

LD1081

FIXED ULTRA SHALLOW RECESSED LED DOWNLIGHT









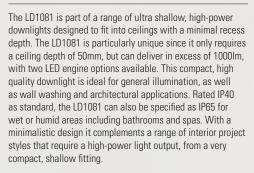














- > High-power N1 engine with CREE COB delivering 1024lm in 3000K at 700mA
- > E3 engine featuring NICHIA LED delivering over 713lm in 3000K at 700mA
- > Designed for ultra shallow applications with a minimal recess depth of 50mm (350mA/500mA only)
- > High quality, machined, anodised aluminium bezel available in a wide range of paint finishes including: White (RAL 9016), Black (RAL 9005), Silver Anodised, Antique Bronze, Satin Brass, Satin Antique Brass, Anthracite Grey (RAL 7016) or any RAL finish.
- > Deep recessed LED and optic and optional honeycomb louvre for low glare
- > Single optic produces a very consistent beam with no multiple shadows
- > 9 beam angle choices, including 12° narrow and 12° x 49° oval beam (E3 engine)
- > Rated IP40 with IP65 option for wet areas such as bathrooms and spas
- > Simple spring clip fixing method, suitable for surfaces 1mm-23mm thick
- > Switched, 0-10V, Casambi, DMX, Dali or Mains dimmable drivers available

DIMENSIONS

For full dimensions please go to page 3







WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3				○ N1					
Beam angles	12°, 19°, 34°, 54°,	12° x 49°			25°, 35°, 46°, 22° x 43°					
LED manufacturer	NICHIA				CREE					
Colour temperature*	2700K / 3000K / 40	000K / 5000K			2200K / 2700K / 3000K / 4000K / 5000K					
Current	350mA	350mA 500mA 700mA				500mA	700mA			
LED power (Max)	4.2W (5W**)	6W (7W**)	8.4W (10W**)		6.6W (7W**)	9.4W (10W**)	13.3W (14W**)			
Delivered lumens (L ₁₀₀)	405	542	713		594	799	1024			
Lumens per circuit watt	81	81 77			84	79	72			
CRI (Typ)	85		·		93					
Forward voltage (V ₁₀₀)	14V				18V					
Colour consistency	2 SCDM				2 SCDM					
Peak intensity	6583 cd				3622 cd					
LED Lumens	840lm				1393lm					
LOR	0.85				0.73					
TM30	RF85.5		RG98.0		RF90.9 RG10		RG101.6			
UGR	16.2	'			21.3					
LED lifetime	L90B5 at 90,000hrs									
Applications) (1)								

These values are based around a LD1081-E3-700-LW30-NB-IP40 & LD1081-N1-700-LW30-MSB-IP40

Lumen variand	ce by CCT				
2700K	+/- 0%				
4000K	+7%				
5000K	+16%				

MECHANICAL

Ambient temperature	-20° to 35° (700mA) or -20° to 40° (500mA) or -20° to 55° (350mA)			
Glass	IP65 version uses a 1mm thick low iron glass			
Materials	Anodised aluminium bezel and body, stainless steel constant force spring clips			
Weight of product	0.274kg			
IP rating	IP40 & IP65			
Wiring In-series constant current wiring (Pre-wired with 2 core cable at a length of 350mm - can be specified up to 10 metres)				

^{*}see lumen variance table to the right for N1 engine. E3 lumens apply across 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

^{***}UGR values based on room parameter of 4H, 8H, C70 W50 F20



AVAILABLE FINISHES

Please refer to our finishes guide for full details

The LD1081 bezel is machined from aluminium and painted in-house at LightGraphix. Wet spray paint finishes are suitable for interior, exterior and high saline marine environments. Our standard colours are below but we can accommodate any RAL request.



WHITE (RAL 9016)



BLACK (RAL 9005)



SILVER ANODISED



ANTIQUE BRONZE



SATIN ANTIQUE BRASS



SATIN BRASS



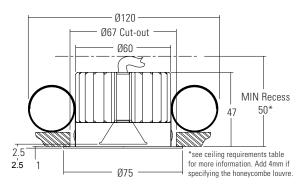
ANTHRACITE GREY (RAL 7016)

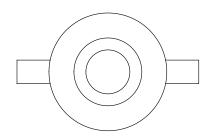


RAL

DIMENSIONS AND FIXING OPTIONS

Supplied as standard with spring clips, which are suitable for use in surfaces with a thickness of 1 mm - 23 mm. Spring clips provide a simple, single fix mounting method.





ACCESSORIES

/HL Honeycomb Louvre

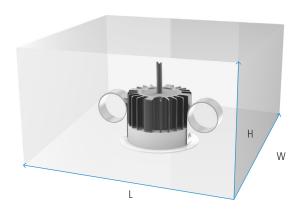
Honeycomb louvre for reduced glare from all angles. Please note this will increase the height of the fitting by 4mm.





CEILING VOID REQUIREMENTS

Installation requirements can vary but the minimum installation volume requirements must be adhered to. The volume of air within the void ensures that the thermal performance of the product is not compromised and that proper cooling of the LED can take place. The minimum void height is 50mm at 350mA/500mA.



E3 LED									
Output current	Minimum void dimension requirements (Lmm x Wmm x Hmm)	d volume							
		cm ³	Litre(s)						
350mA	120 x 120 x 50 (54 with /HL)	720cm ³	0.7						
500mA	120 x 120 x 70 (70 with /HL)	1008cm ³	1						
700mA	150 x 150 x 50 (74 with /HL)	1125cm ³	1.1						

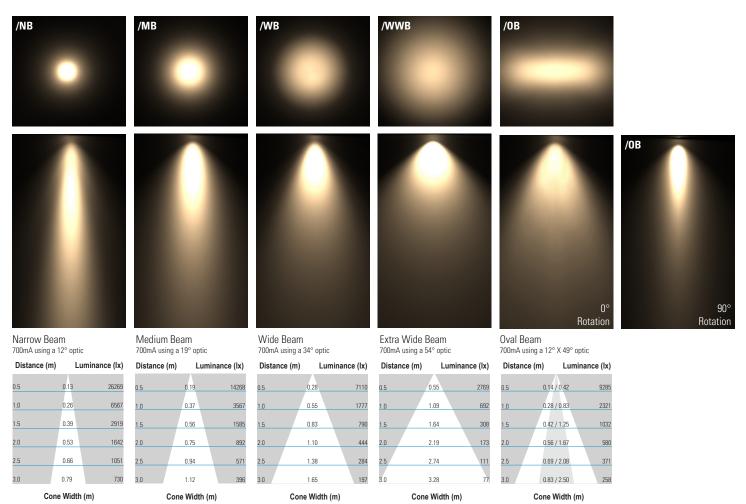
N1 LED								
Output current	Minimum void dimension Minim requirements (Lmm x Wmm x Hmm)		linimum void volume					
		cm ³	Litre(s)					
350mA	150 x 150 x 50 (54 with /HL)	1125cm³	1.1					
500mA	160 x 160 x 50 (54 with /HL)	1280cm ³	1.3					
700mA	230 x 230 x 56 (60 with /HL)	2962cm ³	3					

Note: At 700mA the minimum dimension between a wall, within the ceiling void and the edge of the fitting must be 70mm.

CONE DIAGRAMS

E3 LED Engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represent beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD1081 product page on the website.

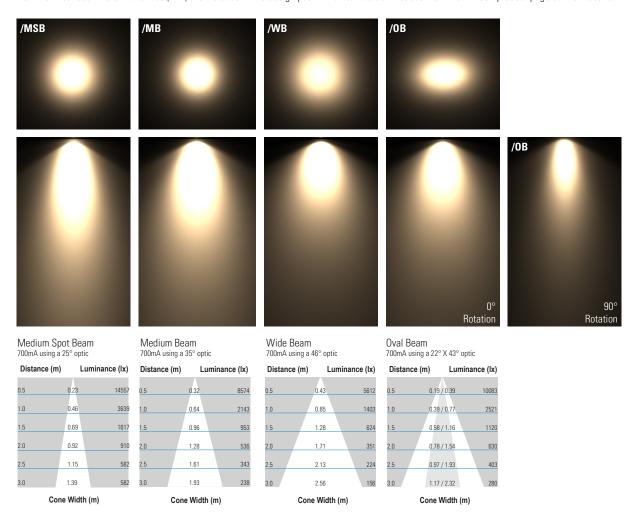




CONE DIAGRAMS

N1 LED Engine

Cone diagrams below are based on a 3000K N1 LED engine run at maximum output 700mA, 14W. Images below represent beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD1081 product page on the website.





ORDER CODES & OPTIONS

Example: LD1081-E3-500 / LW30 / MB / IP65 / White / HL

ight Engine & Drive Current		LED co	olour		Beam	angle		ı PI	ating		Finishes		Accessory
LD1081-	/			/			/			/		/	
— Е3													
W LED LD1081-E3-350 -		Extra Warm	/LW27		12° Narrow	/NB		IP40 IP65	/IP40 /IP65				
W LED t 500mA LD1081-E3-500		White (2700K) Warm	,		spot 19° Medium	/MB			7.1.00				Go
DW LED LD1081-E3-700		White (3000K)	/LW30		34° Wide	/WB					Paint Finish - White		/HL
		White (4000K) - on	/LW40		54° Extra wide	/WWB					(RAL 9016)		
		Cool White	/LW50		12° x 49° Oval Beam	/OB							
		(5000K)									Paint Finish - Black (RAL 9005)		
O N1											(10.0000)		
V LED 350mA LD1081-N1-350		Super Warm	/LW22		25° Medium	/MSB		IP40	/IP40				
W LED 500mA LD1081-N1-500		White (2200K) Extra	/LVVZZ		spot 35° Medium	/MB		11 03	/11 03		Paint Finish - Silver Anodised		
W LED 700mA LD1081-N1-700		Warm White (2700K)	/LW27		46° Wide	/WB							
		Warm White (3000K)	/LW30		22° x 43° Oval Beam	/OB					Paint Finish -		
		White (4000K) - on request	/LW40								Antique Bronze		
		Cool White (5000K)	/LW50								Paint Finish - Satin Antique		
											Brass		
											Paint Finish - Satin Brass		
											Paint Finish - Anthracite Grey		
											Anthracite Grey (RAL 7016)		

Paint Finish - RAL

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