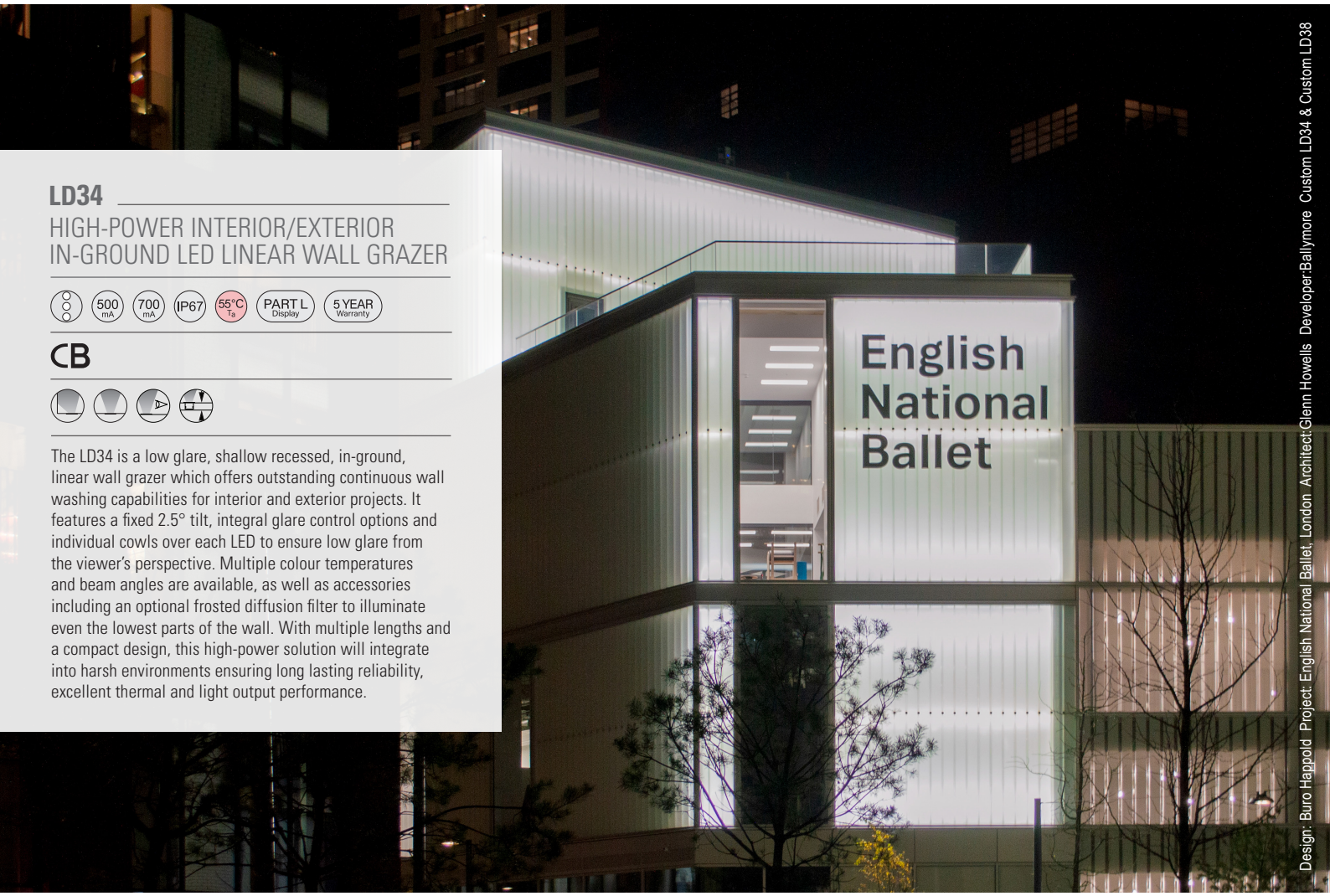


Design: Buro Happold Project: English National Ballet, London Architect:Glenn Howells Developer:Ballymore Custom LD34 & Custom LD38

LD34

HIGH-POWER INTERIOR/EXTERIOR IN-GROUND LED LINEAR WALL GRAZER

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

CB

The LD34 is a low glare, shallow recessed, in-ground, linear wall grazer which offers outstanding continuous wall washing capabilities for interior and exterior projects. It features a fixed 2.5° tilt, integral glare control options and 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. With multiple lengths and a compact design, this high-power solution will integrate into harsh environments ensuring long lasting reliability, excellent thermal and light output performance.

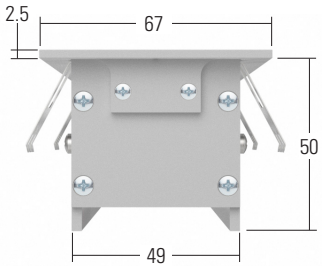
KEY FEATURES

- Linear C1 engine featuring NICHIA LED delivering up to 3263lm
- Lengths to a maximum of 1350mm with LED spacings of 50mm and 75mm
- Toughened glass top to ensure longevity and resilience against external impact. IK08
- A modular approach keeps spacing maintained across multiple lengths, ensuring no dark spots
- Compact design with only a 55mm recess depth required
- Aluminium extrusion, anodised to a thickness of 25 microns
- LED fixed at a 2.5° tilt with a choice of beam angles and superb wall grazing capabilities using the 15° x 60° beam
- Range of glare control options including individual LED cowls to ensure low glare from all directions
- Optional frosted diffusion filter to illuminate lower parts of the wall
- First fix concrete housing or spring clip fixing options available
- Switched, 0-10V, Casambi, DMX, DALI and Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For fitting dimensions please go to page 4.





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	350mA [1.0W]	500mA [1.5W]	700mA [2.1W]
Typical LED Circuit wattage	1.1W	1.6W	2.3W
Forward voltage (V_{100})	3V	3.2V	3.4V
Delivered lumens (L_{100})* per metre			
50mm spacing	1710	2420	3263
75mm spacing	1137	1609	2170
Delivered lm/Circuit W	78	75	70
LED lumens (per LED)	133	187	206
Source lm/W	136	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	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		

ENVIRONMENTAL

TM65	Available on request
TM66	2.1

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.



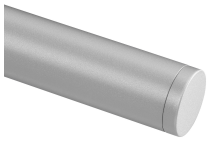
MATT BLACK
/PCBLK



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



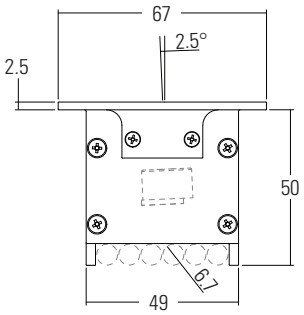
WHITE STONE
/PCTWS



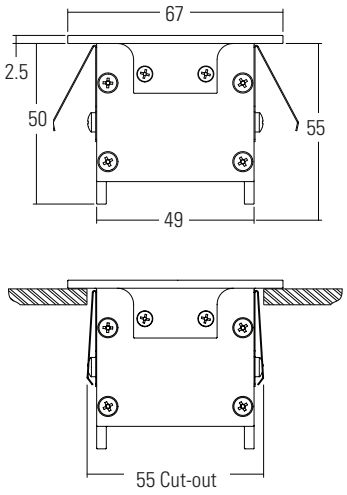
CUSTOM RAL
/CUSTFINISH

DIMENSIONS & FIXING OPTIONS

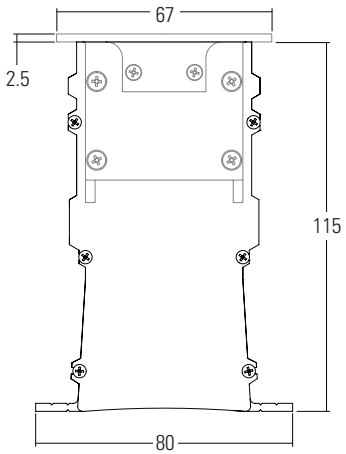
Dimensions in mm



/SC
Spring Clips

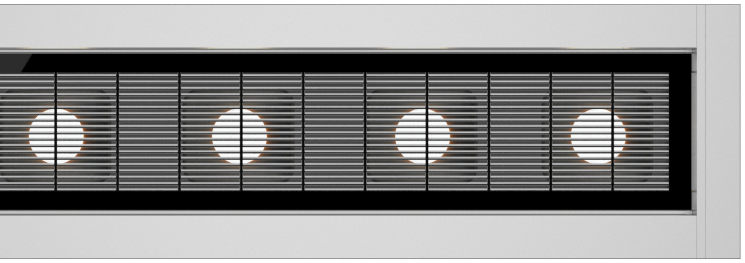


/CH
Concrete Housing



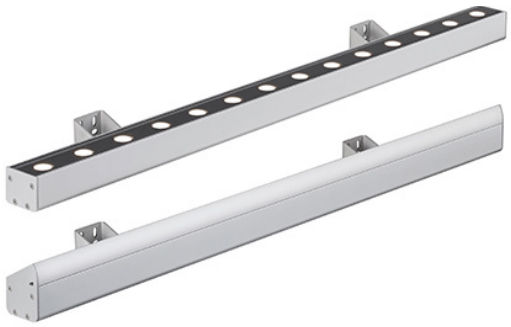
ACCESSORIES

/GL
Anti-glare louvre. LD34 can be supplied with a 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.



SIMILAR PRODUCTS

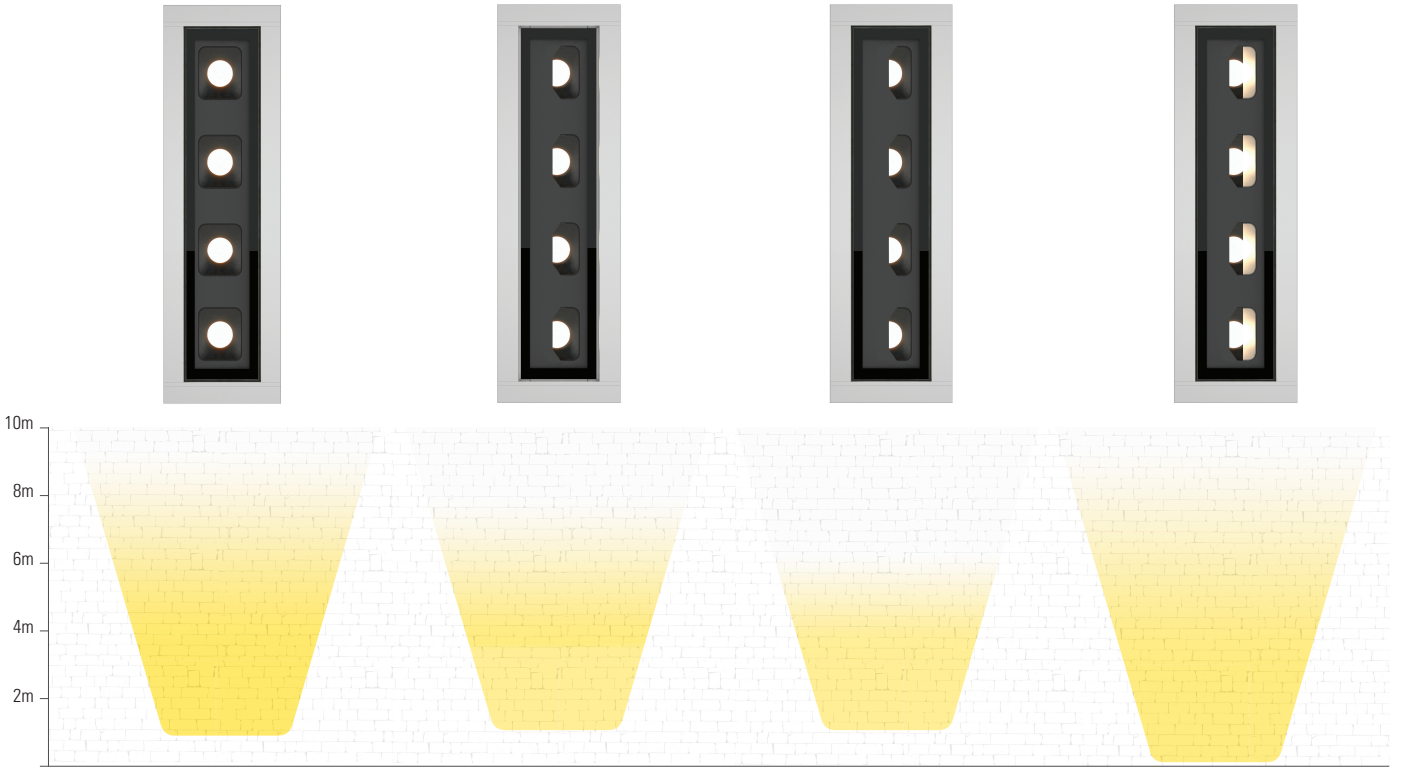
LD38
LD34 has been designed alongside our interior wall grazer LD38 to enable seamless integration of both products throughout a project. Please see the website for more details.





LD34MI
Same specification as the LD34 but with a mains-in connection system to allow for easier, quicker and a more cost effective installation on-site. Set lengths available only.

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.

LD34
No glare shield for maximum lumen output. Deep recessed optic and matt black cowl aids in glare reduction.

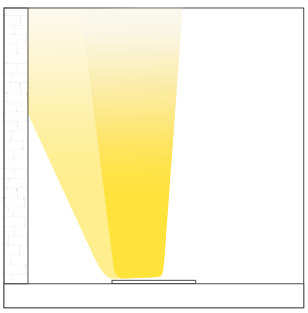
/GS40
Teamed with the 2.5° fixed tilt the 40% glare shield provides glare protection with only a 28% reduction in lumens.

/GS50
Half glare shield. For an increased cut-off angle and greater glare control. Not available with Wide Beam optics.

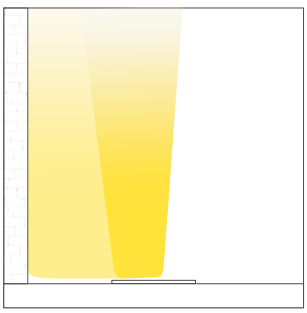
/GS40 with /FD
40% glare shield and diffusion film combination. The aperture allows the main punch of the beam to leave the fitting, providing glare protection from one side and moving the start of the beam down to the floor on the other.

FROSTED DIFFUSION FILM

/FD
This accessory is particularly useful when the LD34 needs to be placed further away from the lit surface. It provides a smooth consistent beam that starts as close to the bottom of the lit surface as possible. The frosted diffusion film can be specified with any of the glare shield options but we recommend using it with the /GS40 for best results.



/GS40

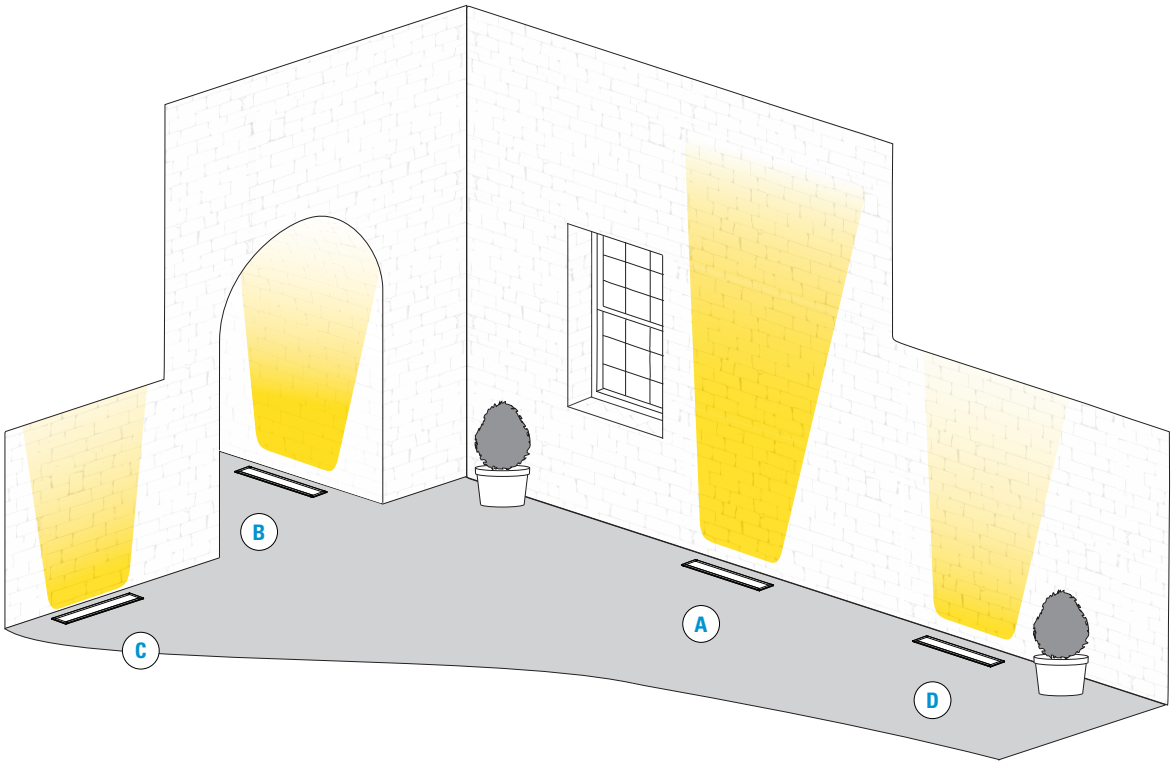


/GS40 with /FD



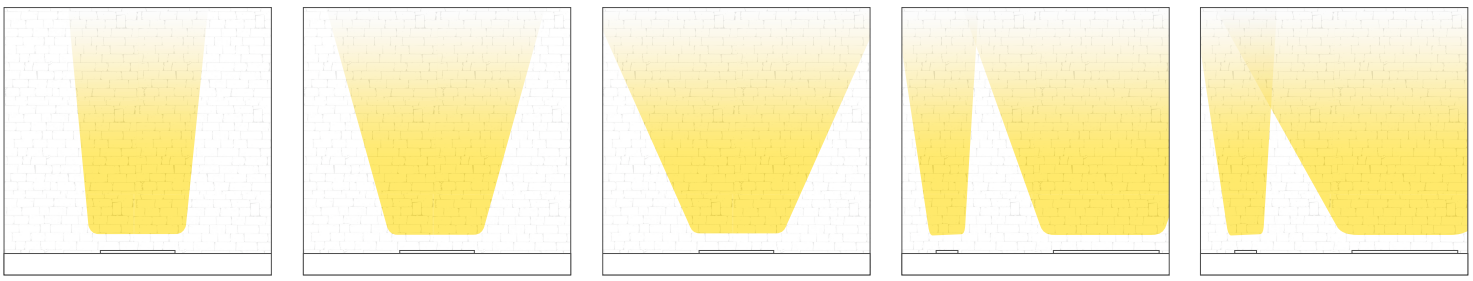
INSTALLATION GUIDE

Below is a luminaire positioning guide. Every project and lighting scenario will be different but 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 to download on the LD34 product page on our website.



Option	Code	Description	Use
A	LD34	Standard LD34	The standard LD34 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 control is the priority and is ideal for narrow corridors and walkways. Not available with Wide Beam optics.
C	/GS40/FD	Glare shield with 40% optic coverage and linear diffusion strip.	This option has been designed to lower the starting position of the beam on the lit surface. This is useful for lighting low walls or when the fitting must be placed further away from the lit surface.
D	/GS40	Glare shield with 40% optic coverage	Ideal for use in walkways and arches where glare control is needed as well as a good punch up the wall.

BEAM ANGLE OPTIONS



/NB
Narrow Beam
12°

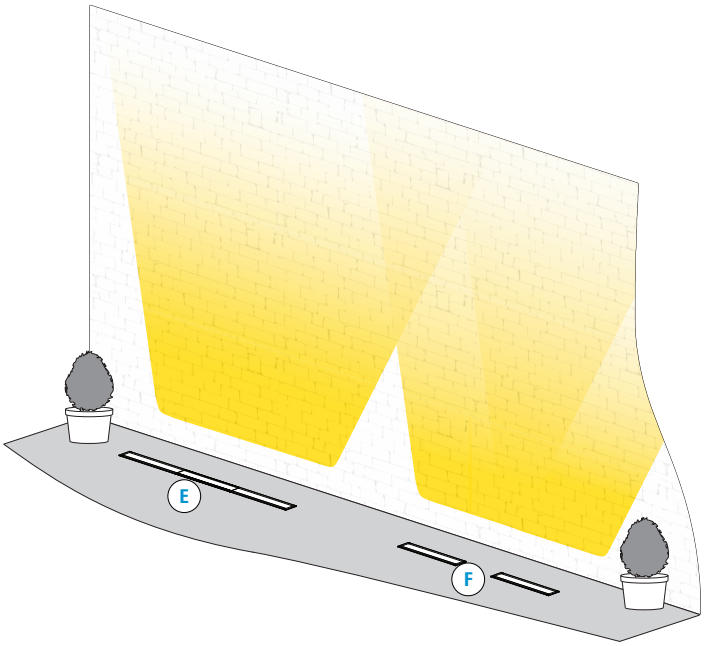
/MB
Medium Beam
31°

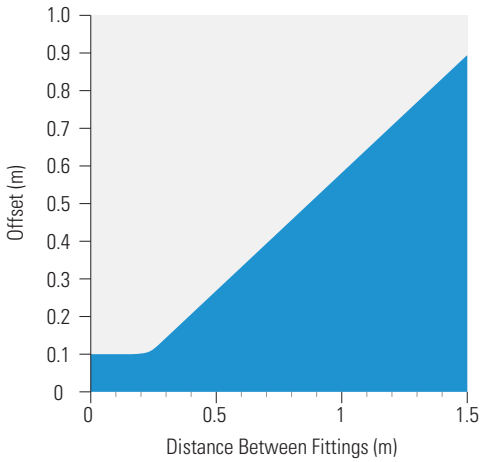
/WB
Wide Beam
48°

/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 below shows recommended offsets and their corresponding spacings.

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

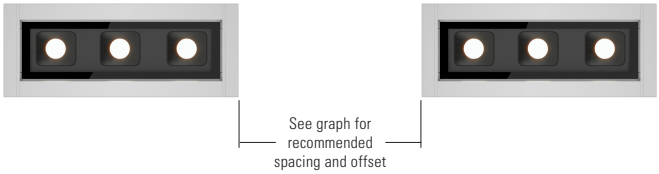
E

LD34 features the ability to create outstanding continuous wall washing capabilities, by seamlessly connecting multiple fittings while maintaining consistent LED spacing.



F

LD34 can be supplied with an extra oval beam /EOB. This 15° x 60° optic and film combination allows fittings to be spaced apart from each other but still produce a consistent lit effect.

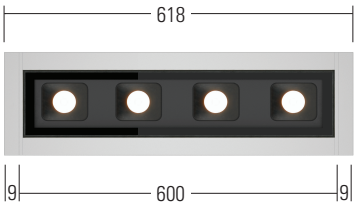


LENGTH GUIDE

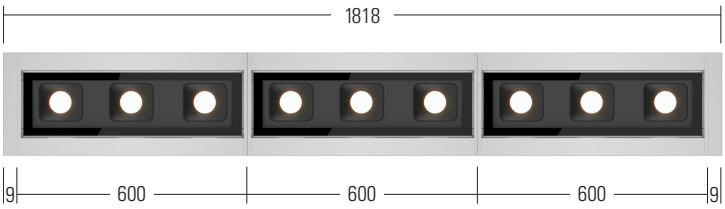
Dimensions in mm

The LD34 is available in 7 set lengths to enable maximum flexibility, 150mm, 350mm 450mm, 600mm, 750mm, 1050mm and 1350mm, with LED's spaced at 50mm and 75mm. When selecting a length please note that a total of 18mm will be added to a single length or total run length to account for the flanged end cap.

Single length example:



In-line length example:



ORDER CODES & OPTIONS

Example: LD34-C1-700/930/50/OB/Silver Anodised/SC/GS40/600mm

Light Engine & Drive Current		LED Colour		LED Spacing		Beam Angle		Finish		Fixing		Accessory		Length (Up to 1350mm)
	/		/		/		/		/		/		/	

Ambient temperature key: 55°C

LINEAR C1 ENGINE

55°C Ta	1.2W LED at 350mA	LD34-C1-350	2200K 93+ CRI	/922	50mm	/50	12° Narrow spot	/NB	
	1.7W LED at 500mA	LD34-C1-500	2700K 93+ CRI	/927	75mm	/75	31° Medium	/MB	
	2.4W LED at 700mA	LD34-C1-700	3000K 93+ CRI	/930			48° Wide	/WB	
			4000K 93+ CRI on request	/940			12° x 36° Oval	/OB	
			5000K 93+ CRI	/950			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
(Not available with Wide Beam optics)



/GL

150mm	/150
300mm	/300
450mm	/450
600mm	/600
750mm	/750
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