

LDE3F and Banana Pack

Where projects require the advantages of low energy/long life LEDs packaged in standard downlight products for plasterboard ceilings and ceiling tiles the **LDE3F** range is the ideal choice. The **LDE3F** downlights (white or black thermally conductive plastic) are installed using spring clips into a 45mm diameter cut-out.

The **LDE3F** range can be supplied with the **Banana Pack** in-line DALI emergency driver kit which can pass through the cut-out into the ceiling void (minimum void depth 100mm).

LDE3F/W (WIDE BEAM)

The **LDE3F/W** downlight offers a Wide beam (160 degree) lens configuration ideal for illumination of open areas with mounting heights of typically 2 to 5m.

LDE3F/C ('CORRIDOR' BEAM)

The **LDE3F/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.

LDE3F/HL (HIGH LEVEL / MEDIUM BEAM)

The **LDE3F/HL** downlight offers a medium beam ideal for higher mounting heights of typically 6 to 12m or lighting high risk tasks.

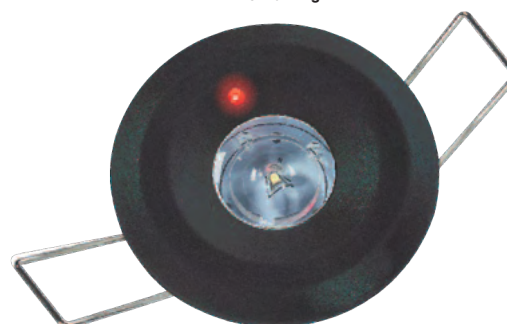
NB: it is often an advantage to use higher operating currents for this lens – See *Power Supplies in LDE3F and LDI3/18 Data Sheet*.

The ideal DALI emergency driver pack is the **Banana Pack**. This comprises a one piece housing for the emergency driver and either a 1 or 2 cell high temperature LiFePO₄ battery and easily passes through the cut out required to mount the **LDE3F**. When the normal mains supply fails the **Banana Pack** powers the **LDE3F** downlight for 3 hours.

The **Banana Pack** has Class II insulation, an extra low voltage output and features double insulated wires to the downlight to provide additional mechanical protection.



LDE3F/WID/D/WH
White Downlight



LDE3F/WID/D/BL
Black Downlight
(DALI red 'fault' indication)



Banana Pack complete kit with LDE3F



Banana Pack rolls neatly through 45mm diameter ceiling tile cut-out.

NOTE: **Banana Pack** with **LDE3F** downlights can be equipped with **SurePath BLE** Bluetooth addressable Gateway modules. See *Data Sheet*.

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LED Downlight and emergency kit

LDE3F and Banana Pack

SPECIFICATION

	1-cell	2-cell
Light source	Nichia white LED	Nichia white LED
Colour temperature	4500K	4500K
Lumens (emergency)	150lm	290lm
IP rating	IP42 front IP20 back of lamp and banana pack	IP42 front IP20 back of lamp and banana pack
Ambient temperature (Ta)	0°C to 40°C	0°C to 40°C
Insulation class	Class II	Class II
Supply voltage	230V ~ 50Hz	230V ~ 50Hz
Supply power	4W	4W
Battery	3.2V 1.8Ah LiFePO ₄	6.4V 1.8Ah LiFePO ₄
Dimensions	Ø260mm x 32mm(H) Cut-out Ø45mm	Ø260mm x 32mm(H) Cut-out Ø45mm
Minimum void depth	100mm	100mm

Typical Emergency Lighting Spacings for LDE3F Downlights connected to a 1-cell Banana Pack emergency driver pack

	LDE3F/W @ 330mA		LDE3F/C @ 330mA		LDE3F/HL @ 330mA	
Mounting height Hm (m)	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	12.5	12.5	n/a	14.2	n/a	n/a
2.5	13.4	12.2	n/a	15.5	n/a	n/a
3.0	13.2	11.6	n/a	16.6	n/a	n/a
3.5	12.9	10.9	n/a	17.5	n/a	n/a
4.0	12.3	10.2	n/a	17.7	n/a	n/a

Typical Emergency Lighting Spacings for LDE3F Downlights connected to a 2-cell Banana Pack emergency driver pack

	LDE3F/W @ 670mA		LDE3F/C @ 670mA		LDE3F/HL @ 670mA	
Mounting height Hm (m)	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	12.5	12.5	n/a	14.2	n/a	n/a
2.5	13.4	12.2	n/a	15.5	n/a	n/a
3.0	13.2	11.6	n/a	16.6	n/a	n/a
3.5	12.9	10.9	n/a	17.5	n/a	n/a
4.0	12.3	10.2	n/a	17.7	n/a	n/a
6.0	n/a	4.0	n/a	18.0	5.2	n/a
8.0	n/a	n/a	n/a	16.7	7.3	n/a
10.0	n/a	n/a	n/a	14.0	8.9	n/a
12.0	n/a	n/a	n/a	n/a	10.1	n/a

NB: Full .LDT photometry files available upon request

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LDE3F and Banana Pack - 1-cell

ORDER CODES	Description
BAN1/LDE3F/MT/WW	Manual-test Emergency 1-cell driver pack with Wide beam downlight; White body
BAN1/LDE3F/MT/CW	Manual-test Emergency 1-cell driver pack with Corridor beam downlight; White body
BAN1/LDE3F/MT/HW	Manual-test Emergency 1-cell driver pack with High-level beam downlight; White body
BAN1/LDE3F/MT/WB	Manual-test Emergency 1-cell driver pack with Wide beam downlight; Black body
BAN1/LDE3F/MT/CB	Manual-test Emergency 1-cell driver pack with Corridor beam downlight; Black body
BAN1/LDE3F/MT/HB	Manual-test Emergency 1-cell driver pack with High-level beam downlight; Black body
BAN1/LDE3F/D/WW	DALI Emergency 1-cell driver pack with Wide beam downlight; White body
BAN1/LDE3F/D/CW	DALI Emergency 1-cell driver pack with Corridor beam downlight; White body
BAN1/LDE3F/D/HW	DALI Emergency 1-cell driver pack with High-level beam downlight; White body
BAN1/LDE3F/D/WB	DALI Emergency 1-cell driver pack with Wide beam downlight; Black body
BAN1/LDE3F/D/CB	DALI Emergency 1-cell driver pack with Corridor beam downlight; Black body
BAN1/LDE3F/D/HB	DALI Emergency 1-cell driver pack with High-level beam downlight; Black body
OPTIONS:	/BLE Wireless DALI emergency

NB: Suitable for intermittent operation.

LDE3F and Banana Pack - 2-cell

ORDER CODES	Description
BAN/LDE3F/MT/WW	Manual-test Emergency 2-cell driver pack with Wide beam downlight; White body
BAN/LDE3F/MT/CW	Manual-test Emergency 2-cell driver pack with Corridor beam downlight; White body
BAN/LDE3F/MT/HW	Manual-test Emergency 2-cell driver pack with High-level beam downlight; White body
BAN/LDE3F/MT/WB	Manual-test Emergency 2-cell driver pack with Wide beam downlight; Black body
BAN/LDE3F/MT/CB	Manual-test Emergency 2-cell driver pack with Corridor beam downlight; Black body
BAN/LDE3F/MT/HB	Manual-test Emergency 2-cell driver pack with High-level beam downlight; Black body
BAN/LDE3F/D/WW	DALI Emergency 2-cell driver pack with Wide beam downlight; White body
BAN/LDE3F/D/CW	DALI Emergency 2-cell driver pack with Corridor beam downlight; White body
BAN/LDE3F/D/HW	DALI Emergency 2-cell driver pack with High-level beam downlight; White body
BAN/LDE3F/D/WB	DALI Emergency 2-cell driver pack with Wide beam downlight; Black body
BAN/LDE3F/D/CB	DALI Emergency 2-cell driver pack with Corridor beam downlight; Black body
BAN/LDE3F/D/HB	DALI Emergency 2-cell driver pack with High-level beam downlight; Black body
OPTIONS:	/BLE Wireless DALI emergency

NB: Suitable for intermittent operation.

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