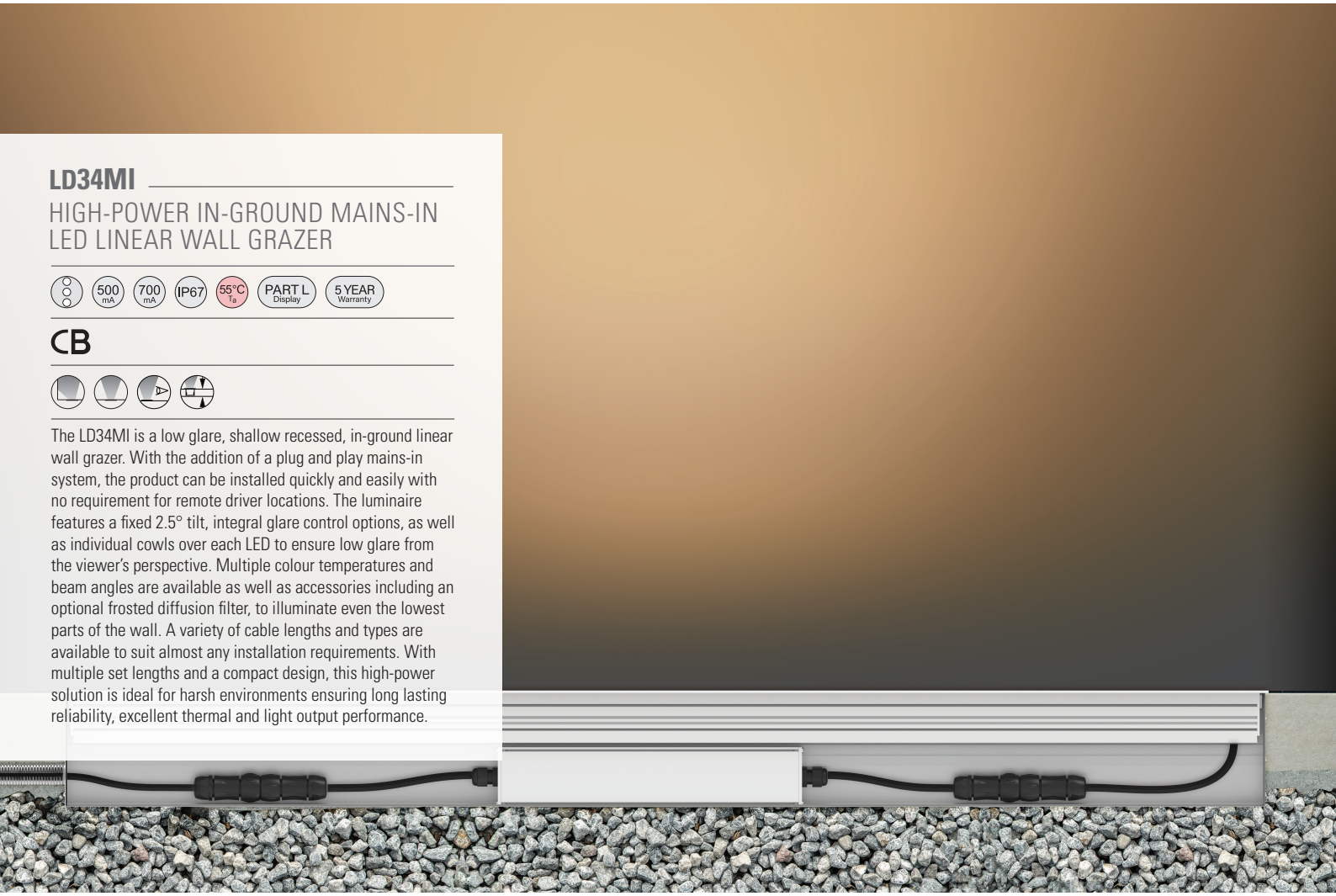


LD34MI

HIGH-POWER IN-GROUND MAINS-IN LED LINEAR WALL GRAZER

500 mA | 700 mA | IP67 | 55°C Ta | PART L Display | 5 YEAR Warranty

CB

The LD34MI is a low glare, shallow recessed, in-ground linear wall grazer. With the addition of a plug and play mains-in system, the product can be installed quickly and easily with no requirement for remote driver locations. The luminaire features a fixed 2.5° tilt, integral glare control options, as well as individual cowls over each LED to ensure low glare from the viewer's perspective. Multiple colour temperatures and beam angles are available as well as accessories including an optional frosted diffusion filter, to illuminate even the lowest parts of the wall. A variety of cable lengths and types are available to suit almost any installation requirements. With multiple set lengths and a compact design, this high-power solution is ideal for harsh environments ensuring long lasting reliability, excellent thermal and light output performance.

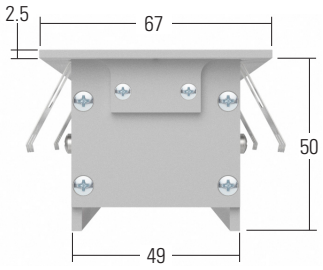
KEY FEATURES

- Plug and play mains-in system with pre-wired IP67, 2-pole or 5-pole connectors for switched and dimmable applications, delivering up to 3263lm/m
- Single mains cable feeds a full or multiple runs (when used with interconnection cables)
- Toughened glass top to ensure longevity and resilience against external impact. IK08
- Available lengths include 600mm, 1050mm and 1350mm
- 50mm spacing maintained across in-line lengths, ensuring no dark spots
- Compact design with only a 115mm recess depth including concrete housing
- Manufactured from aluminium and anodised to a thickness of 25 microns.
- LED fixed at a 2.5° tilt with a wide choice of beam angles and superb wall grazing capabilities using the 15° x 60° extra oval beam
- Range of glare control accessories to ensure low glare from all directions
- Optional frosted diffusion filter to illuminate lower parts of the wall
- First fix concrete housing with multiple cable options available
- Switched, 0-10V and DALI dimmable drivers available

DIMENSIONS

Dimensions in mm

For fitting dimensions please go to page 3.





WHITE LED ENGINE SPECIFICATION

Engine	 Linear C1	
Beam angles	12°, 31°, 48°, 12° x 36°, 15° x 60°	
LED manufacturer	NICHIA	
Colour temperature	2200K, 2700K, 3000K, 4000K, 5000K	
Current	500mA [1.5W]	700mA [2.1W]
Typical LED Circuit wattage	1.6W	2.3W
Forward voltage (V_{100})	3.2V	3.4V
Delivered lumens (L_{100})* per metre		
50mm spacing	2420	3263
75mm spacing	1609	2170
Delivered lm/Circuit W	75	70
LED lumens (per LED)	187	206
Source lm/W	129	98
CRI (Typ)	93	
Colour consistency	2SCDM	
Peak intensity	18,058 cd	
LOR	0.79	
TM30	RF85 | RG98	
UGR rating	UGR unavailable for asymmetric light distribution	
BUG rating ('downlight' mounted)	B0- U4- G0	B0- U4- G0
LED lifetime	L90B5 at 90,000hrs	
Applications		

This data is based on an LD34-C1-700/930/NB
*Lumen output data applies to all colour temperatures
**Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

MECHANICAL

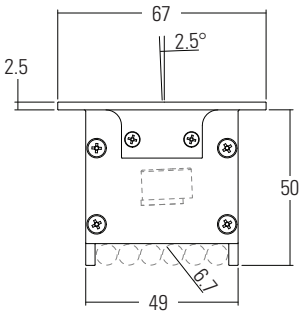
	350mA	500mA	700mA
Ambient temperature ○ 55°C	-20°C to 55°C	-20°C to 50°C	-20°C to 45°C
Glass	Low iron glass, 8mm thick		
Materials	Silver anodised aluminium body & end caps, polycarbonate cover and cowls		
Weight of product	3.4kg per/m		
Static load	1500kg		
IP rating	IP67		
IK rating	IK08		
Wiring	In-series constant current wiring. Pre-wired cable at a length of 2m which can be specified up to 10m at extra cost		
Protection class	II		

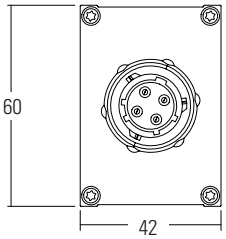
ENVIRONMENTAL

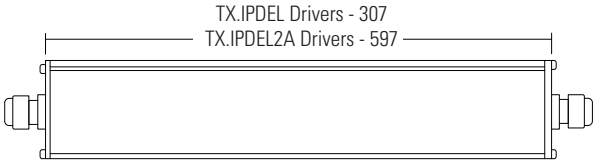
TM65	Available on request
TM66	2.1

DIMENSIONS & FIXING OPTIONS

Dimensions in mm

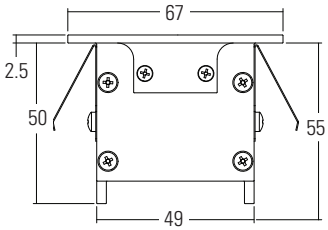


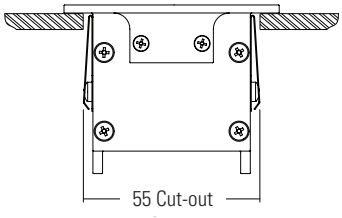




/SC Spring clips

For interior applications, spring clips can be used instead of the concrete housing.

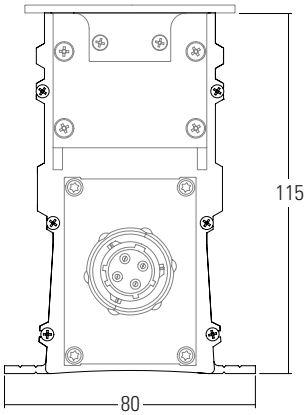






/CH Concrete housing

The mains-in system can be specified without a concrete housing, however it is recommended for exterior applications.

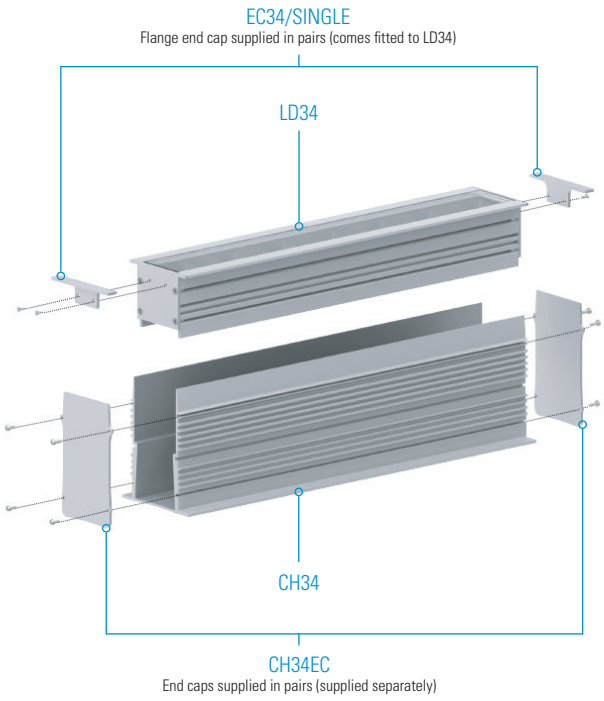




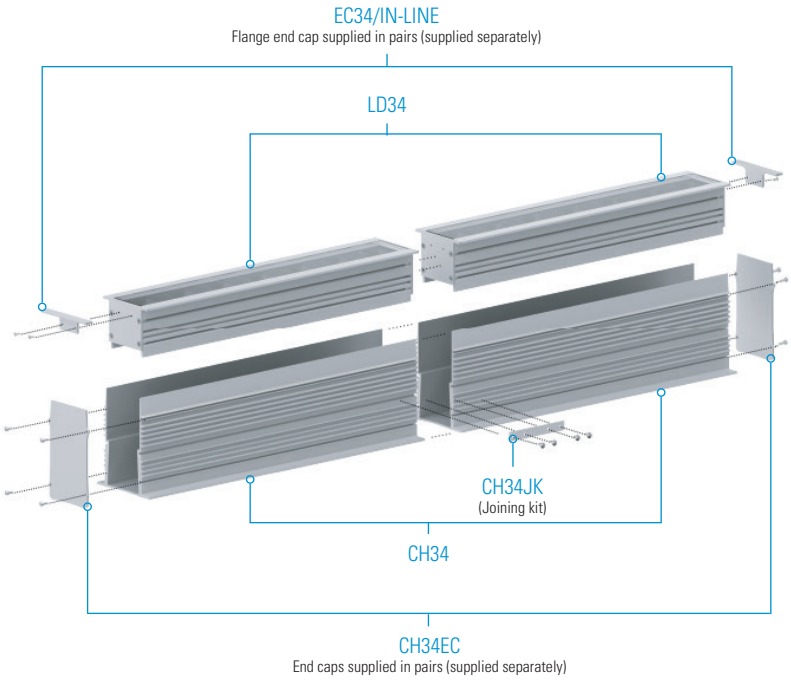
LD34 COMPONENTS

When using LD34 with a concrete housing, the below diagram shows the components required to assemble both single and in-line installations.

LD34 Single



LD34 In-line

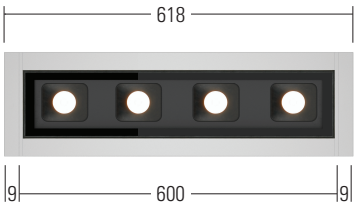


LENGTH GUIDE

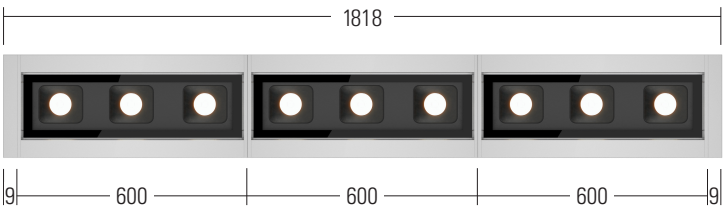
Dimensions in mm

The LD34MI is available in 3 set lengths, 600mm, 1050mm and 1350mm, with LED's spaced at 50mm. Please note an additional 9mm has been added at each end of the run to account for the end cap flange.

Single length example:



In-line length example:



MAINS-IN SYSTEM COMPONENTS

The components listed below will be required when configuring your LD34MI project.

TXIPDEL___
For installations where multiple single lengths and in-line runs of LD34MI are being used, the TXIPDEL driver enclosure allows through wiring to the next driver in the circuit. Available in 500mA and 700mA with both switched and dimmable options (see driver information on page 11).



TXIPDEL___-E
To be used for a single length or at the end of installations where multiple driver enclosures are in use. Available in 500mA and 700mA with both switched and dimmable options (see driver information on page 11).



TXAC_ /_ST Starter cable
The starter cable carries both the mains power and dimming signal into the first driver enclosure. Available in 2-core for switched and 5-core cables for dimming applications. Available lengths and examples of how to specify each cable are detailed in the codes below, with cable length followed by core type.

Available lengths:

3 metres
9 metres
15 metres
Custom

Example 2-core: TXAC3/2ST
Example 5-core: TXAC15/5ST



TXAC_ /_ Interconnection cable
Used to connect between multiple driver enclosures. Available in 2-core for switched and 5 core cables for dimming applications. Available lengths and examples of how to specify each cable are detailed in the codes below, with cable length followed by core type.

Available lengths:
600mm
900mm
Custom

Example 2-core: TXAC600/2
Example 5-core: TXAC900/5



/CH Concrete Housing
Houses the driver enclosures, cables and LD34MI. Slimline aluminium profile is anodised to 25 microns. The mains-in system can be specified without the concrete housing but the LD34MI will need to be specified with spring clips /SC instead.



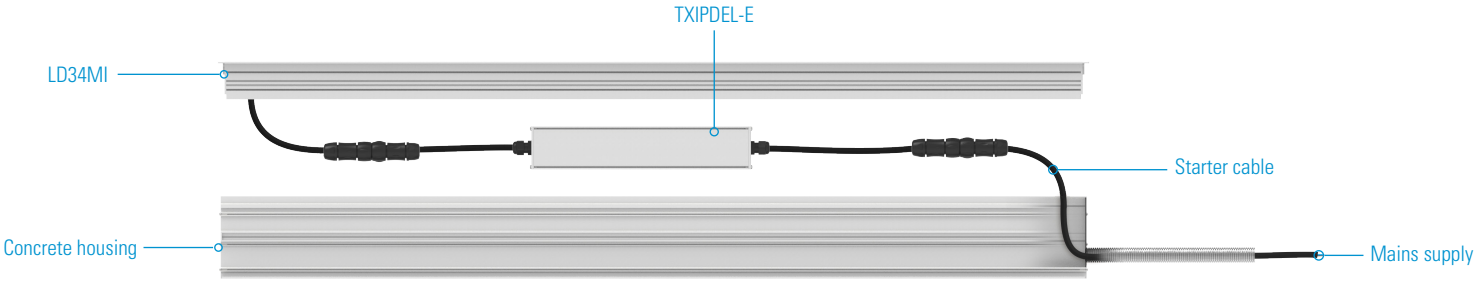


MAINS-IN APPLICATIONS

The mains-in system can be wired 3 ways; single length, multiple single lengths and in-line dependant on the requirements of your project. You will need to specify the correct cable and driver enclosure components based on the method you opt for. Below explains the various scenarios where you may need to use each of the 3 individual methods.

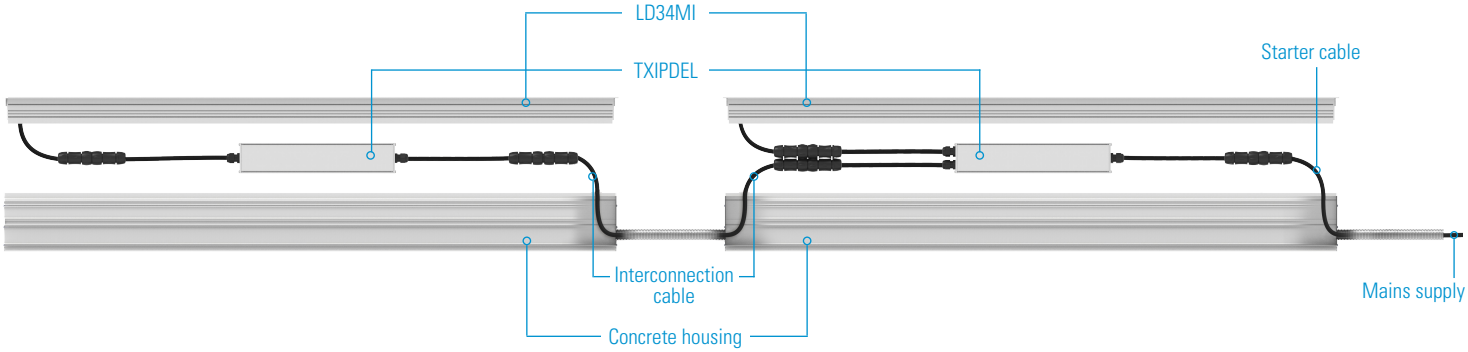
Single length

For applications where a single length is required. A TXAC_/_ST starter cable carries both the mains power and dimming signal (where needed) into the TXIPDEL___-E driver enclosure to power the length of LD34MI.



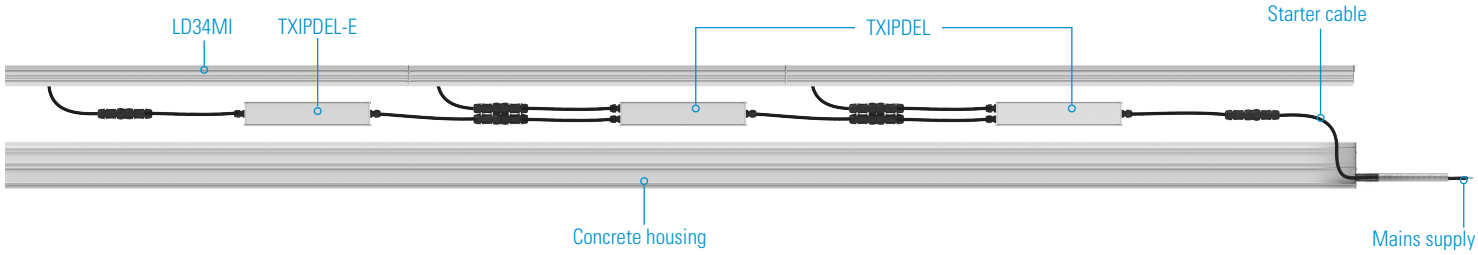
Multiple single lengths

To be used when multiple lengths of the LD34MI are required but are not placed in-line. TXIPDEL___ enclosures should be used for the first and subsequent lengths with the TXAC_/_ interconnection cables used to link between driver enclosures. The TXIPDEL___-E variant should be used as the last driver enclosure in the run.



In-line lengths

When multiple LD34MI's are required in a continuous run. TXIPDEL___ enclosures should be used for the first and subsequent lengths with the TXAC_/_ interconnection cables used to link between driver enclosures. The TXIPDEL___-E variant should be used as the last driver enclosure in the run.



AVAILABLE FINISHES

Please refer to our finishes guide for full details

LD34 has been designed for extreme environments therefore only high quality materials and finishes are used to ensure long lasting reliability. All parts are silver anodised to a minimum thickness of 25 microns which offers high protection in all external environments.



SILVER ANODISED
/SA

POWDER COAT PAINT FINISHES

Our paint finishes are suitable for interior, exterior, and high-saline environments. All our painted finishes are applied in-house, allowing us to maintain complete control over quality and consistency. This also means we can easily accommodate any RAL colour specification in addition to our standard colour range, offering you full flexibility for custom projects.



MATT BLACK
/PCBLK



MATT WHITE
/PCWHT



ANTIQUE WHITE
/PCAWHT



MATT SILVER
/PCMS



ANTHRACITE GREY
/PCANTGREY



GUNMETAL GREY
/PCGMG



ANTIQUE BRONZE
/PCANTBRZ



EARTH BRONZE
/PCEBRZ



DESERT BRONZE
/PCDBRZ



TEXTURED MARS BRONZE
/PCMARS



TEXTURED FIR GREEN
/PCTFG



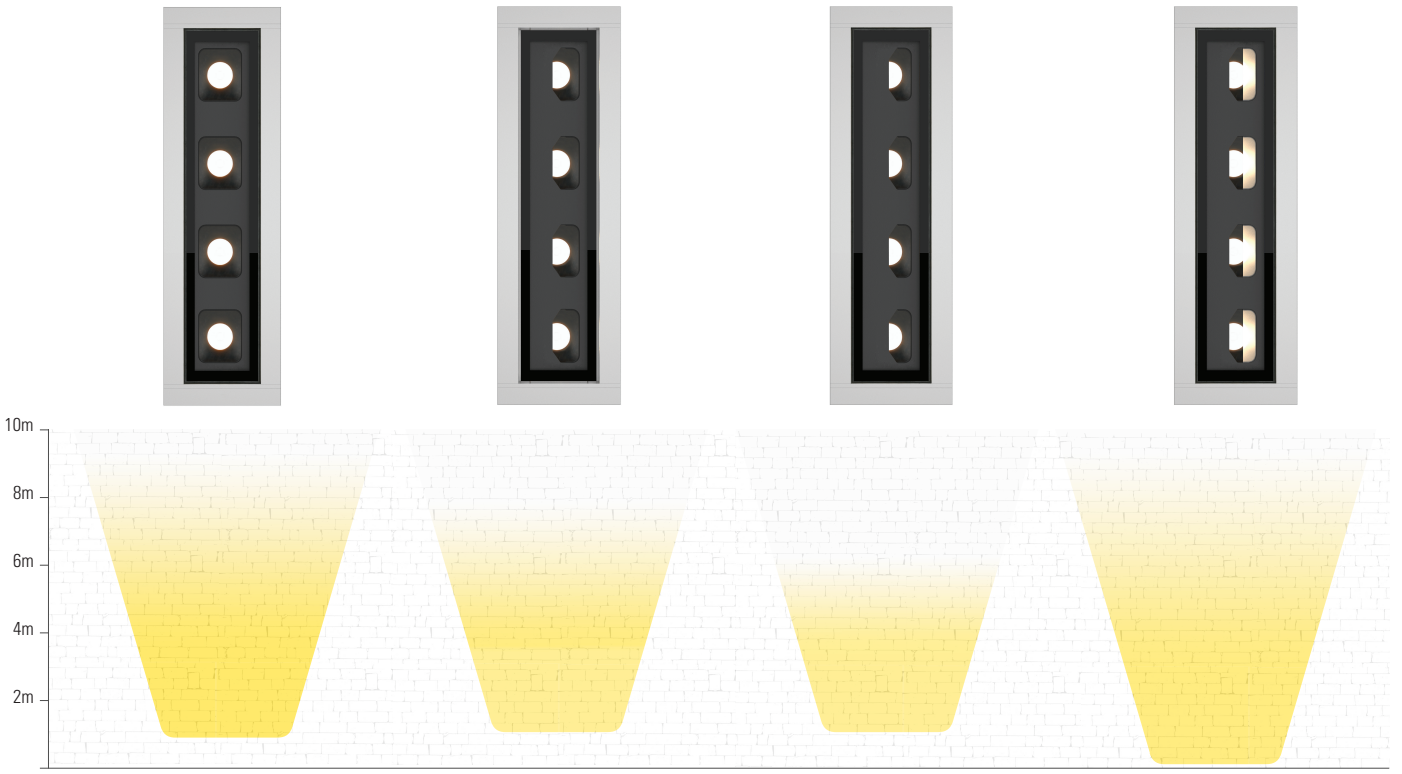
WHITE STONE
/PCTWS



CUSTOM RAL
/CUSTFINISH



LIGHT DISTRIBUTION AND GLARE SHIELD OPTIONS



Please note this is a graphical guide to the expected light output, refer to the photometric files for more detailed data.

LD34MI
No glare shield for maximum lumen output. Deep recessed optic and matt black cowl aids in glare reduction.

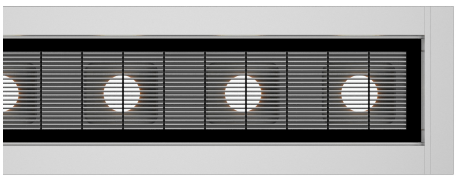
/GS40
Teamed with the 2.5° fixed tilt the 40% glare shield provides glare protection with only a 28% reduction in lumens.

/GS50
Half glare shield. For an increased cut-off angle and greater glare control.

/GS40 with /FD
40% glare shield and diffusion film combination. The aperture allows the main punch of the beam to leave the fitting, providing glare protection from one side and moving the start of the beam down to the floor on the other.

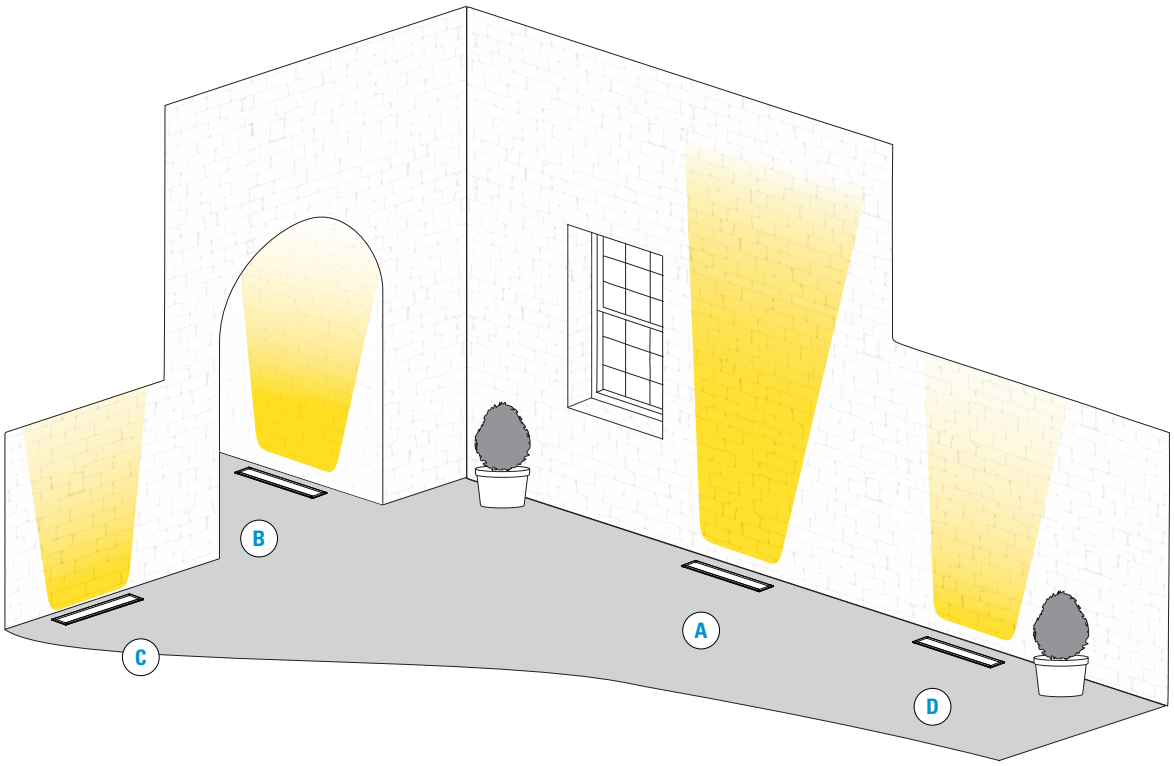
ACCESSORIES

/GL Anti-glare louvre
LD34MI can be supplied with the glare louvre however the /GS40 is recommended as it provides the same amount of glare protection and delivers a better lit effect on the wall. Please note this is always supplied in a black finish, and is supplied as standard with the louvre positioned to reduce glare when looking at the lit surface.



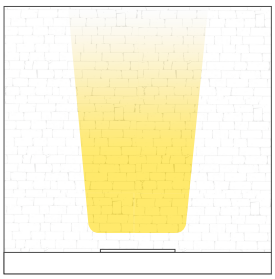
INSTALLATION GUIDE

Below is a luminaire positioning guide. Every project and lighting scenario will be different; the table below is to be used as a starting point for any wall wash design.
Please use our photometric files to further test the desired effect for your application, which are available on the LD34MI website product page.

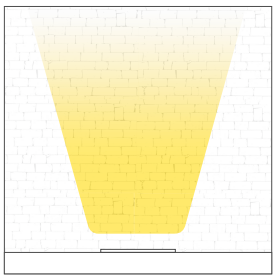


Option	Code	Description	Use
A	LD34MI	Standard LD34MI	The LD34MI can be used when maximum output is required. This option achieves a throw of up to 20m. Even without the presence of a glare shield the cowls over each optic provide a good amount of glare control.
B	/GS50	Glare shield with 50% optic coverage	This option has been designed for use when glare protection is the priority. Narrow corridors and walkways are ideal locations.
C	/GS40/FD	Glare shield with 40% optic coverage and linear diffusion strip.	This option has been designed to lower where the beam starts on the lit surface. This is useful for lighting low walls or when the fitting must be placed further from the lit surface.
D	/GS40	Glare shield with 40% optic coverage	Ideal for use in walkways and arches where glare protection is needed as well as a good punch up the wall.

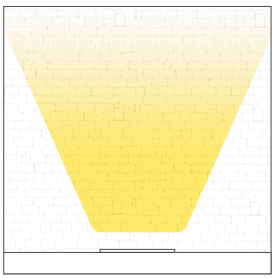
BEAM ANGLE OPTIONS



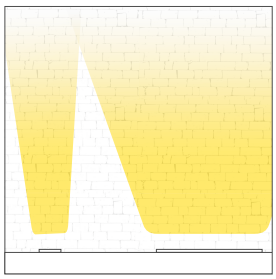
/NB
Narrow Beam
12°



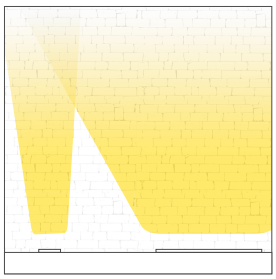
/MB
Medium Beam
31°



/WB
Wide Beam
48°

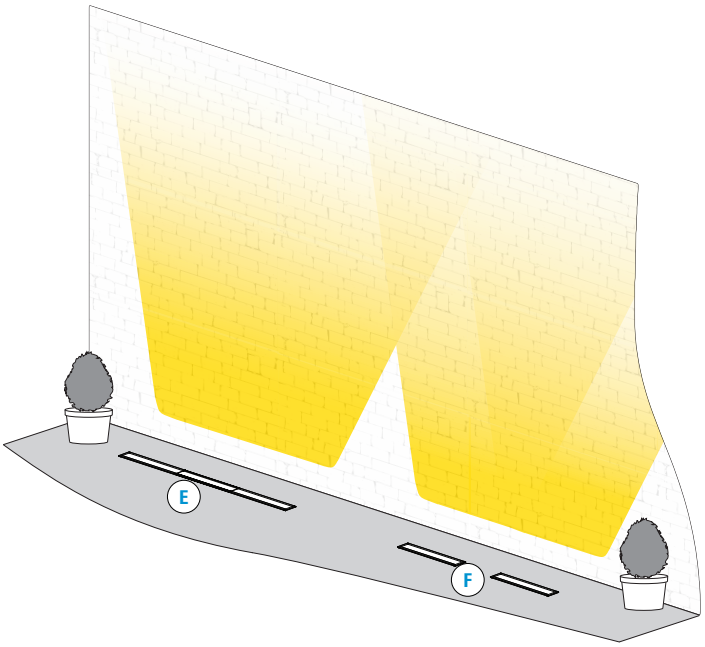


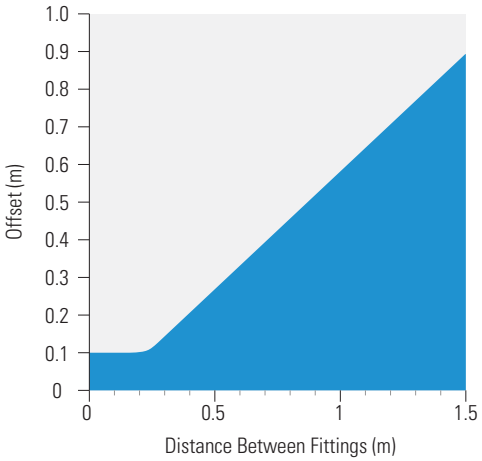
/OB
Oval Beam
12° x 36°



/EOB
Extra Oval Beam
15° x 60°

PRELIMINARY PRODUCT SPACING GUIDE





When spacing fittings further apart, the use of /EOB and possibly /FD is recommended depending on the offset and desired lit effect. The graph (left) shows recommended offsets and their corresponding spacings.

Note: These are estimated results please use photometric data to verify.

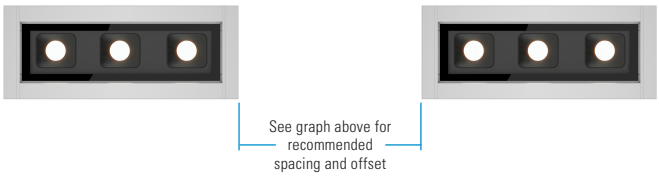
E

LD34MI features the ability to create outstanding continuous wall washing capabilities by seamlessly connecting multiple fittings, while maintaining LED spacing.



F

LD34MI can be supplied with the /EOB, featuring a 15° x 60° optic and film combination which allows fittings to be spaced apart from each other but still produce a consistent lit effect.



WIRING QUANTITY PLANNER

LD34MI Specification code: Example: LD34MI-700 / 930 / 600 / OB / Silver / CH / GS40 / FD

Driver code guide				
Length	600mm		1050/1350mm	
Current	500mA	700mA	500mA	700mA
Switched	TXIPDEL500S	TXIPDEL700S	TXIPDEL2A500S	TXIPDEL2A700S
1-10V	TXIPDEL500D	TXIPDEL700D	TXIPDEL2A500D	TXIPDEL2A700D
Dali	TXIPDEL500DALI	TXIPDEL700DALI	TXIPDEL2A500DALI	TXIPDEL2A700DALI

Run Guide

Run one:

Customer reference:

Starter cable (m) x

Total requested length

Interconnection cables

LD34MI 600mm x 1050mm x 1350mm x

600mm x 900mm x

Dimming option Yes No

Custom Length m x

Dimming option Yes No

Please add a sketch of the requested layout if you feel it will help the quoting of this

Run three:

Customer reference:

Starter cable (☐ m) x

Total requested length

Interconnection cables

LD34MI 600mm x ☐ 1050mm x ☐ 1350mm x ☐

600mm x ☐ 900mm x ☐

Dimming option Yes ☐ No ☐

Custom Length ☐ m x ☐

Dimming option Yes ☐ No ☐

Please add a sketch of the requested layout if you feel it will help the quoting of this

Run three:

Customer reference:

Starter cable (☐ m) x

Total requested length

Interconnection cables

LD34MI 600mm x ☐ 1050mm x ☐ 1350mm x ☐

600mm x ☐ 900mm x ☐

Dimming option Yes ☐ No ☐

Custom Length ☐ m x ☐

Dimming option Yes ☐ No ☐

Please add a sketch of the requested layout if you feel it will help the quoting of this

LIAQA ASSURED COMPANY
MADE IN BRITAIN
Lloyd's Register

ORDER CODES & OPTIONS

Example: LD34MI-C1-700/930/OB/Silver Anodised/SC/GS40/600mm

Light Engine & Drive Current		LED Colour		Beam Angle		Finish		Fixing		Accessory		Length
LD34MI-C1-	/		/		/		/		/		/	

Ambient temperature key: 55°C

LINEAR C1 ENGINE

55°C Ta 1.7W LED at 500mA	LD34MI-C1-500
2.4W LED at 700mA	LD34MI-C1-700

2200K 93+ CRI	/922
2700K 93+ CRI	/927
3000K 93+ CRI	/930
4000K 93+ CRI on request	/940
5000K 93+ CRI	/950

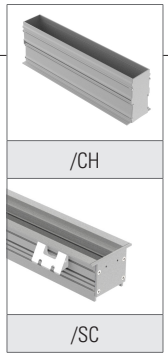
12° Narrow spot	/NB
31° Medium	/MB
48° Wide	/WB
12° x 36° Oval	/OB
15° x 60° Extra Oval	/EOB

Anodised

- Silver Anodised

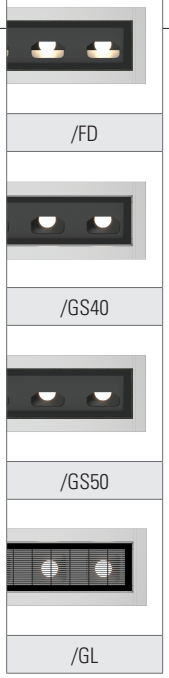
Powder Coat

- Matt Black
- Matt White
- Antique White
- Matt Silver
- Anthracite Grey
- Gun Metal Grey
- Antique Bronze
- Earth Bronze
- Desert Bronze
- Textured Mars Bronze
- Textured Fir Green
- White Stone
- Any RAL



/CH

/SC



/FD

/GS40

/GS50

/GL

600mm	/600
1050mm	/1050
1350mm	/1350

*Add 18mm to the lengths above when supplied as a single length as flanged end caps are supplied fitted to product.

Drivers
Use with 350mA, 500mA & 700mA constant current LED drivers. We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website