

## **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
- > Designed for shallow applications with a minimal recess depth of 70mm
- 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.
- > Matt black baffle low glare inner baffle and deep recessed LED with optional honeycomb louvre available
- > 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°, 20°, 34°, 5	5°, 12° x 49°		25°, 35°, 46°,	25°, 35°, 46°, 22° x 43°					
LED manufacturer	NICHIA			CREE	CREE					
Colour temperature*	2700K / 3000K	/ 4000K / 5000K		2200K / 2700K	2200K / 2700K / 3000K / 4000K / 5000K					
Current	350mA	500mA	700mA	350mA	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 <sub>100</sub> )	407	517	697	488	669	905				
Lumens per circuit watt	81	74	70	69	66	64				
CRI (Typ)	85			93						
Forward voltage (V <sub>100</sub> )	14V			18V						
Colour consistency	2 SCDM			2 SCDM						
Peak intensity	6749 cd			3622 cd						
LED Lumens	840lm			1393lm	1393lm					
LOR	0.83			0.73						
TM30	RF85.5		RG98.1	RF92.1	RF92.1 RF100					
UGR	11.1			13.9	13.9					
LED lifetime	L90B5 at 90,000	L90B5 at 90,000hrs								
Applications										

These values are based around a LD1082-E3-700-LW30-NB & LD1082-N1-700-LW30-MSB

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	0.296kg
IP rating	IP40 or 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)

<sup>\*</sup>see lumen variance table to the right for N1 engine. E3 lumens apply across all colour temperatures

<sup>\*\*</sup>indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

<sup>\*\*\*</sup>UGR values based on room parameter of 4H, 8H, C70 W50 F20  $\,$ 

## **AVAILABLE FINISHES**

Please refer to our finishes guide for full details

The LD1082 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** 



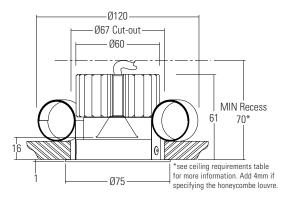
**ANTHRACITE GREY (RAL 7016)** 

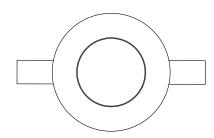


RAL

# **DIMENSIONS AND FIXING OPTIONS**

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





## **ACCESSORIES**

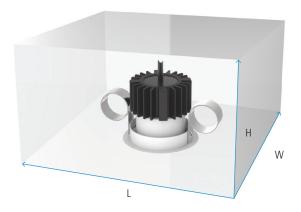
#### /HL Honeycomb Louvre

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 50mm.



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

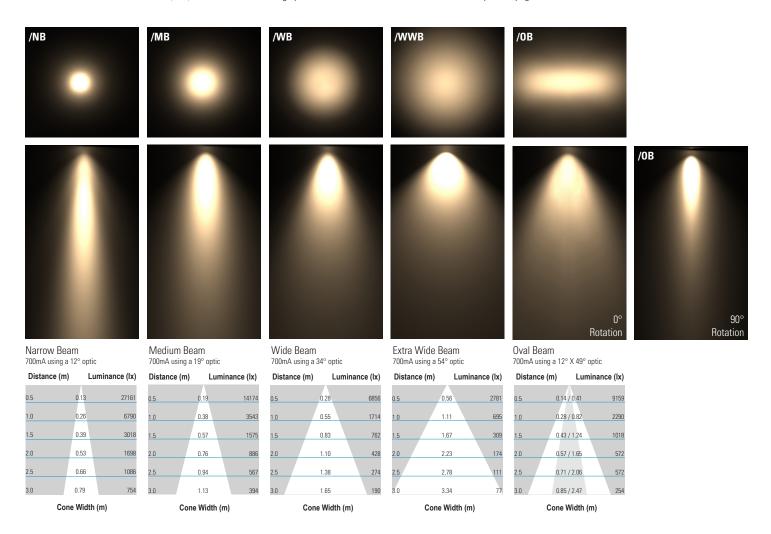
N1 LED								
Output current	Minimum void dimension requirements (Lmm x Wmm x Hmm)	Minimum voic	volume					
		cm <sup>3</sup>	Litre(s)					
350mA	120 x 120 x 70 (74 with /HL)	1008cm <sup>3</sup>	1					
500mA	140 x 140 x 70 (74 with /HL)	1372cm <sup>3</sup>	1.3					
700mA	230 x 230 x 50 (60 with /HL)	2800cm <sup>3</sup>	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 LD1082 product page on the website.

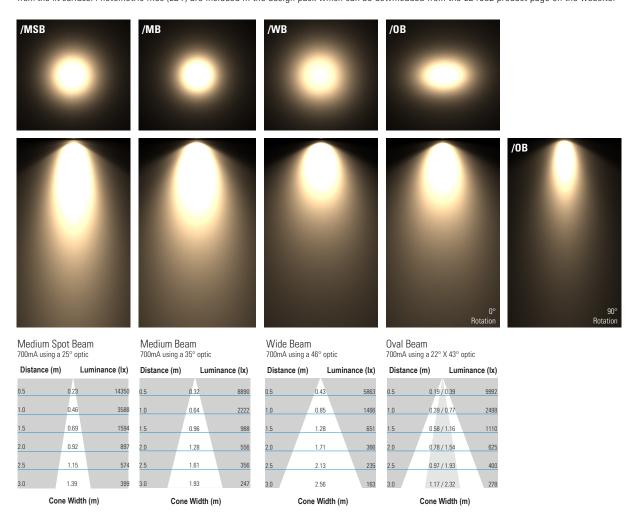




## **CONE DIAGRAMS**

### **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 LD1082 product page on the website.





## **ORDER CODES & OPTIONS**

Example: LD1082-E3-500 / LW30 / MB / IP65 / White / HL

ight engine & drive current		LED co	lour		Beam	angle		IP i	rating		Finishes		Accessory
D1082-	/			/			/			/		/	
⊕ E3													
W LED LD1082-E3-350		Extra Warm	/LW27		12° Narrow	/NB		IP40 IP65	/IP40 /IP65				
V LED 500mA LD1082-E3-500		White (2700K) Warm	/LVVZ/		spot 19° Medium	/MB		11 03	/11 03				
W LED 700mA LD1082-E3-700		White (3000K)	/LW30		34° Wide	/WB					Paint Finish - White		/HL
		White (4000K) - on	/LW40		54° Extra wide	/WWB					(RAL 9016)		
		request Cool White	/LW50		12° x 49° Oval Beam	/OB							
		(5000K)									Paint Finish - Black (RAL 9005)		
N1													
LD1082-N1-350		Super Warm	/LW22		25° Medium	/MSB		IP40 IP65	/IP40 /IP65		District		
N LED LD1082-N1-500		White (2200K)	,		spot 35° Medium	/MB			7 00		Paint Finish - Silver Anodised		
W LED 700mA LD1082-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 (RAL 7016)		
											(IAL 7010)		
ivers													

Paint Finish - RAL

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