



Redoubt 90

IP66

IP69

IP69K

IK16 (150J)

Linear

Class I

Surface

Transport

Redoubt 90 is a pit light, specifically designed for heavy duty maintenance pits within rail facilities.

Standard Colours

Stainless Steel Finish

- Product Information

Redoubt 90 has been carefully designed to minimise glare, by restricting the output based on the illuminous surface area, in order to comply with BS-EN 12464-1 (1000lm per 300cm²). Redoubt 90 has been tested to IP69K to ensure cleaning at high pressure and temperature.

Redoubt 90, at 895mm in length, has been constructed in a way that allows for it to be fixed between stanchions. Redoubt 90 provides uniform lighting for both the underside of vehicles and the pit floor, incorporating separate upward and downward illumination. With high levels of impact, ingress and chemical resistance, Redoubt 90 is designed to endure the harsh environments expected within this application.

Rail applications include illuminating sunken, heavy duty maintenance pits within rail maintenance facilities.

This luminaire is designed for longevity and sustainability and adheres to our circular design principles. We conduct a circular economy assessment using [TM66](#) and measure embodied carbon (kgCO₂e) in accordance with [TM65.2](#).

Impact Resistance Rating: IK16 (150J). [What is IK Rating?](#)

Ingress Protection Rating: IP66, IP69, IP69K. [What is IP Rating?](#)

Housing: Marine grade stainless steel body.

Paint: N/A.

Diffuser: Flush clear polycarbonate, with glare reduction film.

Driver: Electronic control gear on a removable tray for ease of repair/upgrade with fused plug & socket connector block.

Mounting: Wall.

Cable Entry: Supplied with flying lead.

Design Life: 30+ years. [What is Design Life?](#)

■ **Technical Information**

Redoubt90	Output (Lum/lm)	Load (W)	Efficacy (lm/W)	CCT (K)
L895mm				
RDT-3-1400N-SF	1419	12	118	4000
	Weight (kg)	CRI	High Temp (°C)	LED Lifetime
	12.8	CRI>80	-	L ₉₀ B ₁₀ >72,000h
	Driver lifetime (up to hours)	LED Energy Rating	Emergency Output (Lum/lm)	Nightlight Output (Lum/lm)
	100,000	B	327	-
Dimensions				
895mm x 281mm x 114mm				
RDT-3-3500N-SF	3442	26.2	131	4000
	Weight (kg)	CRI	High Temp (°C)	LED Lifetime
	12.8	CRI>80	-	L ₉₀ B ₁₀ >72,000h
	Driver lifetime (up to hours)	LED Energy Rating	Emergency Output (Lum/lm)	Nightlight Output (Lum/lm)
	100,000	B	327	-
Dimensions				
895mm x 281mm x 114mm				

■ Fitting Options

Microwave Sensor - Basic	-M1
Emergency Lithium	-EL
Emergency Lithium, Self Test	-EJ
Emergency Lithium DALI	-EK
Stainless Steel Finish	-SF
DALI-2 Dimming / Monitoring	-DA

- Remote control for Basic MWS -M1, order code : HRC-05.

