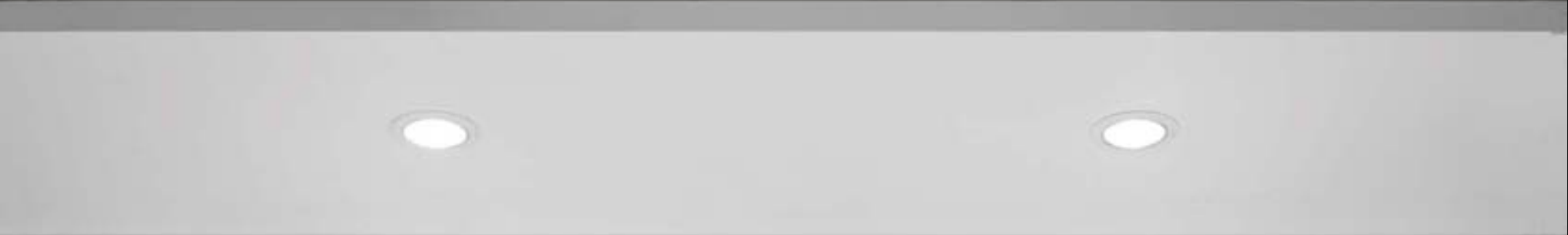
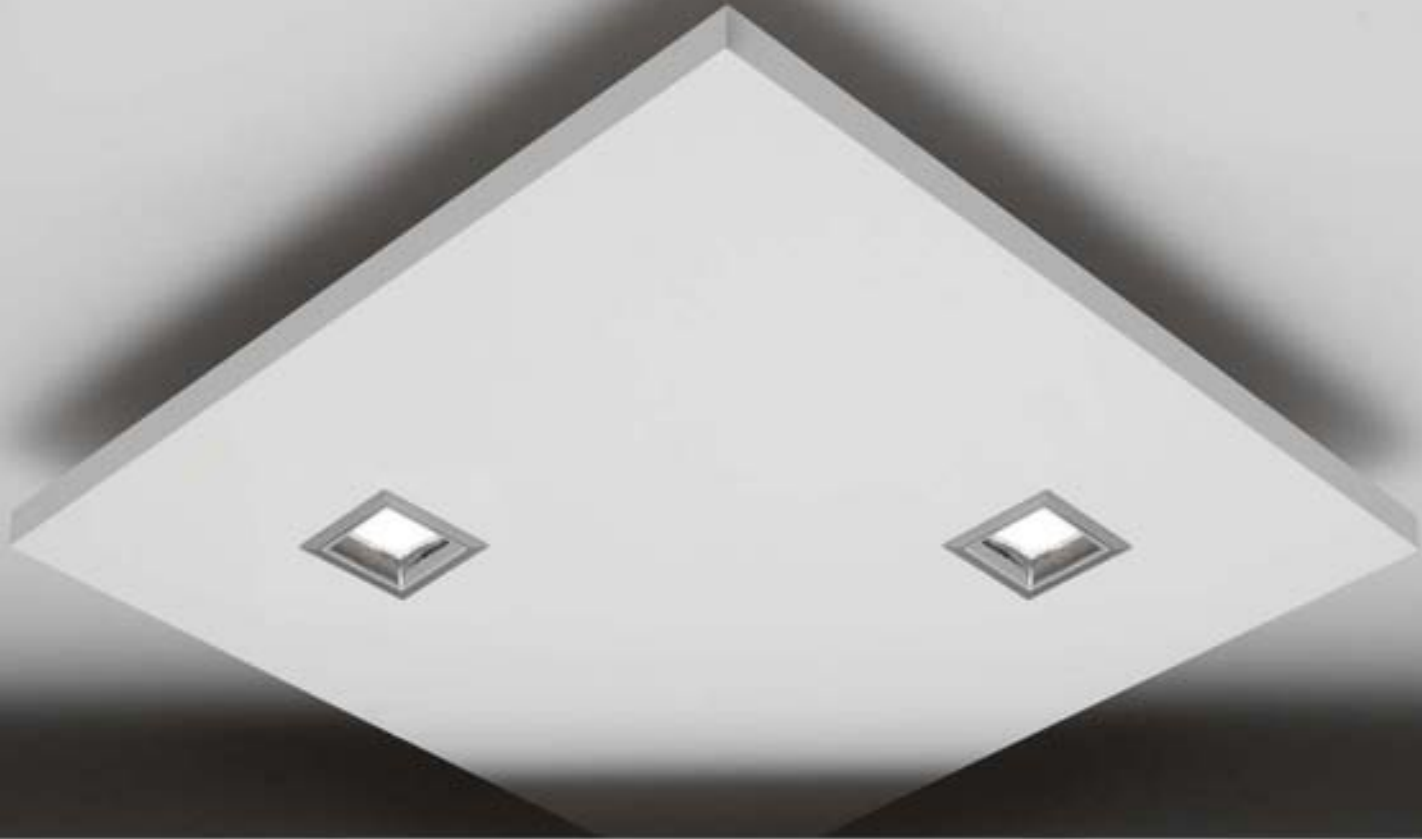




art and
science beautifully
combined...







Advanced LED technology

LED light sources have offered major advantages for some time - extremely long life, maintenance free reliability & significant energy saving. But these benefits have been typically restricted to decorative and ambient applications. The RXD's innovative design now breaks through this barrier.

Incorporating the very latest in LED technology - multichip LED's - the RXD now provides a new alternative to traditional fluorescent sources in commercial applications.

Unlike conventional high output LED's, multichip technology incorporates multiple LED's in one package providing increased light output in a smaller space and a wider spread of light. Available in 2900K warmwhite or 5000K coolwhite, each with a colour rendering index of over 80 CRI, the RXD breaks new boundaries to deliver high quality light and performance with the major advantage of low energy consumption and a maintenance free life.





Cool White

Warm White

Thermal Management

Obtaining optimum performance and long life from LED's requires accurate thermal management, i.e. the heat generated by the LED must be drawn away from it's junction.

In simple terms, the cooler the LED, the better the performance and life.

To generate the best from its LED, the RXD uses advanced heat pipe cooling technology compared to traditional heat sink methods.

Heat pipes work on the principle that as a liquid evaporates, energy - in the form of heat - must be taken from the environment. Therefore, an evaporating liquid will cool the surrounding area.

This is how the RXD's purpose designed liquid filled heat pipes draw and conduct the heat from the LED to the cooling fins. This advanced cooling method accurately maintains the thermal requirements of the LED without the need for large, heavy heat sinks.



Energy Saving

We're all looking to reduce energy consumption in an effort to combat both climate change and increasing energy costs. As lighting is one of the largest users of electricity in a typical building, efficiency improvements in our light sources will have a significant impact. The RXD now provides the solution.

Example

	RXD LED	2 x 26W CFL
Wattage (W)	37	57
Hours	50,000	50,000
Quantity	24	24
Total Kwh	44,400	68,400
Cost/Kwh	£0.06	£0.06
Total Energy Cost	£2,664	£4,104

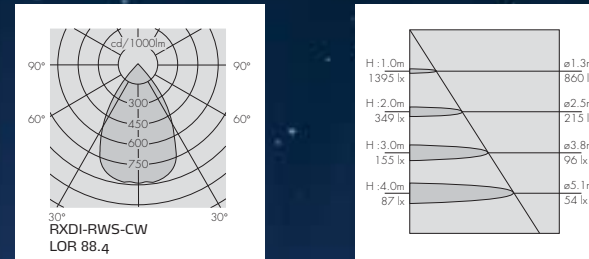
This equates to a through life energy saving of 24,000 Kwh, a total reduction of 35%.

Long Life

In terms of service life LED's are truly advanced. Over 70% of their initial light output is maintained after 50,000 hours compared to typically 10,000 hours practical life offered by fluorescent sources. This translates into significant cost reductions in through life maintenance.

Based on 10 hours use per day, the RXD will last maintenance free for 13.7 years. A 2x26W compact fluorescent will last only 2.7 years before lamp failure, therefore requiring 5 lamp changes in total to match the life performance of the RXD.

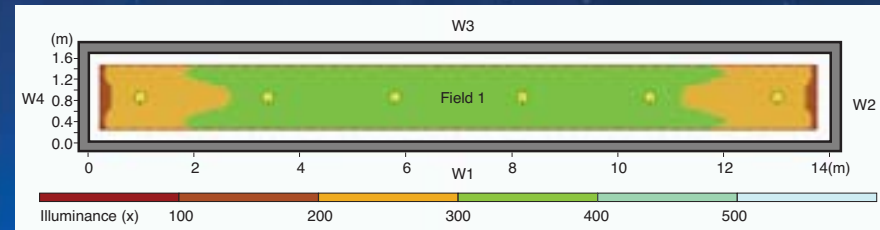
Photometric Data



Performance Comparison

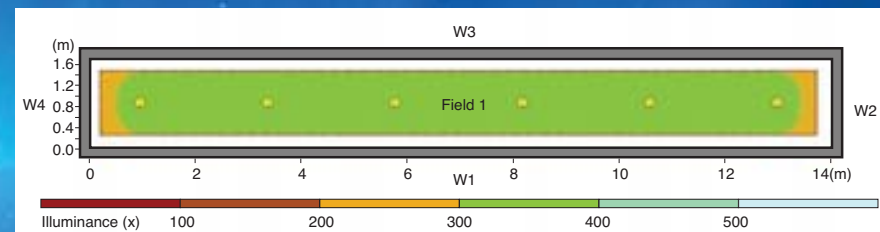
Corridor 1.7m x 14.0m x 2.8m, 70/50/20 reflectances

2 x 26W CFL Downlight, 0.8 Maintenance Factor



Eav 196lx
 Emin 139lx
 Emax 211lx
 Uniformity 0.71

RXD LED Downlight, 0.9 Maintenance Factor



Eav 222lx
 Emin 168lx
 Emax 214lx
 Uniformity 0.76

RXD

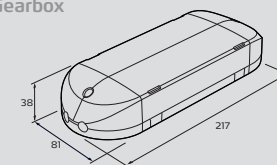
Catalogue Numbers

Colour temp	Bezel Finish				Weight (kg)
	White	Silver	Chrome	Trimless	
Round					
Coolwhite	RXD1-RWS-CW	RXD1-RSS-CW	RXD1-RCS-CW	RXD1-RTS-CW	0.5
Warmwhite	RXD1-RWS-WW	RXD1-RSS-WW	RXD1-RCS-WW	RXD1-RTS-WW	0.5
Square					
Coolwhite	RXD1-SWS-CW	RXD1-SSS-CW	RXD1-SCS-CW	RXD1-STS-CW	0.5
Warmwhite	RXD1-SWS-WW	RXD1-SSS-WW	RXD1-SCS-WW	RXD1-STS-WW	0.5

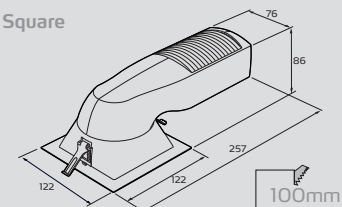


Dimensions (mm)

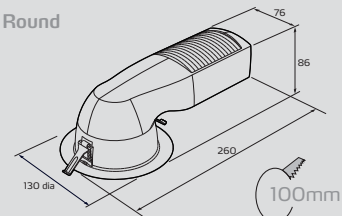
Gearbox



Square



Round



LED and Control Gear

1600 LED source lumens, 1414 luminaire lumens, 80 CRI

2900K Warm White or 5000K Coolwhite

37W total power consumption

240V supply voltage

Materials and Finish

Body - injection moulded fire retardant ABS, black finish

Ceiling clips - injection moulded fire retardant polycarbonate, black finish

Bezel - injection moulded fire retardant ABS

Bezel finish - RAL9016 White, RAL9006 Silver, Chrome plated

Reflector - injection moulded fire retardant ABS, satin finish

Installation

Shallow profile allows installation in ceiling voids as low as 110mm

Prewired remote gearbox provides ease of positioning in restricted voids

Gearbox and luminaire fit through ceiling cut out

Luminaire is securely retained by 2 toolless ratchet spring clips

Reflector simply clips in to place



Icon Explanation



Suitable for mounting on to normally combustible surfaces



Ingress protection code



Class I insulated - earth required

Conditions of sale

All goods supplied are subject to the company's general conditions of sale which are available on request.

Trade Descriptions

All descriptions represent only particulars of the goods to which they apply and do not form part of any contract. The company reserves the right to change specification without prior notification or public announcement.

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