

LD234

COMPACT SURFACE MOUNTED
ADJUSTABLE WINDOW REVEAL

⊕ 350mA 500mA 700mA 24V IP65 55°C Ta 5 YEAR Warranty

R+R

The LD234 is the LightGraphix solution for window reveal lighting, embodying our Product DNA in terms of glare control, superior beam quality, versatile mounting options and adaptability. As experts in exterior façade lighting, the LD234 was designed and engineered in-house with input from architects and lighting designers to eliminate common frustrations associated with lighting window reveals.

With three beam angles, multiple contractor-friendly power options, and our advanced E3 engine, the LD234 delivers up to 140 lumens whilst maintaining consistent colour temperatures and colour over angle. Its in-house developed Dual Optic system provides a greater than 180° visible beam spread, minimising glare and creating the perfect lit effect.

A machined aluminium body and IP65 rating ensure durability for indoor and outdoor use. Its versatile mounting options include a standard direct mount fixing with integrated tilt screws, to compensate for surface imperfections and sill angles up to 16°. Additional mounting options include adjustable and lockable brackets for surface, wall, or corner mounting. The LD234 flat top design supports levelling equipment, enabling you to record the installed angle, share it with contractors, and minimise the need to return to site to re-focus the project.

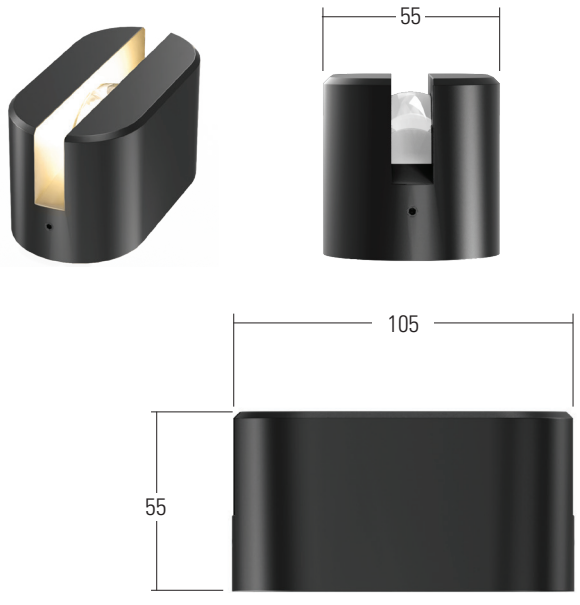
KEY FEATURES

- Highly versatile with a wide range of mounting options to suit all project types and installation requirements
- Industry-leading output with three constant current, three 24V options and three different beam angles: ENB (5°x210°), NB (7°x210°) and MB (19°x210°)
- Available in colour temperatures: 2200K, 2700K, 3000K, 4000K, 5000K
- LightGraphix in-house developed, built-in Dual Optic system for creating unrivalled soft edge beam quality (NB and MB)
- Designed for low-glare illumination, when viewed from outside and inside the building
- IP65 rated
- High quality machined aluminium metal parts
- Wide range of standard exterior (including coastal) rated finishes and custom RALs available to enable colour matching of all project and architectural styles
- Product compatible with our R+R (Repair & Refurbish) initiative
- Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers/controllers available

DIMENSIONS

Dimensions in mm

For full dimensions please go to page 3.



WHITE LED ENGINE SPECIFICATION

Engine	E3			E3-24V		
Beam angles	5° x 210°, 7° x 210°, 19° x 210°			5° x 210°, 7° x 210°, 19° x 210°		
LED manufacturer	NICHIA			NICHIA		
Colour temperature*	2200K, 2700K, 3000K, 4000K, 5000K			2200K, 2700K, 3000K, 4000K, 5000K		
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]	24V [5W]	24V [7W]	24V [10W]
Typical LED Circuit wattage	4.4W	6.4W	9.2W	4.4W	6.4W	9.2W
Delivered lumens (L_{100})*	86	109	140	86	109	140
Delivered lm/Circuit W**	20	17	15	20	17	15
Typical LED Source wattage	4W	5.8W	8.3W	4W	5.8W	8.3W
Source LED lm	574	740	949	574	740	949
Source lm/W	144	128	114	144	128	114
Forward voltage (V_{100})	11.4V	11.6V	11.8V	24V constant voltage		
CRI	85	90***		85	90***	
Colour consistency	2 SDCM			2 SDCM		
Peak intensity**	532.8 cd			532.8 cd		
LOR	0.15			0.15		
TM30	RF85 | RG98			RF85 | RG98		
BUG rating ('uplight' mounted)	B0-U2-G1			B0-U2-G1		
LED lifetime	L90B5 at 90,000hrs					
Applications						

This data is based on LD234-E3-700/830/NB and LD234-24V-10W/830/NB
*Lumen output data applies to all E3 colour temperatures
**LED wattage includes losses assocaited with using a 90% efficient driver
***90 CRI available in 2700K/3000K only. Approx. 10% lumen drop will occur compared to 85 CRI variants

MECHANICAL

		350mA	500mA	700mA
Ambient temperature ○ 55°C	E3	-20°C to 55°C	-20°C to 55°C	-20°C to 35°C
		24V 5W	24V 7W	24V 10W
	E3-24V	-20°C to 55°C	-20°C to 55°C	-20°C to 35°C
Materials	Aluminium 6026, Polycarbonate optic			
Weight of product	575g			
IP rating	IP65			
IK rating	IK08			
Wiring	External 2 core cable 1000mm			

ENVIRONMENTAL

TM65	Available on request
TM66	2.5
Repair + Refurbish	R+R This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.

AVAILABLE FINISHES

Please refer to our finishes guide for full details

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

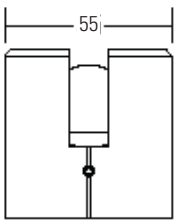
DIMENSIONS & MOUNTING OPTIONS

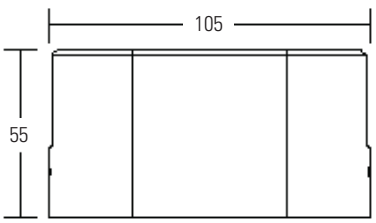
The LD234 has been designed with a range of mounting options to cover all installation requirements and structures, whilst keeping the lit effect consistent throughout. Fixing accessories can be specified in advance or ordered and fitted later depending on on-site details identified during installation. The product's flat top profile allows levelling equipment to be used ensuring all lights are set at the correct angle.

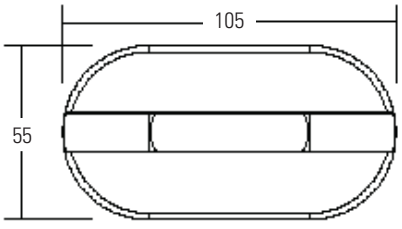










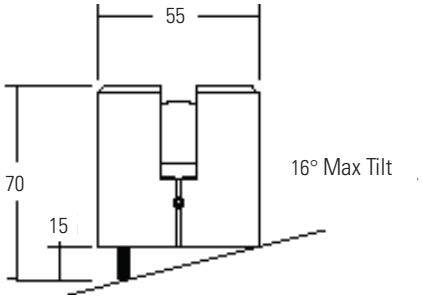


/DM Direct mount standard fixing and tilt screws

The LD234 direct mount has built-in tilt adjustment as standard. Utilising the 4 discreet tilt screws (one in each corner of the body) the product can be adjusted for level on uneven surfaces and set at a tilt from 0-16° on-site.

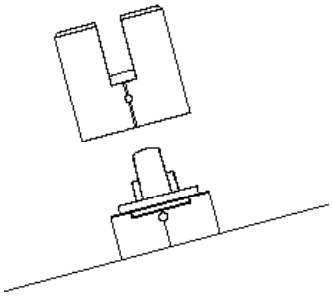




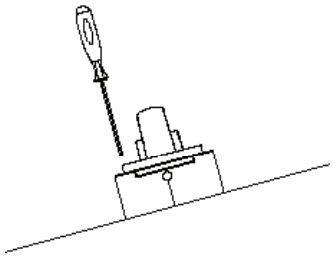


HOW TO USE THE DIRECT MOUNT STANDARD FIXING AND TILT SCREWS

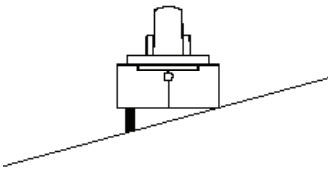
1. Remove outer case by loosening locking screws located at both ends of the fitting using a 2mm Hex tool



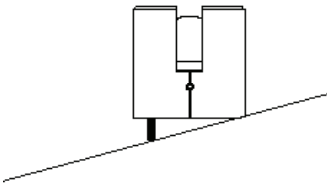
2. Adjust angle/level of fitting by extending the integrated set screws located in each corner of the base unit/direct mount using a 2mm Hex tool



3. Temporarily replace outer case, check level, remove outer case, and fix direct mount onto desired surface using screws or similar (not supplied)



4. Replace cover, check angle/level, and tighten locking screws in outer case using a 2mm Hex tool



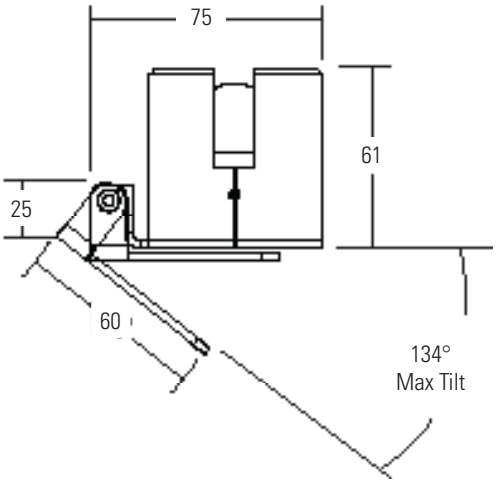


/ABM Adjustable bracket mount

Designed for windowsills with greater than 16° angle, this allows the product to be adjusted and locked quickly on-site. It offers great flexibility with a wider degree of adjustability.





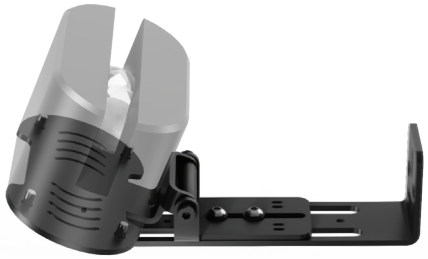


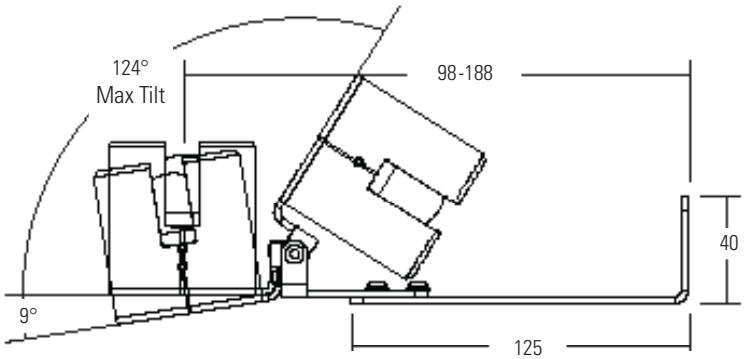


/AWB Adjustable wall bracket

Designed for applications that require no fixings into the windowsill but are fixed to the window frame instead. This also has additional adjustment for the distance from the mounting surface to the product, allowing the light to be centred into the window reveal or focused further to the edge of the reveal if required.





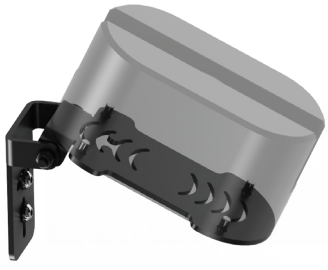


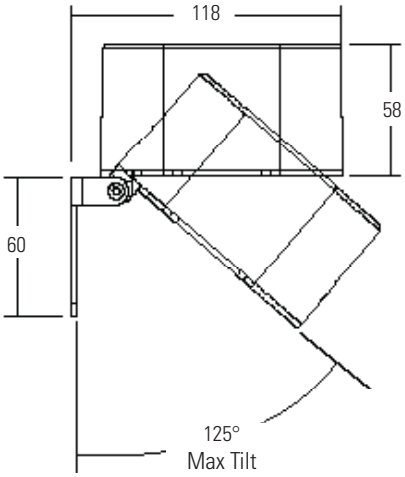


/ACM Adjustable Corner Mount

This adjustable fixing allows the LD234 to be placed in the corner of a window reveal, mounting to either vertical or horizontal surfaces. The fixing can be tilted to the desired angle and locked in place.







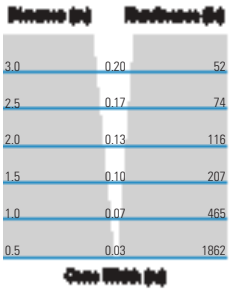


CONE DIAGRAMS

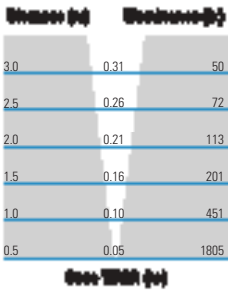
E3 LED Engine

Cone diagrams below are based on an 3000K E3 LED engine run at maximum output 700mA constant current or 24v 10W. Photometric files (LDT) are included in the design pack which can be downloaded from the LD234 product page on the website.

Extra Narrow Beam
5° x 210° optic



Narrow Beam
7° x 210° optic



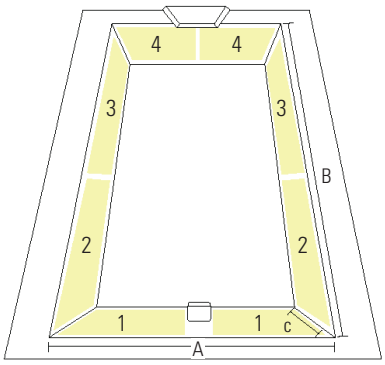
Medium Beam
19° x 210° optic





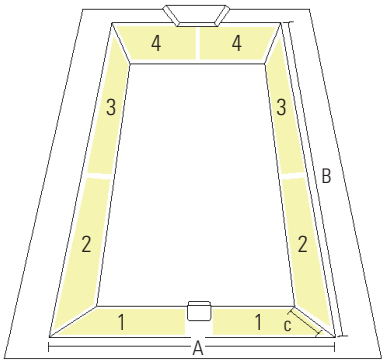
1 x LD234 APPLICATION GUIDE

Below is a suggested application guide for the LD234 and different sized window reveals. The numbers displayed are the average and peak lux values found on the different areas of the window reveals surface, at the minimum and maximum suggested dimensions. Photometric files are available to download from the LD234 product page if you wish to further test different applications.



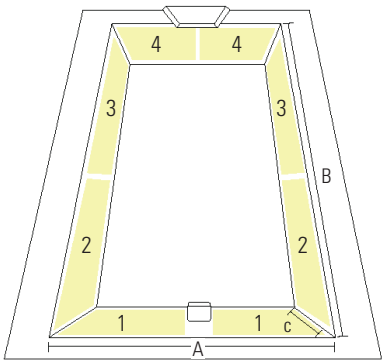
ENB 1 x LD234 mounted in center: Height: 2000mm - 3500mm Width: 1500mm - 3000mm Depth: 300mm - 450mm

Area	(B) Height	(A) Width							
		1500mm				3000mm			
		7W - 500mA / 24V		10W - 700mA / 24V		7W - 500mA / 24V		10W - 700mA / 24V	
		Average (lx)	Peak (lx)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak
1	2000mm	5	8	9	25	3	7	4	24
2		61	137	82	176	19	36	25	46
3		43	94	53	115	28	36	35	47
4		65	83	78	98	51	81	61	96
1	3500mm	5	8	8	24	2	6	3.3	23
2		54	137	70	175	22	36	29	46
3		14	34	17	40	15	28	19	35
4		25	25	30	33	23	26	27	32



NB 1 x LD234 mounted in center: Height: 1500mm - 3000mm Width: 1500mm - 2500mm Depth: 400mm - 550mm

Area	(B) Height	(A) Width							
		1500mm				2500mm			
		7W - 500mA / 24V		10W - 700mA / 24V		7W - 500mA / 24V		10W - 700mA / 24V	
		Average (lx)	Peak (lx)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak
1	1500mm	6	10	8	13	4	8	5	11
2		55	117	71	150	21	21	27	54
3		60	107	77	137	36	36	46	57
4		89	125	114	161	70	70	90	158
1	3000mm	5	8	6	11	3	6	3.5	9
2		55	116	70	149	27	43	34	55
3		18	40	23	51	18	33	23	42
4		29	31	37	40	26	31	34	39

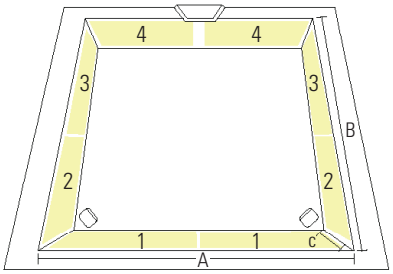


MB 1 x LD234 mounted in center: Height: 1500mm - 2500mm Width: 2500mm - 2000mm Depth: 450mm - 700mm

Area	(B) Height	(A) Width							
		1000mm				2000mm			
		7W - 500mA / 24V		10W - 700mA / 24V		7W - 500mA / 24V		10W - 700mA / 24V	
		Average (lx)	Peak (lx)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak
1	1500mm	7	8	9	11	3	5	4	7
2		68	136	89	179	19	36	24	47
3		37	72	48	95	27	36	36	47
4		47	51	62	68	38	49	51	65
1	2500mm	6	8	7	10	2.3	4	3	5
2		57	136	74	179	22	35	29	46
3		24	24	15	32	13	23	17	30
4		18	18	24	24	16	18	22	24

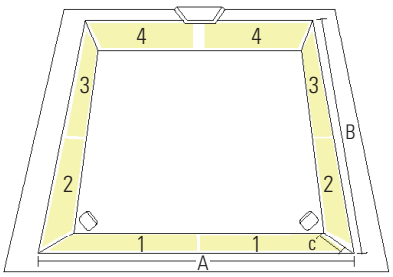
2 x LD234 APPLICATION GUIDE

Below is a suggested application guide for 2 x LD234s, positioned in opposing corners and different sized window reveals. The numbers displayed are the average and peak lux values found on the different areas of the window reveals surface, at the minimum and maximum suggested dimensions. Photometric files are available to download from the LD234 product page if you wish to further test different applications.



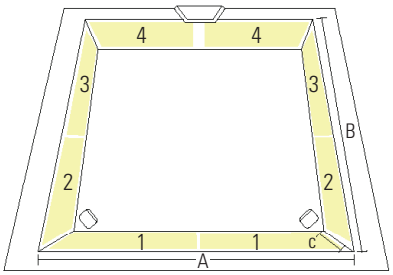
ENB 2 x LD234 mounted in opposing corners: Height: 2500mm - 5000mm Width: 2500mm - 6000mm Depth: 300mm - 450mm

Area	(B) Height	(A) Width							
		2500mm				6000mm			
		7W - 500mA / 24V		10W - 700mA / 24V		7W - 500mA / 24V		10W - 700mA / 24V	
		Average (lx)	Peak (lx)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak
1	2500mm	32	137	41	184	12	121	15	160
2		69	380	96	704	39	300	58	489
3		32	55	38	65	12	24	15	28
4		57	76	70	92	32	45	39	56
1	5000mm	31	137	39	179	11	121	14	162
2		49	391	64	686	25	292	35	508
3		11	21	13	25	7	9	8	11
4		18	20	22	25	14	17	17	20



NB 2 x LD234 mounted in opposing corners: Height: 2000mm - 4000mm Width: 2500mm - 5500mm Depth: 400mm - 550mm

Area	(B) Height	(A) Width							
		2500mm				5500mm			
		7W - 500mA / 24V		10W - 700mA / 24V		7W - 500mA / 24V		10W - 700mA / 24V	
		Average (lx)	Peak (lx)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak
1	2000mm	31	150	41	192	13	142	17	182
2		66	339	85	434	49	374	63	477
3		37	61	48	79	15	30	20	38
4		69	92	88	118	37	59	48	76
1	4000mm	31	155	40	199	12	142	16	182
2		49	313	63	399	31	391	40	499
3		14	26	19	34	10	10	10	13
4		24	27	31	35	18	20	22	26



MB 2 x LD234 mounted in opposing corners: Height: 1500mm - 3000mm Width: 2000mm - 4000mm Depth: 450mm - 700mm

Area	(B) Height	(A) Width							
		2000mm				4000mm			
		7W - 500mA / 24V		10W - 700mA / 24V		7W - 500mA / 24V		10W - 700mA / 24V	
		Average (lx)	Peak (lx)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak
1	1500mm	31	166	40	216	14	147	19	193
2		56	222	73	289	37	224	48	294
3		46	46	40	61	16	28	21	37
4		58	65	76	86	33	48	44	63
1	3000mm	29	162	38	212	13	153	17	200
2		39	234	51	308	24	215	31	283
3		12	18	15	24	7	9	9	11
4		20	21	26	28	14	15	19	20

ORDER CODES & OPTIONS

Example: LD234-E3-700/830/MB/Wet Spray Black/AWB

Light engine & drive current		LED Colour		Beam Angle		Finish		Fixing
LD234-	/		/		/		/	

E3

55°C Ta	5W LED at 350mA*	LD234-E3-350
55°C Ta	7W LED at 500mA*	LD234-E3-500
	10W LED at 700mA*	LD234-E3-700

E3-24V

55°C Ta	5W LED 24V supply**	LD234-E3-24V-5W
55°C Ta	7W LED 24V supply**	LD234-E3-24V-7W
	10W LED 24V supply**	LD234-E3-24V-10W

LED Colour	
2200K 85+ CRI	/822
2700K 85+ CRI	/827
3000K 85+ CRI	/830
4000K 85+ CRI on request	/840
5000K 85+ CRI	/850
2700K 90+ CRI	/927
3000K 90+ CRI	/930

Beam Angle	
5° x 210° Extra Narrow	/ENB
7° x 210° Narrow	/NB
19° x 210° Medium	/MB

Finish
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

Fixing	
	/DM
	/ABM
	/AWB
	/ACM

Drivers
* Use with 350mA, 500mA & 700mA constant current LED drivers ** 24V constant voltage LED Drivers and Controllers We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website.