

LED Downlights

LDE3 Range

Where projects require the advantages of low energy/long life LEDs packaged in standard downlight products for plasterboard ceilings and ceiling tiles the **LDE3** range is the ideal choice. The **LDE3** downlights (silver or white thermally conductive plastic) are installed using spring clips into a 45mm diameter cut-out.

The **LDE3** range offers four distribution types.

LDE3/HL (HIGH LEVEL-HL)

The **LDE3/HL** downlight offers a narrow angle beam ideal for illumination of escapes and open areas from very high mounting heights e.g. above 5m. At 700mA the **LDE3/HL** can provide illuminance of 10.76Lux from a mounting height of 11m (typical requirement for areas having to meet USA 1foot candle level).

LDE3/105 (MEDIUM BEAM)

The **LDE3/105** downlight offers a Medium beam (105 degree) lens configuration ideal for illumination of open areas with mounting heights of typically 5 to 10m.

LDE3/WIDE (WIDE BEAM)

The **LDE3/WIDE** downlight offers a Wide beam (160 degree) lens configuration ideal for illumination of open areas with mounting heights of typically 2 to 5m.

LDE3/C ('CORRIDOR' BEAM)

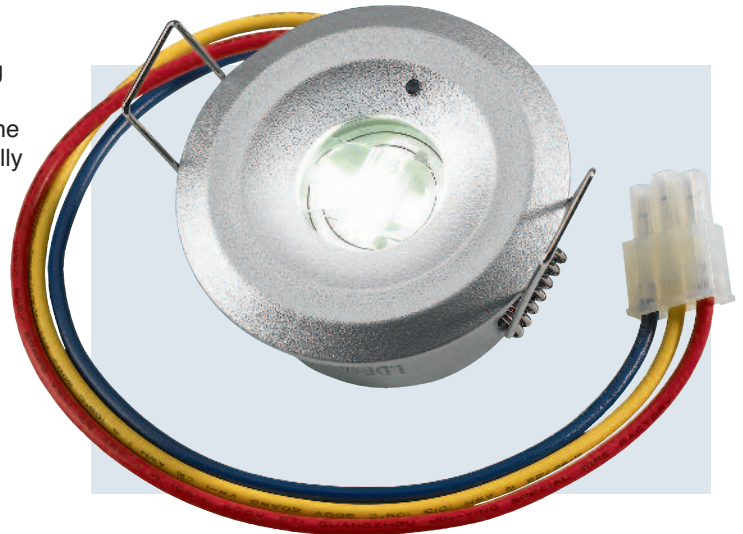
The **LDE3/C** downlight offers a dissymmetric lens providing a narrow beam across the width of a corridor and extremely wide (batwing) distribution along the length of the corridor.

For emergency lighting applications (including SelfTest /DALI projects) all **LDE3** downlights offer a **/D** version which incorporates a 1mm green/red bi-colour indicator.

The **LDE3** downlights may be powered from constant current drivers at 350mA, 500mA or 700mA in emergency mode as required to produce the desired lumen output to suit the application. The highest efficiency is achieved at 350mA (typically 135lm/W).

NB: The most popular 'standard' emergency driver pack is the **LDCK330/40**.

This comprises a onepiece housing for the emergency driver and high temperature NiCd battery and easily passes through the cutout required to mount the **LDE3**.



LDE3/105/E3/SL Silver Downlight



LDE3/C/E3/SL Silver Downlight



LDCK330/40 complete kit with LDE3

LED Downlights

Typical Emergency Lighting Spacings for LDE3 Downlights

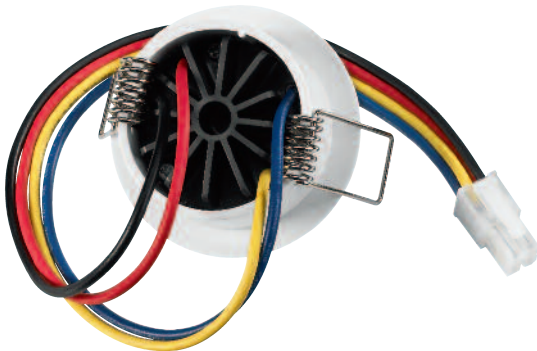
Mounting height Hm (m)	LDE3/HL @ 700mA		LDE3/105 @ 500mA		LDE3/WIDE @ 500mA		LDE3/C @ 500mA	
	Spacing (m) min 0.5Lux open area	Spacing (m) min 1Lux escape	Spacing (m) min 0.5Lux open area	Spacing (m) min 1Lux escape	Spacing (m) min 0.5Lux open area	Spacing (m) min 1Lux escape	Spacing (m) min 0.5Lux open area	Spacing (m) min 1Lux escape
2.0	n/a	n/a	7.0	6.4	12.2	11.2	n/a	10.0
2.5	n/a	n/a	7.9	7.7	13.8	11.9	n/a	11.8
3.0	n/a	n/a	9.3	8.8	12.9	11.0	n/a	13.6
3.5	n/a	n/a	11.9	9.8	11.9	10.8	n/a	14.5
4.0	9.4	7.6	13.2	10.8	11.4	10.0	n/a	15.5
6.0	10.0	7.7	11.8	11.6	7.8	7.7	n/a	17.1
8.0	10.2	8.8	10.5	10.5	n/a	n/a	n/a	n/a
11.0	10.3	10.8	n/a	n/a	n/a	n/a	n/a	n/a
12.0	10.6	11.4	n/a	n/a	n/a	n/a	n/a	n/a
14.0	11.4	11.8	n/a	n/a	n/a	n/a	n/a	n/a
16.0	12.2	13.0	n/a	n/a	n/a	n/a	n/a	n/a



NB: Full photometry for all versions is available upon request

LDE3/HL

Peak illuminance at 11m = 10.76Lux
(Equal to USA typical requirement for areas to meet 1foot candle level).



ORDER CODES

Description

LDE3/HL/WH	Narrow beam/High Level; White body
LDE3/105/WH	Medium beam; White body
LDE3/WIDE/WH	Wide beam; White body
LDE3/C/WH	Corridor lens; White body

Suffix for Options:

/SL	Silver body
/D	For emergency operation — integral green/red indicator (4-wire connection)

NB: All versions suitable for intermittent operation with typical outputs of:-

- 350mA (140lumens)
- 500mA (190lumens)
- 700mA (250lumens)

See LDC emergency driver section for suitable emergency lighting packs

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