

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			F1				
Beam angles	12°, 19°, 34°, 54°,	49° x 15°		25°, 46°, 65°, 43° x 25°				
LED manufacturer	NICHIA			CREE				
Colour temperature*	2700K / 3000K / 40	000K / 5000K		2200K				
Current	350mA	500mA	700mA**	350mA	500mA	700mA**		
LED power (Max)	4.2W (5W***)	6W (7W***)	8.4W (10W***)	3.2W (3.5W***)	4.5W (5W***)	6.3W (7W***)		
Delivered lumens (L ₁₀₀)****	363	477	647	211	272	348		
Lumens per circuit watt	73	73 68 65		61	55	50		
CRI (Typ)	85			90				
Forward voltage (V ₁₀₀)	14V			9V				
Colour consistency	2 SCDM			3 SCDM				
Peak intensity	6890 cd			1664 cd				
LED lumens	840			623				
LOR	0.77			0.63				
TM30	RF85	RGS	98	RF90 RG103				
UGR****	7.0			9.1				
LED lifetime	L90B5 at 90,000hrs	S						
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





^{*}Lumen output data applies to all colour temperatures
**can only be specified with /484N concrete housing

^{***}indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

^{****}lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.

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

COLOUR & DYNAMIC LED ENGINE SPECIFICATION

Engine	CLR - Colour	RGBW		TW - Tuna	able White
Beam Angles	24°, 38°, 54°, 20° x 46°	38° colour mix lens	3	24°, 38°, 54°, 20° x	46°
LED manufacturer	CREE	CREE		CREE	
Colour temperature	Red, Green, Blue, Amber	Red, Green, Blue, 4	000K 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 ce	eramic screen print	
Materials	Stainless steel bezel, anodised aluminiur	n body	
Weight of product	0.52kg		
IP rating	IP67		
IK rating	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

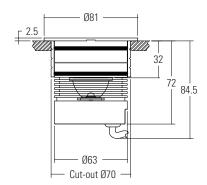
Dimensions in mm

/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 '0' rings on the body. When pushed into the sleeve it creates a watertight seal.

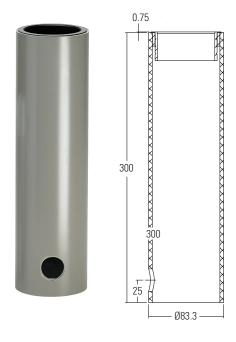






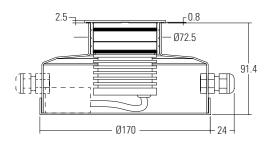
/484GT Ground tube

The in-ground tube has been designed for applications where 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.



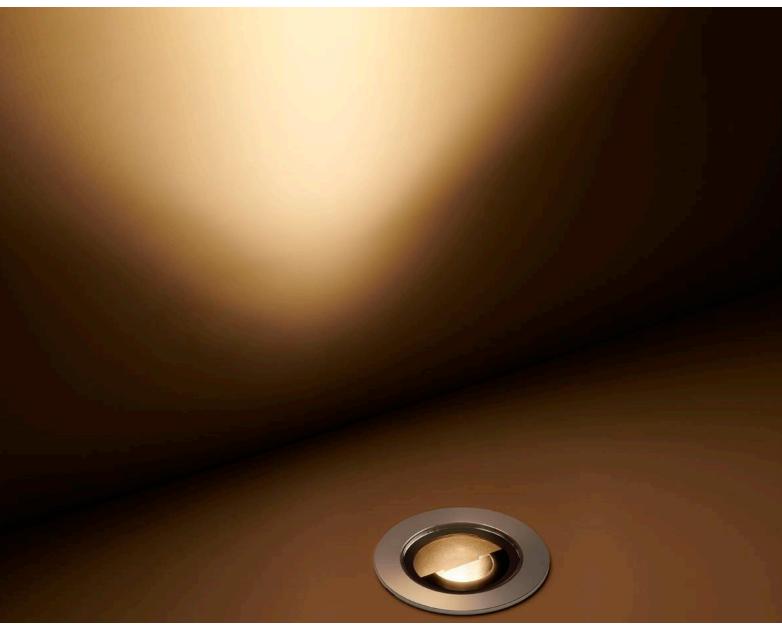
/GS Glare shield

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%.



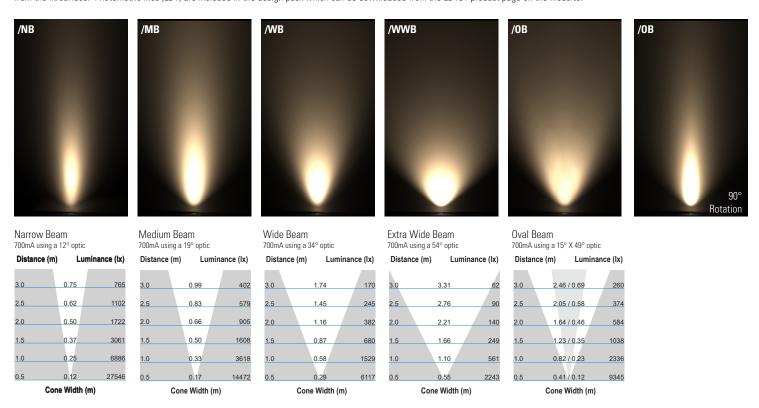




CONE DIAGRAMS

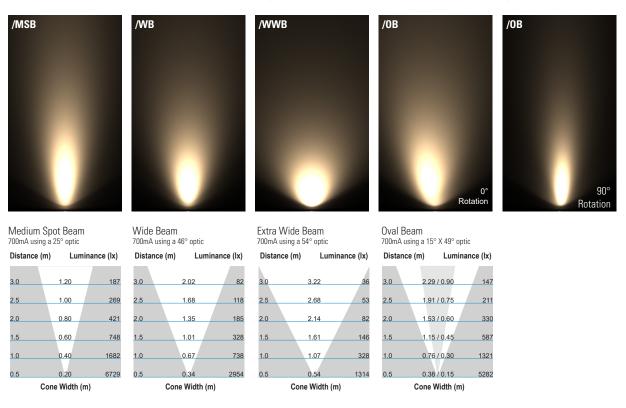
E3 LED Engine

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

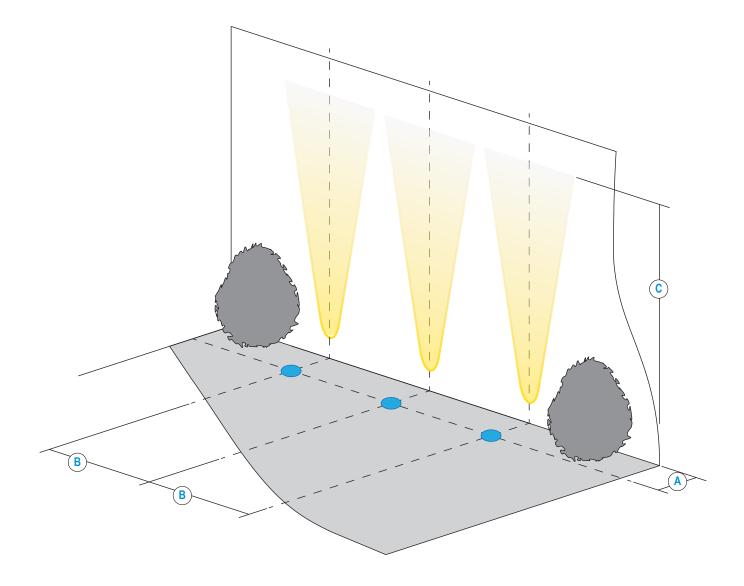
Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD151 product page 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	I-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 optics	should only be use	ed if the designer	requires long
distance lighting up the lit surface.			

LD151	I-F1	/MSB	/WB	/WWB	/OB
A	Distance from the centre of the fitting to the lit surface		125	mm	
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

	ent	LED Colour			Beam Angl	е		Glare Shield		Bezel Finish		Fixing Accessorie
LD151 -	/			/			/		/		/	
VHITE LED ENGINES												
⊕ E3												
5W LED LD151-E3-35 at 350mA	50	Extra Warm White (2700K) Warm White (3000K)	/LW27 /LW30		- 12° Narrow spot 19° Medium	/NB /MB						
7W LED LD151-E3-50 at 500mA	00	White (4000K) - on request	/LW40 /LW50		34° Wide	/WB						
0W LED at 700mA LD151-E3-70	00	GOOT WHITE (GOODN)	/LVV30	J	54° Extra wide 15° x 49° Oval	/WWB		/NGS		316 Stainless Steel		/484\$
F1												
.5W LED t 350mA LD151-F1-35	50	Super Warm White (2200K)	/LW22		- 25° Medium spot	/MSB						
W LED at 500mA LD151-F1-50	00					/WB		/GS		Polished & Passivated 316 Stainless Steel		/484N
W LED LD151-F1-70	00				43° x 25° Oval	/0B				(for marine environments)		as a
DLOUR & DYNAMIC LE	D ENG	INES						/GSHM		Flamed Solid		/484N-2
										Flamod Solid		
CLR CLR										Bronze		n. I
W LED LD151 CLR 5	00	Red Green	/LR /LG		- 24° Medium 38° Wide	/MB						/ID
W LED LD151 CLR 5	00				38° Wide 54° Extra wide	/WB						/ID
ZWIED	00	Green Blue	/LG /LB		38° Wide	/WB						/ID
W LED LD151-CLR-5	00	Green Blue	/LG /LB		38° Wide 54° Extra wide	/WB				Bronze		/ID /484GT
W LED LD151-CLR-5 RGBW .5W LED t 350mA LD151-RGBN	V-350	Green Blue	/LG /LB		38° Wide 54° Extra wide	/WB /WWB /OB				Bronze Machined Brass		
W LED LD151-CLR-5	V-350	Green Blue	/LG /LB		38° Wide 54° Extra wide 20° x 46° Oval	/WB /WWB /OB				Bronze		
RGBW SW LED 2500mA LD151-CLR-5 RGBW LD151-RGBV LD151-RGBV	V-350	Green Blue	/LG /LB		38° Wide 54° Extra wide 20° x 46° Oval	/WB /WWB /OB				Bronze Machined Brass Paint Finish - Black		
RGBW SW LED 350mA LD151-RGBV LD151-RGBV TW LD151-TW3	V-350 V-500	Green Blue	/LG /LB		38° Wide 54° Extra wide 20° x 46° Oval 38° Colour mix	/WB /WWB /OB				Machined Brass Paint Finish - Black (RAL 9005)		
RGBW SW LED 350mA LD151-RGBV LD151-RGBV TW LD151-TW3	V-350 V-500	Green Blue Amber Tunable White 2700K &	/LG /LB /LA		38° Wide 54° Extra wide 20° x 46° Oval 38° Colour mix - 24° Medium 38° Wide	/WB /WWB /OB				Bronze Machined Brass Paint Finish - Black		
RGBW SW LED 1500mA LD151-CLR-5 RGBW LD151-RGBV LD151-RGBV LD151-RGBV LD151-RGBV	V-350 V-500	Green Blue Amber Tunable White 2700K & 4000K (standard option) Tunable White	/LG /LB /LA /LW27 + LW40 /LW27		38° Wide 54° Extra wide 20° x 46° Oval 38° Colour mix - 24° Medium 38° Wide	/WB /WWB /OB				Bronze Machined Brass Paint Finish - Black (RAL 9005) Paint Finish - White		

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.

