

## **KEY FEATURES**

- E3 engine option with NICHIA LED, delivering up to 647 lumens and built-in reverse polarity protection
- $\,>\,\,\,\,\,\,$  F1 COB, Tunable White, CLR, RGBW, 2nd channel LEDs also available
- > Straight edged bezel available in 316 Stainless Steel, Polished & Passivated 316 Stainless Steel, Machined Brass, Flamed Solid Bronze and paint finishes
- > Multiple optic options for lighting columns, arches or wall washing in interior and exterior applications, rated IP67
- > Choice of glare shields to minimise the view of the intense light source without affecting the wash of light on the wall/column
- > Single light source and optic produces a very consistent beam with no multiple shadows and 2-step binning
- > LED and lens are recessed in a matt black anodised body for reduced glare
- > Toughened glass with a ceramic black trim
- > Fitting rated IK08
- > Hidden fixing options include first fix sleeve, ground tube and concrete housing
- > Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

## **DIMENSIONS**

Dimensions in mm

For full dimensions please go to page 4.







# WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3	⊕ E3			F1		
Beam angles	12°, 19°, 34°, 54°,	12°, 19°, 34°, 54°, 49° x 15°			25°, 46°, 65°, 43° x 25°		
LED manufacturer	NICHIA	NICHIA			CREE		
Colour temperature*	2700K / 3000K / 4	2700K / 3000K / 4000K / 5000K			2200K		
Current	350mA	350mA 500mA 700mA**		350mA	500mA	700mA**	
LED power (Max)	4.2W (5W***)	4.2W (5W***) 6W (7W***) 8.4W (10W***)		3.2W (3.5W***)	4.5W (5W***)	6.3W (7W***)	
Delivered lumens (L <sub>100</sub> )****	363	477	647	211	272	348	
Lumens per circuit watt	73	68	65	61	55	50	
CRI (Typ)	85	85			90		
Forward voltage (V <sub>100</sub> )	14V	14V			9V		
Colour consistency	2 SCDM	2 SCDM			3 SCDM		
Peak intensity	6890 cd	6890 cd			1664 cd		
LED lumens	840	840			623		
LOR	0.77	0.77			0.63		
TM30	RF85	RF85 RG98		RF90 RG103			
UGR****	7.0	7.0			9.1		
LED lifetime	L90B5 at 90,000hr	L90B5 at 90,000hrs					
Applications							

These values are based around a LD151-E3-700-LW30-NB & LD151-F1-700-LW22-MSB

#### **MECHANICAL**

Ambient temperature	-20° to 45° (500mA) or -20° to 35° (700mA)
Glass	6mm thick toughened glass with black ceramic screen print
Materials	Stainless steel bezel, anodised aluminium body
Weight of product	0.52kg
IP rating	IP67
IK rating	IK08
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 250mm)

#### **ENVIRONMENTAL**

TM65	Available on request
TM66	2.7

<sup>\*</sup>Lumen output data applies to all colour temperatures
\*\*can only be specified with /484N concrete housing

<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>lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.

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



## **COLOUR & DYNAMIC LED ENGINE SPECIFICATION**

Engine	CLR - Colour	RGBW		TW - Tunable White	
Beam Angles	24°, 38°, 54°, 20° x 46°	38° colour mix lens		24°, 38°, 54°, 20° x 46°	
LED manufacturer	CREE	CREE		CREE	
Colour temperature	Red, Green, Blue, Amber	Red, Green, Blue, 4000K White		Warm White 2700K or 3000K	Cool White 4000K or 5000K
Current	500mA	350mA 500mA		500mA	
LED power (Max)	7W	3.5W	5W 5W 6.3W (7W) 3.5W per channel		
Applications					

#### **MECHANICAL**

Glass	6mm thick toughened glass with black ce	6mm thick toughened glass with black ceramic screen print					
Materials	Stainless steel bezel, anodised aluminiur	Stainless steel bezel, anodised aluminium body					
Weight of product	0.52kg	0.52kg					
IP rating	IP67	IP67					
IK rating	IK08	IK08					
Wiring	CLR - 2 core cables at 250mm in length	RGBW - 8 core cables at 250mm in length  CH 1 CH 3  CH 2 CH 4	TW - 4 core cables at 250mm in length  CH 1 CH 2				

## **AVAILABLE FINISHES**

Please refer to our finishes guide for full details





#### 316 STAINLESS STEEL

- Marine grade 316 Steel
- > Standard machined finish
- > Extremely durable with very high corrosion resistance
- > 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 Steel
- > Mirror like finish
- > 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





#### MACHINED BRASS

- > Solid CZ121 Brass
- > Standard machined finish
- > Corrosion resistance rated fair to excellent
  - Please note a natural green/brown patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.
- > Interior & exterior use





#### FLAMED SOLID BRONZE

- > Solid Bronze
- > Hand finished Flamed Bronze unique to LightGraphix
- > Extremely durable with very high corrosion resistance.
- Please note a natural dark patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.
- > Interior & exterior use

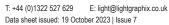




#### **PAINT FINISH**

- Matt Black, Matt White, and other RAL colours available
- > Not recommended for footlights in high traffic
- > Interior & exterior use







## **DIMENSIONS AND FIXING ACCESSORIES**

Dimensions in mm

#### /484S First Fix Sleeve

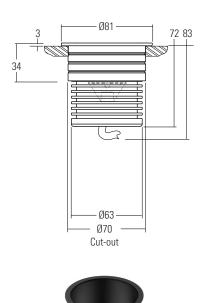
The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD151 is secured into the sleeve by 2 'O' rings on the body. When pushed into the sleeve it creates a watertight seal.

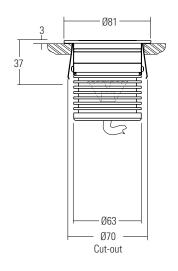
## /SC Spring clip fixing

Suitable for use in surfaces with a thickness of 1mm – 25mm. Spring clips can provide a simple, single fix mounting method. We recommend that spring clips are only used in interior applications.

#### /484GT Ground tube

The in-ground tube has been designed for applications here a recessed uplight is required in soil or gravel surfaces. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. It is supplied with the fixing sleeve bonded into the tube and can be cut down on site.



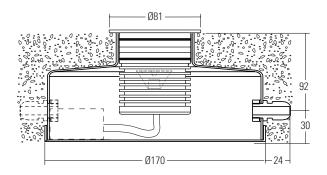




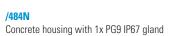


## /484N or /484N-2 Concrete housing

Must be used when specifying the 700mA fitting. The aluminium housing is used as a heat sink which keeps the LED fitting cool through the thermal transfer of the heat within the housing to the surrounding concrete. The housings are big enough for IP rated connections to be made inside the housing and a second gland is available for cabling onto the next luminaire.









/484N-2 Concrete housing with 2x PG9 IP67 gland

/ID Optional integral non dimming driver (single colour only at 350mA or 500mA)



# **GLARE SHIELD OPTIONS**

LD151 comes with a choice of glare control options. Please refer to our photometric files for lumen data. These are available to download from the website.



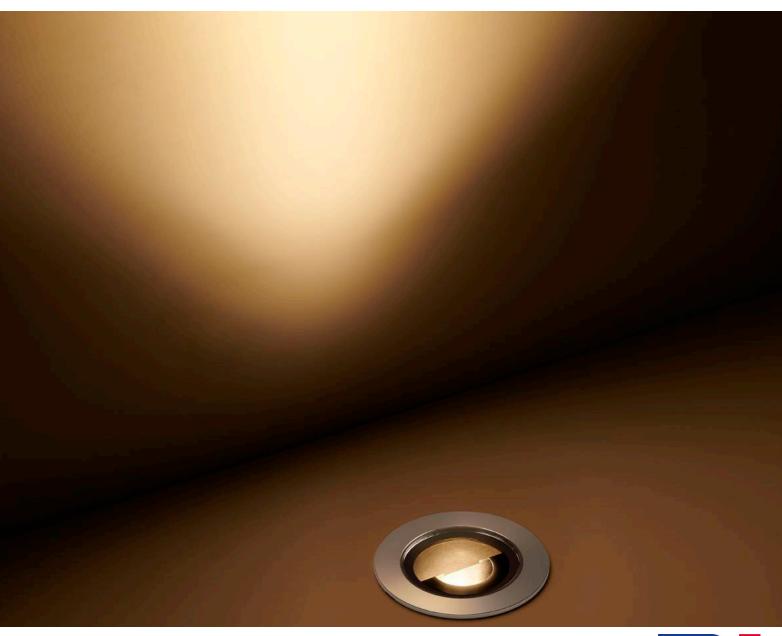
/NGS No glare shield No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.



/GS Glare shield
Standard glare shield, which provides an excellent
balance between glare control and light output. This
accessory works well in most applications.



/GSHM Half moon glare shield Half-moon glare shield for applications that require very low glare. Lumen output typically reduced by 60%.



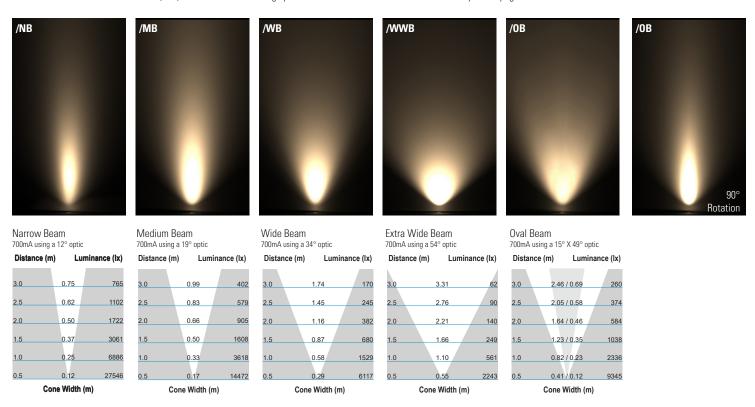




## **CONE DIAGRAMS**

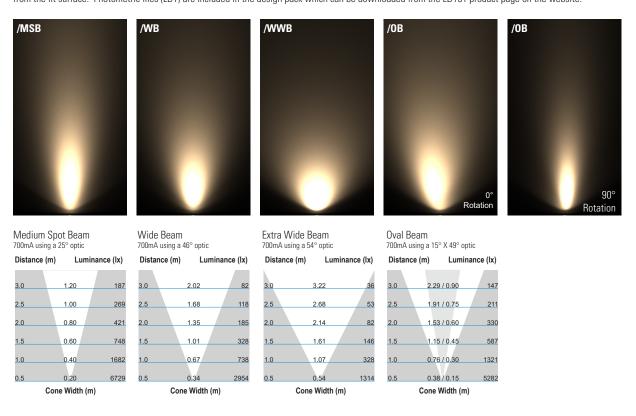
## E3 LED Engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represents 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 LD151 product page on the website.



## F1 LED Engine

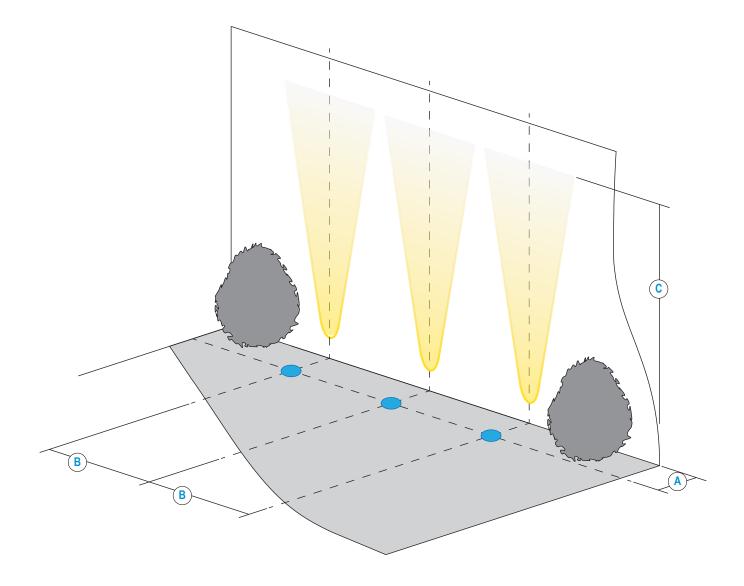
Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD151 product page on the website.





# **INSTALLATION GUIDE**

Below is a luminaire positioning guide for white LEDs. Every project and lighting scenario will be different; the table below is to be used as a starting point for any wall wash design. Please use our photometric files to further test the desired effect for your application. Files are available on our LD151 product page on our website.



LD151-E3		/NB	/MB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	125mm				
B	Spacing for an even wash	250mm*	350mm	400mm	500mm	500mm
C	500mA Lit distance	6m	4.5m	2m	2m	4m
C	700mA Lit distance	9m	5.5m	4m	3m	5m

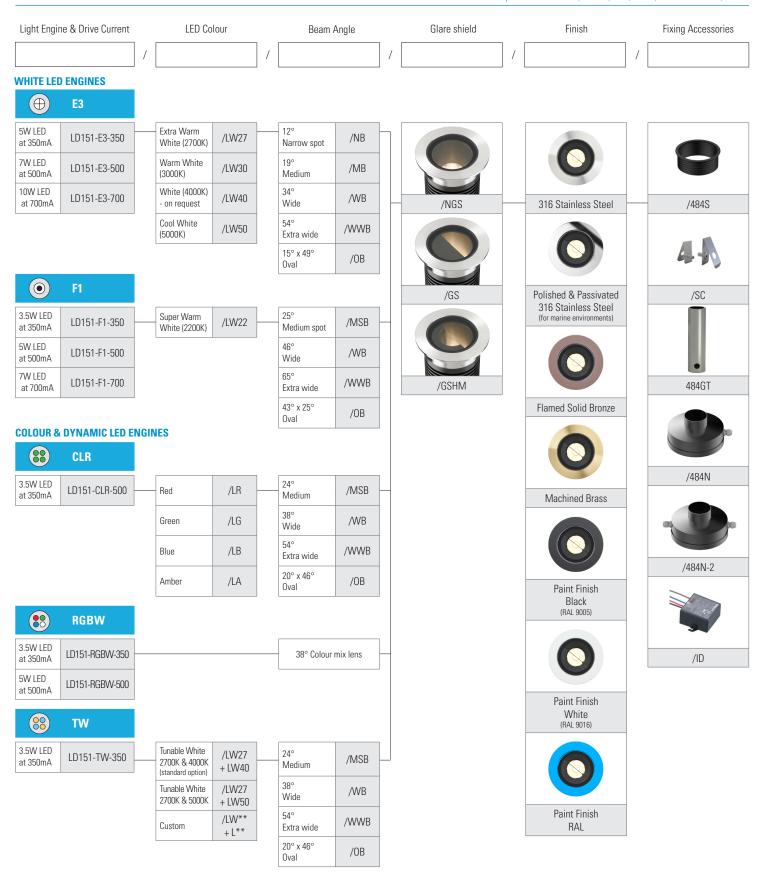
*Wall washing using narrow beam optic	s should only be us	ised if the designer	requires long
distance lighting up the lit surface.			

LD151-F1		/MSB	/WB	/WWB	/OB
A	Distance from the centre of the fitting to the lit surface	125mm			
B	Spacing for an even wash	350mm	400mm	500mm	500mm
C	500mA Lit distance	2.5m	2m	1.5m	3m
C	700mA Lit distance	5m	4m	2m	4m



## **ORDER CODES & OPTIONS**

Example: LD151-E3-700 / LW30 / NB / NGS / Stainless Steel / 484N



Drivers

Use with 350mA, 500mA & 700mA constant current LED drivers

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



