LD234

COMPACT SURFACE MOUNTED ADJUSTABLE WINDOW REVEAL













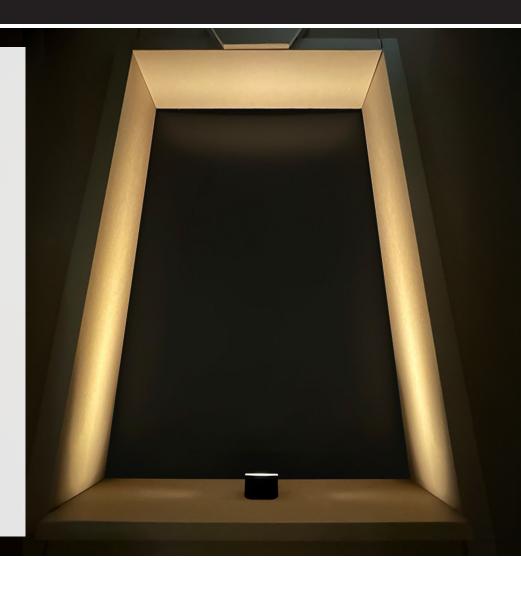




The LD234 is the LightGraphix solution for window reveal lighting, embodying our Product DNA in terms of glare control, superior beam quality, versatile mounting options and adaptability. As experts in exterior façade lighting, the LD234 was designed and engineered in-house with input from architects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



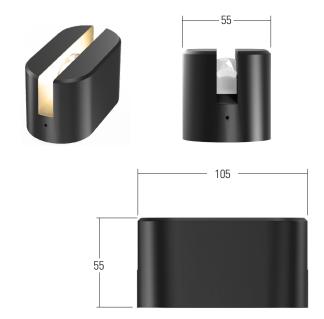
KEY FEATURES

- 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	⊕ E3-24V						
Beam angles	5° x 210°, 7° x 21	5° x 210°, 7° x 210°, 19° x 210°									
LED manufacturer	NICHIA	NICHIA									
Colour temperature*	2200K, 2700K, 30	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 Im/Circuit W**	20	17	15	20	17	15					
Typical LED Source wattage	4W	5.8W	8.3W	4W	5.8W	8.3W					
Source LED Im	574	740	949	574	740	949					
Source Im/W	144	128	114	144	128	114					
Forward voltage (V ₁₀₀)	11.4V	11.6V	11.8V	24V constant vo	oltage						
CRI	85										
Colour consistency	2SCDM										
Peak intensity	532.8 cd										
LOR	0.15										
TM30	RF85 RG98										
BUG rating ('downlight' mounted)	B0-U2-G1										
LED lifetime	L90B5 at 90,000h	rs									
Applications											

This data is based on LD234-E3-700/2700K/NB

MECHANICAL

Ambient temperature	E3	E3 -20°C to 50°C (350-500mA) or -20°C to 35°C (700mA).							
Ambient temperature	E3-24V	-20°C to 35°C (24V)							
Materials	Aluminiu	luminium 6026, Polycarbonate optic							
Weight of product	575g	575g							
IP rating	IP65								
IK rating	IK08								
Wiring	External 2 core cable 1000mm								

ENVIRONMENTAL

TM65	Available on request
TM66	2.5
Repair + Refurbish	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.





^{*}Lumen output data applies to all E3 colour temperatures
**LED wattage includes losses assocaited with using a 90% efficient driver

AVAILABLE FINISHES

Please refer to our finishes guide for full details

The LD234 body is machined from aluminium and painted in-house at LightGraphix. Paint finishes are suitable for interior and exterior use on surface mounted products. Our standard colours are below, and we can accommodate any RAL request. Please view our full finishes guide online for more information.

WET SPRAY



POWDER COAT

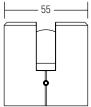


TEXTURED MARS BRONZE

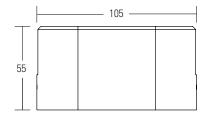
DIMENSIONS & MOUNTING OPTIONS

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.

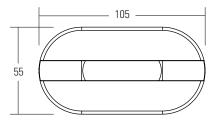










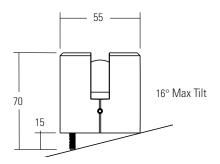


/DM Direct mount standard fixing and tilt screws

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.



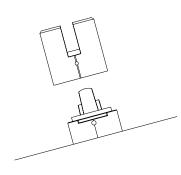




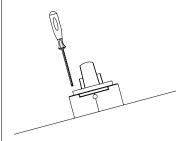
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HOW TO USE THE DIRECT MOUNT STANDARD FIXING AND TILT SCREWS

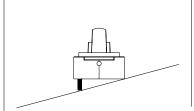
Remove outer case by loosening locking screws located at both ends of the fitting using a 2mm Hex tool



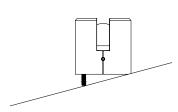
Adjust angle/level of fitting by 2 extending the integrated set screws located in each corner of the base unit/direct mount using a 2mm Hex tool



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



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









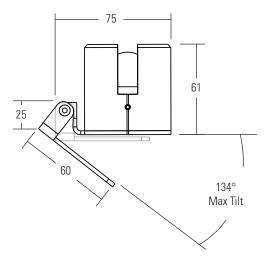


/ABM Adjustable bracket mount

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.









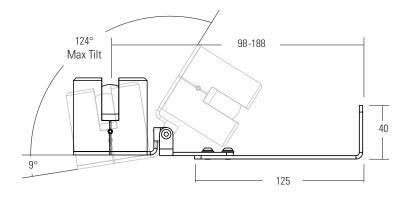


/AWB Adjustable wall bracket

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.









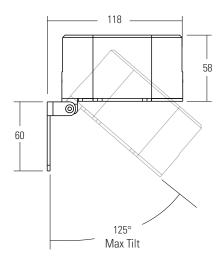


/ACM Adjustable Corner Mount

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.









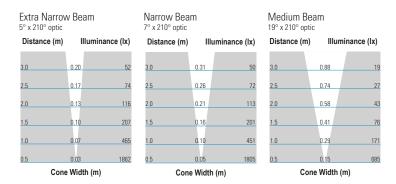




CONE DIAGRAMS

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.









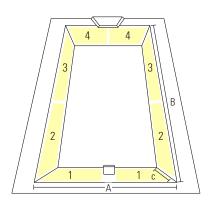
1 x LD234 APPLICATION GUIDE

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

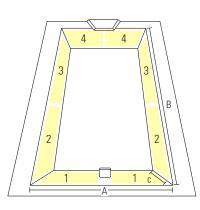
					(A)	Width				
			1500	Omm		3000mm				
Area	Area (B) Height	7W - 500	mA / 24V	10W - 700mA / 24V		7W - 500)mA / 24V	10W - 7	'00mA / 24V	
		Average (lx)	Peak (Ix)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak	
1		5	8	9	25	3	7	4	24	
2	2000mm	61	137	82	176	19	36	25	46	
3	200011111	43	94	53	115	28	36	35	47	
4		65	83	78	98	51	81	61	96	
1		5	8	8	24	2	6	3.3	23	
2	- 3500mm	54	137	70	175	22	36	29	46	
3	JOUUMM	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



					(A)	Width					
			1500	Omm			2500mm				
Area	Area (B) Height	7W - 500mA / 24V		10W - 700mA / 24V		7W - 500	mA / 24V	10W - 7	'00mA / 24V		
		Average (Ix)	Peak (Ix)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak		
1		6	10	8	13	4	8	5	11		
2	1500mm	55	117	71	150	21	21	27	54		
3	130011111	60	107	77	137	36	36	46	57		
4		89	125	114	161	70	70	90	158		
		_	_	_			_		_		
1		5	8	6	11	3	6	3.5	9		
2	3000mm	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



					(A) Width				
			1000	Omm			2000mm			
Area	Area (B) Height	7W - 500	mA / 24V	10W - 700mA / 24V		7W - 50	10mA / 24V	10W - 7	'00mA / 24V	
		Average (lx)	Peak (Ix)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak	
1		7	8	9	11	3	5	4	7	
2	- 1500mm	68	136	89	179	19	36	24	47	
3	130011111	37	72	48	95	27	36	36	47	
4		47	51	62	68	38	49	51	65	
1		6	8	7	10	2.3	4	3	5	
2	- 2500mm	57	136	74	179	22	35	29	46	
3	Zoumm	24	24	15	32	13	23	17	30	
4		18	18	24	24	16	18	22	24	







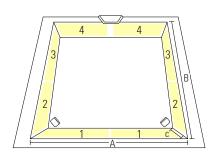
2 x LD234 APPLICATION GUIDE

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

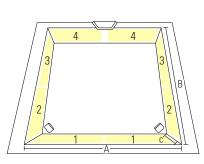
					(A)	Width			
			2500	Omm		6000mm			
Area	Area (B) Height	7W - 500	mA / 24V	10W - 700mA / 24V		7W - 500)mA / 24V	10W - 7	00mA / 24V
		Average (lx)	Peak (Ix)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak
1		32	137	41	184	12	121	15	160
2	2500mm	69	380	96	704	39	300	58	489
3	2500111111	32	55	38	65	12	24	15	28
4		57	76	70	92	32	45	39	56
1		31	137	39	179	11	121	14	162
2	F000	49	391	64	686	25	292	35	508
3	5000mm	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



					(A)	Width				
			2500	Omm			5500mm			
Area	Area (B) Height	7W - 500	mA / 24V	10W - 700mA / 24V		7W - 500	mA / 24V	10W - 7	00mA / 24V	
		Average (lx)	Peak (Ix)	Average (lx)	Peak (lx)	Average	Peak	Average	Peak	
1		31	150	41	192	13	142	17	182	
2	2000mm	66	339	85	434	49	374	63	477	
3	2000111111	37	61	48	79	15	30	20	38	
4		69	92	88	118	37	59	48	76	
								ı		
1		31	155	40	199	12	142	16	182	
2	4000mm	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



					(A	Width				
			2000	Omm			4000mm			
Area	Area (B) Height	7W - 500	mA / 24V	10W - 700mA / 24V		7W	7W - 500mA / 24V		10W - 7	00mA / 24V
		Average (lx)	Peak (Ix)	Average (lx)	Peak (Ix)	Avera	age	Peak	Average	Peak
1		31	166	40	216	14	ļ	147	19	193
2	1500mm	56	222	73	289	37	,	224	48	294
3	130011111	46	46	40	61	16	i	28	21	37
4		58	65	76	86	33	3	48	44	63
1		29	162	38	212	13	3	153	17	200
2	2000,,,,,,	39	234	51	308	24	ļ	215	31	283
3	3000mm	12	18	15	24	7		9	9	11
4		20	21	26	28	14	1	15	19	20





ORDER CODES & OPTIONS

Example: LD234-E3-700 / LW30 / MB / Wet Spray Black / AWB

.D234-										
	/			/			/		/	
⊕ E3										
		0 111							¬	
V LED LD234-E3-350 iOmA*	Ь	Super Warm White (2200K)	/LW22		5° x 210° Extra Narrow	/ENB				
V LED		Extra Warm White (2700K)	/LW27		7° x 210° Narrow	/NB		WET SPRAY Black		1141
LD234-E3-500 0mA*		Warm White (3000K)	/LW30		9° x 210° Medium	/MB		(RAL 9005)		7
W LED LD234-E3-700		White (4000K) on request	/LW40		Woodan					/DM
10mA*		Cool White	/LW50					WET SPRAY White		/DM
	_	(5000K)					_	(RAL 9016)		~
⊕ E3-24V										
V LED LD234-E3-24V-5W								WET SPRAY Silver Anodised		
pply**										/ABM
V LED V LD234-E3-24V-7W pply**	'						-	WET SPRAY		
W LED								Antique Bronze		_
V LD234-E3-24V-10V	V									
								WET SPRAY Antique White (RAL 9001)		
								(RAL 9001)		/AWB
								WET SPRAY		
								Satin Antique Brass		The state of the s
								Altique Diass		
								WET SPRAY		
								Satin Brass		/ACM
								WET SPRAY Anthracite Grey		
								Anthracite Grey (RAL 7016)		
								WET SPRAY Fir Green		
								(RAL 6009)		
								MET COD M		
								WET SPRAY RAL Colours		
rivers										
Use with 350mA, 500mA 8	700mA cor Drivers and	nstant current LED d	rivers					POWDER COAT		

Mars Bronze





We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website.