## LightGraphix

Creative Lighting Solutions

Dimensions in mm



illumination onto interior and exterior walls and columns. It can be specified with a wide range of options allowing it to suit most project requirements. The E3 engine delivers a high output of 626lm, 12° narrow beam, and both engines are available in a wide range of colour temperatures from 2200K to 5000K. Tunable White, RGBW. The bezel aesthetic is minimal featuring black trim glass and no visible fixings. This is a very tough, high quality fitting, machined from high-grade materials, ensuring excellent thermal and light output performance.



## **KEY FEATURES**

- E3 engine option with NICHIA LED, delivering up to 647 lumens and built-in reverse polarity protection
- Available in a wide range of colour temperatures from 2200K to 5000K >
- 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

Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated connections

Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

### DIMENSIONS

For full dimensions please go to page 4.





## WHITE LED ENGINE SPECIFICATION

Engine	🕀 E3			• F1				
Beam angles	12°, 19°, 34°, 54°	°, 15° x 49°		25°, 35°, 52°, 1	25°, 35°, 52°, 17° x 48°			
LED manufacturer	NICHIA			CREE				
Colour temperature*	2200K, 2700K, 30	00K, 4000K, 5000K		2200K, 2700K, 3	2200K, 2700K, 3000K, 4000K, 5000K			
Current [Rated Output]	350mA [5w]	500mA [7W]	700mA [10W]	350mA [3.5W]	500mA [5W]	700mA [7W]		
Typical LED Circuit wattage	4.4W	6.4W	9.2W	3.3W	5W	7.2W		
Delivered lumens (L100)*	363	477	647	211	272	348		
Delivered Im/Circuit W**	82	74	70	63	54	48		
Typical LED Source wattage	4W	5.8W	8.3W	3W	4.5W	6.5W		
Source LED Im	574	740	949	377	497	654		
Source Im/W	144	128	114	126	110	101		
Forward voltage ( $V_{100}$ )	11.3V	11.6V	11.8V	8.7V	9V	9.3V		
CRI	85			90				
Colour consistency	2SDCM			3SDCM				
Peak intensity**	4,346 cd			1,664 cd				
LOR	0.68			0.53				
TM30	RF93   RG101			RF90   RG103				
UGR rating ('downlight' mounted) ***	6.1	7.1	8	7.4	8.3	9.1		
BUG rating ('downlight' mounted)	B0-U3-G0 B0-U3-G0 B0-U4-G0			B0-U3-G0				
LED lifetime	L90B5 at 90,000h	rs		L90B5 at 90,000hrs				
Applications								

These values are based around a LD151-E3-700-LW30-NB & LD151-F1-700-LW22-MSB \*Lumen output data applies to all colour temperatures \*\*LED wattage includes losses assocaited with using a 90% efficient driver \*\*\*UGR values based on room parameters of 4H 8H, C70 W50 F20

#### **MECHANICAL**

Ambient temperature	E0	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 25°C (700mA) in soil			
	E3	Concrete	-20°C to 50°C (350mA-700mA) in concrete			
	F1	Soil	-20°C to 50°C (350mA-700mA) in soil			
		Concrete	-20°C to 50°C (350mA-700mA) in concrete			
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 exterior cable at a length of 250mm)					

#### **ENVIRONMENTAL**

TM65	Available on request							
TM66	2.7							
Repair + Refurbish	<b>R</b> + <b>R</b> 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.							



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

Engine	CLR - Colour	RGBW	I	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, Blu	ie, 4000K White	Warm White 2700K or 3000K	Cool White 4000K or 5000K	
Current	500mA	350mA	500mA	500mA		
LED power (Max)	7W	3.5W	5W	6.3W (7W) 3.5W per channel		
Applications				_ · ·		

#### MECHANICAL

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	<b>CLR</b> - 2 core cables at 250mm in length	RGBW - 8 core cables at 250mm in length CH 1 CH 3	TW - 4 core cables at 250mm in length CH 1 CH 2								

## **AVAILABLE FINISHES**





#### **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 excellentPlease note a natural
  - reese file a flatural 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

Extremely durable with very

high corrosion resistance.

Please note a natural dark

patination layer will form

unique to LightGraphix

>

>

>

>

>





#### PAINT FINISH

Please refer to our finishes guide for full details

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



>



Dimensions in mm

## **DIMENSIONS AND FIXING ACCESSORIES**

#### /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 '0' 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 Concrete housing with 1x PG9 IP67 gland



/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%.





## LightGraphix Creative Lighting Solutions

LD151

## **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.



0.5 Cone Width (m)

0.5/

1314

205/

0.34

Cone Width (m)





6729 0.5

0.20

Cone Width (m)

0.5





LD151

## **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.



LD15	1-E3	/NB	/MB	/WB	/WWB	/0B		LD151	-F1	/MSB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	125mm				-		Distance from the centre of the fitting to the lit surface	125mm				
B	Spacing for an even wash	250mm*	350mm	400mm	500mm	500mm	-	B	Spacing for an even wash	350mm	400mm	500mm	500mm
C	500mA Lit distance	6m	4.5m	2m	2m	4m	-	<b>C</b>	500mA Lit distance	2.5m	2m	1.5m	3m
C	700mA Lit distance	9m	5.5m	4m	3m	5m	-	C	700mA Lit distance	5m	4m	2m	4m

\*Wall washing using narrow beam optics should only be used if the designer requires long distance lighting up the lit surface.



## LightGraphix Creative Lighting Solutions

# LD151

## **ORDER CODES & OPTIONS**

#### EXAMPLE: LD151-E3-700 / LW30 / NB / NGS / STAINLESS STEEL / 484N Light Engine & Drive Current LED Colour Glare shield Finish **Fixing Accessories** Beam Angle WHITE LED ENGINES $(\oplus)$ **E3** Super Warm 12° 5W LED LD151-E3-350 White /LW22 /NB at 350mA Narrow spot (2200K) Extra Warm 7W LED 19° LD151-E3-500 /LW27 White /MB at 500mA Medium (2700K) 316 Stainless Steel /484S /NGS 10W LED 34° Warm White LD151-E3-700 /LW30 /WB at 700mA (3000K) Wide White 54° (4000K) /LW40 /WWB Extra wide on request /SC Cool White 15° x 49° /GS Polished & Passivated /0B /LW50 (5000K) Oval 316 Stainless Steel (for marine environments) /GSHM /484N $\bigcirc$ **F1** Flamed Solid Bronze Super Warm 3.5W LED 259 LD151-F1-350 White /LW22 /MSB at 350mA Medium spot (2200K) Extra Warm 5W LED 46° /484N-2 LD151-F1-500 White /LW27 /WB at 500mA Wide (2700K) Machined Brass 7W LED Warm White 65° LD151-F1-700 /LW30 /WWB at 700mA (3000K) Extra wide White 43° x 25° (4000K) /LW40 /0B /ID Oval on request Paint Finish Cool White /LW50 Black (5000K) (RAL 9005) /484GT Paint Finish White (RAL 9016) Paint Finish RAL

#### 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



## LightGraphix Creative Lighting Solutions

# LD151

## **ORDER CODES & OPTIONS**

## EXAMPLE: LD151-CLR-500 / LW30 / MSB / 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.

