



LD1083

FIXED HIGH-POWER SHALLOW RECESSED EXTERIOR LED DOWNLIGHT



























The LD1083 is an IP67 rated, ultra shallow, high-power downlight designed for external applications including marine projects. With two LED engine options, this compact fitting can deliver over 900lm, making it ideal for general downlighting, as well as for wall washing and architectural applications. An inner baffle helps to reduce glare and can be custom painted to suit the design scheme. With a minimalistic design it complements most interior or exterior project styles that require a high-power light output, from a very compact, shallow fitting that is built to last in the harshest environments.

KEY FEATURES

- High-power N1 engine with CREE COB delivering 905lm in 3000K at 700mA
- E3 engine featuring NICHIA LED delivering over 697lm in 3000K at 700mA
- Rated IP67, designed for shallow exterior or marine applications with a minimal recess depth of 70mm
- Gunmetal grey inner baffle and deep recessed LED for low glare with optional honeycomb louvre available
- High quality, machined bezel available in 316 Stainless Steel, Polished & Passivated 316 Stainless Steel and 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
- 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)
- 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					
Beam angles	12°, 18°, 31°, 55	5°, 14° x 48°				
LED manufacturer	NICHIA					
Colour temperature*	2700K, 3000K, 4	000K, 5000K				
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]			
Typical LED Circuit wattage	4.4W	6.4W	9.2W			
Delivered lumens (L ₁₀₀)*	407	517	697			
Delivered Im/Circuit W**	92	80	76			
ypical LED Source wattage	4W 5.8W 8.3W					
Source LED Im	574 740		949			
Source Im/W	144 128		114			
Forward voltage (V ₁₀₀)	11.3V 11.6V 11.8V					
CRI	85	85				
Colour consistency	2SCDM	2SCDM				
eak intensity	6,749 cd					
.OR	0.73					
TM30	RF85.5 RG98.1					
UGR rating ('downlight' mounted)***	8.1 8.9 10		10			
BUG rating ('downlight' mounted)	B1- U0 - G0					
LED lifetime	L90B5 at 90,000hrs					
Applications						

These values are based on LD1083-E3-700-LW30-NB & LD1083-N1-700-LW30-MSB

Lumen varian	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	1mm thick low iron glass
Materials	Anodised aluminium body, stainless steel bezel and constant force spring clips
Weight of product	0.394kg
IP rating	IP67
Wiring	In-series constant current wiring (Pre-wired with 2 core cable at a length of 350mm - can be specified up to 10 metres)

ENVIRONMENTAL

TM65	Available on request							
TM66	2.7							
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.							





^{*}See lumen variance table to the right for N1 engine. E3 lumens apply across all colour temperatures

^{**}LED wattage includes losses assocaited with using a 90% 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



316 STAINLESS STEEL

- Marine grade 316 Stainless Steel
- Standard machined finish
- Extremely durable
- Passivation recommended for marine environments to prevent corrosion and build up of brown stains caused by oxidation
- Interior & exterior use



POLISHED & PASSIVATED 316 STAINLESS STEEL

- Marine Grade 316 Stainless Steel
- Pristine mirror like finish
- Recommended for pools and marine applications
- Extremely durable with very high corrosion resistance
- Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
- Interior & exterior use

PAINT FINISH - POWDER COAT

- The powder coated finish is very matt
- Not recommended for high traffic in-ground applications, unless placed to one side where the bezel will not be walked on
- Powder coat paint is generally used on stainless steel or anodised aluminium components
- Interior and exterior use



WHITE



CLASSIC BRONZE



TEXTURED FIR GREEN (RAL 6009)



RAL COLOURS



BLACK



TEXTURED MARS BRONZE



GUNMETAL GREY (RAL 7021)

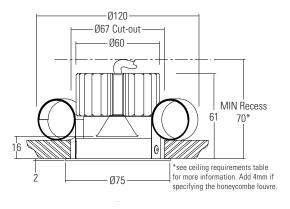


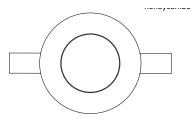




DIMENSIONS

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



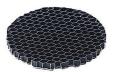


ACCESSORIES

/HL Honeycomb Louvre

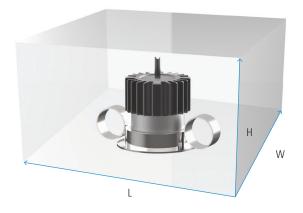
Honeycomb louvre for reduced glare from all angles. Please note this will increase the height of the fitting by 4mm.





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 70mm.



E3 LED								
Output current	Minimum void dimension Minimum void volu requirements (Lmm x Wmm x Hmm)							
		cm ³	Litre(s)					
350mA / 500mA	120 x 120 x 70 (74 with /HL)	1008cm ³	1					
700mA	150 x 150 x 70 (74 with /HL)	1575cm ³	1.5					

N1 LED									
Output current	Minimum void dimension requirements (Lmm x Wmm x Hmm)	Minimum void	oid volume						
		cm ³	Litre(s)						
350mA	120 x 120 x 70 (74 with /HL)	1008cm ³	1						
500mA	140 x 140 x 70 (74 with /HL)	1372cm³	1.3						
700mA	200 x 200 x 70 (74 with /HL)	2800cm ³	2.8						

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



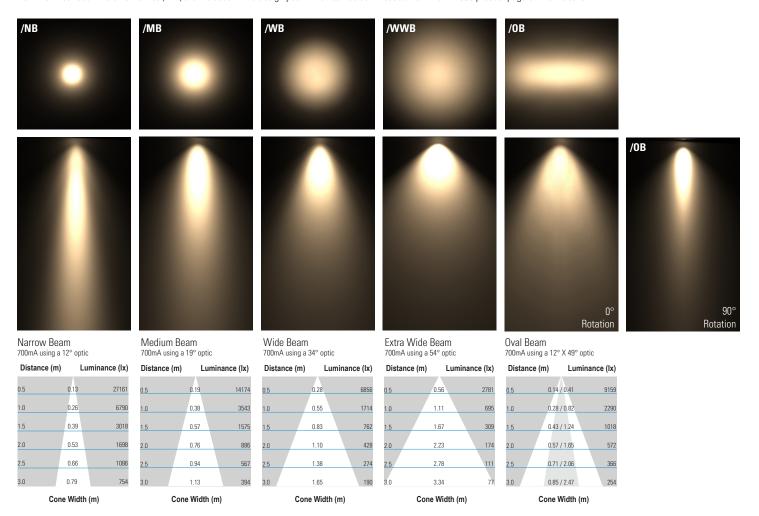




CONE DIAGRAMS

E3 LED Engine

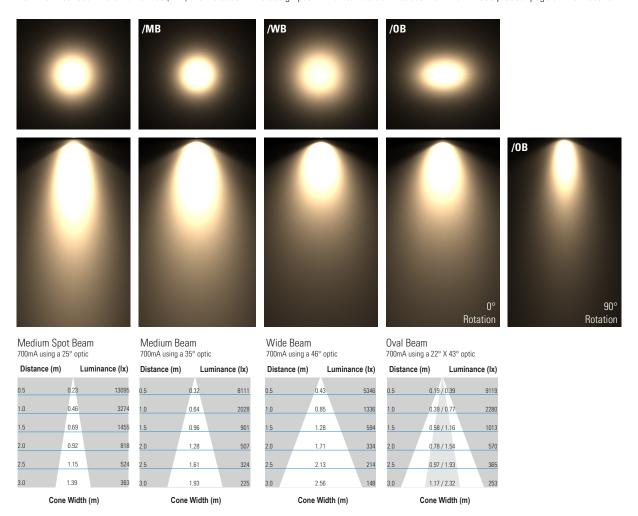
Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represent beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD1083 product page on the website.





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 LD1083 product page on the website.







ORDER CODES & OPTIONS

Example: LD1083-E3-350/LW27/NB/IP67/316 Stainless Steel/Black hard anodised/HL

Light Engir	ne & Drive Current		LED Colo	ur	,	Beam Ang	gle		Finish	1	Baffle Finish		Accessories
LD1083-		/			/			/		/		/	
\oplus	E3												
5W LED at 350mA	LD1083-E3-350		Extra Warm White (2700K)	/LW27		12° Narrow spot	/NB	7					
7W LED at 500mA	LD1083-E3-500		Warm White (3000K)	/LW30		19° Medium	/MB						A CONTRACTOR OF THE PERSON NAMED IN COLUMN TO PERSON NAMED IN COLUMN T
0W LED t 700mA	LD1083-E3-700		White (4000K) - on request	/LW40		34° Wide	/WB		316 Stainless Steel		Black hard anodised		/HL
			Cool White (5000K)	/LW50		54° Extra wide	/WWB						
						12° x 49° Oval Beam	/OB						
									Polished & Passivated 316 Stainless Steel (for marine environments)		Paint Finish Black (RAL 9005)		
0	N1				1				Paint Finish White	-	Paint Finish White		
7W LED at 350mA	LD1083-N1-350		Super Warm White (2200K)	/LW22		25° Medium spot	/MSB		(RAL 9016)		(RAL 9016)		
10W LED at 500mA	LD1083-N1-500		Extra Warm White (2700K)	/LW27		35° Medium	/MB						
14W LED at 700mA	LD1083-N1-700		Warm White (3000K)	/LW30		46° Wide	/WB		Paint Finish Black		Paint Finish Classic Bronze		
			White (4000K) - on request	/LW40		65° Extra wide	/WWB		(RAL 9005)		(YM262E)		
			Cool White (5000K)	/LW50		22° x 43° Oval	/OB						
									Paint Finish Classic Bronze (YM262E)		Paint Finish Textured Mars Bronze		
									Paint Finish Textured Mars Bronze		Paint Finish Textured Fir Green (RAL 6009)		
									Paint Finish Textured Fir Green (RAL 6009)		Paint Finish Gunmetal Grey (RAL 7021)		
									Paint Finish Gunmetal Grey (RAL 7021)		Paint Finish RAL		
Drivers													
	350mA, 500mA & 70	00m	A constant curren	t LED drive	ers				Paint Finish				

RAL





on our website.

We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section ${\sf C}$