

# LDE8F and LDM90/HOD

Where projects require the advantages of low energy/long life LEDs packaged in standard downlight products for plasterboard ceilings and ceiling tiles the **LDE8F** range is the ideal choice. The **LDE8F** downlights (white or black thermally conductive plastic) are installed using spring clips into a 45mm diameter cut-out.

The **LDE8F** range can be supplied with the **LDM90/HOD** in-line DALI emergency driver kit which can pass through the cut-out into the ceiling void (minimum void depth 150mm).

### LDE8F/W (WIDE BEAM)

The **LDE8F/W** downlight offers a Wide beam (160 degree) lens configuration ideal for illumination of open areas with mounting heights of typically 2 to 5m.

### LDE8F/C ('CORRIDOR' BEAM)

The **LDE8F/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.

### LDE8F/HL (HIGH LEVEL/MEDIUM BEAM)

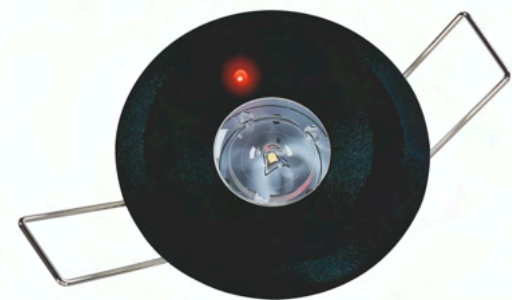
The **LDE8F/HL** downlight offers a medium beam ideal for higher mounting heights of typically 6 to 12m or lighting high risk tasks.

The ideal DALI emergency driver pack is the **LDM90/HOD/TU** This comprises a two piece housing for the emergency driver and high temperature LiFePO<sub>4</sub> battery and easily passes through the cut out required to mount the **LDE8F**. When the normal mains supply fails the **LDM90/HOD/TU** powers the **LDE8F** downlight for 3 hours.

The **LDM90/HOD/TU** has Class II insulation, an Extra Low Voltage output and features double insulated wires to the downlight to provide additional mechanical protection.



LDE8F Downlight



LDE8F Black Downlight (DALI red 'fault' indication)



LDE8F/HO/W/D/WH/ASSY

**Emergency Lighting Products Limited**  
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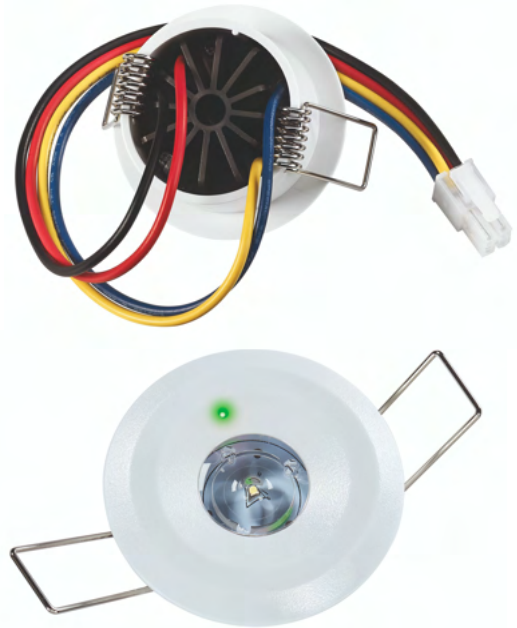
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**LED Downlight and DALI emergency kit**

# LDE8F and LDM90HOD/TU

Non-maintained	
Light source	Nichia white LED
Colour temperature	4500K
Lumens (emergency)	490lm
IP rating	IP40 front face/IP20 back of lamp
Ambient temperature (Ta)	0°C to 40°C
Insulation class	Class II
Supply voltage	230V ~ 50Hz
Supply power	5.2W
Battery	6.4V 3.4Ah LiFePO <sub>4</sub>
Dims: LDM90/HOD/TU	200mm(L) x39mm(W) x21mm(H) + 175mm(L) x 33mm(ø)
Dimensions LDE8F	Ø55mm x 25mm(H) Cut-out Ø45mm
Minimum void depth	150mm



LDE8F Downlight (also available in Black)

**Typical Emergency Lighting Spacings for LDE8F Downlights connected to LDM90/HOD/TU emergency driver pack**

Mounting height Hm (m)	LDE8F/W		LDE8F/C		LDE8F/HL	
	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	13.6	13.8	n/a	14.7	n/a	n/a
2.5	15.5	15.5	n/a	16.9	n/a	n/a
3.0	17.1	16.8	n/a	18.6	n/a	n/a
3.5	18.4	17.5	n/a	20.0	n/a	n/a
4.0	19.4	17.4	n/a	20.9	n/a	n/a
6.0	20.3	15.0	n/a	23.1	5.9	n/a
8.0	18.5	7.5	n/a	23.9	7.2	n/a
10.0	n/a	n/a	n/a	23.4	8.5	n/a
12.0	n/a	n/a	n/a	22.0	10.0	n/a

**NB:** Full .LDT photometry files available upon request

ORDER CODES	Description
LDE8F/HO/W/D/WH	DALI Emergency driver pack with Wide beam downlight; White body
LDE8F/HO/C/D/WH	DALI Emergency driver pack with Corridor beam downlight; White body
LDE8F/HO/HL/D/WH	DALI Emergency driver pack with High Level (medium) beam downlight; White body
OPTIONS:	
/BL	Black body for LDE8F downlight
/ASSY	Pre-wired plug / sockets with 300mm leads for mains and DALI connections
/MT	Manual Test with DALI function disabled

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