



## Redoubt 100

IP66

IP69

IP69K

IK16 (150J)

Linear

Class I

Surface

Transport

Redoubt 100 is a pit light, specifically designed for heavy duty maintenance pits within rail facilities.

Standard Colours

Stainless Steel Finish

### - Product Information

Redoubt 100 incorporates separate upward and downward illumination ensuring uniform lighting for both the underside of vehicles and the pit floor.

Redoubt 100 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 300cm<sup>2</sup>). Redoubt 100 has been tested to IP69K to ensure cleaning at high pressure and temperature.

Redoubt 100's unique shape helps minimise the risk of injury by minimising the protrusion into pit and by deflecting falling objects downwards. With high levels of impact and ingress resistance, Redoubt 100 is designed to endure the harsh environments expected within rail maintenance pits.

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 (kgCO<sub>2</sub>e) 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**

Redoubt100	Output (Lum/lm)	Load (W)	Efficacy (lm/W)	CCT (K)
<b>L1050mm</b>				
RDT-4-1400N-SF	1419	12	118	4000
	<b>Weight (kg)</b>	<b>CRI</b>	<b>High Temp (°C)</b>	<b>LED Lifetime</b>
	13.5	CRI>80	-	L <sub>90</sub> B <sub>10</sub> >72,000h
	<b>Driver lifetime (up to hours)</b>	<b>LED Energy Rating</b>	<b>Emergency Output (Lum/lm)</b>	<b>Nightlight Output (Lum/lm)</b>
	100,000	B	327	-
<b>Dimensions</b>				
1051mm x 281mm x 114mm				
RDT-4-3500N-SF	3442	26.2	131	4000
	<b>Weight (kg)</b>	<b>CRI</b>	<b>High Temp (°C)</b>	<b>LED Lifetime</b>
	13.5	CRI>80	-	L <sub>90</sub> B <sub>10</sub> >72,000h
	<b>Driver lifetime (up to hours)</b>	<b>LED Energy Rating</b>	<b>Emergency Output (Lum/lm)</b>	<b>Nightlight Output (Lum/lm)</b>
	100,000	B	327	-
<b>Dimensions</b>				
1051mm 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.

