



Abrams AL

IP65

IK16 (150J)

Linear

Class I

Surface

HT50°C

TM65/66

Custodial

Secure Healthcare

Abrams AL is a ligature resistant luminaire designed for challenging environments including custodial facilities and secure healthcare.

Standard Colours

Textured White

- Product Information

Abrams AL provides uniform light distribution and incorporates a removable, easy to maintain LED gear tray.

Abrams AL is designed to minimise the risk of self-harm or injury by preventing the attachment of ligatures. It is HMPPS “safer cell” approved and features a patented ‘sandwiched’ diffuser design, compliant with burns testing regulations, for additional peace of mind.

Applications include prison en-suites and showers plus association and communal areas. Abrams AL is also an ideal solution for police stations and law courts.

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). [Learn More.](#)

Ingress Protection Rating: IP65. [Learn More.](#)

Housing: Zinc coated steel body.

Paint: Polyester powder coat. [All Colour Options Available Here.](#)

Diffuser: Composite polycarbonate diffuser in frame secured with tamperproof screws.

Driver: Electronic control gear on a removable tray for ease of repair/upgrade with fused plug & socket connector block. 3 level switching & night light for versions 1025mm and 1325mm.

Mounting: Ceiling.

Cable Entry: Provision for conduit entry in the back.

Design Life: 30+ years. [Learn More.](#)

▪ **Technical Information**

| AbramsAL | Output (Lum/lm) | Load (W) | Efficacy (lm/W) | CCT (K) |
|-------------------------|--------------------------------------|--------------------------|----------------------------------|---|
| L430mm | | | | |
| D224-1-2500W-P-TW | 2004 | 23.6 | 85 | 3000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 5 | CRI>80 | 50 | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | C | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |
| <hr/> | | | | |
| D224-1-2500N-P-TW | 2109 | 23.6 | 89 | 4000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 5 | CRI>80 | 50 | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | B | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |
| <hr/> | | | | |
| L730mm | | | | |
| D224-2-4000W-P-TW | 2906 | 31.8 | 92 | 3000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 8 | CRI>80 | - | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | C | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |
| <hr/> | | | | |
| D224-2-4000N-P-TW | 3059 | 31.8 | 96 | 4000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 8 | CRI>80 | - | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | B | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |
| <hr/> | | | | |
| L1025mm | | | | |
| D224-3-3400W-P-TW-SE-NL | 3416 | 35.7 | 96 | 3000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 13 | CRI>80 | - | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | C | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |

| AbramsAL | Output (Lum/lm) | Load (W) | Efficacy (lm/W) | CCT (K) |
|-------------------------|-------------------------------|-------------------|---------------------------|---|
| L1025mm | | | | |
| D224-3-3400N-P-TW-SE-NL | 3596 | 35.7 | 101 | 4000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 13 | CRI>80 | - | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | B | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |
| L1325mm | | | | |
| D224-4-6000W-P-TW-SE-NL | 5035 | 54.2 | 93 | 3000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 14 | CRI>80 | - | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | C | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |
| D224-4-6000N-P-TW-SE-NL | 5300 | 54.2 | 98 | 4000 |
| | Weight (kg) | CRI | High Temp (°C) | LED Lifetime |
| | 14 | CRI>80 | - | L ₈₀ B ₁₀₀ >72,000h |
| | Driver lifetime (up to hours) | LED Energy Rating | Emergency Output (Lum/lm) | Nightlight Output (Lum/lm) |
| | 100,000 | B | - | 210 |
| | Dimensions | | | |
| | 200mm x 95mm | | | |

Fitting Options

Textured White

-TW

- For night light LED energy efficiency class D, LED Lifetime L B >100,000h at 25 C ambient and Driver Lifetime up to 50,000h at 25 C ambient.

